Los Alamos
NATIONAL LABORATORY
EST. 1943
Environmental Programs
Corrective Actions Project
PO Box 1663, Mail Stop M992
Los Alamos, New Mexico 87545
(505) 667-0819/FAX (505) 665-4747

TA19

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-7203/FAX (505) 665-4504

Date: June 9, 2006
Refer to: ER2006-0494

Mr. James Bearzi
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

RECEIVED
JUN 2006
Hazardous Waste Bureau

SUBJECT: SUBMITTAL OF THE SUPPLEMENTAL RESPONSE TO THE NOTICE OF DISAPPROVAL FOR THE REMEDY COMPLETION REPORT FOR THE INVESTIGATION AND REMEDIATION OF CONSOLIDATED UNIT 19-001-99 (FORMER TA-19/EAST GATE LABORATORY)

Dear Mr. Bearzi:

Enclosed please find two hard copies with electronic files of the "Supplemental Response to the Notice of Disapproval for the Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/East Gate Laboratory)." Based on the results presented in this response, Los Alamos National Laboratory is requesting certificates of completion for Solid Waste Management Units 19-001, 19-002, 9-003, and Area of Concern C-19-001.

If you have questions, please contact Becky Coel-Roback (505) 665-5011 (becky_cr@lanl.gov) or Robert Enz at (505) 667-7640 (renz@doeal.gov).

Sincerely,

Andrew Phelps, Associate Director
Environmental Programs
Los Alamos National Security, LLC

Sincerely,

David Gregory, Federal Project Director
Department of Energy
Los Alamos Site Office

1609

AP/DG/BCR/jr

Enclosure: 1) Two hard copies with electronic files – "Supplemental Response to the Notice of Disapproval for the Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99." (Former TA-19/East Gate Laboratory) (ER2006-0326)

Cy: (w/enc):
B. Coel-Roback, EP-CA, MS M992 (with CD)
D. Gregory, DOE LASO, MS A316 (with CD)
R. Enz, DOE LASO, MS A316 (with CD)
CA File, MS M992 (with CD)
RPF, MS M707 (with CD)
S-7, MS F674 (without CD)

Cy: (CD only)
L. King, EPA Region 6
P. Reneau, EP-ERSS, MS M992
L. Causey, LATA, MS M321

Cy: (w/o enc)
A. Dorries, EP-ERSS, MS M992
D. McInroy, EP-CA, MS M992
C. Mangeng, ADEP, MS J591
A. Phelps, ADEP, MS J591
IM-9, MS A150

Supplemental Response to the Notice of Disapproval for the Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/East Gate Laboratory) Los Alamos National Laboratory EPA ID No: NM0890010515 HWB-LANL-05-011

INTRODUCTION

This submittal is the supplemental response by Los Alamos National Laboratory (LANL) to the "Notice of Disapproval for the Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/East Gate Laboratory)," issued by the New Mexico Environment Department (NMED) Hazardous Waste Bureau on October 31, 2005, and to which LANL responded on December 9, 2005 (LANL 2005, 91529). The "Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/East Gate Laboratory)" was submitted by LANL to NMED on July 29, 2005 (LANL 2005, 89660).

BACKGROUND

Analytical results for samples collected in 2004 and 2005 at Consolidated Unit 19-001-99 showed increasing concentrations of cobalt and chromium with depth at five locations: 19-22608, 19-22615, 19-22627, 19-22630, and 19-22631. These samples were collected from discrete 0.5-ft intervals using a 2-ft stainless-steel split-spoon core-barrel sampler. Boreholes in 2004 and 2005 were completed using a hand auger or, where collecting samples with the hand auger was not possible, a hand-held power auger with a metal drill bit was used. The 2006 boreholes were completed using hollow-stem auger drilling methods with a stainless-steel drill bit. Chromium was detected in the 2004 and 2005 samples at up to 5 times background at depths up to 6.5 ft below ground surface (bgs), and cobalt was detected at up to 65 times background at a depth up to 6.5 ft bgs.

The elevated chromium and cobalt concentrations in the shallow subsurface on the mesa top and on the south slope are not consistent with historical operations. If the elevated subsurface concentrations were the result of site operations, surface contamination would be expected at these locations because the buildings and associated pipelines were located on the surface. However, none of the mesa-top locations where concentrations of chromium and cobalt exceeded background at depth have corresponding elevated concentrations between the surface and several feet of tuff. There are no documented releases, nor is there a known source of surface or subsurface contamination at the locations where chromium and cobalt exceed background in the subsurface. Additionally, the presence of chromium and cobalt on the southern edge and slope of the site is not consistent with known releases at the site; all utility outfalls and debris disposal took place on the north slope of the site.

In its response to the notice of disapproval (NOD) (LANL 2005, 91529), LANL stated that the elevated chromium and cobalt concentrations were indicative of subsurface geochemical anomalies. However, additional sampling was proposed at the mesa-top locations with elevated chromium and cobalt concentrations (locations 19-22608, 19-22615, and 19-22627) to ensure that the nature and extent of chromium and cobalt were defined. Additional samples were not proposed for the south locations (19-22630 and 19-22631) because of the extreme topography on the slope, concerns over safe access by the sampling team, and equipment limitations. This sampling approach was discussed in a conversation between Terry Rust (LANL) and Darlene Goering (NMED) on November 16, 2005, and confirmed in an email dated January 26, 2006, from Ms. Goering (NMED 2005, 92381).

SUMMARY OF SAMPLING ACTIVITIES

Additional samples were collected in March 2006 from depths between 7.0 and 14.5 ft bgs at locations 19-22608, 19-22615, and 19-22627 (Figure 1 and Table 1). The samples were collected from two depths at locations 19-22615 and 19-22627 and from three depths at location 19-22608.

The sampling notification letter to NMED, dated February 13, 2006, stated that two samples will be collected at each location, along with one field duplicate sample, for a total of seven samples. In addition to the samples outlined in the NOD response and the sampling notification letter, a sample was collected at 14.5 to 15.0 ft bgs from each location and held at the Sample Management Office (SMO) in the event that the analytical results for the samples collected down to 10.5 ft bgs did not show decreasing trends with depth and additional data were needed to define the vertical extent of chromium and cobalt concentrations. The field duplicate sample for the 2006 sampling event was designated from the 10 to 10.5 ft bgs interval at location 19-22608; however, the field duplicate sample was inadvertently collected from one of the 14.5- to 15.0-ft intervals and analyzed. The remaining deep interval (total depth) samples were ultimately not needed because nature and extent had been determined. Therefore, the analytical data include one sample deeper than planned (at location 19-22608) but no field duplicate.

METHODS

Sample Collection and Handling

The samples were collected using a 2-in. by 2-ft stainless-steel split-spoon core barrel advanced through hollow-stem augers to the target sample collection depth. The 0.5-ft interval designated for sampling was removed from the core barrel and placed in a stainless-steel bowl and homogenized.

The samples were packed, handled, and shipped in accordance with Standard Operating Procedure (SOP) 01.02, “Sample Containers and Preservation,” and SOP-01.03, “Handling, Packaging, and Transporting Field Samples.” They were placed in individual sterile 125-mL sample containers, sealed, and labeled. Each sample was labeled with the borehole location identification number, date, time, depth interval, and type of material. Field personnel completed a sample collection log and associated chain-of-custody (COC) form for each sample. Sample containers were sealed with signed COC seals, placed in coolers at approximately 4ºC, and transported to the SMO in sealed coolers before being shipped to the analytical laboratory. The analytical data and laboratory data packages from the 2006 sampling are provided on CD as Attachment 1.

Quality Assurance/Quality Control Samples

Quality assurance/quality control samples for decontamination procedures were collected in accordance with SOP-01.05, “Field Quality Control Samples.” Field rinsate samples were collected from sampling equipment at a frequency of 1 rinsate sample for every 20 samples (for a total of 1). No field trip blanks were collected during this sampling event as target analyte list (TAL) metals were the only analyte requested. A field duplicate sample was not collected (see above, Summary of Sampling Activities).

Decontamination of Sampling Equipment

Decontamination activities were performed in accordance with SOP-01.05, “Field Quality Control Samples,” and SOP-01.08, “Field Decontamination of Drilling and Sampling Equipment.” After each 2-ft core was retrieved, the split-spoon core barrel and all other sampling equipment that came into, or could have come into, contact with sample material were decontaminated using household-strength cleaning

spray and paper towels. All drilling equipment was decontaminated using a dry decontamination method before the drill rig was mobilized to another borehole location to avoid cross-contamination. One field rinsate blank was collected for quality assurance of field decontamination procedures.

Borehole Abandonment

Once sampling was completed, the boreholes were immediately plugged and abandoned according to SOP-05.03, “Monitoring Well and RFI Borehole Abandonment.” A bentonite-grout mixture was introduced into the borehole from the bottom of the borehole up to the surface using a tremie method.

Waste Management

All investigation-derived waste (IDW), including drill cuttings, personal protective equipment, and sample material that remained after completion of sampling, was placed in two sealed 55-gal. steel drums and labeled. These drums are housed on-site within a sealed secondary container. The analytical results indicated that the additional samples collected at 14.5- to 15.0-ft -interval from each location did not need to be analyzed; these samples were taken from the SMO and properly disposed of in the on-site IDW drums. These drums will be stored on-site until final waste disposition can be completed. All available waste documentation is included in Attachment 2. The drums have been confirmed to contain nonhazardous IDW, based on the 2006 analytical data results. A 2004 radiological survey at the site and the results of 2004 and 2005 samples analyzed for radionuclides ruled out the IDW as low-level or mixed waste based on acceptable knowledge.

RESULTS

The 2006 analytical results are summarized in Table 2. Chromium and cobalt were detected in all seven samples collected in 2006, but none of the chromium or cobalt concentrations exceeded their respective background values (BVs) (LANL 1998, 59730). Concentrations of chromium were less than half the BV of 7.14 mg/kg; concentrations of cobalt were approximately an order of magnitude below the BV of 3.14 mg/kg. Figures 2 and 3 show chromium and cobalt concentrations, respectively, with depth for all sample results from locations drilled in 2004, 2005, and 2006. These data are sufficient to conclude that the vertical extent of chromium and cobalt has been defined at Consolidated Unit 19-001-99.

Lead is the only inorganic chemical detected above its BV in the 2006 samples. Two samples from location 19-22608 have detected concentrations of lead above the BV of 11.2 mg/kg but below the maximum value of 15.5 mg/kg in the background data set (13.4 mg/kg at 8- to 8.5-ft interval and 11.6 mg/kg at the 10- to 10.5-ft interval). The concentration of lead in the deepest sample at this location (14 to 14.5 ft bgs) is below the BV.

CONCLUSIONS

Boreholes in 2004 and 2005 were completed using a hand auger, or when collecting samples using the hand auger was not possible, a hand-held power auger with a metal drill bit was used. The 2006 boreholes were completed using hollow-stem auger drilling methods with a stainless-steel drill bit; no cobalt or chromium was detected above BVs in the 2006 samples. The results suggest that the elevated levels of chromium and cobalt observed in the 2004 and 2005 samples are due to the sampling method rather than a subsurface geochemical anomaly, as suggested in the original NOD response (LANL 2005, 91529).

Because all inorganic chemical analytical results for samples collected in 2006 are less than BV or within the range of background concentrations, revisions to the risk assessments presented in the remedy completion report (LANL 2005, 89660) are not required. The risk assessment results presented in the remedy completion report show no potential unacceptable risk to human receptors under a residential land-use scenario and no potential unacceptable risks to terrestrial ecological receptors. The 2006 data do not change the conclusions and recommendations associated with Consolidated Unit 19-001-99, as presented in the accelerated corrective action report.

Based on the results of characterization activities at Consolidated Unit 19-001-99, neither additional corrective action nor further characterization is warranted. Therefore, the three solid waste management units (SWMUs) and one area of concern (AOC) that make up this consolidated unit are recommended to be designated as "complete without controls." LANL respectfully requests certificates of completion for SWMUs 19-001, 19-002, and 19-003 and AOC C-19-001.

REFERENCES

LANL (Los Alamos National Laboratory), September 1998. "Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory," draft, Los Alamos National Laboratory document LA-UR-98-4847, Los Alamos, New Mexico. (LANL 1998, 59730)

LANL (Los Alamos National Laboratory), July 2005. "Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/East Gate Laboratory)," Los Alamos National Laboratory document LA-UR-05-0975, Los Alamos, New Mexico. (LANL 2005, 89660)

LANL (Los Alamos National Laboratory), December 2005. "Response to the Notice of Disapproval for the Remedy Completion Report for the Investigation and Remediation of Consolidated Unit 19-001-99 (Former TA-19/ East Gate Laboratory," Los Alamos National Laboratory document LA-UR-05-9101, Los Alamos, New Mexico. (LANL 2005, 91529)

NMED (New Mexico Environment Department), January 26, 2006. Additional Sampling at 0-019. E-mail message to B. Coel-Roback (LANL) from D. Goering (NMED), Santa Fe, New Mexico. (NMED 2006, 92381)

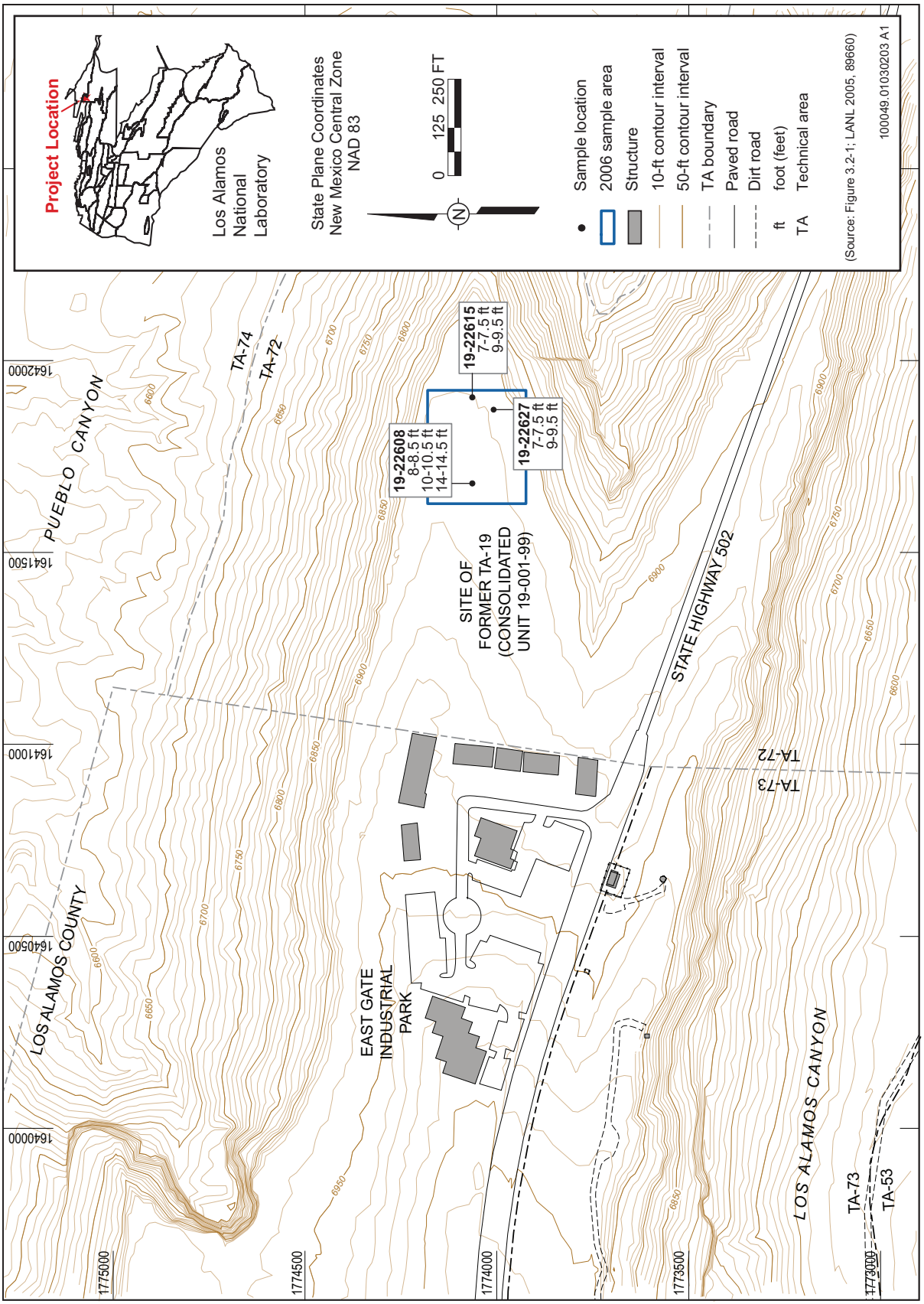

Figure 1. Sample locations and depths, Consolidated Unit 19-001-99, March 2006

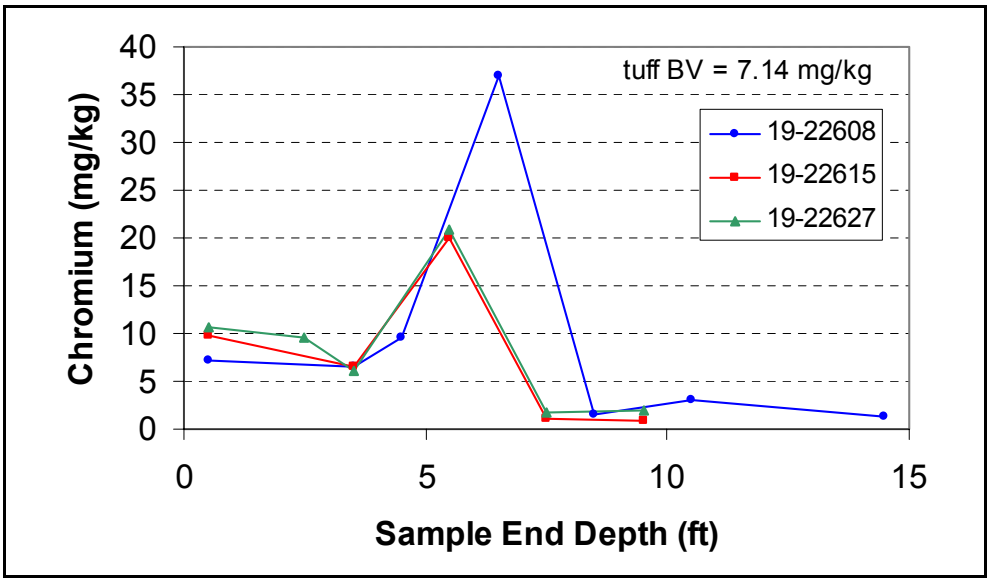

Figure 2. **Chromium concentrations with depth**

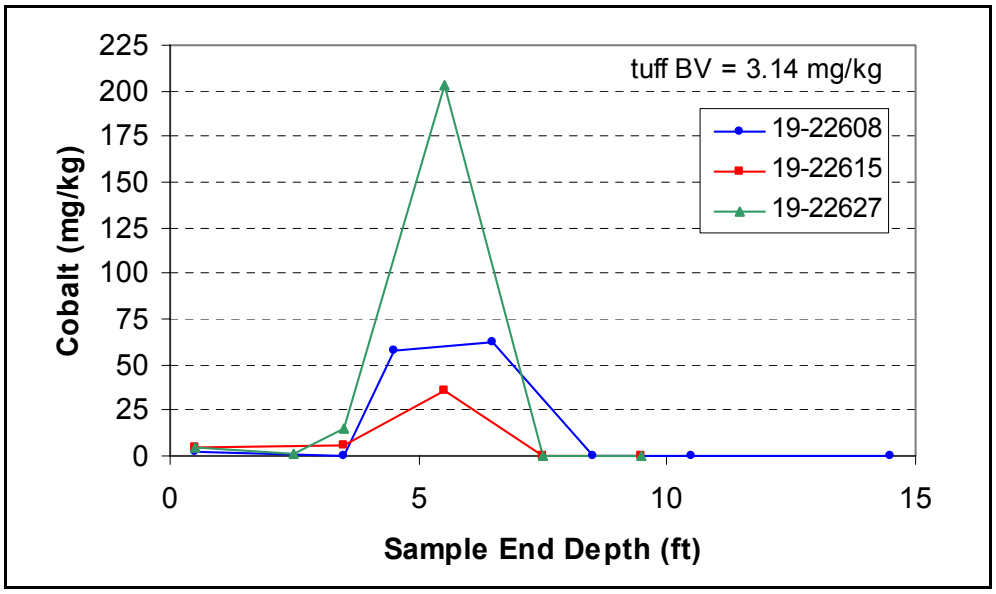

Figure 3. **Cobalt concentrations with depth**

Table 1
Drilling and Sampling Summary, March 2006, Consolidated Unit 19-001-99,

Location ID	Location Description	Sample Depth (ft bgs)	Analytical Suite	Justification
19-22608	Mesa top along eastern edge	8.0–8.5 10.0–10.5 14.0–14.5	TAL metals	Elevated subsurface concentrations of chromium and cobalt
19-22615	Mesa top along eastern edge	7.0–7.5 9.0–9.5	TAL metals	Elevated subsurface concentrations of chromium and cobalt
19-22627	Mesa top along eastern edge	7.0–7.5 9.0–9.5	TAL metals	Elevated subsurface concentrations of chromium and cobalt

Table 2
Inorganic Chemicals Frequency of Detection,
March 2006 Sampling, Consolidated Unit 19-001-99

Analyte	Media	Number of Analyses	Number of Detects	Minimum Concentration (mg/kg)	Maximum Concentration (mg/kg)	BV (mg/kg)[a]	Frequency of Detects above BV	Frequency of Nondetects above BV
Aluminum	Qbt3	7	7	831	1040	7340	0/7	0/7
Antimony	Qbt3	7	0	[0.382][b]	[0.405]	0.5	0/7	0/7
Arsenic	Qbt3	7	7	1.37	2.07	2.79	0/7	0/7
Barium	Qbt3	7	7	2.5	4.36	46	0/7	0/7
Beryllium	Qbt3	7	7	0.108	0.215	1.21	0/7	0/7
Cadmium	Qbt3	7	0	[0.48]	[0.501]	1.63	0/7	0/7
Calcium	Qbt3	7	7	730	1090	2200	0/7	0/7
Chromium	Qbt3	7	7	0.802	3.07	7.14	0/7	0/7
Cobalt	Qbt3	7	7	0.251	0.362	3.14	0/7	0/7
Copper	Qbt3	7	7	0.969	1.31	4.66	0/7	0/7
Iron	Qbt3	7	7	1370	2140	14500	0/7	0/7
Lead	Qbt3	7	7	6.97	13.4	11.2	2/7[c]	0/7
Magnesium	Qbt3	7	7	49.7	125	1690	0/7	0/7
Manganese	Qbt3	7	7	80.1	147	482	0/7	0/7
Mercury	Qbt3	7	1	0.004	[0.009]	0.1	0/7	0/7
Nickel	Qbt3	7	7	0.127	0.485	6.58	0/7	0/7
Potassium	Qbt3	7	7	571	737	3500	0/7	0/7
Selenium	Qbt3	7	0	[1.44]	[1.5]	0.3	0/7	7/7
Silver	Qbt3	7	0	[0.191]	[0.202]	1	0/7	0/7
Sodium	Qbt3	7	7	336	499	2770	0/7	0/7
Thallium	Qbt3	7	0	[0.955]	[1.01]	1.1	0/7	0/7
Vanadium	Qbt3	7	7	0.773	1.25	17	0/7	0/7
Zinc	Qbt3	7	7	10.9	23	63.5	0/7	0/7

[a] BVs from LANL 1998, 59730.

[b] Brackets denote nondetect; sample detection limit is shown.

[c] The two detected concentrations of lead above BV are within the range of the background concentrations for lead (maximum value of 15.5 mg/kg) (LANL 1998, 59730).

Attachment 1

2006 Analytical Data and Laboratory Data Packages
(on CD attached to this document)

Friday, March 10, 2006

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

Los Alamos
NATIONAL LABORATORY

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

Please analyze the enclosed samples according to the schedule indicated:

These samples are on:

SHIP DATE: 03/10/2006
REPORT DUE: 03/15/2006
TURN AROUND REQ'D: 5

LANL Request Number: 4726S
Per Agreement Number: 126310011
Project Cost Code: MX3R0223KUT0

RAD SCREENING: NOT REQ
COMMENTS: 5 Day Turn

LANL ER SMO CONTACT:
Signature:

METHOD CODE	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
SW-846:6020	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67501	1	S	03/09/2006	
SW-846:6020	RE19-06-67505	1	S	03/09/2006	
SW-846:6010B	RE19-06-67514	1	W	03/09/2006	
SW-846:7471A	RE19-06-67496	1	S	03/09/2006	
SW-846:6020	RE19-06-67497	1	S	03/09/2006	
SW-846:6010B	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67505	1	S	03/09/2006	
SW-846:6020	RE19-06-67514	1	W	03/09/2006	
SW-846:6020	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67497	1	S	03/09/2006	
SW-846:7471A	RE19-06-67497	1	S	03/09/2006	
SW-846:6020	RE19-06-67500	1	S	03/09/2006	
SW-846:6010B	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67506	1	S	03/09/2006	
SW-846:6020	RE19-06-67506	1	S	03/09/2006	
SW-846:7471A	RE19-06-67506	1	S	03/09/2006	
SW-846:7470A	RE19-06-67514	1	W	03/09/2006	
SW-846:6010B	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67499	1	S	03/09/2006	
SW-846:6020	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67505	1	S	03/09/2006	

Final Page of REQUEST NUMBER 4726S

Friday, March 10, 2006

CHAIN OF CUSTODY DOCUMENT NUMBER: 4726SC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ORDER TEMPLATE CODE	PRESERVATIVE	MATRIX
RE19-06-67496	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67497	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67499	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67500	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67501	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67505	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67506	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67514	1	1 L POLY	METALS-GEL	HNO3	W

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4726S Page 1

Relinquished By:		Date	Time	Received By:		Date	Time
		3/10/06	3:00				
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		
PRINTED NAME	SIGNATURE			PRINTED NAME	SIGNATURE		

Received for DISPOSAL By:		Date	Time	Remarks:
PRINTED NAME	SIGNATURE			

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

FIELD CHAIN OF CUSTODY

COC ID: 362842 **Event ID:** 8742

SAMPLE ID: RE19-06-67496 **ER TEAM LEADER:** Becky Coel-Roback **DESTINATION:** SMO

SAMPLE ORDER MATRIX: Soil **FIELD TEAM LEADER:** Elmer Alcon **DEST. POC:**

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Hansen (signature): Amy K. Hansen	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362852 **Event ID:** 8742

SAMPLE ID: RE19-06-67497
SAMPLE ORDER MATRIX: Soil
ER TEAM LEADER: Becky Coel-Roback
FIELD TEAM LEADER: Elmer Alcon
DESTINATION: SMO
DEST. POC:

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Howard (signature): Amy K. Howard	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362872 **Event ID:** 8742

SAMPLE ID: RE19-06-67499 **ER TEAM LEADER:** Becky Coel-Roback **DESTINATION:** SMO

SAMPLE ORDER MATRIX: Soil **FIELD TEAM LEADER:** Elmer Alcon **DEST. POC:**

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Howard (signature): Amy K. Howard	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362882 **Event ID:** 8742

SAMPLE ID: RE19-06-67500
SAMPLE ORDER MATRIX: Soil
ER TEAM LEADER: Becky Coel-Roback
FIELD TEAM LEADER: Elmer Alcon
DESTINATION: SMO
DEST. POC:

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Hansel (signature): Amy K. Hansel	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362892 **Event ID:**8742

SAMPLE ID: RE19-06-67501 **ER TEAM LEADER:** Becky Coel-Roback **DESTINATION:** SMO

SAMPLE ORDER MATRIX: Soil **FIELD TEAM LEADER:** Elmer Alcon **DEST. POC:**

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Howard (signature): Amy K. Howard	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362932 **Event ID:**8742

SAMPLE ID: RE19-06-67505 **ER TEAM LEADER:** Becky Coel-Roback **DESTINATION:** SMO

SAMPLE ORDER MATRIX: Soil **FIELD TEAM LEADER:** Elmer Alcon **DEST. POC:**

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Amy K. Howard (signature): Amy K. Howard	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 362942 **Event ID:**8742

SAMPLE ID: RE19-06-67506
SAMPLE ORDER MATRIX: Soil
ER TEAM LEADER: Becky Coel-Roback
FIELD TEAM LEADER: Elmer Alcon
DESTINATION: SMO
DEST. POC:

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	125 ML POLY	Ice	Y		

RELINQUISHED BY (printed name): Angela Bowman (signature): Angela Bowman	**Date/Time:** 3/9/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Los Alamos National Laboratory
Environmental Restoration Project
Los Alamos, NM 87545

FIELD CHAIN OF CUSTODY

EVENT NAME: TA-19 Former East Gate Laboratory, Additional Sampling, 19-001-99

COC ID: 363022 **Event ID:**8742

SAMPLE ID: RE19-06-67514
SAMPLE ORDER MATRIX: Water
ER TEAM LEADER: Becky Coel-Roback
FIELD TEAM LEADER: Elmer Alcon
DESTINATION: SMO
DEST. POC:

ANALYSES REQUESTED

CONT. ID	ORDER	CONTAINER DESCRIPTION	PRESERVATIVE	COLLECTED Y / N	REASON	SPECIAL INSTRUCTIONS
1	METALS-GEL	1 L POLY	Nitric Acid	Y		

RELINQUISHED BY (printed name): Amy K. Hewitt (signature): Amy K. Hewitt	**Date/Time:** 3/09/06 4:20	**RELINQUISHED BY** (printed name): (signature):	**Date/Time:**
RECEIVED BY (printed name): (signature):	**Date/Time:** 3/9/06 4:20	**RECEIVED BY** (printed name): (signature):	**Date/Time:**

Rad Screening Data Release Form

The Following samples were received at the Field Support Facility (FSF) without screening data (list sample number):

These samples will not be shipped until radiological screening data documentation arrives at the FSF. I understand that it is my responsibility to ensure this information arrives at the FSF in a timely manner. If holding times are missed because screening data does not arrive, I will pick up the samples.

The following samples do not require rad screening data for the reasons stated (list sample numbers):

RE19-06-67496
497
499-501
505-506
514

Reason: See Historical

Print Last Name Bowman Signature [signature] Date 3/9/04

Attachment C: Data-Validation Cover Sheet

☐ **Rejected Data**

Section I

Request Number: 4726S Validation Date: 4/19/06 Lab Code: GELC

Contract Laboratory Name: General Engineering Laboratories Validator: Eric T. Mink

Organization: Analytical Quality Associates, Inc.

Analytical Suite (check all that apply):
- ☐ Volatile Organics
- ☐ Semivolatile Organics
- ☐ Organochlorine Pesticides/Polychlorinated Biphenyls
- ☐ High Explosives
- ☒ Inorganics
- ☐ Radiochemistry

Other (describe): Metals

Section II - Completeness Check

Yes	No	n/a	(check one)	Yes	No	n/a	(check one)
☒	☐	☐	1. Chain-of-custody form(s)	☒	☐	☐	6. Raw/BSS data
☒	☐	☐	2. Case narrative	☒	☐	☐	7. Quality control forms
☒	☐	☐	3. Sample result forms	☐	☐	☒	8. Quantitation reports
☐	☐	☒	4. Sample chromatograms	☐	☐	☒	9. TICs forms
☐	☐	☒	5. Standard chromatograms	☐	☐	☒	10. TICs mass spectra

Identify any samples in the assigned Request Number that are missing:

None

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact): **(Page 1 of 1)**

1. All reported sample results that were "B" flagged by the lab were qualified J,I1.
2. For the water sample, Zn was detected in the PB. The associated sample result was a detect ≤5x the blank concentration and, thus, was qualified U,I4a. For the soil samples, Ca, Cr, and Zn were detected in the PB. The associated sample results were detects >5x the blank concentrations and, thus, were not qualified.
3. For the soil samples, the MS %Rs for Ca and Na were >125% but ≤150%, and the MS %Rs for Al and K were >150%. All the associated sample results were detects. Thus, the Ca and Na sample results were qualified J+,I3d, and the Al and K sample results were qualified J+,I3c.
4. For the soil samples, the LCS %R for Al was > the UWL. The associated sample results were detects and, thus, were qualified J+,I6a. For the soil samples, the LCS %R for Sb was < the LWL but ≥ the LAL, and the LCS %R for Ag was < the LAL. The soil LCS acceptance criteria do not apply to Sb or Ag, and, thus, the associated sample results were not qualified.

Entered 4/21/06

Validator's signature: Eric T. Mink Date: 4/19/06

Attachment D. Inorganic Data-Validation Checklist

Yes	No	(check one)	Assign qualifier listed below if criteria = Yes: Detected analyte	Undetected analyte
☐	☒	1. The preparation Blank (PB), ICB, or CCB was not analyzed with the samples.	R, I4	R, I4
☒	☐	2. The analyte detected in PB and the sample result for the analyte ≤5x the amount in PB.	U, I4a	N/A
☐	☒	3. The initial or continuing calibration verification (ICV or CCV) was not analyzed with the samples.	R, I16	R, I16
☐	☒	4. The ICV or CCV recovery is >UAL.	R, I16a	N/A
☐	☒	5. The ICV or CCV recovery is >UWL and ≤UAL.	J+, I16b	N/A
☐	☒	6. The ICV or CCV recovery is <LWL but ≥LAL.	J-, I16c	UJ, I16c
☐	☒	7. The ICV or CCV recovery is <LAL.	R, I16d	R, I16d
☐	☒	8. For ICPMS and CN analyses: The correlation coefficient is <0.995?	R, I16e	R, I16e
☐	☒	9. The interference check sample (ICS) was not analyzed with the samples.	R, I7	R, I7
☐	☒	10. The ICS recovery is >120%.	J+, I7a	N/A
☐	☒	11. The ICS recovery is ≥50% and <80%.	J-, I7b	UJ, I7b
☐	☒	12. The ICS recovery is <50%.	R, I7c	R, I7d
☐	☒	13. The MS was not analyzed with the sample without explanation.	R, I3	R, I3
☐	☒	14. Insufficient sample volume for MS analyses was provided.	J, I3a	UJ, I3a
☐	☒	15. An MS analysis was performed on a non-LANL sample.	J, I3b	UJ, I3b
☒	☐	16. The MS recovery was > 150%*.	J+, I3c	UJ, I3c
☒	☐	17. The MS recovery was >125% and ≤150%.	J+, I3d	N/A
☐	☒	18. The MS recovery was ≥30% and <75%.	J-, I3e	UJ, I3e
☐	☒	19. The MS recovery was <30%.	R, I3f	R, I3f
☐	☒	20. A duplicate sample was not analyzed without explanation.	J, I10	UJ, I10
☐	☒	21. Insufficient sample volume for duplicate sample analysis was provided.	J, I10a	UJ, I10a
☐	☒	22. A duplicate sample was performed on a non-LANL sample.	J, I10b	UJ, I10b
☐	☒	23. Both the sample and the duplicate are ≥5x RL, and the RPD is >20 for water samples or >35 for soil samples	J, I10c	UJ, I10c
☐	☒	24. Either the sample or Dup is <5x the RL and the sample and Dup results are not within ±1x the RL for water or ±2x the RL for soil.	J, I10d	UJ, I10d
☐	☒	25. The LCS was not analyzed with the samples.	R, I6	R, I6
☒	☐	26. The LCS recovery was >the UWL.	J+, I6a	N/A
☒	☐	27. The LCS recovery was ≥LAL and <LWL.	J-, I6b	UJ, I6b
☒	☐	28. The LCS recovery was <the LAL.	R, I6c	R, I6c
☐	☒	29. The serial dilution sample was not analyzed with the samples.	J, I18	UJ, I18
☐	☒	30. The serial dilution sample was performed on a non-LANL sample.	J, I18a	UJ, I18a
☐	☒	31. The RPD between the sample and the serial dilution sample is >10, and the undiluted sample result is >50x the DL(>100x for ICPMS).	J, I18b	UJ, I18b
☐	☒	32. The sample was analyzed past the appropriate hold time.	J-, I9	UJ, I9
☐	☒	33. The sample was analyzed past double the hold time.	J-, I9a	R, I9a
☒	☐	34. B-flagged sample results are present.	J, I1	N/A
☐	☒	35. Other obvious data quality issues are identified.	__, I19	__, I19

* If the sample result is >4x the spike added, MS recovery criteria do not apply.

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896001 **CLIENT ID:** RE19-06-67496

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 98.8

4/21/06 RO

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / ~~J+,I3c~~	7429-90-5	Aluminum	995000	ug/kg		N	P	6620	1	OPTIMA2	031406A-2
	7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
	7440-38-2	Arsenic	1900	ug/kg			P	584	1	OPTIMA2	031406A-2
	7440-39-3	Barium	4100	ug/kg			P	97.3	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	129	ug/kg			MS	20.2	2	ICPMS5	060316-3
	7440-43-9	Cadmium	97.3	ug/kg	U		P	97.3	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	1090000	ug/kg		N	P	3500	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	1490	ug/kg			P	97.3	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	333	ug/kg	B		P	195	1	OPTIMA2	031406A-2
	7440-50-8	Copper	1260	ug/kg			P	292	1	OPTIMA2	031406A-2
	7439-89-6	Iron	2140000	ug/kg			P	1750	1	OPTIMA2	031406A-2
	7439-92-1	Lead	13400	ug/kg			P	243	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	117000	ug/kg			P	8270	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	147000	ug/kg			P	195	1	OPTIMA2	031406A-2
J,I1	7439-97-6	Mercury	4.1	ug/kg	B		AV	2.5	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	320	ug/kg	B		MS	101	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	635000	ug/kg		N	P	4870	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	584	ug/kg	U		P	584	1	OPTIMA2	031406A-2
	7440-22-4	Silver	40.5	ug/kg	U		MS	40.5	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	431000	ug/kg		N	P	4380	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	405	ug/kg	U		MS	405	10	ICPMS5	060316-7
	7440-62-2	Vanadium	1160	ug/kg			P	97.3	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	14800	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896002 **CLIENT ID:** RE19-06-67497

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.08

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	964000	ug/kg		N	P	6810	1	OPTIMA2	031406A-2
jnl	7440-36-0	Antimony	98.6	ug/kg	U		MS	98.6	2	ICPMS5	060316-3
4/21/06	7440-38-2	Arsenic	2070	ug/kg			P	601	1	OPTIMA2	031406A-2
	7440-39-3	Barium	4360	ug/kg			P	100	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	215	ug/kg			MS	19.7	2	ICPMS5	060316-3
	7440-43-9	Cadmium	100	ug/kg	U		P	100	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	877000	ug/kg		N	P	3600	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	1200	ug/kg			P	100	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	362	ug/kg	B		P	200	1	OPTIMA2	031406A-2
	7440-50-8	Copper	1310	ug/kg			P	300	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1780000	ug/kg			P	1800	1	OPTIMA2	031406A-2
	7439-92-1	Lead	10600	ug/kg			P	250	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	125000	ug/kg			P	8510	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	130000	ug/kg			P	200	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.49	ug/kg	U		AV	2.49	1	MER179	031506S1-1
	7440-02-0	Nickel	485	ug/kg			MS	98.6	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	571000	ug/kg		N	P	5010	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	601	ug/kg	U		P	601	1	OPTIMA2	031406A-2
	7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	336000	ug/kg		N	P	4510	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
	7440-62-2	Vanadium	1250	ug/kg			P	100	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	23000	ug/kg			P	200	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896003 **CLIENT ID:** RE19-06-67499

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 98.6

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	1040000	ug/kg		N	P	6770	1	OPTIMA2	031406A-2
4/21/06	7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
J,I1	7440-38-2	Arsenic	1470	ug/kg	B		P	598	1	OPTIMA2	031406A-2
	7440-39-3	Barium	3480	ug/kg			P	99.6	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	108	ug/kg			MS	20.2	2	ICPMS5	060316-3
	7440-43-9	Cadmium	99.6	ug/kg	U		P	99.6	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	730000	ug/kg		N	P	3590	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	3070	ug/kg			P	99.6	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	251	ug/kg	B		P	199	1	OPTIMA2	031406A-2
	7440-50-8	Copper	1170	ug/kg			P	299	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1620000	ug/kg			P	1790	1	OPTIMA2	031406A-2
	7439-92-1	Lead	11600	ug/kg			P	249	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	49700	ug/kg			P	8460	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	101000	ug/kg			P	199	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.38	ug/kg	U		AV	2.38	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	219	ug/kg	B		MS	101	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	706000	ug/kg		N	P	4980	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	598	ug/kg	U		P	598	1	OPTIMA2	031406A-2
	7440-22-4	Silver	40.4	ug/kg	U		MS	40.4	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	447000	ug/kg		N	P	4480	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	404	ug/kg	U		MS	404	10	ICPMS5	060316-7
	7440-62-2	Vanadium	773	ug/kg			P	99.6	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	11500	ug/kg			P	199	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896004 **CLIENT ID:** RE19-06-67500

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.11

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	925000	ug/kg		N	P	6730	1	OPTIMA2	031406A-2
re 4/21/06	7440-36-0	Antimony	96.8	ug/kg	U		MS	96.8	2	ICPMS5	060316-3
	7440-38-2	Arsenic	2070	ug/kg			P	594	1	OPTIMA2	031406A-2
	7440-39-3	Barium	3190	ug/kg			P	98.9	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	134	ug/kg			MS	19.4	2	ICPMS5	060316-3
	7440-43-9	Cadmium	98.9	ug/kg	U		P	98.9	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	1010000	ug/kg		N	P	3560	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	1090	ug/kg			P	98.9	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	287	ug/kg	B		P	198	1	OPTIMA2	031406A-2
	7440-50-8	Copper	1120	ug/kg			P	297	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1560000	ug/kg			P	1780	1	OPTIMA2	031406A-2
	7439-92-1	Lead	7710	ug/kg			P	247	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	63200	ug/kg			P	8410	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	90500	ug/kg			P	198	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	243	ug/kg	B		MS	96.8	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	605000	ug/kg		N	P	4950	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	594	ug/kg	U		P	594	1	OPTIMA2	031406A-2
	7440-22-4	Silver	38.7	ug/kg	U		MS	38.7	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	439000	ug/kg		N	P	4450	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	387	ug/kg	U		MS	387	10	ICPMS5	060316-7
	7440-62-2	Vanadium	977	ug/kg			P	98.9	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	12200	ug/kg			P	198	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896005 **CLIENT ID:** RE19-06-67501

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.31

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	1030000	ug/kg		N	P	6520	1	OPTIMA2	031406A-2
	7440-36-0	Antimony	98.3	ug/kg	U		MS	98.3	2	ICPMS5	060316-3
	7440-38-2	Arsenic	1900	ug/kg			P	575	1	OPTIMA2	031406A-2
	7440-39-3	Barium	2500	ug/kg			P	95.9	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	152	ug/kg			MS	19.7	2	ICPMS5	060316-3
	7440-43-9	Cadmium	95.9	ug/kg	U		P	95.9	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	943000	ug/kg		N	P	3450	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	802	ug/kg			P	95.9	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	257	ug/kg	B		P	192	1	OPTIMA2	031406A-2
	7440-50-8	Copper	969	ug/kg			P	288	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1370000	ug/kg			P	1730	1	OPTIMA2	031406A-2
	7439-92-1	Lead	7070	ug/kg			P	240	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	50000	ug/kg			P	8150	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	80100	ug/kg			P	192	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.43	ug/kg	U		AV	2.43	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	127	ug/kg	B		MS	98.3	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	737000	ug/kg		N	P	4800	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	575	ug/kg	U		P	575	1	OPTIMA2	031406A-2
	7440-22-4	Silver	39.3	ug/kg	U		MS	39.3	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	499000	ug/kg		N	P	4320	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	393	ug/kg	U		MS	393	10	ICPMS5	060316-7
	7440-62-2	Vanadium	863	ug/kg			P	95.9	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	10900	ug/kg			P	192	1	OPTIMA2	031406A-2

ICP 4/21/06

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896006 **CLIENT ID:** RE19-06-67505

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.49

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	831000	ug/kg		N	P	6690	1	OPTIMA2	031406A-2
4/21/06	7440-36-0	Antimony	98.5	ug/kg	U		MS	98.5	2	ICPMS5	060316-3
J,I1	7440-38-2	Arsenic	1370	ug/kg	B		P	590	1	OPTIMA2	031406A-2
	7440-39-3	Barium	3810	ug/kg			P	98.4	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	127	ug/kg			MS	19.7	2	ICPMS5	060316-3
	7440-43-9	Cadmium	98.4	ug/kg	U		P	98.4	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	911000	ug/kg		N	P	3540	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	1840	ug/kg			P	98.4	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	296	ug/kg	B		P	197	1	OPTIMA2	031406A-2
	7440-50-8	Copper	985	ug/kg			P	295	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1620000	ug/kg			P	1770	1	OPTIMA2	031406A-2
	7439-92-1	Lead	6970	ug/kg			P	246	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	54800	ug/kg			P	8360	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	93900	ug/kg			P	197	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	167	ug/kg	B		MS	98.5	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	576000	ug/kg		N	P	4920	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	590	ug/kg	U		P	590	1	OPTIMA2	031406A-2
	7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	398000	ug/kg		N	P	4430	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
	7440-62-2	Vanadium	911	ug/kg			P	98.4	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	12200	ug/kg			P	197	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896007 **CLIENT ID:** RE19-06-67506

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.71

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J+,I6a / J+,I3c	7429-90-5	Aluminum	868000	ug/kg		N	P	6650	1	OPTIMA2	031406A-2
	7440-36-0	Antimony	95.5	ug/kg	U		MS	95.5	2	ICPMS5	060316-3
	7440-38-2	Arsenic	1650	ug/kg			P	586	1	OPTIMA2	031406A-2
	7440-39-3	Barium	3320	ug/kg			P	97.7	1	OPTIMA2	031406A-2
	7440-41-7	Beryllium	137	ug/kg			MS	19.1	2	ICPMS5	060316-3
	7440-43-9	Cadmium	97.7	ug/kg	U		P	97.7	1	OPTIMA2	031406A-2
J+,I3d	7440-70-2	Calcium	928000	ug/kg		N	P	3520	1	OPTIMA2	031406A-2
	7440-47-3	Chromium	1920	ug/kg			P	97.7	1	OPTIMA2	031406A-2
J,I1	7440-48-4	Cobalt	319	ug/kg	B		P	195	1	OPTIMA2	031406A-2
	7440-50-8	Copper	1020	ug/kg			P	293	1	OPTIMA2	031406A-2
	7439-89-6	Iron	1500000	ug/kg			P	1760	1	OPTIMA2	031406A-2
	7439-92-1	Lead	7100	ug/kg			P	244	1	OPTIMA2	031406A-2
	7439-95-4	Magnesium	75300	ug/kg			P	8310	1	OPTIMA2	031406A-2
	7439-96-5	Manganese	93800	ug/kg			P	195	1	OPTIMA2	031406A-2
	7439-97-6	Mercury	2.41	ug/kg	U		AV	2.41	1	MER179	031506S1-1
J,I1	7440-02-0	Nickel	156	ug/kg	B		MS	95.5	2	ICPMS5	060316-3
J+,I3c	7440-09-7	Potassium	613000	ug/kg		N	P	4890	1	OPTIMA2	031406A-2
	7782-49-2	Selenium	586	ug/kg	U		P	586	1	OPTIMA2	031406A-2
	7440-22-4	Silver	38.2	ug/kg	U		MS	38.2	2	ICPMS5	060316-3
J+,I3d	7440-23-5	Sodium	426000	ug/kg		N	P	4400	1	OPTIMA2	031406A-2
	7440-28-0	Thallium	382	ug/kg	U		MS	382	10	ICPMS5	060316-7
	7440-62-2	Vanadium	883	ug/kg			P	97.7	1	OPTIMA2	031406A-2
	7440-66-6	Zinc	13100	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

ETM
4/19/06

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S-1 **METHOD TYPE:** SW846

SAMPLE ID: 157897001 **CLIENT ID:** RE19-06-67514

CONTRACT: LANL00600

MATRIX: W **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:**

	CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
J,I1	7429-90-5	Aluminum	88.1	ug/L	B		P	68	1	OPTIMA2	031406a-2
	7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
	7440-38-2	Arsenic	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
J,I1	7440-39-3	Barium	2.5	ug/L	B		P	1	1	OPTIMA2	031406a-2
	7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
	7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
	7440-70-2	Calcium	2660	ug/L			P	36	1	OPTIMA2	031406a-2
J,I1	7440-47-3	Chromium	1.8	ug/L	B		P	1	1	OPTIMA2	031406a-2
	7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
	7440-50-8	Copper	3	ug/L	U		P	3	1	OPTIMA2	031406a-2
J,I1	7439-89-6	Iron	81.3	ug/L	B		P	18	1	OPTIMA2	031406a-2
	7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
J,I1	7439-95-4	Magnesium	166	ug/L	B		P	85	1	OPTIMA2	031406a-2
J,I1	7439-96-5	Manganese	2.3	ug/L	B		MS	1	1	ICPMS5	060315-3
	7439-97-6	Mercury	0.050	ug/L	U		AV	0.05	1	MER536	031506W1-1
	7440-02-0	Nickel	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
J,I1	7440-09-7	Potassium	83.2	ug/L	B		P	50	1	OPTIMA2	031406a-2
	7782-49-2	Selenium	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
	7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
	7440-23-5	Sodium	6640	ug/L			P	45	1	OPTIMA2	031406a-2
	7440-28-0	Thallium	0.40	ug/L	U		MS	0.4	1	ICPMS5	060315-3
	7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
U,I4a / J,I1	7440-66-6	Zinc	3.9	ug/L	B		P	2	1	OPTIMA2	031406a-2

Comments:

ETM
4/19/06

Friday, March 10, 2006

CHAIN OF CUSTODY DOCUMENT NUMBER: 4726SC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

157896 - Soils 157897 WATERS

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ORDER TEMPLATE CODE	PRESERVATIVE	MATRIX
RE19-06-67496 1105	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67497 1140	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67499 1130	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67500 1430	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67501 1446	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67505 1330	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67506 1340	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67514 1345	1	1 L POLY	METALS-GEL	HNO3	W

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4726S Page 1

Relinquished By:	Date	Time	Received By:	Date	Time
PRINTED NAME SIGNATURE	3/10/06	3:00	Mike Kinsler [signature]	3/10/06	0930
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		

Received for DISPOSAL By:	Date	Time	Remarks:
PRINTED NAME SIGNATURE			

Friday, March 10, 2006

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

Los Alamos
NATIONAL LABORATORY

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

Please analyze the enclosed samples according to the schedule indicated:

These samples are on:

SHIP DATE: 03/10/2006
REPORT DUE: 03/15/2006
TURN AROUND REQ'D: 5

LANL Request Number: 4726S
Per Agreement Number: 126310011
Project Cost Code: MX3R0223KUT0

RAD SCREENING: NOT REQ
COMMENTS: 5 Day Turn

LANL ER SMO CONTACT:
Signature:

Page 1

METHOD CODE	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
SW-846:6020	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67501	1	S	03/09/2006	
SW-846:6020	RE19-06-67505	1	S	03/09/2006	
SW-846:6010B	RE19-06-67514	1	W	03/09/2006	
SW-846:7471A	RE19-06-67496	1	S	03/09/2006	
SW-846:6020	RE19-06-67497	1	S	03/09/2006	
SW-846:6010B	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67505	1	S	03/09/2006	
SW-846:6020	RE19-06-67514	1	W	03/09/2006	
SW-846:6020	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67497	1	S	03/09/2006	
SW-846:7471A	RE19-06-67497	1	S	03/09/2006	
SW-846:6020	RE19-06-67500	1	S	03/09/2006	
SW-846:6010B	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67506	1	S	03/09/2006	
SW-846:6020	RE19-06-67506	1	S	03/09/2006	
SW-846:7471A	RE19-06-67506	1	S	03/09/2006	
SW-846:7470A	RE19-06-67514	1	W	03/09/2006	
SW-846:6010B	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67499	1	S	03/09/2006	
SW-846:6020	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67505	1	S	03/09/2006	

Final Page of REQUEST NUMBER 4726S

Friday, March 10, 2006

CHAIN OF CUSTODY DOCUMENT NUMBER: 4726SC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

157896 - Soils 157897 WATERS

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ORDER TEMPLATE CODE	PRESERVATIVE	MATRIX
RE19-06-67496 1105	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67497 1140	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67499 1130	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67500 1430	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67501 1446	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67505 1330	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67506 1340	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67514 1345	1	1 L POLY	METALS-GEL	HNO3	W

Final Page of CHAIN OF CUSTODY DOCUMENT FOR REQUEST NUMBER 4726S Page 1

Relinquished By:	Date	Time	Received By:	Date	Time
PRINTED NAME SIGNATURE	3/10/06	3:00	Mike Fundow [signature]	3-11-06	0930
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		

Received for DISPOSAL By:	Date	Time	Remarks:
PRINTED NAME SIGNATURE			

Friday, March 10, 2006

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

Los Alamos
NATIONAL LABORATORY

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

Please analyze the enclosed samples according to the schedule indicated:

These samples are on:

SHIP DATE: 03/10/2006
REPORT DUE: 03/15/2006
TURN AROUND REQ'D: 5

LANL Request Number: 4726S
Per Agreement Number: 126310011
Project Cost Code: MX3R0223KUT0

RAD SCREENING: NOT REQ
COMMENTS: 5 Day Turn

LANL ER SMO CONTACT:
Signature:

Page 1

METHOD CODE	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
SW-846:6020	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67501	1	S	03/09/2006	
SW-846:6020	RE19-06-67505	1	S	03/09/2006	
SW-846:6010B	RE19-06-67514	1	W	03/09/2006	
SW-846:7471A	RE19-06-67496	1	S	03/09/2006	
SW-846:6020	RE19-06-67497	1	S	03/09/2006	
SW-846:6010B	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67505	1	S	03/09/2006	
SW-846:6020	RE19-06-67514	1	W	03/09/2006	
SW-846:6020	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67497	1	S	03/09/2006	
SW-846:7471A	RE19-06-67497	1	S	03/09/2006	
SW-846:6020	RE19-06-67500	1	S	03/09/2006	
SW-846:6010B	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67506	1	S	03/09/2006	
SW-846:6020	RE19-06-67506	1	S	03/09/2006	
SW-846:7471A	RE19-06-67506	1	S	03/09/2006	
SW-846:7470A	RE19-06-67514	1	W	03/09/2006	
SW-846:6010B	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67499	1	S	03/09/2006	
SW-846:6020	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67505	1	S	03/09/2006	

Final Page of REQUEST NUMBER 4726S

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896001 CLIENT ID: RE19-06-67496

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 98.8

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	995000	ug/kg		N	P	6620	1	OPTIMA2	031406A-2
7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
7440-38-2	Arsenic	1900	ug/kg			P	584	1	OPTIMA2	031406A-2
7440-39-3	Barium	4100	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	129	ug/kg			MS	20.2	2	ICPMS5	060316-3
7440-43-9	Cadmium	97.3	ug/kg	U		P	97.3	1	OPTIMA2	031406A-2
7440-70-2	Calcium	1090000	ug/kg		N	P	3500	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1490	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	333	ug/kg	B		P	195	1	OPTIMA2	031406A-2
7440-50-8	Copper	1260	ug/kg			P	292	1	OPTIMA2	031406A-2
7439-89-6	Iron	2140000	ug/kg			P	1750	1	OPTIMA2	031406A-2
7439-92-1	Lead	13400	ug/kg			P	243	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	117000	ug/kg			P	8270	1	OPTIMA2	031406A-2
7439-96-5	Manganese	147000	ug/kg			P	195	1	OPTIMA2	031406A-2
7439-97-6	Mercury	4.1	ug/kg	B		AV	2.5	1	MER179	031506S1-1
7440-02-0	Nickel	320	ug/kg	B		MS	101	2	ICPMS5	060316-3
7440-09-7	Potassium	635000	ug/kg		N	P	4870	1	OPTIMA2	031406A-2
7782-49-2	Selenium	584	ug/kg	U		P	584	1	OPTIMA2	031406A-2
7440-22-4	Silver	40.5	ug/kg	U		MS	40.5	2	ICPMS5	060316-3
7440-23-5	Sodium	431000	ug/kg		N	P	4380	1	OPTIMA2	031406A-2
7440-28-0	Thallium	405	ug/kg	U		MS	405	10	ICPMS5	060316-7
7440-62-2	Vanadium	1160	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-66-6	Zinc	14800	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896002 CLIENT ID: RE19-06-67497

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 99.08

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	964000	ug/kg		N	P	6810	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.6	ug/kg	U		MS	98.6	2	ICPMS5	060316-3
7440-38-2	Arsenic	2070	ug/kg			P	601	1	OPTIMA2	031406A-2
7440-39-3	Barium	4360	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	215	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	100	ug/kg	U		P	100	1	OPTIMA2	031406A-2
7440-70-2	Calcium	877000	ug/kg		N	P	3600	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1200	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	362	ug/kg	B		P	200	1	OPTIMA2	031406A-2
7440-50-8	Copper	1310	ug/kg			P	300	1	OPTIMA2	031406A-2
7439-89-6	Iron	1780000	ug/kg			P	1800	1	OPTIMA2	031406A-2
7439-92-1	Lead	10600	ug/kg			P	250	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	125000	ug/kg			P	8510	1	OPTIMA2	031406A-2
7439-96-5	Manganese	130000	ug/kg			P	200	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.49	ug/kg	U		AV	2.49	1	MER179	031506S1-1
7440-02-0	Nickel	485	ug/kg			MS	98.6	2	ICPMS5	060316-3
7440-09-7	Potassium	571000	ug/kg		N	P	5010	1	OPTIMA2	031406A-2
7782-49-2	Selenium	601	ug/kg	U		P	601	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
7440-23-5	Sodium	336000	ug/kg		N	P	4510	1	OPTIMA2	031406A-2
7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
7440-62-2	Vanadium	1250	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-66-6	Zinc	23000	ug/kg			P	200	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S | METHOD TYPE: SW846

SAMPLE ID: 157896003 | CLIENT ID: RE19-06-67499

CONTRACT: LANL00600

MATRIX: S | DATE RECEIVED 11-MAR-06 | LEVEL: Low | %SOLIDS: 98.6

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1040000	ug/kg		N	P	6770	1	OPTIMA2	031406A-2
7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
7440-38-2	Arsenic	1470	ug/kg	B		P	598	1	OPTIMA2	031406A-2
7440-39-3	Barium	3480	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	108	ug/kg			MS	20.2	2	ICPMS5	060316-3
7440-43-9	Cadmium	99.6	ug/kg	U		P	99.6	1	OPTIMA2	031406A-2
7440-70-2	Calcium	730000	ug/kg		N	P	3590	1	OPTIMA2	031406A-2
7440-47-3	Chromium	3070	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	251	ug/kg	B		P	199	1	OPTIMA2	031406A-2
7440-50-8	Copper	1170	ug/kg			P	299	1	OPTIMA2	031406A-2
7439-89-6	Iron	1620000	ug/kg			P	1790	1	OPTIMA2	031406A-2
7439-92-1	Lead	11600	ug/kg			P	249	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	49700	ug/kg			P	8460	1	OPTIMA2	031406A-2
7439-96-5	Manganese	101000	ug/kg			P	199	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.38	ug/kg	U		AV	2.38	1	MER179	031506S1-1
7440-02-0	Nickel	219	ug/kg	B		MS	101	2	ICPMS5	060316-3
7440-09-7	Potassium	706000	ug/kg		N	P	4980	1	OPTIMA2	031406A-2
7782-49-2	Selenium	598	ug/kg	U		P	598	1	OPTIMA2	031406A-2
7440-22-4	Silver	40.4	ug/kg	U		MS	40.4	2	ICPMS5	060316-3
7440-23-5	Sodium	447000	ug/kg		N	P	4480	1	OPTIMA2	031406A-2
7440-28-0	Thallium	404	ug/kg	U		MS	404	10	ICPMS5	060316-7
7440-62-2	Vanadium	773	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-66-6	Zinc	11500	ug/kg			P	199	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S | METHOD TYPE: SW846

SAMPLE ID: 157896004 | CLIENT ID: RE19-06-67500

CONTRACT: LANL00600

MATRIX: S | DATE RECEIVED 11-MAR-06 | LEVEL: Low | %SOLIDS: 99.11

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	925000	ug/kg		N	P	6730	1	OPTIMA2	031406A-2
7440-36-0	Antimony	96.8	ug/kg	U		MS	96.8	2	ICPMS5	060316-3
7440-38-2	Arsenic	2070	ug/kg			P	594	1	OPTIMA2	031406A-2
7440-39-3	Barium	3190	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	134	ug/kg			MS	19.4	2	ICPMS5	060316-3
7440-43-9	Cadmium	98.9	ug/kg	U		P	98.9	1	OPTIMA2	031406A-2
7440-70-2	Calcium	1010000	ug/kg		N	P	3560	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1090	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	287	ug/kg	B		P	198	1	OPTIMA2	031406A-2
7440-50-8	Copper	1120	ug/kg			P	297	1	OPTIMA2	031406A-2
7439-89-6	Iron	1560000	ug/kg			P	1780	1	OPTIMA2	031406A-2
7439-92-1	Lead	7710	ug/kg			P	247	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	63200	ug/kg			P	8410	1	OPTIMA2	031406A-2
7439-96-5	Manganese	90500	ug/kg			P	198	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
7440-02-0	Nickel	243	ug/kg	B		MS	96.8	2	ICPMS5	060316-3
7440-09-7	Potassium	605000	ug/kg		N	P	4950	1	OPTIMA2	031406A-2
7782-49-2	Selenium	594	ug/kg	U		P	594	1	OPTIMA2	031406A-2
7440-22-4	Silver	38.7	ug/kg	U		MS	38.7	2	ICPMS5	060316-3
7440-23-5	Sodium	439000	ug/kg		N	P	4450	1	OPTIMA2	031406A-2
7440-28-0	Thallium	387	ug/kg	U		MS	387	10	ICPMS5	060316-7
7440-62-2	Vanadium	977	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-66-6	Zinc	12200	ug/kg			P	198	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S | METHOD TYPE: SW846

SAMPLE ID: 157896005 | CLIENT ID: RE19-06-67501

CONTRACT: LANL00600

MATRIX: S | DATE RECEIVED 11-MAR-06 | LEVEL: Low | %SOLIDS: 99.31

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1030000	ug/kg		N	P	6520	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.3	ug/kg	U		MS	98.3	2	ICPMS5	060316-3
7440-38-2	Arsenic	1900	ug/kg			P	575	1	OPTIMA2	031406A-2
7440-39-3	Barium	2500	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	152	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	95.9	ug/kg	U		P	95.9	1	OPTIMA2	031406A-2
7440-70-2	Calcium	943000	ug/kg		N	P	3450	1	OPTIMA2	031406A-2
7440-47-3	Chromium	802	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	257	ug/kg	B		P	192	1	OPTIMA2	031406A-2
7440-50-8	Copper	969	ug/kg			P	288	1	OPTIMA2	031406A-2
7439-89-6	Iron	1370000	ug/kg			P	1730	1	OPTIMA2	031406A-2
7439-92-1	Lead	7070	ug/kg			P	240	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	50000	ug/kg			P	8150	1	OPTIMA2	031406A-2
7439-96-5	Manganese	80100	ug/kg			P	192	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.43	ug/kg	U		AV	2.43	1	MER179	031506S1-1
7440-02-0	Nickel	127	ug/kg	B		MS	98.3	2	ICPMS5	060316-3
7440-09-7	Potassium	737000	ug/kg		N	P	4800	1	OPTIMA2	031406A-2
7782-49-2	Selenium	575	ug/kg	U		P	575	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.3	ug/kg	U		MS	39.3	2	ICPMS5	060316-3
7440-23-5	Sodium	499000	ug/kg		N	P	4320	1	OPTIMA2	031406A-2
7440-28-0	Thallium	393	ug/kg	U		MS	393	10	ICPMS5	060316-7
7440-62-2	Vanadium	863	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-66-6	Zinc	10900	ug/kg			P	192	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S | METHOD TYPE: SW846

SAMPLE ID: 157896006 | CLIENT ID: RE19-06-67505

CONTRACT: LANL00600

MATRIX: S | DATE RECEIVED 11-MAR-06 | LEVEL: Low | %SOLIDS: 99.49

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	831000	ug/kg		N	P	6690	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.5	ug/kg	U		MS	98.5	2	ICPMS5	060316-3
7440-38-2	Arsenic	1370	ug/kg	B		P	590	1	OPTIMA2	031406A-2
7440-39-3	Barium	3810	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	127	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	98.4	ug/kg	U		P	98.4	1	OPTIMA2	031406A-2
7440-70-2	Calcium	911000	ug/kg		N	P	3540	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1840	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	296	ug/kg	B		P	197	1	OPTIMA2	031406A-2
7440-50-8	Copper	985	ug/kg			P	295	1	OPTIMA2	031406A-2
7439-89-6	Iron	1620000	ug/kg			P	1770	1	OPTIMA2	031406A-2
7439-92-1	Lead	6970	ug/kg			P	246	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	54800	ug/kg			P	8360	1	OPTIMA2	031406A-2
7439-96-5	Manganese	93900	ug/kg			P	197	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
7440-02-0	Nickel	167	ug/kg	B		MS	98.5	2	ICPMS5	060316-3
7440-09-7	Potassium	576000	ug/kg		N	P	4920	1	OPTIMA2	031406A-2
7782-49-2	Selenium	590	ug/kg	U		P	590	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
7440-23-5	Sodium	398000	ug/kg		N	P	4430	1	OPTIMA2	031406A-2
7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
7440-62-2	Vanadium	911	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-66-6	Zinc	12200	ug/kg			P	197	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896007 CLIENT ID: RE19-06-67506

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 99.71

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	868000	ug/kg		N	P	6650	1	OPTIMA2	031406A-2
7440-36-0	Antimony	95.5	ug/kg	U		MS	95.5	2	ICPMS5	060316-3
7440-38-2	Arsenic	1650	ug/kg			P	586	1	OPTIMA2	031406A-2
7440-39-3	Barium	3320	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	137	ug/kg			MS	19.1	2	ICPMS5	060316-3
7440-43-9	Cadmium	97.7	ug/kg	U		P	97.7	1	OPTIMA2	031406A-2
7440-70-2	Calcium	928000	ug/kg		N	P	3520	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1920	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	319	ug/kg	B		P	195	1	OPTIMA2	031406A-2
7440-50-8	Copper	1020	ug/kg			P	293	1	OPTIMA2	031406A-2
7439-89-6	Iron	1500000	ug/kg			P	1760	1	OPTIMA2	031406A-2
7439-92-1	Lead	7100	ug/kg			P	244	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	75300	ug/kg			P	8310	1	OPTIMA2	031406A-2
7439-96-5	Manganese	93800	ug/kg			P	195	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.41	ug/kg	U		AV	2.41	1	MER179	031506S1-1
7440-02-0	Nickel	156	ug/kg	B		MS	95.5	2	ICPMS5	060316-3
7440-09-7	Potassium	613000	ug/kg		N	P	4890	1	OPTIMA2	031406A-2
7782-49-2	Selenium	586	ug/kg	U		P	586	1	OPTIMA2	031406A-2
7440-22-4	Silver	38.2	ug/kg	U		MS	38.2	2	ICPMS5	060316-3
7440-23-5	Sodium	426000	ug/kg		N	P	4400	1	OPTIMA2	031406A-2
7440-28-0	Thallium	382	ug/kg	U		MS	382	10	ICPMS5	060316-7
7440-62-2	Vanadium	883	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-66-6	Zinc	13100	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S-1 METHOD TYPE: SW846

SAMPLE ID: 157897001 CLIENT ID: RE19-06-67514

CONTRACT: LANL00600

MATRIX: W DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	88.1	ug/L	B		P	68	1	OPTIMA2	031406a-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
7440-38-2	Arsenic	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
7440-39-3	Barium	2.5	ug/L	B		P	1	1	OPTIMA2	031406a-2
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
7440-70-2	Calcium	2660	ug/L			P	36	1	OPTIMA2	031406a-2
7440-47-3	Chromium	1.8	ug/L	B		P	1	1	OPTIMA2	031406a-2
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-50-8	Copper	3	ug/L	U		P	3	1	OPTIMA2	031406a-2
7439-89-6	Iron	81.3	ug/L	B		P	18	1	OPTIMA2	031406a-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
7439-95-4	Magnesium	166	ug/L	B		P	85	1	OPTIMA2	031406a-2
7439-96-5	Manganese	2.3	ug/L	B		MS	1	1	ICPMS5	060315-3
7439-97-6	Mercury	0.050	ug/L	U		AV	0.05	1	MER536	031506W1-1
7440-02-0	Nickel	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-09-7	Potassium	83.2	ug/L	B		P	50	1	OPTIMA2	031406a-2
7782-49-2	Selenium	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-23-5	Sodium	6640	ug/L			P	45	1	OPTIMA2	031406a-2
7440-28-0	Thallium	0.40	ug/L	U		MS	0.4	1	ICPMS5	060315-3
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-66-6	Zinc	3.9	ug/L	B		P	2	1	OPTIMA2	031406a-2

Comments:

DATA VALIDATION COVER SHEET (Example)

SECTION I.

REQUEST NUMBER: 47265 COST CODE: RK

VALIDATION DATE: _____

LAB NAME: Cel LAB CODE: _____

VALIDATOR: _____ ORGANIZATION: _____

ANALYTICAL SUITE: ___ VOLATILES ___ HIGH EXPLOSIVES

___ SEMIVOLATILES ___ INORGANICS

___ PESTICIDES/AROCLORS ___ RADIOCHEMISTRY

OTHER (describe) _____

SECTION II. COMPLETENESS CHECKLIST

Item	Present? (Y/N/NA)	Item	Present? (Y/N/NA)
1. COC form(s)		2. Case Narrative	
3. Sample Results		4. Sample Chromatograms	
5. Standard Chromatograms		6. Quantitation Reports	
7. QC Forms			

Identify any samples in the assigned Request Number that are missing:

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Comments: Include information about requests to the laboratory and agreed upon date of resolution and lab contact: (Attach additional comment sheets as necessary)

_____

_____

_____

Signature/1st validation: _____ Date/1st validation: _____

Signature/2nd validation: _____ Date/2nd validation: _____

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
Meeting Today's Needs with a Vision for Tomorrow

April 07, 2006

Ms. Joylene Valdez
Los Alamos National Laboratories
PO Box 1663
TA-3, Bldg. 1237, Drop Pt. 03U
Los Alamos, New Mexico 87545

RECD APR 1 0 2006

Re: LANL ER Project
Work Order: 157896 and 157897
SDG: 4726S

Dear Ms. Valdez:

General Engineering Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on March 11, 2006, and analyzed for Metals.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 25557-001-05 4F
Chain of Custody: 4726SC
Enclosures

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

Los Alamos National Laboratory (25557-001-05)
LANL ER Project
Work Order #: 157896 and 157897
SDG: 4726S

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GENERAL NARRATIVE

Case Narrative for
Los Alamos National Laboratory (25557-001-05)
LANL ER Project
Workorder #: 157896 and 157897
SDG: 4726S

April 07, 2006

Laboratory Identification:

General Engineering Laboratories, LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at General Engineering Laboratories, LLC, Charleston, South Carolina on March 11, 2006 for analysis. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers where checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. There are no additional comments concerning sample receipt. Shipping container temperature was within specification (4 +/- 2C).

Sample Identification The laboratory received the following samples:

Laboratory Identification	Sample Description
157896001	RE19-06-67496
157896002	RE19-06-67497
157896003	RE19-06-67499
157896004	RE19-06-67500
157896005	RE19-06-67501
157896006	RE19-06-67505
157896007	RE19-06-67506
157897001	RE19-06-67514

Case Narrative

Sample analyses were conducted using methodology as outlined in General Engineering Laboratories (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Metals.

I certify that this data report is in compliance with the terms and conditions of the subcontract and task order, both technically and for completeness, for other than the conditions detailed in the attached case narrative.

Valerie Davis
Project Manager

GENERAL ENGINEERING LABORATORIES, LLC
a Member of THE GEL GROUP, INC.
P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407)
Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com

CHAIN OF CUSTODY

Friday, March 10, 2006

CHAIN OF CUSTODY DOCUMENT NUMBER: 4726SC

Los Alamos
NATIONAL LABORATORY

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

157896 - Soils 157897 WATERS

SAMPLE ID	CONT ID	CONTAINER DESCRIPTION	ORDER TEMPLATE CODE	PRESERVATIVE	MATRIX
RE19-06-67496 1105	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67497 1140	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67499 1130	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67500 1430	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67501 1446	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67505 1330	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67506 1340	1	125 ML POLY	METALS-GEL	ICE	S
RE19-06-67514 1345	1	1 L POLY	METALS-GEL	HNO3	W

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Relinquished By:	Date	Time	Received By:	Date	Time
PRINTED NAME SIGNATURE	3/10/06	3:00	Mike Kinder Mike Kinder PRINTED NAME SIGNATURE	3-11-06	0930
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		
PRINTED NAME SIGNATURE			PRINTED NAME SIGNATURE		

Received for DISPOSAL By:	Date	Time	Remarks:
PRINTED NAME SIGNATURE			

Friday, March 10, 2006

REQUEST NUMBER: 4726S

ANALYSIS TYPE: INORGANIC

Los Alamos
NATIONAL LABORATORY

ATTN: Stacy Griffin
General Engineering Laboratories, Inc., Historical
2040 Savage Road
Charleston, SC 29407

Please analyze the enclosed samples according to the schedule indicated:

These samples are on:

SHIP DATE: 03/10/2006
REPORT DUE: 03/15/2006
TURN AROUND REQ'D: 5

LANL Request Number: 4726S
Per Agreement Number: 126310011
Project Cost Code: MX3R0223KUT0

RAD SCREENING: NOT REQ
COMMENTS: 5 Day Turn

LANL ER SMO CONTACT:
Signature:

Page 1

METHOD CODE	SAMPLE ID	CONT ID	SAMPLE MATRIX	DATE SAMPLED	COMMENTS
SW-846:6020	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67499	1	S	03/09/2006	
SW-846:7471A	RE19-06-67501	1	S	03/09/2006	
SW-846:6020	RE19-06-67505	1	S	03/09/2006	
SW-846:6010B	RE19-06-67514	1	W	03/09/2006	
SW-846:7471A	RE19-06-67496	1	S	03/09/2006	
SW-846:6020	RE19-06-67497	1	S	03/09/2006	
SW-846:6010B	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67500	1	S	03/09/2006	
SW-846:7471A	RE19-06-67505	1	S	03/09/2006	
SW-846:6020	RE19-06-67514	1	W	03/09/2006	
SW-846:6020	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67497	1	S	03/09/2006	
SW-846:7471A	RE19-06-67497	1	S	03/09/2006	
SW-846:6020	RE19-06-67500	1	S	03/09/2006	
SW-846:6010B	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67506	1	S	03/09/2006	
SW-846:6020	RE19-06-67506	1	S	03/09/2006	
SW-846:7471A	RE19-06-67506	1	S	03/09/2006	
SW-846:7470A	RE19-06-67514	1	W	03/09/2006	
SW-846:6010B	RE19-06-67496	1	S	03/09/2006	
SW-846:6010B	RE19-06-67499	1	S	03/09/2006	
SW-846:6020	RE19-06-67501	1	S	03/09/2006	
SW-846:6010B	RE19-06-67505	1	S	03/09/2006	

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COOLER RECEIPT CHECKLIST

SAMPLE RECEIPT & REVIEW FORM

GENERAL ENGINEERING LABORATORIES, LLC

PM use only

Client: LAAC	SDG/ARCOC/Work Order: 47265
Date Received: 3-11-06	PM(A) Review (ensure non-conforming items are resolved prior to signing):
Received By: MK	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within (4 +/- 2 C)? Record preservation method.	✓			Circle Coolant # ice bags blue ice dry ice none other describe) 2C 4C
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present? (If yes, immediately deliver to VOA laboratory)			✓	
8	Samples received within holding time?	✓			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	✓			
14	Air Bill ,Tracking #'s, & Additional Comments	FedEx 7709 7837 9542-4C 9531-2C 9520 4C			

	Suspected Hazard Information	Non-Regulated	Regulated	High Level	RSO RAD Receipt # _____ *If > x2 area background is observed on samples identified as "non-regulated/non-radioactive", contact the Radiation Safety group for further investigation.
A	Radiological Classification?	✓			Maximum Counts Observed*: Gm 20
B	PCB Regulated?	✓			Comments:
C	Shipped as DOT Hazardous Material? If yes, contact Waste Manager or ESH Manager.	✓			Hazard Class Shipped: UN#:

PM (or PMA) review of Hazard classification: _____ Initials 3/11 Date:

DATA REVIEW QUALIFIER FLAG DEFINITION SHEET

General Engineering Laboratories, LLC.

DATA QUALIFIERS FOR INORGANIC ANALYSES

Data Qualifiers used on Form 1s or Certificates of Analysis (COA) follow the specifications set forth in the technical specifications of the most current CLP Statement of Work and are defined as follows:

Section	Explanation	Location
E	The qualifier that is used when the percent difference between the parent sample and its serial dilution's concentration exceeds 10%. The sample's concentration must be greater than 50 times the IDL/MDL for ICP or 100 times the absolute value of the preparation blank's concentration for ICP-MS. However, if analyzing ILMO 4.0 (ICP-MS), the parent sample's concentration must be 20 times the CRDL before the "E" flag is applied.	Form 1 and EDD
*	The qualifier that is used to indicate the duplicate sample analysis for an analyte is out of control.	Form 1 and EDD
J	The qualifier is used to indicate that the reported result fell above the IDL/MDL but below the CRDL.	Form 1 and EDD
N	This qualifier is used to indicate that the matrix or pre-digested spike sample recovery for an analyte is not within the specified control limit.	Form 1 and EDD
U	Analyte analyzed for but not detected above the PQL/CRDL.	COA, Form 1, and EDD
X	Other reporting flag as defined in report narrative.	Form 1 and EDD
**	Laboratory Control Sample (LCS) recovery for an analyte is outside of specified acceptance limit.	QC Summary Report

All surrogate recoveries and acceptance ranges are reported at the bottom of Form 2 or COA.
Any recoveries falling outside the acceptance range will be flagged with a **.
All flags do not apply to QC Summary and Certificate of Analysis packages.

Metals Analysis

Case Narrative

Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 4726S

Method/Analysis Information

Analytical Batch:	510923, 510962, 511024
Prep Batch:	510922, 510960, 511022
Standard Operating Procedures:	GL-MA-E-013 REV# 14, GL-MA-E-014 REV# 10, GL-MA-E-010 REV# 16, GL-MA-E-009 REV# 13
Analytical Method:	SW846 6010B, SW846 6020, SW846 7471A
Prep Method:	SW846 3050B, SW846 7471A

Sample Analysis

Sample ID	Client ID
157896001	RE19-06-67496
157896002	RE19-06-67497
157896003	RE19-06-67499
157896004	RE19-06-67500
157896005	RE19-06-67501
157896006	RE19-06-67505
157896007	RE19-06-67506
1201049243	Method Blank (MB) **ICP**
1201049244	Laboratory Control Sample (LCS)
1201049247	157896001(RE19-06-67496L) Serial Dilution (SD)
1201049245	157896001(RE19-06-67496D) Sample Duplicate (DUP)
1201049246	157896001(RE19-06-67496S) Matrix Spike (MS)
1201049248	157896001(RE19-06-67496SD) Matrix Spike Duplicate (MSD)
1201049313	Method Blank (MB) **ICP-MS**
1201049314	Laboratory Control Sample (LCS)
1201049317	157896001(RE19-06-67496L) Serial Dilution (SD)
1201049315	157896001(RE19-06-67496D) Sample Duplicate (DUP)

1201049316	157896001(RE19-06-67496S) Matrix Spike (MS)
1201049319	157894001(MD50-06-64838SD) Matrix Spike Duplicate (MSD)
1201049446	Method Blank (MB) **CVAA**
1201049447	Laboratory Control Sample (LCS)
1201049454	157896001(RE19-06-67496L) Serial Dilution (SD)
1201049448	157896001(RE19-06-67496D) Sample Duplicate (DUP)
1201049449	157896001(RE19-06-67496S) Matrix Spike (MS)
1201049455	157896001(RE19-06-67496SD) Matrix Spike Duplicate (MSD)

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by General Engineering Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The ICP analysis was performed on a P E 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The ICP-MS analysis was performed on a Perkin Elmer ICP-MS ELAN 9000. The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, and tantalum were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 3607 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Mercury analysis was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-400) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 254 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80mL/min.

Calibration Information

Instrument Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL Requirements
All CRDL standard(s) met the referenced advisory control limits.

Continuing Calibration Blank (CCB) Requirements
All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements
All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

ICSA/ICSAB statement
All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits, with the exception of silver. Per the DOE-AL statement of work, page forty, silver is exempt from the re-digestion requirement for LCS failures.

Quality Control (QC) Sample Statement
The following sample was selected as the quality control (QC) sample for this SDG: 157896001 (RE19-06-67496) for CVAA, ICP and ICP-MS.

Matrix Spike (MS) Recovery Statement
The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes, with the exception of aluminum, calcium, potassium and sodium, as indicated by the "N" qualifiers.

Matrix Spike Duplicate (MSD) Recovery Statement
The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes, with the exceptions of aluminum, potassium, sodium and nickel, as indicated by the "N" qualifiers.

MS/MSD Relative Percent Difference (RPD) Statement
The RPD(s) between the MS and MSD met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement
The RPD obtained from the designated sample duplicate (DUP) is evaluated based on

acceptance criteria of 20% when the sample is >5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement
The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL for CVAA, 50X the IDL for ICP, and 100X the IDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of . expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS. Per the SOP, samples 157896001, 157896002, 157896003, 157896004, 157896005, 157896006 and 157896007 required 10x dilutions for thallium due to relatively high native sample concentration of an internal standard.

Preparation Information
The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information

Nonconformance Documentation
Nonconformance reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following NCRs were generated for this SDG: NCR ID 299850 and NCR ID 300181. A copy is included in the Miscellaneous Data section of this package.

Additional Comments
Additional comments were not required for this SDG.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Kristan M. Murray **Date:** 4-6-06

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896001 CLIENT ID: RE19-06-67496

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 98.8

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	995000	ug/kg		N	P	6620	1	OPTIMA2	031406A-2
7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
7440-38-2	Arsenic	1900	ug/kg			P	584	1	OPTIMA2	031406A-2
7440-39-3	Barium	4100	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	129	ug/kg			MS	20.2	2	ICPMS5	060316-3
7440-43-9	Cadmium	97.3	ug/kg	U		P	97.3	1	OPTIMA2	031406A-2
7440-70-2	Calcium	1090000	ug/kg		N	P	3500	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1490	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	333	ug/kg	B		P	195	1	OPTIMA2	031406A-2
7440-50-8	Copper	1260	ug/kg			P	292	1	OPTIMA2	031406A-2
7439-89-6	Iron	2140000	ug/kg			P	1750	1	OPTIMA2	031406A-2
7439-92-1	Lead	13400	ug/kg			P	243	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	117000	ug/kg			P	8270	1	OPTIMA2	031406A-2
7439-96-5	Manganese	147000	ug/kg			P	195	1	OPTIMA2	031406A-2
7439-97-6	Mercury	4.1	ug/kg	B		AV	2.5	1	MER179	031506S1-1
7440-02-0	Nickel	320	ug/kg	B		MS	101	2	ICPMS5	060316-3
7440-09-7	Potassium	635000	ug/kg		N	P	4870	1	OPTIMA2	031406A-2
7782-49-2	Selenium	584	ug/kg	U		P	584	1	OPTIMA2	031406A-2
7440-22-4	Silver	40.5	ug/kg	U		MS	40.5	2	ICPMS5	060316-3
7440-23-5	Sodium	431000	ug/kg		N	P	4380	1	OPTIMA2	031406A-2
7440-28-0	Thallium	405	ug/kg	U		MS	405	10	ICPMS5	060316-7
7440-62-2	Vanadium	1160	ug/kg			P	97.3	1	OPTIMA2	031406A-2
7440-66-6	Zinc	14800	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896002 CLIENT ID: RE19-06-67497

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 99.08

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	964000	ug/kg		N	P	6810	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.6	ug/kg	U		MS	98.6	2	ICPMS5	060316-3
7440-38-2	Arsenic	2070	ug/kg			P	601	1	OPTIMA2	031406A-2
7440-39-3	Barium	4360	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	215	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	100	ug/kg	U		P	100	1	OPTIMA2	031406A-2
7440-70-2	Calcium	877000	ug/kg		N	P	3600	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1200	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	362	ug/kg	B		P	200	1	OPTIMA2	031406A-2
7440-50-8	Copper	1310	ug/kg			P	300	1	OPTIMA2	031406A-2
7439-89-6	Iron	1780000	ug/kg			P	1800	1	OPTIMA2	031406A-2
7439-92-1	Lead	10600	ug/kg			P	250	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	125000	ug/kg			P	8510	1	OPTIMA2	031406A-2
7439-96-5	Manganese	130000	ug/kg			P	200	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.49	ug/kg	U		AV	2.49	1	MER179	031506S1-1
7440-02-0	Nickel	485	ug/kg			MS	98.6	2	ICPMS5	060316-3
7440-09-7	Potassium	571000	ug/kg		N	P	5010	1	OPTIMA2	031406A-2
7782-49-2	Selenium	601	ug/kg	U		P	601	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
7440-23-5	Sodium	336000	ug/kg		N	P	4510	1	OPTIMA2	031406A-2
7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
7440-62-2	Vanadium	1250	ug/kg			P	100	1	OPTIMA2	031406A-2
7440-66-6	Zinc	23000	ug/kg			P	200	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896003 **CLIENT ID:** RE19-06-67499

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 98.6

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1040000	ug/kg		N	P	6770	1	OPTIMA2	031406A-2
7440-36-0	Antimony	101	ug/kg	U		MS	101	2	ICPMS5	060316-3
7440-38-2	Arsenic	1470	ug/kg	B		P	598	1	OPTIMA2	031406A-2
7440-39-3	Barium	3480	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	108	ug/kg			MS	20.2	2	ICPMS5	060316-3
7440-43-9	Cadmium	99.6	ug/kg	U		P	99.6	1	OPTIMA2	031406A-2
7440-70-2	Calcium	730000	ug/kg		N	P	3590	1	OPTIMA2	031406A-2
7440-47-3	Chromium	3070	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	251	ug/kg	B		P	199	1	OPTIMA2	031406A-2
7440-50-8	Copper	1170	ug/kg			P	299	1	OPTIMA2	031406A-2
7439-89-6	Iron	1620000	ug/kg			P	1790	1	OPTIMA2	031406A-2
7439-92-1	Lead	11600	ug/kg			P	249	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	49700	ug/kg			P	8460	1	OPTIMA2	031406A-2
7439-96-5	Manganese	101000	ug/kg			P	199	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.38	ug/kg	U		AV	2.38	1	MER179	031506S1-1
7440-02-0	Nickel	219	ug/kg	B		MS	101	2	ICPMS5	060316-3
7440-09-7	Potassium	706000	ug/kg		N	P	4980	1	OPTIMA2	031406A-2
7782-49-2	Selenium	598	ug/kg	U		P	598	1	OPTIMA2	031406A-2
7440-22-4	Silver	40.4	ug/kg	U		MS	40.4	2	ICPMS5	060316-3
7440-23-5	Sodium	447000	ug/kg		N	P	4480	1	OPTIMA2	031406A-2
7440-28-0	Thallium	404	ug/kg	U		MS	404	10	ICPMS5	060316-7
7440-62-2	Vanadium	773	ug/kg			P	99.6	1	OPTIMA2	031406A-2
7440-66-6	Zinc	11500	ug/kg			P	199	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896004 **CLIENT ID:** RE19-06-67500

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.11

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	925000	ug/kg		N	P	6730	1	OPTIMA2	031406A-2
7440-36-0	Antimony	96.8	ug/kg	U		MS	96.8	2	ICPMS5	060316-3
7440-38-2	Arsenic	2070	ug/kg			P	594	1	OPTIMA2	031406A-2
7440-39-3	Barium	3190	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	134	ug/kg			MS	19.4	2	ICPMS5	060316-3
7440-43-9	Cadmium	98.9	ug/kg	U		P	98.9	1	OPTIMA2	031406A-2
7440-70-2	Calcium	1010000	ug/kg		N	P	3560	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1090	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	287	ug/kg	B		P	198	1	OPTIMA2	031406A-2
7440-50-8	Copper	1120	ug/kg			P	297	1	OPTIMA2	031406A-2
7439-89-6	Iron	1560000	ug/kg			P	1780	1	OPTIMA2	031406A-2
7439-92-1	Lead	7710	ug/kg			P	247	I	OPTIMA2	031406A-2
7439-95-4	Magnesium	63200	ug/kg			P	8410	1	OPTIMA2	031406A-2
7439-96-5	Manganese	90500	ug/kg			P	198	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
7440-02-0	Nickel	243	ug/kg	B		MS	96.8	2	ICPMS5	060316-3
7440-09-7	Potassium	605000	ug/kg		N	P	4950	1	OPTIMA2	031406A-2
7782-49-2	Selenium	594	ug/kg	U		P	594	1	OPTIMA2	031406A-2
7440-22-4	Silver	38.7	ug/kg	U		MS	38.7	2	ICPMS5	060316-3
7440-23-5	Sodium	439000	ug/kg		N	P	4450	1	OPTIMA2	031406A-2
7440-28-0	Thallium	387	ug/kg	U		MS	387	10	ICPMS5	060316-7
7440-62-2	Vanadium	977	ug/kg			P	98.9	1	OPTIMA2	031406A-2
7440-66-6	Zinc	12200	ug/kg			P	198	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S **METHOD TYPE:** SW846

SAMPLE ID: 157896005 **CLIENT ID:** RE19-06-67501

CONTRACT: LANL00600

MATRIX: S **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:** 99.31

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	1030000	ug/kg		N	P	6520	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.3	ug/kg	U		MS	98.3	2	ICPMS5	060316-3
7440-38-2	Arsenic	1900	ug/kg			P	575	1	OPTIMA2	031406A-2
7440-39-3	Barium	2500	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	152	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	95.9	ug/kg	U		P	95.9	1	OPTIMA2	031406A-2
7440-70-2	Calcium	943000	ug/kg		N	P	3450	1	OPTIMA2	031406A-2
7440-47-3	Chromium	802	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	257	ug/kg	B		P	192	1	OPTIMA2	031406A-2
7440-50-8	Copper	969	ug/kg			P	288	1	OPTIMA2	031406A-2
7439-89-6	Iron	1370000	ug/kg			P	1730	1	OPTIMA2	031406A-2
7439-92-1	Lead	7070	ug/kg			P	240	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	50000	ug/kg			P	8150	1	OPTIMA2	031406A-2
7439-96-5	Manganese	80100	ug/kg			P	192	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.43	ug/kg	U		AV	2.43	1	MER179	031506S1-1
7440-02-0	Nickel	127	ug/kg	B		MS	98.3	2	ICPMS5	060316-3
7440-09-7	Potassium	737000	ug/kg		N	P	4800	1	OPTIMA2	031406A-2
7782-49-2	Selenium	575	ug/kg	U		P	575	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.3	ug/kg	U		MS	39.3	2	ICPMS5	060316-3
7440-23-5	Sodium	499000	ug/kg		N	P	4320	1	OPTIMA2	031406A-2
7440-28-0	Thallium	393	ug/kg	U		MS	393	10	ICPMS5	060316-7
7440-62-2	Vanadium	863	ug/kg			P	95.9	1	OPTIMA2	031406A-2
7440-66-6	Zinc	10900	ug/kg			P	192	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896006 CLIENT ID: RE19-06-67505

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 99.49

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	831000	ug/kg		N	P	6690	1	OPTIMA2	031406A-2
7440-36-0	Antimony	98.5	ug/kg	U		MS	98.5	2	ICPMS5	060316-3
7440-38-2	Arsenic	1370	ug/kg	B		P	590	1	OPTIMA2	031406A-2
7440-39-3	Barium	3810	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	127	ug/kg			MS	19.7	2	ICPMS5	060316-3
7440-43-9	Cadmium	98.4	ug/kg	U		P	98.4	1	OPTIMA2	031406A-2
7440-70-2	Calcium	911000	ug/kg		N	P	3540	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1840	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	296	ug/kg	B		P	197	1	OPTIMA2	031406A-2
7440-50-8	Copper	985	ug/kg			P	295	1	OPTIMA2	031406A-2
7439-89-6	Iron	1620000	ug/kg			P	1770	1	OPTIMA2	031406A-2
7439-92-1	Lead	6970	ug/kg			P	246	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	54800	ug/kg			P	8360	1	OPTIMA2	031406A-2
7439-96-5	Manganese	93900	ug/kg			P	197	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.46	ug/kg	U		AV	2.46	1	MER179	031506S1-1
7440-02-0	Nickel	167	ug/kg	B		MS	98.5	2	ICPMS5	060316-3
7440-09-7	Potassium	576000	ug/kg		N	P	4920	1	OPTIMA2	031406A-2
7782-49-2	Selenium	590	ug/kg	U		P	590	1	OPTIMA2	031406A-2
7440-22-4	Silver	39.4	ug/kg	U		MS	39.4	2	ICPMS5	060316-3
7440-23-5	Sodium	398000	ug/kg		N	P	4430	1	OPTIMA2	031406A-2
7440-28-0	Thallium	394	ug/kg	U		MS	394	10	ICPMS5	060316-7
7440-62-2	Vanadium	911	ug/kg			P	98.4	1	OPTIMA2	031406A-2
7440-66-6	Zinc	12200	ug/kg			P	197	1	OPTIMA2	031406A-2

Comments:

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S METHOD TYPE: SW846

SAMPLE ID: 157896007 CLIENT ID: RE19-06-67506

CONTRACT: LANL00600

MATRIX: S DATE RECEIVED 11-MAR-06 LEVEL: Low %SOLIDS: 99.71

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	868000	ug/kg		N	P	6650	1	OPTIMA2	031406A-2
7440-36-0	Antimony	95.5	ug/kg	U		MS	95.5	2	ICPMS5	060316-3
7440-38-2	Arsenic	1650	ug/kg			P	586	1	OPTIMA2	031406A-2
7440-39-3	Barium	3320	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-41-7	Beryllium	137	ug/kg			MS	19.1	2	ICPMS5	060316-3
7440-43-9	Cadmium	97.7	ug/kg	U		P	97.7	1	OPTIMA2	031406A-2
7440-70-2	Calcium	928000	ug/kg		N	P	3520	1	OPTIMA2	031406A-2
7440-47-3	Chromium	1920	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-48-4	Cobalt	319	ug/kg	B		P	195	1	OPTIMA2	031406A-2
7440-50-8	Copper	1020	ug/kg			P	293	1	OPTIMA2	031406A-2
7439-89-6	Iron	1500000	ug/kg			P	1760	1	OPTIMA2	031406A-2
7439-92-1	Lead	7100	ug/kg			P	244	1	OPTIMA2	031406A-2
7439-95-4	Magnesium	75300	ug/kg			P	8310	1	OPTIMA2	031406A-2
7439-96-5	Manganese	93800	ug/kg			P	195	1	OPTIMA2	031406A-2
7439-97-6	Mercury	2.41	ug/kg	U		AV	2.41	1	MER179	031506S1-1
7440-02-0	Nickel	156	ug/kg	B		MS	95.5	2	ICPMS5	060316-3
7440-09-7	Potassium	613000	ug/kg		N	P	4890	1	OPTIMA2	031406A-2
7782-49-2	Selenium	586	ug/kg	U		P	586	1	OPTIMA2	031406A-2
7440-22-4	Silver	38.2	ug/kg	U		MS	38.2	2	ICPMS5	060316-3
7440-23-5	Sodium	426000	ug/kg		N	P	4400	1	OPTIMA2	031406A-2
7440-28-0	Thallium	382	ug/kg	U		MS	382	10	ICPMS5	060316-7
7440-62-2	Vanadium	883	ug/kg			P	97.7	1	OPTIMA2	031406A-2
7440-66-6	Zinc	13100	ug/kg			P	195	1	OPTIMA2	031406A-2

Comments:

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
ICV01										
	Aluminum	4961.4	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Arsenic	502.86	ug/L	500	ug/L	100.6	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Barium	488.06	ug/L	500	ug/L	97.6	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Cadmium	476.79	ug/L	500	ug/L	95.4	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Calcium	5024.3	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Chromium	481.21	ug/L	500	ug/L	96.2	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Cobalt	485.54	ug/L	500	ug/L	97.1	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Copper	491.72	ug/L	500	ug/L	98.3	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Iron	5122.9	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Lead	489.67	ug/L	500	ug/L	97.9	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Magnesium	5286.9	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Manganese	520.15	ug/L	500	ug/L	104	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Potassium	2456.8	ug/L	2500	ug/L	98.3	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Selenium	2420	ug/L	2500	ug/L	96.8	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Sodium	2462.1	ug/L	2500	ug/L	98.5	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Vanadium	502.27	ug/L	500	ug/L	100.5	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Zinc	492.28	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14-MAR-06 07:24	031406A-2
	Mercury	5.05	ug/L	5	ug/L	101	90.0 – 110.0	AV	15-MAR-06 11:06	031506S1-1
	Antimony	51.58	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	16-MAR-06 14:44	060316-3
	Beryllium	49.48	ug/L	50	ug/L	99	90.0 – 110.0	MS	16-MAR-06 14:44	060316-3
	Nickel	50.45	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	16-MAR-06 14:44	060316-3
	Silver	52.86	ug/L	50	ug/L	105.7	90.0 – 110.0	MS	16-MAR-06 14:44	060316-3
	Thallium	55	ug/L	50	ug/L	110	90.0 – 110.0	MS	16-MAR-06 16:55	060316-7
CCV01										
	Aluminum	4994.6	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Arsenic	531.94	ug/L	500	ug/L	106.4	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Barium	495.82	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Cadmium	497.53	ug/L	500	ug/L	99.5	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Calcium	5144	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Chromium	495.5	ug/L	500	ug/L	99.1	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Cobalt	497.05	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Copper	497.62	ug/L	500	ug/L	99.5	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Iron	5171.6	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Lead	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Magnesium	5145.2	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Manganese	498.31	ug/L	500	ug/L	99.7	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Potassium	5009.8	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Selenium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Sodium	10071	ug/L	10000	ug/L	100.7	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Vanadium	501.74	ug/L	500	ug/L	100.4	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Zinc	497.83	ug/L	500	ug/L	99.6	90.0 – 110.0	P	14-MAR-06 08:12	031406A-2
	Mercury	5.12	ug/L	5	ug/L	102.5	80.0 – 120.0	AV	15-MAR-06 11:12	031506S1-1
	Antimony	51.58	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	16-MAR-06 15:00	060316-3
	Beryllium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	16-MAR-06 15:00	060316-3
	Nickel	50.93	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16-MAR-06 15:00	060316-3
	Silver	53.47	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	16-MAR-06 15:00	060316-3
	Thallium	54.8	ug/L	50	ug/L	109.6	90.0 – 110.0	MS	16-MAR-06 17:08	060316-7
CCV02										
	Aluminum	4923.1	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Arsenic	493.34	ug/L	500	ug/L	98.7	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Barium	488.24	ug/L	500	ug/L	97.7	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Cadmium	489.45	ug/L	500	ug/L	97.9	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Calcium	5081.5	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Chromium	487.16	ug/L	500	ug/L	97.4	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Cobalt	489.21	ug/L	500	ug/L	97.8	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Copper	492.61	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Iron	5128.9	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Lead	493.21	ug/L	500	ug/L	98.6	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Magnesium	5083.1	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2
	Manganese	492.41	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14-MAR-06 09:43	031406A-2

METALS
–2a–
Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Potassium	4916.7	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	14–MAR–06 09:43	031406A–2
	Selenium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 09:43	031406A–2
	Sodium	10033	ug/L	10000	ug/L	100.3	90.0 – 110.0	P	14–MAR–06 09:43	031406A–2
	Vanadium	493.64	ug/L	500	ug/L	98.7	90.0 – 110.0	P	14–MAR–06 09:43	031406A–2
	Zinc	488.51	ug/L	500	ug/L	97.7	90.0 – 110.0	P	14–MAR–06 09:43	031406A–2
	Mercury	4.9	ug/L	5	ug/L	98	80.0 – 120.0	AV	15–MAR–06 11:36	031506S1–1
	Antimony	52.94	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	16–MAR–06 15:09	060316–3
	Beryllium	50.93	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16–MAR–06 15:09	060316–3
	Nickel	51.23	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	16–MAR–06 15:09	060316–3
	Silver	52.35	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	16–MAR–06 15:09	060316–3
	Thallium	54.88	ug/L	50	ug/L	109.8	90.0 – 110.0	MS	16–MAR–06 17:42	060316–7
CCV03										
	Aluminum	4967.6	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Arsenic	494.62	ug/L	500	ug/L	98.9	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Barium	494.2	ug/L	500	ug/L	98.8	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Cadmium	495.97	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Calcium	5139.7	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Chromium	494.22	ug/L	500	ug/L	98.8	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Cobalt	496.47	ug/L	500	ug/L	99.3	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Copper	495.11	ug/L	500	ug/L	99	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Iron	5159.3	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Lead	498.61	ug/L	500	ug/L	99.7	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Magnesium	5132.1	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Manganese	496.56	ug/L	500	ug/L	99.3	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Potassium	5699.5	ug/L	5000	ug/L	114	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Selenium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Sodium	10278	ug/L	10000	ug/L	102.8	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Vanadium	500.17	ug/L	500	ug/L	100	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Zinc	495.89	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 10:19	031406A–2
	Mercury	4.95	ug/L	5	ug/L	98.9	80.0 – 120.0	AV	15–MAR–06 12:00	031506S1–1

METALS
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Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Antimony	50.63	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	16–MAR–06 15:43	060316–3
	Beryllium	51.11	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	16–MAR–06 15:43	060316–3
	Nickel	51.78	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	16–MAR–06 15:43	060316–3
	Silver	52.35	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	16–MAR–06 15:43	060316–3
	Thallium	54.08	ug/L	50	ug/L	108.2	90.0 – 110.0	MS	16–MAR–06 18:03	060316–7
CCV04										
	Aluminum	4974.3	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Arsenic	496.97	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Barium	495.79	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Cadmium	496.06	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Calcium	5123.8	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Chromium	494.72	ug/L	500	ug/L	98.9	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Cobalt	496.69	ug/L	500	ug/L	99.3	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Copper	496.9	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Iron	5157.6	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Lead	501.55	ug/L	500	ug/L	100.3	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Magnesium	5117.1	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Manganese	497.99	ug/L	500	ug/L	99.6	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Potassium	5085.6	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Selenium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Sodium	10022	ug/L	10000	ug/L	100.2	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Vanadium	500.95	ug/L	500	ug/L	100.2	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Zinc	495.33	ug/L	500	ug/L	99.1	90.0 – 110.0	P	14–MAR–06 11:20	031406A–2
	Mercury	5.01	ug/L	5	ug/L	100.2	80.0 – 120.0	AV	15–MAR–06 12:24	031506S1–1
	Antimony	50.03	ug/L	50	ug/L	100.1	90.0 – 110.0	MS	16–MAR–06 16:07	060316–3
	Beryllium	50.67	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	16–MAR–06 16:07	060316–3
	Nickel	49.94	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	16–MAR–06 16:07	060316–3
	Silver	50.94	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16–MAR–06 16:07	060316–3
CCV05										
	Aluminum	4990.6	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2

METALS
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Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Arsenic	497.97	ug/L	500	ug/L	99.6	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Barium	496.87	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Cadmium	496.85	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Calcium	5130.2	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Chromium	495.08	ug/L	500	ug/L	99	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Cobalt	498.41	ug/L	500	ug/L	99.7	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Copper	497.17	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Iron	5172.4	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Lead	502.25	ug/L	500	ug/L	100.5	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Magnesium	5137.7	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Manganese	498.92	ug/L	500	ug/L	99.8	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Potassium	5082.7	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Selenium	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Sodium	10113	ug/L	10000	ug/L	101.1	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Vanadium	501.69	ug/L	500	ug/L	100.3	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
	Zinc	497.84	ug/L	500	ug/L	99.6	90.0 – 110.0	P	14–MAR–06 12:03	031406A–2
CCV06										
	Aluminum	5030.4	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Arsenic	490.17	ug/L	500	ug/L	98	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Barium	490.53	ug/L	500	ug/L	98.1	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Cadmium	489.71	ug/L	500	ug/L	97.9	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Calcium	5177.9	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Chromium	487.93	ug/L	500	ug/L	97.6	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Cobalt	490.88	ug/L	500	ug/L	98.2	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Copper	491.9	ug/L	500	ug/L	98.4	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Iron	5237.5	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Lead	496.9	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Magnesium	5184.4	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Manganese	493.58	ug/L	500	ug/L	98.7	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Potassium	5095.2	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2

METALS
–2a–
Initial and Continuing Calibration Verification

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Selenium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Sodium	10144	ug/L	10000	ug/L	101.4	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Vanadium	495.97	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
	Zinc	489.87	ug/L	500	ug/L	98	90.0 – 110.0	P	14–MAR–06 13:21	031406A–2
CCV07										
	Aluminum	4959.2	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Arsenic	492.67	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Barium	491.67	ug/L	500	ug/L	98.3	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Cadmium	489.89	ug/L	500	ug/L	98	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Calcium	5071.5	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Chromium	488.91	ug/L	500	ug/L	97.8	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Cobalt	492.61	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Copper	493.44	ug/L	500	ug/L	98.7	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Iron	5134.2	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Lead	499.98	ug/L	500	ug/L	100	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Magnesium	5082.9	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Manganese	493.51	ug/L	500	ug/L	98.7	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Potassium	5025.2	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Selenium	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Sodium	10005	ug/L	10000	ug/L	100.1	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Vanadium	497.83	ug/L	500	ug/L	99.6	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2
	Zinc	491.5	ug/L	500	ug/L	98.3	90.0 – 110.0	P	14–MAR–06 14:18	031406A–2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS5,MER179,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M	Analysis Date/Time	Run Number
CRDL01										
	Mercury	.2098	ug/L	.2	ug/L	104.91	70.0 – 130.0	AV	15-MAR-06 11:10	031506S1-1
	Nickel	2.09	ug/L	2	ug/L	104.55	70.0 – 130.0	MS	16-MAR-06 14:50	060316-3
	Silver	1.06	ug/L	1	ug/L	106.1	70.0 – 130.0	MS	16-MAR-06 14:50	060316-3
	Antimony	2.13	ug/L	2	ug/L	106.55	70.0 – 130.0	MS	16-MAR-06 14:50	060316-3
	Beryllium	.469	ug/L	.5	ug/L	93.8	70.0 – 130.0	MS	16-MAR-06 14:50	060316-3
	Thallium	1.17	ug/L	1	ug/L	116.5	70.0 – 130.0	MS	16-MAR-06 17:00	060316-7
PQL01										
	Cobalt	5.27	ug/L	5	ug/L	105.38	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Copper	10.05	ug/L	10	ug/L	100.51	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Vanadium	4.74	ug/L	5	ug/L	94.73	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Zinc	10.32	ug/L	10	ug/L	103.23	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Calcium	105.88	ug/L	100	ug/L	105.88	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Selenium	16.1	ug/L	15	ug/L	107.33	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Aluminum	203.17	ug/L	200	ug/L	101.59	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Iron	107.8	ug/L	100	ug/L	107.8	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Lead	10.34	ug/L	10	ug/L	103.37	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Magnesium	334.18	ug/L	300	ug/L	111.39	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Manganese	10.38	ug/L	10	ug/L	103.8	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Potassium	153.57	ug/L	150	ug/L	102.38	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Sodium	141.68	ug/L	150	ug/L	94.45	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Arsenic	13.73	ug/L	15	ug/L	91.51	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Barium	5.14	ug/L	5	ug/L	102.85	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Cadmium	4.93	ug/L	5	ug/L	98.6	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2
	Chromium	5.04	ug/L	5	ug/L	100.71	70.0 – 130.0	P	14-MAR-06 07:38	031406A-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
ICB01									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 07:31	031406A-2
	Arsenic	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 07:31	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Cadmium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 07:31	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Cobalt	2.0	+/-5	U	2.0	5.0	P	14-MAR-06 07:31	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 07:31	031406A-2
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 07:31	031406A-2
	Lead	2.5	+/-10	U	2.5	10.0	P	14-MAR-06 07:31	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 07:31	031406A-2
	Manganese	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 07:31	031406A-2
	Potassium	50.0	+/-150	U	50.0	150	P	14-MAR-06 07:31	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 07:31	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 07:31	031406A-2
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 07:31	031406A-2
	Mercury	0.05	+/-.2	U	0.05	0.2	AV	15-MAR-06 11:08	031506S1-1
	Antimony	0.573	+/-2	B	0.5	2.0	MS	16-MAR-06 14:47	060316-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	MS	16-MAR-06 14:47	060316-3
	Nickel	0.5	+/-2	U	0.5	2.0	MS	16-MAR-06 14:47	060316-3
	Silver	0.2	+/-1	U	0.2	1.0	MS	16-MAR-06 14:47	060316-3
	Thallium	0.4	+/-1	U	0.4	1.0	MS	16-MAR-06 16:57	060316-7
CCB01									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 08:20	031406A-2
	Arsenic	10.15	+/-15	B	6.0	15.0	P	14-MAR-06 08:20	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Cadmium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 08:20	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Cobalt	2.0	+/-5	U	2.0	5.0	P	14-MAR-06 08:20	031406A-2

Metals
–3a–
Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Copper	3.0	+/–10	U	3.0	10.0	P	14–MAR–06 08:20	031406A–2
	Iron	18.0	+/–100	U	18.0	100	P	14–MAR–06 08:20	031406A–2
	Lead	4.53	+/–10	B	2.5	10.0	P	14–MAR–06 08:20	031406A–2
	Magnesium	85.0	+/–300	U	85.0	300	P	14–MAR–06 08:20	031406A–2
	Manganese	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 08:20	031406A–2
	Potassium	50.0	+/–150	U	50.0	150	P	14–MAR–06 08:20	031406A–2
	Selenium	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 08:20	031406A–2
	Sodium	45.0	+/–150	U	45.0	150	P	14–MAR–06 08:20	031406A–2
	Vanadium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 08:20	031406A–2
	Zinc	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 08:20	031406A–2
	Mercury	0.05	+/–.2	U	0.05	0.2	AV	15–MAR–06 11:14	031506S1–1
	Antimony	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 15:03	060316–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	MS	16–MAR–06 15:03	060316–3
	Nickel	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 15:03	060316–3
	Silver	0.2	+/–1	U	0.2	1.0	MS	16–MAR–06 15:03	060316–3
	Thallium	0.4	+/–1	U	0.4	1.0	MS	16–MAR–06 17:10	060316–7
CCB02									
	Aluminum	68.0	+/–200	U	68.0	200	P	14–MAR–06 09:50	031406A–2
	Arsenic	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 09:50	031406A–2
	Barium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 09:50	031406A–2
	Cadmium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 09:50	031406A–2
	Calcium	36.0	+/–100	U	36.0	100	P	14–MAR–06 09:50	031406A–2
	Chromium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 09:50	031406A–2
	Cobalt	2.0	+/–5	U	2.0	5.0	P	14–MAR–06 09:50	031406A–2
	Copper	3.0	+/–10	U	3.0	10.0	P	14–MAR–06 09:50	031406A–2
	Iron	18.0	+/–100	U	18.0	100	P	14–MAR–06 09:50	031406A–2
	Lead	2.5	+/–10	U	2.5	10.0	P	14–MAR–06 09:50	031406A–2
	Magnesium	85.0	+/–300	U	85.0	300	P	14–MAR–06 09:50	031406A–2
	Manganese	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 09:50	031406A–2
	Potassium	50.0	+/–150	U	50.0	150	P	14–MAR–06 09:50	031406A–2
	Selenium	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 09:50	031406A–2

Metals
–3a–
Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Sodium	45.0	+/–150	U	45.0	150	P	14–MAR–06 09:50	031406A–2
	Vanadium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 09:50	031406A–2
	Zinc	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 09:50	031406A–2
	Mercury	0.05	+/–.2	U	0.05	0.2	AV	15–MAR–06 11:38	031506S1–1
	Antimony	0.985	+/–2	B	0.5	2.0	MS	16–MAR–06 15:12	060316–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	MS	16–MAR–06 15:12	060316–3
	Nickel	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 15:12	060316–3
	Silver	0.2	+/–1	U	0.2	1.0	MS	16–MAR–06 15:12	060316–3
	Thallium	0.4	+/–1	U	0.4	1.0	MS	16–MAR–06 17:45	060316–7
CCB03									
	Aluminum	68.0	+/–200	U	68.0	200	P	14–MAR–06 10:26	031406A–2
	Arsenic	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 10:26	031406A–2
	Barium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 10:26	031406A–2
	Cadmium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 10:26	031406A–2
	Calcium	36.0	+/–100	U	36.0	100	P	14–MAR–06 10:26	031406A–2
	Chromium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 10:26	031406A–2
	Cobalt	2.0	+/–5	U	2.0	5.0	P	14–MAR–06 10:26	031406A–2
	Copper	3.0	+/–10	U	3.0	10.0	P	14–MAR–06 10:26	031406A–2
	Iron	18.0	+/–100	U	18.0	100	P	14–MAR–06 10:26	031406A–2
	Lead	2.5	+/–10	U	2.5	10.0	P	14–MAR–06 10:26	031406A–2
	Magnesium	85.0	+/–300	U	85.0	300	P	14–MAR–06 10:26	031406A–2
	Manganese	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 10:26	031406A–2
	Potassium	250.36	+/–150		50.0	150	P	14–MAR–06 10:26	031406A–2
	Selenium	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 10:26	031406A–2
	Sodium	45.0	+/–150	U	45.0	150	P	14–MAR–06 10:26	031406A–2
	Vanadium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 10:26	031406A–2
	Zinc	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 10:26	031406A–2
	Mercury	0.05	+/–.2	U	0.05	0.2	AV	15–MAR–06 12:02	031506S1–1
	Antimony	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 15:46	060316–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	MS	16–MAR–06 15:46	060316–3
	Nickel	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 15:46	060316–3

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Silver	0.2	+/–1	U	0.2	1.0	MS	16–MAR–06 15:46	060316–3
	Thallium	0.4	+/–1	U	0.4	1.0	MS	16–MAR–06 18:06	060316–7
CCB04									
	Aluminum	68.0	+/–200	U	68.0	200	P	14–MAR–06 11:27	031406A–2
	Arsenic	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 11:27	031406A–2
	Barium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 11:27	031406A–2
	Cadmium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 11:27	031406A–2
	Calcium	36.0	+/–100	U	36.0	100	P	14–MAR–06 11:27	031406A–2
	Chromium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 11:27	031406A–2
	Cobalt	2.0	+/–5	U	2.0	5.0	P	14–MAR–06 11:27	031406A–2
	Copper	3.0	+/–10	U	3.0	10.0	P	14–MAR–06 11:27	031406A–2
	Iron	18.0	+/–100	U	18.0	100	P	14–MAR–06 11:27	031406A–2
	Lead	2.5	+/–10	U	2.5	10.0	P	14–MAR–06 11:27	031406A–2
	Magnesium	85.0	+/–300	U	85.0	300	P	14–MAR–06 11:27	031406A–2
	Manganese	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 11:27	031406A–2
	Potassium	65.12	+/–150	B	50.0	150	P	14–MAR–06 11:27	031406A–2
	Selenium	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 11:27	031406A–2
	Sodium	45.0	+/–150	U	45.0	150	P	14–MAR–06 11:27	031406A–2
	Vanadium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 11:27	031406A–2
	Zinc	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 11:27	031406A–2
	Mercury	0.05	+/–.2	U	0.05	0.2	AV	15–MAR–06 12:26	031506S1–1
	Antimony	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 16:10	060316–3
	Beryllium	0.1	+/–.5	U	0.1	0.5	MS	16–MAR–06 16:10	060316–3
	Nickel	0.5	+/–2	U	0.5	2.0	MS	16–MAR–06 16:10	060316–3
	Silver	0.2	+/–1	U	0.2	1.0	MS	16–MAR–06 16:10	060316–3
CCB05									
	Aluminum	68.0	+/–200	U	68.0	200	P	14–MAR–06 12:10	031406A–2
	Arsenic	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 12:10	031406A–2
	Barium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 12:10	031406A–2
	Cadmium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 12:10	031406A–2
	Calcium	36.0	+/–100	U	36.0	100	P	14–MAR–06 12:10	031406A–2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 12:10	031406A-2
	Cobalt	2.0	+/-5	U	2.0	5.0	P	14-MAR-06 12:10	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 12:10	031406A-2
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 12:10	031406A-2
	Lead	2.5	+/-10	U	2.5	10.0	P	14-MAR-06 12:10	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 12:10	031406A-2
	Manganese	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 12:10	031406A-2
	Potassium	61.3	+/-150	B	50.0	150	P	14-MAR-06 12:10	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 12:10	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 12:10	031406A-2
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 12:10	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 12:10	031406A-2
CCB06									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 13:28	031406A-2
	Arsenic	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 13:28	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 13:28	031406A-2
	Cadmium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 13:28	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 13:28	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 13:28	031406A-2
	Cobalt	2.0	+/-5	U	2.0	5.0	P	14-MAR-06 13:28	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 13:28	031406A-2
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 13:28	031406A-2
	Lead	2.5	+/-10	U	2.5	10.0	P	14-MAR-06 13:28	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 13:28	031406A-2
	Manganese	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 13:28	031406A-2
	Potassium	50.0	+/-150	U	50.0	150	P	14-MAR-06 13:28	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 13:28	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 13:28	031406A-2
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 13:28	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 13:28	031406A-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
CCB07									
	Aluminum	68.0	+/–200	U	68.0	200	P	14–MAR–06 14:25	031406A–2
	Arsenic	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 14:25	031406A–2
	Barium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 14:25	031406A–2
	Cadmium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 14:25	031406A–2
	Calcium	36.0	+/–100	U	36.0	100	P	14–MAR–06 14:25	031406A–2
	Chromium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 14:25	031406A–2
	Cobalt	2.0	+/–5	U	2.0	5.0	P	14–MAR–06 14:25	031406A–2
	Copper	3.0	+/–10	U	3.0	10.0	P	14–MAR–06 14:25	031406A–2
	Iron	18.0	+/–100	U	18.0	100	P	14–MAR–06 14:25	031406A–2
	Lead	2.5	+/–10	U	2.5	10.0	P	14–MAR–06 14:25	031406A–2
	Magnesium	85.0	+/–300	U	85.0	300	P	14–MAR–06 14:25	031406A–2
	Manganese	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 14:25	031406A–2
	Potassium	50.0	+/–150	U	50.0	150	P	14–MAR–06 14:25	031406A–2
	Selenium	6.0	+/–15	U	6.0	15.0	P	14–MAR–06 14:25	031406A–2
	Sodium	45.0	+/–150	U	45.0	150	P	14–MAR–06 14:25	031406A–2
	Vanadium	1.0	+/–5	U	1.0	5.0	P	14–MAR–06 14:25	031406A–2
	Zinc	2.0	+/–10	U	2.0	10.0	P	14–MAR–06 14:25	031406A–2

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 4726S

Contract: LANL00600

Matrix: SOIL

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M	MDL	RDL
1201049243								
	Arsenic	600	ug/kg	+/-1500	U	P	600	1500
	Barium	100	ug/kg	+/-500	U	P	100	500
	Cadmium	100	ug/kg	+/-500	U	P	100	500
	Calcium	4117.9	ug/kg	+/-10000	B	P	3600	10000
	Chromium	111.84	ug/kg	+/-500	B	P	100	500
	Cobalt	200	ug/kg	+/-500	U	P	200	500
	Copper	300	ug/kg	+/-1000	U	P	300	1000
	Iron	1800	ug/kg	+/-10000	U	P	1800	10000
	Lead	250	ug/kg	+/-1000	U	P	250	1000
	Aluminum	6800	ug/kg	+/-20000	U	P	6800	20000
	Magnesium	8500	ug/kg	+/-30000	U	P	8500	30000
	Manganese	200	ug/kg	+/-1000	U	P	200	1000
	Potassium	5000	ug/kg	+/-15000	U	P	5000	15000
	Selenium	600	ug/kg	+/-1500	U	P	600	1500
	Sodium	4500	ug/kg	+/-15000	U	P	4500	15000
	Vanadium	100	ug/kg	+/-500	U	P	100	500
	Zinc	561.59	ug/kg	+/-1000	B	P	200	1000
1201049313								
	Antimony	100	ug/kg	+/-400	U	MS	100	400
	Beryllium	20	ug/kg	+/-100	U	MS	20	100
	Nickel	100	ug/kg	+/-400	U	MS	100	400
	Silver	40	ug/kg	+/-200	U	MS	40	200
	Thallium	80	ug/kg	+/-200	U	MS	80	200
1201049446								
	Mercury	2.5	ug/kg	+/-10.0	U	AV	2.5	10

METALS
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Interference Check Sample

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Aluminum	520110	ug/L	500000	ug/L	104	80.0 – 120.0	14–MAR–06 07:45	031406A–2
	Arsenic	6.08	ug/L					14–MAR–06 07:45	031406A–2
	Barium	0.354	ug/L					14–MAR–06 07:45	031406A–2
	Cadmium	–6.96	ug/L					14–MAR–06 07:45	031406A–2
	Calcium	481570	ug/L	500000	ug/L	96.3	80.0 – 120.0	14–MAR–06 07:45	031406A–2
	Chromium	–0.384	ug/L					14–MAR–06 07:45	031406A–2
	Cobalt	–0.099	ug/L					14–MAR–06 07:45	031406A–2
	Copper	–1.05	ug/L					14–MAR–06 07:45	031406A–2
	Iron	190410	ug/L	200000	ug/L	95.2	80.0 – 120.0	14–MAR–06 07:45	031406A–2
	Lead	–7.65	ug/L					14–MAR–06 07:45	031406A–2
	Magnesium	513900	ug/L	500000	ug/L	103	80.0 – 120.0	14–MAR–06 07:45	031406A–2
	Manganese	5.8	ug/L					14–MAR–06 07:45	031406A–2
	Potassium	18.63	ug/L					14–MAR–06 07:45	031406A–2
	Selenium	–5.88	ug/L					14–MAR–06 07:45	031406A–2
	Sodium	48.26	ug/L					14–MAR–06 07:45	031406A–2
	Vanadium	–4.51	ug/L					14–MAR–06 07:45	031406A–2
	Zinc	11.99	ug/L					14–MAR–06 07:45	031406A–2
ICSAB01									
	Aluminum	519030	ug/L	500000	ug/L	104	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Arsenic	514.51	ug/L	500	ug/L	103	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Barium	485.13	ug/L	500	ug/L	97	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Cadmium	452.57	ug/L	500	ug/L	90.5	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Calcium	478380	ug/L	500000	ug/L	95.7	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Chromium	485.67	ug/L	500	ug/L	97.1	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Cobalt	448.99	ug/L	500	ug/L	89.8	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Copper	531.15	ug/L	500	ug/L	106	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Iron	189180	ug/L	200000	ug/L	94.6	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Lead	449.97	ug/L	500	ug/L	90	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Magnesium	509590	ug/L	500000	ug/L	102	80.0 – 120.0	14–MAR–06 07:51	031406A–2

METALS
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Interference Check Sample

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Manganese	482.82	ug/L	500	ug/L	96.6	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Potassium	5945.5	ug/L	5000	ug/L	119	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Selenium	2430	ug/L	2500	ug/L	97.2	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Sodium	5656.2	ug/L	5000	ug/L	113	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Vanadium	487.32	ug/L	500	ug/L	97.5	80.0 – 120.0	14–MAR–06 07:51	031406A–2
	Zinc	506.86	ug/L	500	ug/L	101	80.0 – 120.0	14–MAR–06 07:51	031406A–2

METALS
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Interference Check Sample

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Antimony	0.563	ug/L					16–MAR–06 14:53	060316–3
	Beryllium	–0.019	ug/L					16–MAR–06 14:53	060316–3
	Nickel	2.46	ug/L					16–MAR–06 14:53	060316–3
	Silver	0.079	ug/L					16–MAR–06 14:53	060316–3
ICSAB01									
	Antimony	22.4	ug/L	20.5	ug/L	109	80.0 – 120.0	16–MAR–06 14:56	060316–3
	Beryllium	18.34	ug/L	20	ug/L	91.7	80.0 – 120.0	16–MAR–06 14:56	060316–3
	Nickel	20.97	ug/L	22.4	ug/L	93.6	80.0 – 120.0	16–MAR–06 14:56	060316–3
	Silver	19.93	ug/L	20	ug/L	99.6	80.0 – 120.0	16–MAR–06 14:56	060316–3

METALS
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Interference Check Sample

SDG No: 4726S

Contract: LANL00600 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Thallium	–0.057	ug/L					16–MAR–06 17:03	060316–7
ICSAB01									
	Thallium	20.04	ug/L	20	ug/L	100	80.0 – 120.0	16–MAR–06 17:05	060316–7

METALS
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Matrix Spike Summary

SDG NO. 4726S **Client ID** RE19-06-67496S

Contract: LANL00600 **Level:** Low

Matrix: SOIL **% Solids:** 98.8

Sample ID: 157896001 **Spike ID:** 1201049246

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/kg	75-125	1850000		995000		490000	174	N	P
Arsenic	ug/kg	75-125	51600		1900		49000	101		P
Barium	ug/kg	75-125	55100		4100		49000	104		P
Cadmium	ug/kg	75-125	47800		97.3	U	49000	97.5		P
Calcium	ug/kg	75-125	1730000		1090000		490000	129	N	P
Chromium	ug/kg	75-125	50700		1490		49000	100		P
Cobalt	ug/kg	75-125	48900		333	B	49000	99		P
Copper	ug/kg	75-125	51700		1260		49000	103		P
Iron	ug/kg		2310000		2140000		490000	34	N/A	P
Lead	ug/kg	75-125	61600		13400		49000	98.2		P
Magnesium	ug/kg	75-125	667000		117000		490000	112		P
Manganese	ug/kg	75-125	190000		147000		49000	88.5		P
Potassium	ug/kg	75-125	1400000		635000		490000	156	N	P
Selenium	ug/kg	75-125	44700		584	U	49000	91.2		P
Sodium	ug/kg	75-125	1120000		431000		490000	141	N	P
Vanadium	ug/kg	75-125	52000		1160		49000	104		P
Zinc	ug/kg	75-125	60900		14800		49000	94		P

METALS
-5a-
Matrix Spike Duplicate Summary

SDG NO. 4726S **Client ID** RE19-06-67496SD

Contract: LANL00600 **Level:** Low

Matrix: SOIL **% Solids:** 98.8

Sample ID: 157896001 **Spike ID:** 1201049248

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/kg	75-125	1760000		995000		484000	157	N	P
Arsenic	ug/kg	75-125	52000		1900		48400	104		P
Barium	ug/kg	75-125	55400		4100		48400	106		P
Cadmium	ug/kg	75-125	47900		97.3	U	48400	99		P
Calcium	ug/kg	75-125	1660000		1090000		484000	118		P
Chromium	ug/kg	75-125	51400		1490		48400	103		P
Cobalt	ug/kg	75-125	49100		333	B	48400	101		P
Copper	ug/kg	75-125	52300		1260		48400	105		P
Iron	ug/kg		2230000		2140000		484000	18.9	N/A	P
Lead	ug/kg	75-125	62600		13400		48400	102		P
Magnesium	ug/kg	75-125	664000		117000		484000	113		P
Manganese	ug/kg	75-125	195000		147000		48400	99.7		P
Potassium	ug/kg	75-125	1330000		635000		484000	144	N	P
Selenium	ug/kg	75-125	45800		584	U	48400	94.6		P
Sodium	ug/kg	75-125	1070000		431000		484000	133	N	P
Vanadium	ug/kg	75-125	52600		1160		48400	106		P
Zinc	ug/kg	75-125	62200		14800		48400	97.8		P

METALS
-5a-
Matrix Spike Summary

SDG NO. 4726S **Client ID** RE19-06-67496S

Contract: LANL00600 **Level:** Low

Matrix: SOIL **% Solids:** 98.8

Sample ID: 157896001 **Spike ID:** 1201049316

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/kg	75-125	9060		101	U	9960	91		MS
Beryllium	ug/kg	75-125	4810		129		4980	93.9		MS
Nickel	ug/kg	75-125	5000		320	B	4980	93.9		MS
Silver	ug/kg	75-125	4890		40.5	U	4980	97.4		MS
Thallium	ug/kg	75-125	5350		405	U	4980	107		MS

METALS
–5a–

Matrix Spike Duplicate Summary

SDG NO.	4726S	**Client ID**	MD50–06–64838SD
Contract:	LANL00600	**Level:**	Low
Matrix:	SOIL	**% Solids:**	95.4
Sample ID:	157894001	**Spike ID:**	1201049319

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/kg	75–125	8610		104	U	10100	85.3		MS
Beryllium	ug/kg	75–125	4640		365		5030	85		MS
Nickel	ug/kg	75–125	4740		1180		5030	70.7	N	MS
Silver	ug/kg	75–125	4560		41.6	U	5030	90.1		MS
Thallium	ug/kg	75–125	5280		104	B	5030	103		MS

METALS
-5a-

Matrix Spike Summary

SDG NO.	4726S	**Client ID**	RE19-06-67496S
Contract:	LANL00600	**Level:**	Low
Matrix:	SOIL	**% Solids:**	98.8
Sample ID:	157896001	**Spike ID:**	1201049449

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	105		4.06	B	101	99.5		AV

METALS
–5a–

Matrix Spike Duplicate Summary

SDG NO.	4726S	Client ID	RE19–06–67496SD
Contract:	LANL00600	Level:	Low
Matrix:	SOIL	% Solids:	98.8
Sample ID:	157896001	Spike ID:	1201049455

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75–125	101		4.06	B	97.8	99.2		AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE19–06–67496D

Sample ID: 157896001 **Duplicate ID:** 1201049245 **Percent Solids for Dup:** 98.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/kg	+/–20%	995000		890000		11.1		P
Arsenic	ug/kg	+/–1500	1900		1900		.0797		P
Barium	ug/kg	+/–20%	4100		4760		15		P
Cadmium	ug/kg		97.3	U	100	U			P
Calcium	ug/kg	+/–20%	1090000		935000		15.5		P
Chromium	ug/kg	+/–500	1490		1580		5.89		P
Cobalt	ug/kg	+/–500	333	B	389	B	15.5		P
Copper	ug/kg	+/–1000	1260		1210		3.57		P
Iron	ug/kg	+/–20%	2140000		2450000		13.4		P
Lead	ug/kg	+/–20%	13400		13800		3.1		P
Magnesium	ug/kg	+/–30000	117000		87700		28.3		P
Manganese	ug/kg	+/–20%	147000		165000		11.8		P
Potassium	ug/kg	+/–20%	635000		547000		14.9		P
Selenium	ug/kg		584	U	600	U			P
Sodium	ug/kg	+/–20%	431000		375000		14		P
Vanadium	ug/kg	+/–500	1160		1550		28.5		P
Zinc	ug/kg	+/–20%	14800		15700		5.48		P

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE19–06–67496SD

Sample ID: 1201049246 **Duplicate ID:** 1201049248 **Percent Solids for Dup:** 98.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/kg	+/–20	1850000		1760000		5.21		P
Arsenic	ug/kg	+/–20	51600		52000		.798		P
Barium	ug/kg	+/–20	55100		55400		.453		P
Cadmium	ug/kg	+/–20	47800		47900		.203		P
Calcium	ug/kg	+/–20	1730000		1660000		3.81		P
Chromium	ug/kg	+/–20	50700		51400		1.34		P
Cobalt	ug/kg	+/–20	48900		49100		.512		P
Copper	ug/kg	+/–20	51700		52300		.997		P
Iron	ug/kg	+/–20	2310000		2230000		3.32		P
Lead	ug/kg	+/–20	61600		62600		1.75		P
Magnesium	ug/kg	+/–20	667000		664000		.504		P
Manganese	ug/kg	+/–20	190000		195000		2.5		P
Potassium	ug/kg	+/–20	1400000		1330000		5.05		P
Selenium	ug/kg	+/–20	44700		45800		2.31		P
Sodium	ug/kg	+/–20	1120000		1070000		4.42		P
Vanadium	ug/kg	+/–20	52000		52600		1.25		P
Zinc	ug/kg	+/–20	60900		62200		2.05		P

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE19–06–67496D

Sample ID: 157896001 **Duplicate ID:** 1201049315 **Percent Solids for Dup:** 98.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/kg		101	U	100	U			MS
Beryllium	ug/kg	+/–100	129		121		5.86		MS
Nickel	ug/kg	+/–400	320	B	310	B	3.43		MS
Silver	ug/kg		40.5	U	40	U			MS
Thallium	ug/kg		405	U	400	U			MS

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** MD50–06–64838SD

Sample ID: 1201049316 **Duplicate ID:** 1201049319 **Percent Solids for Dup:** 95.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/kg	+/–20	9060		8610		5.09		MS
Beryllium	ug/kg	+/–20	4810		4640		3.49		MS
Nickel	ug/kg	+/–20	5000		4740		5.3		MS
Silver	ug/kg	+/–20	4890		4560		6.9		MS
Thallium	ug/kg	+/–20	5350		5280		1.23		MS

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE19–06–67496D

Sample ID: 157896001 **Duplicate ID:** 1201049448 **Percent Solids for Dup:** 98.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/–9.94	4.06	B	5.42	B	28.7		AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S

Contract: LANL00600 **Lab Code:** GEL

Matrix: SOLID **Level:** Low **Client ID:** RE19–06–67496SD

Sample ID: 1201049449 **Duplicate ID:** 1201049455 **Percent Solids for Dup:** 98.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/–20	105		101		3.48		AV

METALS
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Laboratory Control Sample Summary

SDG NO. 4726S

Contract: LANL00600

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049244								
	Aluminum	ug/kg	7730000	10200000		132	57.8–142.3	P
	Arsenic	ug/kg	257000	251000		97.5	79.8–120.2	P
	Barium	ug/kg	472000	475000		101	82–118	P
	Cadmium	ug/kg	117000	107000		91.4	81.5–118.8	P
	Calcium	ug/kg	3640000	3680000		101	79.1–120.9	P
	Chromium	ug/kg	72800	70500		96.8	78.6–121.4	P
	Cobalt	ug/kg	82500	82400		99.9	81.8–118.2	P
	Copper	ug/kg	100000	100000		100	82.6–118	P
	Iron	ug/kg	14500000	15600000		107	50.6–149	P
	Lead	ug/kg	166000	162000		97.7	80.7–119.3	P
	Magnesium	ug/kg	3000000	3230000		108	77–123	P
	Manganese	ug/kg	374000	372000		99.5	79.9–120.1	P
	Potassium	ug/kg	2410000	2810000		116	71.4–128.6	P
	Selenium	ug/kg	173000	162000		93.5	75.7–124.3	P
	Sodium	ug/kg	574000	572000		99.6	55.6–144.4	P
	Vanadium	ug/kg	138000	141000		102	74.6–125.4	P
	Zinc	ug/kg	201000	190000		94.4	79.1–120.4	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 4726S

Contract: LANL00600

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049314								
	Antimony	ug/kg	55800	32200		57.6	1.8–274.2	MS
	Beryllium	ug/kg	86400	87000		101	77.3–122.7	MS
	Nickel	ug/kg	101000	104000		103	81.2–118.8	MS
	Silver	ug/kg	116000	28900		25	31–169	MS
	Thallium	ug/kg	203000	219000		108	76.4–123.6	MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 4726S

Contract: LANL00600

Aqueous LCS Source: **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049447								
	Mercury	ug/kg	4180	4220		101	68.2–132.1	AV

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 4726S **Client ID** RE19-06-67496L

Contract: LANL00600

Matrix: SOLID **Level:** Low

Sample ID: 157896001 **Serial Dilution ID:** 1201049247

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	10200		10400		1.96		10	P
Arsenic	19.5		30	U	100			P
Barium	42.1		41.15		2.26			P
Cadmium	1	U	5	U				P
Calcium	11200		11200		0		10	P
Chromium	15.4		14.55	B	5.52			P
Cobalt	3.42	B	10	U	100			P
Copper	12.9		15	U	100			P
Iron	22000		21950		.227		10	P
Lead	137		140		2.19		10	P
Magnesium	1200		1195	B	.417			P
Manganese	1510		1495		.993		10	P
Potassium	6530		6700		2.6		10	P
Selenium	6	U	30	U				P
Sodium	4430		4265		3.72		10	P
Vanadium	11.9		12.2	B	2.52			P
Zinc	152		161.5		6.25		10	P

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 4726S **Client ID** RE19-06-67496L

Contract: LANL00600

Matrix: SOLID **Level:** Low

Sample ID: 157896001 **Serial Dilution ID:** 1201049317

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	.5	U	2.5	U				MS
Beryllium	.636		.655	B	2.99			MS
Nickel	1.58	B	2.5	U	100			MS
Silver	.2	U	1	U				MS
Thallium	.4	U	2	U				MS

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 4726S **Client ID** RE19-06-67496L

Contract: LANL00600

Matrix: SOLID **Level:** Low

Sample ID: 157896001 **Serial Dilution ID:** 1201049454

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.0813	B	.25	U	100			AV

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 4726S **Method Type:** P

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	510922						
1201049243	MB for batch 510922	MB	SOIL	13–MAR–06	.5g	50mL	
1201049244	LCS for batch 510922	LCS	SOIL	13–MAR–06	.508g	50mL	
1201049246	RE19–06–67496S	MS	SOIL	13–MAR–06	.516g	50mL	98.8
1201049248	RE19–06–67496SD	MSD	SOIL	13–MAR–06	.523g	50mL	98.8
1201049245	RE19–06–67496D	DUP	SOIL	13–MAR–06	.506g	50mL	98.8
157896001	RE19–06–67496	SAMPLE	SOIL	13–MAR–06	.52g	50mL	98.8
157896002	RE19–06–67497	SAMPLE	SOIL	13–MAR–06	.504g	50mL	99.08
157896003	RE19–06–67499	SAMPLE	SOIL	13–MAR–06	.509g	50mL	98.6
157896004	RE19–06–67500	SAMPLE	SOIL	13–MAR–06	.51g	50mL	99.11
157896005	RE19–06–67501	SAMPLE	SOIL	13–MAR–06	.525g	50mL	99.31
157896006	RE19–06–67505	SAMPLE	SOIL	13–MAR–06	.511g	50mL	99.49
157896007	RE19–06–67506	SAMPLE	SOIL	13–MAR–06	.513g	50mL	99.71

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 4726S **Method Type:** MS

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number 510960							
1201049313	MB for batch 510960	MB	SOIL	13-MAR-06	.5g	50mL	
1201049314	LCS for batch 510960	LCS	SOIL	13-MAR-06	.513g	50mL	
1201049316	RE19-06-67496S	MS	SOIL	13-MAR-06	.508g	50mL	98.8
1201049319	MD50-06-64838SD	MSD	SOIL	13-MAR-06	.521g	50mL	95.4
1201049315	RE19-06-67496D	DUP	SOIL	13-MAR-06	.506g	50mL	98.8
157896001	RE19-06-67496	SAMPLE	SOIL	13-MAR-06	.5g	50mL	98.8
157896002	RE19-06-67497	SAMPLE	SOIL	13-MAR-06	.512g	50mL	99.08
157896003	RE19-06-67499	SAMPLE	SOIL	13-MAR-06	.502g	50mL	98.6
157896004	RE19-06-67500	SAMPLE	SOIL	13-MAR-06	.521g	50mL	99.11
157896005	RE19-06-67501	SAMPLE	SOIL	13-MAR-06	.512g	50mL	99.31
157896006	RE19-06-67505	SAMPLE	SOIL	13-MAR-06	.51g	50mL	99.49
157896007	RE19-06-67506	SAMPLE	SOIL	13-MAR-06	.525g	50mL	99.71

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 4726S **Method Type:** AV

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	511022						
1201049446	MB for batch 511022	MB	SOIL	14–MAR–06	.6g	30mL	
1201049447	LCS for batch 511022	LCS	SOIL	14–MAR–06	.206g	30mL	
1201049449	RE19–06–67496S	MS	SOIL	14–MAR–06	.601g	30mL	98.8
1201049455	RE19–06–67496SD	MSD	SOIL	14–MAR–06	.621g	30mL	98.8
1201049448	RE19–06–67496D	DUP	SOIL	14–MAR–06	.611g	30mL	98.8
157896001	RE19–06–67496	SAMPLE	SOIL	14–MAR–06	.608g	30mL	98.8
157896002	RE19–06–67497	SAMPLE	SOIL	14–MAR–06	.609g	30mL	99.08
157896003	RE19–06–67499	SAMPLE	SOIL	14–MAR–06	.64g	30mL	98.6
157896004	RE19–06–67500	SAMPLE	SOIL	14–MAR–06	.615g	30mL	99.11
157896005	RE19–06–67501	SAMPLE	SOIL	14–MAR–06	.622g	30mL	99.31
157896006	RE19–06–67505	SAMPLE	SOIL	14–MAR–06	.613g	30mL	99.49
157896007	RE19–06–67506	SAMPLE	SOIL	14–MAR–06	.623g	30mL	99.71

Metals
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Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: OPTIMA2
Start Date: 14-MAR-06 **End Date:** 14-MAR-06

Client Sdg: 4726S
Method P
Data File: 031406A-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0	1	06:52	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
S0.1	1	07:00	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
S0.5	1	07:06	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
SCAL	1	07:13	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
S10	1	07:19	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ICV01	1	07:24	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ICB01	1	07:31	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
PQL01	1	07:38	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ICSA01	1	07:45	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ICSAB01	1	07:51	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	1	07:57																							
ZZZZZZ	1	08:04																							
CCV01	1	08:12	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB01	1	08:20	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	1	08:40																							
ZZZZZZ	1	08:47																							
ZZZZZZ	1	08:54																							
ZZZZZZ	1	09:01																							
ZZZZZZ	1	09:08																							
ZZZZZZ	5	09:15																							
ZZZZZZ	1	09:22																							
ZZZZZZ	1	09:29																							
ZZZZZZ	1	09:36																							
CCV02	1	09:43	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB02	1	09:50	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	1	10:02																							
ZZZZZZ	1	10:12																							
CCV03	1	10:19	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB03	1	10:26	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	1	10:34																							
ZZZZZZ	2	10:41																							
ZZZZZZ	1	10:48																							
ZZZZZZ	1	10:55																							
ZZZZZZ	1	11:02																							
ZZZZZZ	1	11:08																							
CCV04	1	11:20	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB04	1	11:27	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	20	11:34																							
ZZZZZZ	50	11:41																							
ZZZZZZ	100	11:48																							

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																							
ZZZZZZ	200	11:55																							
CCV05	1	12:03	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB05	1	12:10	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049243	1	12:18	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049244	2	12:25	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896001	1	12:32	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049245	1	12:39	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049246	1	12:46	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049248	1	12:53	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
1201049247	5	13:00	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
ZZZZZZ	1	13:06																							
ZZZZZZ	1	13:14																							
CCV06	1	13:21	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB06	1	13:28	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896002	1	13:35	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896003	1	13:42	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896004	1	13:49	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896005	1	13:56	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896006	1	14:03	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
157896007	1	14:11	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCV07	1	14:18	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X
CCB07	1	14:25	X		X	X		X	X	X	X	X	X	X	X	X			X	X		X		X	X

Metals
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Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 16-MAR-06 **End Date:** 16-MAR-06

Client Sdg: 4726S
Method MS
Data File: 060316-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Blank	1	14:35:00		X			X											X			X				
Standard 1	1	14:38:00		X			X											X			X				
Standard 2	1	14:41:00		X			X											X			X				
ICV01	1	14:44:00		X			X											X			X				
ICB01	1	14:47:00		X			X											X			X				
CRDL01	1	14:50:00		X			X											X			X				
ICSA01	1	14:53:00		X			X											X			X				
ICSAB01	1	14:56:00		X			X											X			X				
CCV01	1	15:00:00		X			X											X			X				
CCB01	1	15:03:00		X			X											X			X				
ZZZZZZ	1	15:06:00																							
CCV02	1	15:09:00		X			X											X			X				
CCB02	1	15:12:00		X			X											X			X				
1201049313	2	15:15:00		X			X											X			X				
1201049314	40	15:18:00		X			X											X			X				
ZZZZZZ	2	15:21:00																							
ZZZZZZ	2	15:24:00																							
157896001	2	15:27:00		X			X											X			X				
1201049315	2	15:30:00		X			X											X			X				
1201049316	2	15:33:00		X			X											X			X				
1201049319	2	15:36:00		X			X											X			X				
1201049317	10	15:40:00		X			X											X			X				
CCV03	1	15:43:00		X			X											X			X				
CCB03	1	15:46:00		X			X											X			X				
157896002	2	15:49:00		X			X											X			X				
157896003	2	15:52:00		X			X											X			X				
157896004	2	15:55:00		X			X											X			X				
157896005	2	15:58:00		X			X											X			X				
157896006	2	16:01:00		X			X											X			X				
157896007	2	16:04:00		X			X											X			X				
CCV04	1	16:07:00		X			X											X			X				
CCB04	1	16:10:00		X			X											X			X				

Metals
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Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 16–MAR–06 **End Date:** 16–MAR–06

Client Sdg: 4726S
Method MS
Data File: 060316–7

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Blank	1	16:47:00																					X		
Standard 1	1	16:50:00																					X		
Standard 2	1	16:52:00																					X		
ICV01	1	16:55:00																					X		
ICB01	1	16:57:00																					X		
CRDL01	1	17:00:00																					X		
ICSA01	1	17:03:00																					X		
ICSAB01	1	17:05:00																					X		
CCV01	1	17:08:00																					X		
CCB01	1	17:10:00																					X		
1201049313	2	17:13:00																					X		
1201049314	40	17:16:00																					X		
ZZZZZZ	2	17:18:00																							
ZZZZZZ	2	17:21:00																							
ZZZZZZ	2	17:23:00																							
157896001	10	17:29:00																					X		
1201049315	10	17:32:00																					X		
1201049316	10	17:34:00																					X		
1201049319	10	17:37:00																					X		
1201049317	50	17:39:00																					X		
CCV02	1	17:42:00																					X		
CCB02	1	17:45:00																					X		
157896002	10	17:47:00																					X		
157896003	10	17:50:00																					X		
157896004	10	17:53:00																					X		
157896005	10	17:55:00																					X		
157896006	10	17:58:00																					X		
157896007	10	18:01:00																					X		
CCV03	1	18:03:00																					X		
CCB03	1	18:06:00																					X		

Metals
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Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: MER179
Start Date: 15–MAR–06 **End Date:** 15–MAR–06

Client Sdg: 4726S
Method AV
Data File: 031506S1–1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
SCalib Blank	1	10:54															X								
S0.2	1	10:56															X								
S0.5	1	10:58															X								
S2.0	1	11:00															X								
S5.0	1	11:02															X								
S10	1	11:04															X								
ICV01	1	11:06															X								
ICB01	1	11:08															X								
CRDL01	1	11:10															X								
CCV01	1	11:12															X								
CCB01	1	11:14															X								
ZZZZZZ	1	11:16																							
ZZZZZZ	10	11:18																							
ZZZZZZ	1	11:20																							
ZZZZZZ	1	11:22																							
ZZZZZZ	1	11:24																							
ZZZZZZ	1	11:26																							
ZZZZZZ	1	11:28																							
ZZZZZZ	5	11:30																							
ZZZZZZ	1	11:32																							
ZZZZZZ	1	11:34																							
CCV02	1	11:36															X								
CCB02	1	11:38															X								
1201049446	1	11:40															X								
1201049447	10	11:42															X								
157896001	1	11:44															X								
1201049448	1	11:46															X								
1201049449	1	11:48															X								
1201049455	1	11:50															X								
1201049454	5	11:52															X								
157896002	1	11:54															X								
157896003	1	11:56															X								
157896004	1	11:58															X								
CCV03	1	12:00															X								
CCB03	1	12:02															X								
157896005	1	12:04															X								
157896006	1	12:06															X								
157896007	1	12:08															X								
ZZZZZZ	1	12:10																							
ZZZZZZ	1	12:12																							

Metals
–14–
Analysis Run Log

Samp No.	D/F	Run Time																						
ZZZZZZ	1	12:14																						
ZZZZZZ	1	12:16																						
ZZZZZZ	1	12:18																						
ZZZZZZ	1	12:20																						
ZZZZZZ	1	12:22																						
CCV04	1	12:24														X								
CCB04	1	12:26														X								

Standards

METALS
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Instrument Detection Limits

SDG NO. 4726S

Contract: LANL00600 **Lab Code: GEL** **MDL Effective Date:** 01-APR-05

ICP/MS	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
	Aluminum		5.0	15
	Antimony		0.5	2
	Arsenic		1.5	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		40.0	100
	Chromium		1.0	3
	Cobalt		0.1	1
	Copper		0.2	1
	Iron		10.0	25
	Lead		0.5	2
	Magnesium		5.0	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.4	1
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 4726S

Contract: LANL00600 **Lab Code: GEL** **MDL Effective Date:** 01-APR-05

	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
MERCURY	Mercury		0.05	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 4726S

Contract: LANL00600 **Lab Code: GEL** **MDL Effective Date:** 01-APR-05

ICP	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
	Aluminum	308.215	68.0	200
	Antimony	206.838	4.0	10
	Arsenic	193.696	6.0	15
	Barium	493.409	1.0	5
	Beryllium	313.042	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	36.0	100
	Chromium	267.716	1.0	5
	Cobalt	228.616	2.0	5
	Copper	324.754	3.0	10
	Iron	259.94	18.0	100
	Lead	220.353	2.5	10
	Magnesium	279.078	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.0	5
	Potassium	766.491	50.0	150
	Selenium	196.026	6.0	15
	Silver	328.068	1.0	5
	Sodium	588.995	45.0	150
	Thallium	190.864	5.0	20
	Vanadium	292.402	1.0	5
	Zinc	213.856	2.0	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.09589	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.40018	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.09677	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.03066	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.21605	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	-0.03816	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Boron	Cadmium	Calcium	Chromium	Cobalt
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-0.59504	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	-11.0358	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	-0.13503	0.00000
	313.107	0.00000	0.00000	0.00000	-0.13621	0.00000
Boron	249.677	0.00000	0.00000	0.00000	-3.12463	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.14904	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	-12.0418
Lead	220.353	0.00000	0.00000	0.00000	-0.29929	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	-0.01513	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	-0.04127	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.02812	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	-0.07613	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	-0.02020	0.28042	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	1.33267	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-2.48760	0.00000
Zinc	213.857	0.00000	0.00000	0.02717	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
GEL Job No: 4726S
Contract: LANL00600
Instrument: OPTIMA2
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Copper	Iron	Lead	Lithium	Magnesium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	-0.11463	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.01172	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.29522	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.06198	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.01884	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.76627	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.73488	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	-0.10250	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.02463	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-14.2887	1.07574	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.02882
Silica	251.611	0.00000	-0.11584	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	-0.11584	0.00000	0.00000	0.00000
Silver	328.068	0.00000	-0.16743	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-0.00268	0.00000	0.00000	0.00000
Tin	189.927	0.00000	-0.07040	0.00000	0.00000	-0.04068
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	2.11242	0.10406	0.00000	0.00000	0.02178

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Manganese	Molybdenum	Nickel	Phosphorous	Potassium
Aluminum	396.153	0.00000	46.4981	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-8.50943	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	-0.37094	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.29182	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	-2.08692	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.79197	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.22433	0.00000	0.14490	0.00000
Cobalt	228.616	0.00000	-1.56632	0.00000	0.00000	0.00000
Copper	324.752	0.11682	0.61635	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	-1.47225	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	-33.4879	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	-2.24961	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	10.0812	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	32.0230	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	37.9357	0.00000	0.00000	0.00000
Silver	328.068	0.00000	-0.17079	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	2.95521	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	-8.03630	0.00000	0.00000	0.00000
Thallium	190.801	-0.35043	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00512	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	-9.62026	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
GEL Job No: 4726S
Contract: LANL00600
Instrument: OPTIMA2
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Selenium	Silica	Silicon	Silver	Sodium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Strontium	Sulfur	Thallium	Tin	Titanium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.05288
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.38922
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	2.68640	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	2.68640	0.00000
Silver	328.068	0.00000	0.00000	-2.31806	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	-0.09624
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.13445
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-0.96132	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.67410	0.00000
Beryllium	233.527	-0.18887	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000
Cadmium	226.502	-0.22683	0.00000	0.00000
Calcium	317.933	-5.57052	0.00000	0.00000
Chromium	267.716	0.00000	-0.83702	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.752	0.97899	-0.25575	0.00000
Iron	238.204	0.00000	0.00000	0.00000
Lead	220.353	0.00000	1.26086	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000
Selenium	196.026	-3.66566	1.64408	0.00000
Silica	251.611	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	-0.26656	0.00000
Thallium	190.801	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.52742	0.00000
Uranium	409.014	0.00000	-6.78198	0.00000
Vanadium	292.402	-1.10111	0.00000	0.00000
Zinc	213.857	-0.11998	-0.20118	0.00000

METALS
–12–
Linear Ranges

SDG NO. 4726S

Contract: LANL00600 **Lab Code: GEL**

Instrument ID ICPMS5

Analyte	Integration Time	LDR	Units	Effective Date
Aluminum		50000	ug/L	01–FEB–06
Antimony		2500	ug/L	20–OCT–05
Arsenic		500	ug/L	20–OCT–05
Barium		5000	ug/L	20–OCT–05
Beryllium		1000	ug/L	01–FEB–06
Cadmium		1000	ug/L	20–OCT–05
Calcium		50000	ug/L	01–FEB–06
Chromium		5000	ug/L	20–OCT–05
Cobalt		2500	ug/L	01–FEB–06
Copper		5000	ug/L	20–OCT–05
Iron		50000	ug/L	20–OCT–05
Lead		5000	ug/L	20–OCT–05
Magnesium		50000	ug/L	01–FEB–06
Manganese		5000	ug/L	20–OCT–05
Nickel		5000	ug/L	20–OCT–05
Potassium		50000	ug/L	20–OCT–05
Selenium		500	ug/L	01–FEB–06
Silver		250	ug/L	01–FEB–06
Sodium		50000	ug/L	20–OCT–05
Thallium		5000	ug/L	20–OCT–05
Vanadium		5000	ug/L	01–FEB–06
Zinc		5000	ug/L	20–OCT–05

METALS
–12–
Linear Ranges

SDG NO. 4726S

Contract: LANL00600 **Lab Code: GEL**

Instrument ID OPTIMA2

Analyte	Integration Time	LDR	Units	Effective Date
Aluminum		500000	ug/L	01–FEB–06
Antimony		50000	ug/L	01–NOV–05
Arsenic		50000	ug/L	01–NOV–05
Barium		15000	ug/L	01–NOV–05
Beryllium		3000	ug/L	01–FEB–06
Cadmium		25000	ug/L	01–NOV–05
Calcium		500000	ug/L	01–FEB–06
Chromium		25000	ug/L	01–FEB–06
Cobalt		10000	ug/L	01–FEB–06
Copper		25000	ug/L	01–NOV–05
Iron		500000	ug/L	01–NOV–05
Lead		50000	ug/L	01–NOV–05
Magnesium		500000	ug/L	01–FEB–06
Manganese		10000	ug/L	01–NOV–05
Nickel		50000	ug/L	01–NOV–05
Potassium		500000	ug/L	01–NOV–05
Selenium		10000	ug/L	01–FEB–06
Silver		1000	ug/L	01–FEB–06
Sodium		300000	ug/L	01–NOV–05
Thallium		10000	ug/L	01–FEB–06
Vanadium		10000	ug/L	01–FEB–06
Zinc		5000	ug/L	01–FEB–06

Raw Data

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3/14/2006 06:50:56 Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): -0.001 Slit adjustment: -2

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Analysis Begun

Start Time: 3/14/2006 06:52:24 **Plasma On Time: 3/13/2006 03:58:47**
Logged In Analyst: Administrator **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N2061001Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

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Method Loaded
Method Name: General Eng.2AZ **Method Last Saved: 3/2/2006 21:57:10**
IEC File: 010406IEC.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 3/14/2006 06:52:25**
Nebulizer Back Pressure: 233.0 kPa **Nebulizer Flow: 0.65 L/min**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

	Net	Corrected	Calib.	Analysis

Repl#	Analyte	Intensity	Intensity	Conc.	Units	Time
1	Sc RADIAL	71649.3	71649.3	99.4	%	06:54:08
1	Al 396.153Radial†	26.0	26.1	[0.00]	µg/L	06:54:08
1	Ca 317.933Radial†	256.0	257.6	[0.00]	µg/L	06:54:28
1	Fe 238.204 Radial†	42.1	42.4	[0.00]	µg/L	06:54:28
1	K 766.490 Radial†	1049.5	1056.0	[0.00]	µg/L	06:54:08
1	Mg 279.077 IEC†	3.6	3.7	[0.00]	µg/L	06:54:28
1	Na 589.592 Radial†	1120.0	1126.9	[0.00]	µg/L	06:54:08
1	Sr 421.552†	13.4	13.5	[0.00]	µg/L	06:54:08
1	Sc 361.383	1528227.2	1528227.2	99.979	%	06:55:27
1	Y 371.029	847406.3	847406.3	99.965	%	06:55:27
1	Ag 328.068†	-906.7	-906.9	[0.00]	µg/L	06:55:32
1	As 188.979†	3.2	3.2	[0.00]	µg/L	06:55:52
1	B 249.677†	82.2	82.3	[0.00]	µg/L	06:55:52
1	Ba 233.527†	-115.2	-115.2	[0.00]	µg/L	06:55:52
1	Be 313.107†	365.1	365.1	[0.00]	µg/L	06:55:32
1	Cd 226.502†	-31.7	-31.7	[0.00]	µg/L	06:55:52
1	Co 228.616†	-56.2	-56.2	[0.00]	µg/L	06:55:52
1	Cr 267.716†	57.7	57.7	[0.00]	µg/L	06:55:52
1	Cu 324.752†	3869.9	3870.7	[0.00]	µg/L	06:55:32
1	Mn 257.610†	366.2	366.3	[0.00]	µg/L	06:55:52
1	Mo 202.031†	-13.9	-13.9	[0.00]	µg/L	06:55:52
1	Ni 231.604†	160.5	160.5	[0.00]	µg/L	06:55:52
1	P 214.914†	168.7	168.8	[0.00]	µg/L	06:55:52
1	Pb 220.353†	12.1	12.1	[0.00]	µg/L	06:55:52
1	S 181.975 Axial†	28.0	28.0	[0.00]	µg/L	06:55:52
1	Sb 206.836†	16.4	16.4	[0.00]	µg/L	06:55:52
1	Se 196.026†	-19.5	-19.5	[0.00]	µg/L	06:55:52
1	SiO2 †	709.8	709.9	[0.00]	µg/L	06:55:52
1	Sn 189.927†	-25.1	-25.1	[0.00]	µg/L	06:55:52
1	Ti 334.940†	538.6	538.7	[0.00]	µg/L	06:55:32
1	Tl 190.801†	-31.5	-31.5	[0.00]	µg/L	06:55:52
1	U 409.014†	423.1	423.2	[0.00]	µg/L	06:55:32
1	V 292.402†	-83.5	-83.5	[0.00]	µg/L	06:55:32
1	Zn 213.857†	290.5	290.6	[0.00]	µg/L	06:55:52
1	Si 251.611†	700.7	700.9	[0.00]	µg/L	06:57:15
2	Sc RADIAL	72005.9	72005.9	99.9	%	06:54:33
2	Al 396.153Radial†	26.4	26.4	[0.00]	µg/L	06:54:33
2	Ca 317.933Radial†	252.7	253.0	[0.00]	µg/L	06:54:54
2	Fe 238.204 Radial†	40.2	40.3	[0.00]	µg/L	06:54:54
2	K 766.490 Radial†	1093.0	1094.4	[0.00]	µg/L	06:54:33
2	Mg 279.077 IEC†	1.1	1.1	[0.00]	µg/L	06:54:54
2	Na 589.592 Radial†	1245.4	1246.9	[0.00]	µg/L	06:54:33
2	Sr 421.552†	-11.0	-11.1	[0.00]	µg/L	06:54:33
2	Sc 361.383	1524203.1	1524203.1	99.716	%	06:55:58
2	Y 371.029	845300.5	845300.5	99.717	%	06:55:58
2	Ag 328.068†	-878.9	-881.4	[0.00]	µg/L	06:56:03
2	As 188.979†	0.9	0.9	[0.00]	µg/L	06:56:23
2	B 249.677†	91.1	91.3	[0.00]	µg/L	06:56:23
2	Ba 233.527†	-119.6	-119.9	[0.00]	µg/L	06:56:23
2	Be 313.107†	324.0	325.0	[0.00]	µg/L	06:56:03
2	Cd 226.502†	-30.6	-30.7	[0.00]	µg/L	06:56:23
2	Co 228.616†	-67.4	-67.6	[0.00]	µg/L	06:56:23
2	Cr 267.716†	50.6	50.7	[0.00]	µg/L	06:56:23
2	Cu 324.752†	3896.3	3907.4	[0.00]	µg/L	06:56:03
2	Mn 257.610†	383.7	384.8	[0.00]	µg/L	06:56:23
2	Mo 202.031†	-11.5	-11.6	[0.00]	µg/L	06:56:23
2	Ni 231.604†	152.7	153.2	[0.00]	µg/L	06:56:23
2	P 214.914†	170.4	170.9	[0.00]	µg/L	06:56:23
2	Pb 220.353†	5.2	5.3	[0.00]	µg/L	06:56:23
2	S 181.975 Axial†	30.7	30.8	[0.00]	µg/L	06:56:23
2	Sb 206.836†	15.3	15.3	[0.00]	µg/L	06:56:23
2	Se 196.026†	-25.2	-25.2	[0.00]	µg/L	06:56:23
2	SiO2 †	734.1	736.2	[0.00]	µg/L	06:56:23
2	Sn 189.927†	-20.3	-20.4	[0.00]	µg/L	06:56:23
2	Ti 334.940†	520.8	522.2	[0.00]	µg/L	06:56:03
2	Tl 190.801†	-29.0	-29.1	[0.00]	µg/L	06:56:23
2	U 409.014†	366.9	367.9	[0.00]	µg/L	06:56:03
2	V 292.402†	-95.1	-95.4	[0.00]	µg/L	06:56:03
2	Zn 213.857†	299.7	300.6	[0.00]	µg/L	06:56:23
2	Si 251.611†	711.8	713.9	[0.00]	µg/L	06:57:35

3	Sc RADIAL	72632.9	72632.9	101 %	06:54:59
3	Al 396.153Radial†	56.0	55.6	[0.00] µg/L	06:54:59
3	Ca 317.933Radial†	258.0	256.1	[0.00] µg/L	06:55:19
3	Fe 238.204 Radial†	39.6	39.3	[0.00] µg/L	06:55:19
3	K 766.490 Radial†	1089.6	1081.5	[0.00] µg/L	06:54:59
3	Mg 279.077 IEC†	-1.2	-1.2	[0.00] µg/L	06:55:19
3	Na 589.592 Radial†	1188.4	1179.7	[0.00] µg/L	06:54:59
3	Sr 421.552†	11.5	11.4	[0.00] µg/L	06:54:59
3	Sc 361.383	1533219.1	1533219.1	100.31 %	06:56:29
3	Y 371.029	850395.8	850395.8	100.32 %	06:56:29
3	Ag 328.068†	-970.2	-967.3	[0.00] µg/L	06:56:34
3	As 188.979†	3.2	3.2	[0.00] µg/L	06:56:54
3	B 249.677†	83.9	83.6	[0.00] µg/L	06:56:54
3	Ba 233.527†	-118.1	-117.7	[0.00] µg/L	06:56:54
3	Be 313.107†	400.2	399.0	[0.00] µg/L	06:56:34
3	Cd 226.502†	-35.8	-35.7	[0.00] µg/L	06:56:54
3	Co 228.616†	-64.6	-64.4	[0.00] µg/L	06:56:54
3	Cr 267.716†	57.0	56.9	[0.00] µg/L	06:56:54
3	Cu 324.752†	3829.0	3817.3	[0.00] µg/L	06:56:34
3	Mn 257.610†	363.8	362.7	[0.00] µg/L	06:56:54
3	Mo 202.031†	-14.7	-14.6	[0.00] µg/L	06:56:54
3	Ni 231.604†	159.1	158.7	[0.00] µg/L	06:56:54
3	P 214.914†	161.4	160.9	[0.00] µg/L	06:56:54
3	Pb 220.353†	3.3	3.3	[0.00] µg/L	06:56:54
3	S 181.975 Axial†	30.2	30.1	[0.00] µg/L	06:56:54
3	Sb 206.836†	16.5	16.5	[0.00] µg/L	06:56:54
3	Se 196.026†	-29.2	-29.1	[0.00] µg/L	06:56:54
3	SiO2 †	703.6	701.5	[0.00] µg/L	06:56:54
3	Sn 189.927†	-23.2	-23.1	[0.00] µg/L	06:56:54
3	Ti 334.940†	569.4	567.7	[0.00] µg/L	06:56:34
3	Tl 190.801†	-28.4	-28.3	[0.00] µg/L	06:56:54
3	U 409.014†	311.7	310.8	[0.00] µg/L	06:56:34
3	V 292.402†	-77.1	-76.9	[0.00] µg/L	06:56:34
3	Zn 213.857†	292.3	291.4	[0.00] µg/L	06:56:54
3	Si 251.611†	711.2	709.1	[0.00] µg/L	06:57:55

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1528549.8	4516.62	0.30%	100.00	%
Sc RADIAL	72096.0	497.96	0.69%	100	%
Y 371.029	847700.9	2560.43	0.30%	100.00	%
Ag 328.068†	-918.5	44.08	4.80%	[0.00]	µg/L
Al 396.153Radial†	36.1	16.93	46.95%	[0.00]	µg/L
As 188.979†	2.4	1.32	54.54%	[0.00]	µg/L
B 249.677†	85.7	4.89	5.70%	[0.00]	µg/L
Ba 233.527†	-117.6	2.37	2.02%	[0.00]	µg/L
Be 313.107†	363.0	37.07	10.21%	[0.00]	µg/L
Ca 317.933Radial†	255.6	2.36	0.92%	[0.00]	µg/L
Cd 226.502†	-32.7	2.66	8.13%	[0.00]	µg/L
Co 228.616†	-62.7	5.86	9.34%	[0.00]	µg/L
Cr 267.716†	55.1	3.80	6.90%	[0.00]	µg/L
Cu 324.752†	3865.1	45.30	1.17%	[0.00]	µg/L
Fe 238.204 Radial†	40.7	1.57	3.86%	[0.00]	µg/L
K 766.490 Radial†	1077.3	19.53	1.81%	[0.00]	µg/L
Mg 279.077 IEC†	1.2	2.41	200.85%	[0.00]	µg/L
Mn 257.610†	371.2	11.83	3.19%	[0.00]	µg/L
Mo 202.031†	-13.4	1.59	11.92%	[0.00]	µg/L
Na 589.592 Radial†	1184.5	60.14	5.08%	[0.00]	µg/L
Ni 231.604†	157.4	3.81	2.42%	[0.00]	µg/L
P 214.914†	166.8	5.27	3.16%	[0.00]	µg/L
Pb 220.353†	6.9	4.63	67.22%	[0.00]	µg/L
S 181.975 Axial†	29.6	1.44	4.86%	[0.00]	µg/L
Sb 206.836†	16.1	0.64	4.00%	[0.00]	µg/L
Se 196.026†	-24.6	4.81	19.52%	[0.00]	µg/L
SiO2 †	715.9	18.12	2.53%	[0.00]	µg/L
Si 251.611†	707.9	6.56	0.93%	[0.00]	µg/L
Sn 189.927†	-22.9	2.40	10.49%	[0.00]	µg/L
Sr 421.552†	4.6	13.60	294.98%	[0.00]	µg/L
Ti 334.940†	542.9	23.00	4.24%	[0.00]	µg/L

Tl 190.801†	-29.6	1.65	5.55%	[0.00] µg/L
U 409.014†	367.3	56.18	15.30%	[0.00] µg/L
V 292.402†	-85.3	9.40	11.02%	[0.00] µg/L
Zn 213.857†	294.2	5.54	1.88%	[0.00] µg/L

Sequence No.: 2
Sample ID: S0.1
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/14/2006 07:00:04
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	70050.0	70050.0	97.2	%	07:01:48
1	K 766.490 Radial†	4603.4	3660.5	[1000]	µg/L	07:01:48
1	Sr 421.552†	39839.0	40998.0	[100]	µg/L	07:01:48
1	Sc 361.383	1516449.1	1516449.1	99.208	%	07:02:07
1	Y 371.029	838171.1	838171.1	98.876	%	07:02:07
1	Ag 328.068†	16760.2	17812.5	[100]	µg/L	07:02:12
1	As 188.979†	236.0	235.5	[100]	µg/L	07:02:32
1	B 249.677†	2155.6	2087.0	[100]	µg/L	07:02:12
1	Ba 233.527†	12156.1	12370.7	[100]	µg/L	07:02:12
1	Be 313.107†	187989.7	189126.7	[100]	µg/L	07:02:07
1	Cd 226.502†	3581.6	3642.9	[100]	µg/L	07:02:12
1	Co 228.616†	4144.2	4239.9	[100]	µg/L	07:02:12
1	Cr 267.716†	4761.5	4744.4	[100]	µg/L	07:02:12
1	Cu 324.752†	36932.6	33362.2	[100]	µg/L	07:02:12
1	Mn 257.610†	75008.3	75235.6	[100]	µg/L	07:02:07
1	Mo 202.031†	902.4	923.0	[100]	µg/L	07:02:32
1	Ni 231.604†	2312.5	2173.5	[100]	µg/L	07:02:32
1	P 214.914†	935.8	776.4	[500]	µg/L	07:02:32
1	Pb 220.353†	522.9	520.1	[100]	µg/L	07:02:32
1	S 181.975 Axial†	142.3	113.8	[200]	µg/L	07:02:32
1	Sb 206.836†	273.4	259.5	[100]	µg/L	07:02:32
1	Se 196.026†	117.1	142.7	[100]	µg/L	07:02:32
1	SiO2 †	18997.2	18433.0	[1069.5]	µg/L	07:02:12
1	Sn 189.927†	423.0	449.2	[100]	µg/L	07:02:32
1	Ti 334.940†	98942.6	99189.2	[100]	µg/L	07:02:07
1	Tl 190.801†	274.2	306.0	[100]	µg/L	07:02:32
1	U 409.014†	2390.0	2041.7	[100]	µg/L	07:02:12
1	V 292.402†	8971.0	9127.8	[100]	µg/L	07:02:12
1	Zn 213.857†	5434.8	5184.0	[100]	µg/L	07:02:12
1	Si 251.611†	18737.8	18179.4	[500]	µg/L	07:03:41
2	Sc RADIAL	71029.8	71029.8	98.5	%	07:01:53
2	K 766.490 Radial†	4725.9	3719.5	[1000]	µg/L	07:01:53
2	Sr 421.552†	40177.4	40775.9	[100]	µg/L	07:01:53
2	Sc 361.383	1508120.3	1508120.3	98.663	%	07:02:38
2	Y 371.029	833754.4	833754.4	98.355	%	07:02:38
2	Ag 328.068†	16769.3	17915.0	[100]	µg/L	07:02:43
2	As 188.979†	234.8	235.6	[100]	µg/L	07:03:04
2	B 249.677†	2140.1	2083.3	[100]	µg/L	07:02:43
2	Ba 233.527†	12210.7	12493.7	[100]	µg/L	07:02:43
2	Be 313.107†	187764.6	189945.1	[100]	µg/L	07:02:38
2	Cd 226.502†	3608.1	3689.7	[100]	µg/L	07:02:43
2	Co 228.616†	4185.8	4305.2	[100]	µg/L	07:02:43
2	Cr 267.716†	4766.2	4775.7	[100]	µg/L	07:02:43
2	Cu 324.752†	36970.3	33605.9	[100]	µg/L	07:02:43
2	Mn 257.610†	74860.8	75503.7	[100]	µg/L	07:02:38
2	Mo 202.031†	911.5	937.2	[100]	µg/L	07:03:04
2	Ni 231.604†	2309.2	2183.0	[100]	µg/L	07:03:04
2	P 214.914†	927.3	773.1	[500]	µg/L	07:03:04
2	Pb 220.353†	522.6	522.7	[100]	µg/L	07:03:04
2	S 181.975 Axial†	141.0	113.3	[200]	µg/L	07:03:04
2	Sb 206.836†	274.2	261.8	[100]	µg/L	07:03:04
2	Se 196.026†	117.7	143.9	[100]	µg/L	07:03:04
2	SiO2 †	18998.4	18539.9	[1069.5]	µg/L	07:02:43
2	Sn 189.927†	416.5	445.0	[100]	µg/L	07:03:04
2	Ti 334.940†	99090.4	99889.8	[100]	µg/L	07:02:38
2	Tl 190.801†	275.5	308.9	[100]	µg/L	07:03:04
2	U 409.014†	2443.7	2109.5	[100]	µg/L	07:02:43
2	V 292.402†	9008.5	9215.8	[100]	µg/L	07:02:43

2	Zn 213.857†	5447.5	5227.1	[100]	µg/L	07:02:43
2	Si 251.611†	18772.4	18318.8	[500]	µg/L	07:03:46
3	Sc RADIAL	70734.8	70734.8	98.1	%	07:01:58
3	K 766.490 Radial†	4691.2	3704.2	[1000]	µg/L	07:01:58
3	Sr 421.552†	39930.9	40694.8	[100]	µg/L	07:01:58
3	Sc 361.383	1522562.2	1522562.2	99.608	%	07:03:09
3	Y 371.029	841477.7	841477.7	99.266	%	07:03:09
3	Ag 328.068†	16850.2	17835.1	[100]	µg/L	07:03:15
3	As 188.979†	235.3	233.8	[100]	µg/L	07:03:35
3	B 249.677†	2150.6	2073.4	[100]	µg/L	07:03:15
3	Ba 233.527†	12234.6	12400.3	[100]	µg/L	07:03:15
3	Be 313.107†	188440.8	188818.8	[100]	µg/L	07:03:09
3	Cd 226.502†	3580.1	3626.9	[100]	µg/L	07:03:15
3	Co 228.616†	4209.4	4288.6	[100]	µg/L	07:03:15
3	Cr 267.716†	4771.9	4735.6	[100]	µg/L	07:03:15
3	Cu 324.752†	37042.0	33322.5	[100]	µg/L	07:03:15
3	Mn 257.610†	74975.8	74899.4	[100]	µg/L	07:03:09
3	Mo 202.031†	911.4	928.3	[100]	µg/L	07:03:35
3	Ni 231.604†	2316.6	2168.2	[100]	µg/L	07:03:35
3	P 214.914†	931.0	767.9	[500]	µg/L	07:03:35
3	Pb 220.353†	529.2	524.4	[100]	µg/L	07:03:35
3	S 181.975 Axial†	138.1	109.0	[200]	µg/L	07:03:35
3	Sb 206.836†	285.7	270.8	[100]	µg/L	07:03:35
3	Se 196.026†	115.0	140.1	[100]	µg/L	07:03:35
3	SiO2 †	19005.4	18364.3	[1069.5]	µg/L	07:03:15
3	Sn 189.927†	426.2	450.7	[100]	µg/L	07:03:35
3	Ti 334.940†	99114.9	98961.8	[100]	µg/L	07:03:09
3	Tl 190.801†	280.9	311.6	[100]	µg/L	07:03:35
3	U 409.014†	2442.6	2085.0	[100]	µg/L	07:03:15
3	V 292.402†	9034.6	9155.4	[100]	µg/L	07:03:15
3	Zn 213.857†	5444.8	5172.0	[100]	µg/L	07:03:15
3	Si 251.611†	18678.5	18044.0	[500]	µg/L	07:03:51

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1515710.5	7249.21	0.48%	99.160	%
Sc RADIAL	70604.9	502.66	0.71%	97.9	%
Y 371.029	837801.1	3874.92	0.46%	98.832	%
Ag 328.068†	17854.2	53.84	0.30%	[100]	µg/L
As 188.979†	235.0	0.98	0.42%	[100]	µg/L
B 249.677†	2081.2	7.07	0.34%	[100]	µg/L
Ba 233.527†	12421.6	64.20	0.52%	[100]	µg/L
Be 313.107†	189296.9	582.11	0.31%	[100]	µg/L
Cd 226.502†	3653.2	32.66	0.89%	[100]	µg/L
Co 228.616†	4277.9	33.93	0.79%	[100]	µg/L
Cr 267.716†	4751.9	21.08	0.44%	[100]	µg/L
Cu 324.752†	33430.2	153.47	0.46%	[100]	µg/L
K 766.490 Radial†	3694.7	30.59	0.83%	[1000]	µg/L
Mn 257.610†	75212.9	302.77	0.40%	[100]	µg/L
Mo 202.031†	929.5	7.16	0.77%	[100]	µg/L
Ni 231.604†	2174.9	7.49	0.34%	[100]	µg/L
P 214.914†	772.5	4.31	0.56%	[500]	µg/L
Pb 220.353†	522.4	2.17	0.41%	[100]	µg/L
S 181.975 Axial†	112.1	2.63	2.35%	[200]	µg/L
Sb 206.836†	264.0	5.95	2.25%	[100]	µg/L
Se 196.026†	142.2	1.99	1.40%	[100]	µg/L
SiO2 †	18445.7	88.48	0.48%	[1069.5]	µg/L
Si 251.611†	18180.7	137.37	0.76%	[500]	µg/L
Sn 189.927†	448.3	2.98	0.66%	[100]	µg/L
Sr 421.552†	40822.9	157.00	0.38%	[100]	µg/L
Ti 334.940†	99346.9	483.70	0.49%	[100]	µg/L
Tl 190.801†	308.8	2.82	0.91%	[100]	µg/L
U 409.014†	2078.7	34.30	1.65%	[100]	µg/L
V 292.402†	9166.3	44.98	0.49%	[100]	µg/L
Zn 213.857†	5194.3	28.96	0.56%	[100]	µg/L

Sequence No.: 3
Sample ID: S0.5
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/14/2006 07:06:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	71475.0	71475.0	99.1	%	07:07:48
1	Al 396.153Radial†	26042.0	26232.2	[5000]	µg/L	07:07:48
1	Ca 317.933Radial†	33633.1	33669.8	[5000]	µg/L	07:08:08
1	K 766.490 Radial†	18522.7	17606.3	[5000]	µg/L	07:07:48
1	Mg 279.077 IEC†	2383.0	2402.5	[5000]	µg/L	07:08:08
1	Sr 421.552†	192919.2	194590.9	[500]	µg/L	07:07:48
1	Sc 361.383	1517643.3	1517643.3	99.286	%	07:09:09
1	Y 371.029	832477.8	832477.8	98.204	%	07:09:09
1	Ag 328.068†	87064.9	88609.2	[500]	µg/L	07:09:14
1	As 188.979†	1166.9	1172.8	[500]	µg/L	07:09:35
1	B 249.677†	10328.9	10317.4	[500]	µg/L	07:09:14
1	Ba 233.527†	59684.3	60230.9	[500]	µg/L	07:09:14
1	Be 313.107†	919804.5	926051.6	[500]	µg/L	07:09:09
1	Cd 226.502†	17482.1	17640.5	[500]	µg/L	07:09:14
1	Co 228.616†	20438.4	20648.0	[500]	µg/L	07:09:14
1	Cr 267.716†	22903.5	23013.0	[500]	µg/L	07:09:14
1	Cu 324.752†	160795.8	158086.2	[500]	µg/L	07:09:09
1	Mn 257.610†	357930.8	360131.9	[500]	µg/L	07:09:09
1	Mo 202.031†	4614.9	4661.4	[500]	µg/L	07:09:35
1	Ni 231.604†	10216.9	10132.8	[500]	µg/L	07:09:14
1	P 214.914†	3927.7	3789.1	[2500]	µg/L	07:09:35
1	Pb 220.353†	2501.9	2513.0	[500]	µg/L	07:09:35
1	S 181.975 Axial†	590.3	564.9	[1000]	µg/L	07:09:35
1	Sb 206.836†	1302.7	1296.0	[500]	µg/L	07:09:35
1	Se 196.026†	665.5	694.9	[500]	µg/L	07:09:35
1	SiO2 †	90875.1	90812.3	[5347.5]	µg/L	07:09:14
1	Sn 189.927†	2218.8	2257.6	[500]	µg/L	07:09:35
1	Ti 334.940†	492921.7	495921.3	[500]	µg/L	07:09:09
1	Tl 190.801†	1476.4	1516.7	[500]	µg/L	07:09:35
1	U 409.014†	10314.6	10021.4	[500]	µg/L	07:09:14
1	V 292.402†	44475.8	44880.7	[500]	µg/L	07:09:14
1	Zn 213.857†	25256.1	25143.4	[500]	µg/L	07:09:14
1	Si 251.611†	88846.0	88776.5	[2500]	µg/L	07:10:46
2	Sc RADIAL	70661.6	70661.6	98.0	%	07:08:13
2	Al 396.153Radial†	25850.4	26339.1	[5000]	µg/L	07:08:13
2	Ca 317.933Radial†	33879.1	34311.3	[5000]	µg/L	07:08:34
2	K 766.490 Radial†	18412.2	17708.7	[5000]	µg/L	07:08:13
2	Mg 279.077 IEC†	2395.6	2443.1	[5000]	µg/L	07:08:34
2	Sr 421.552†	191180.2	195056.5	[500]	µg/L	07:08:13
2	Sc 361.383	1518130.4	1518130.4	99.318	%	07:09:42
2	Y 371.029	833161.0	833161.0	98.285	%	07:09:42
2	Ag 328.068†	87329.6	88847.5	[500]	µg/L	07:09:47
2	As 188.979†	1157.7	1163.2	[500]	µg/L	07:10:07
2	B 249.677†	10374.5	10360.0	[500]	µg/L	07:09:47
2	Ba 233.527†	59640.8	60167.7	[500]	µg/L	07:09:47
2	Be 313.107†	921080.5	927039.1	[500]	µg/L	07:09:42
2	Cd 226.502†	17459.7	17612.2	[500]	µg/L	07:09:47
2	Co 228.616†	20449.6	20652.6	[500]	µg/L	07:09:47
2	Cr 267.716†	22934.0	23036.3	[500]	µg/L	07:09:47
2	Cu 324.752†	161061.2	158301.5	[500]	µg/L	07:09:42
2	Mn 257.610†	358440.0	360528.8	[500]	µg/L	07:09:42
2	Mo 202.031†	4614.0	4659.0	[500]	µg/L	07:10:07
2	Ni 231.604†	10251.9	10164.8	[500]	µg/L	07:09:47
2	P 214.914†	3919.7	3779.7	[2500]	µg/L	07:10:07
2	Pb 220.353†	2492.1	2502.3	[500]	µg/L	07:10:07
2	S 181.975 Axial†	588.5	562.9	[1000]	µg/L	07:10:07
2	Sb 206.836†	1302.5	1295.3	[500]	µg/L	07:10:07
2	Se 196.026†	656.8	685.9	[500]	µg/L	07:10:07

2	SiO2 †	91224.2	91134.4	[5347.5]	µg/L	07:09:47
2	Sn 189.927†	2213.5	2251.6	[500]	µg/L	07:10:07
2	Ti 334.940†	493822.2	496668.6	[500]	µg/L	07:09:42
2	Tl 190.801†	1472.6	1512.3	[500]	µg/L	07:10:07
2	U 409.014†	10336.7	10040.3	[500]	µg/L	07:09:47
2	V 292.402†	44433.3	44823.5	[500]	µg/L	07:09:47
2	Zn 213.857†	25276.7	25156.0	[500]	µg/L	07:09:47
2	Si 251.611†	89492.4	89398.7	[2500]	µg/L	07:10:51
3	Sc RADIAL	71462.7	71462.7	99.1	%	07:08:39
3	Al 396.153Radial†	26028.0	26222.6	[5000]	µg/L	07:08:39
3	Ca 317.933Radial†	33653.5	33696.2	[5000]	µg/L	07:08:59
3	K 766.490 Radial†	18691.7	17780.0	[5000]	µg/L	07:08:39
3	Mg 279.077 IEC†	2385.3	2405.2	[5000]	µg/L	07:08:59
3	Sr 421.552†	192717.6	194421.0	[500]	µg/L	07:08:39
3	Sc 361.383	1514663.1	1514663.1	99.092	%	07:10:14
3	Y 371.029	831433.0	831433.0	98.081	%	07:10:14
3	Ag 328.068†	86947.5	88663.2	[500]	µg/L	07:10:20
3	As 188.979†	1167.7	1176.0	[500]	µg/L	07:10:40
3	B 249.677†	10319.3	10328.1	[500]	µg/L	07:10:20
3	Ba 233.527†	59654.0	60318.6	[500]	µg/L	07:10:20
3	Be 313.107†	923111.6	931211.8	[500]	µg/L	07:10:14
3	Cd 226.502†	17496.5	17689.6	[500]	µg/L	07:10:20
3	Co 228.616†	20440.5	20690.7	[500]	µg/L	07:10:20
3	Cr 267.716†	22893.0	23047.8	[500]	µg/L	07:10:20
3	Cu 324.752†	161353.7	158967.9	[500]	µg/L	07:10:14
3	Mn 257.610†	358935.1	361854.6	[500]	µg/L	07:10:14
3	Mo 202.031†	4612.6	4668.3	[500]	µg/L	07:10:40
3	Ni 231.604†	10265.3	10202.0	[500]	µg/L	07:10:20
3	P 214.914†	3903.9	3772.8	[2500]	µg/L	07:10:40
3	Pb 220.353†	2510.4	2526.5	[500]	µg/L	07:10:40
3	S 181.975 Axial†	591.2	567.0	[1000]	µg/L	07:10:40
3	Sb 206.836†	1312.2	1308.2	[500]	µg/L	07:10:40
3	Se 196.026†	659.5	690.2	[500]	µg/L	07:10:40
3	SiO2 †	90742.0	90858.0	[5347.5]	µg/L	07:10:20
3	Sn 189.927†	2204.7	2247.8	[500]	µg/L	07:10:40
3	Ti 334.940†	494426.8	498417.0	[500]	µg/L	07:10:14
3	Tl 190.801†	1469.0	1512.2	[500]	µg/L	07:10:40
3	U 409.014†	10326.6	10054.0	[500]	µg/L	07:10:20
3	V 292.402†	44513.7	45007.1	[500]	µg/L	07:10:20
3	Zn 213.857†	25291.4	25229.1	[500]	µg/L	07:10:20
3	Si 251.611†	89234.0	89344.2	[2500]	µg/L	07:10:56

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1516812.3	1877.09	0.12%	99.232	%
Sc RADIAL	71199.7	466.08	0.65%	98.8	%
Y 371.029	832357.2	870.26	0.10%	98.190	%
Ag 328.068†	88706.6	124.99	0.14%	[500]	µg/L
Al 396.153Radial†	26264.6	64.67	0.25%	[5000]	µg/L
As 188.979†	1170.7	6.66	0.57%	[500]	µg/L
B 249.677†	10335.2	22.17	0.21%	[500]	µg/L
Ba 233.527†	60239.1	75.75	0.13%	[500]	µg/L
Be 313.107†	928100.8	2739.02	0.30%	[500]	µg/L
Ca 317.933Radial†	33892.4	362.96	1.07%	[5000]	µg/L
Cd 226.502†	17647.4	39.15	0.22%	[500]	µg/L
Co 228.616†	20663.8	23.40	0.11%	[500]	µg/L
Cr 267.716†	23032.4	17.73	0.08%	[500]	µg/L
Cu 324.752†	158451.8	459.67	0.29%	[500]	µg/L
K 766.490 Radial†	17698.3	87.31	0.49%	[5000]	µg/L
Mg 279.077 IEC†	2416.9	22.68	0.94%	[5000]	µg/L
Mn 257.610†	360838.4	902.16	0.25%	[500]	µg/L
Mo 202.031†	4662.9	4.83	0.10%	[500]	µg/L
Ni 231.604†	10166.6	34.61	0.34%	[500]	µg/L
P 214.914†	3780.6	8.18	0.22%	[2500]	µg/L
Pb 220.353†	2514.0	12.14	0.48%	[500]	µg/L
S 181.975 Axial†	564.9	2.03	0.36%	[1000]	µg/L
Sb 206.836†	1299.8	7.23	0.56%	[500]	µg/L
Se 196.026†	690.3	4.51	0.65%	[500]	µg/L
SiO2 †	90934.9	174.24	0.19%	[5347.5]	µg/L

Si 251.611†	89173.1	344.55	0.39%	[2500]	µg/L
Sn 189.927†	2252.3	4.91	0.22%	[500]	µg/L
Sr 421.552†	194689.5	329.03	0.17%	[500]	µg/L
Ti 334.940†	497002.3	1280.88	0.26%	[500]	µg/L
Tl 190.801†	1513.7	2.57	0.17%	[500]	µg/L
U 409.014†	10038.6	16.38	0.16%	[500]	µg/L
V 292.402†	44903.8	93.95	0.21%	[500]	µg/L
Zn 213.857†	25176.2	46.26	0.18%	[500]	µg/L

Sequence No.: 4
Sample ID: SCAL
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/14/2006 07:13:08
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	71137.6	71137.6	98.7	%	07:14:58
1	Al 396.153Radial†	53558.2	54243.8	[10000]	µg/L	07:14:52
1	Ca 317.933Radial†	68802.4	69473.9	[10000]	µg/L	07:14:58
1	Fe 238.204 Radial†	7224.2	7280.9	[10000]	µg/L	07:14:58
1	K 766.490 Radial†	37667.1	37097.3	[10000]	µg/L	07:14:52
1	Mg 279.077 IEC†	4863.4	4927.7	[10000]	µg/L	07:14:58
1	Na 589.592 Radial†	98245.5	98384.7	[10000]	µg/L	07:14:52
1	Sr 421.552†	394998.8	400316.0	[1000]	µg/L	07:14:52
1	Sc 361.383	1484674.9	1484674.9	97.130	%	07:15:29
1	Y 371.029	813274.1	813274.1	95.939	%	07:15:29
1	Ag 328.068†	174424.3	180497.4	[1000]	µg/L	07:15:35
1	As 188.979†	2391.2	2459.4	[1000]	µg/L	07:15:55
1	B 249.677†	21092.5	21630.0	[1000]	µg/L	07:15:35
1	Ba 233.527†	122064.9	125789.7	[1000]	µg/L	07:15:35
1	Be 313.107†	1879942.3	1935135.0	[1000]	µg/L	07:15:29
1	Cd 226.502†	35572.8	36656.7	[1000]	µg/L	07:15:35
1	Co 228.616†	41668.6	42962.7	[1000]	µg/L	07:15:35
1	Cr 267.716†	46891.2	48221.8	[1000]	µg/L	07:15:35
1	Cu 324.752†	324069.9	329781.6	[1000]	µg/L	07:15:29
1	Mn 257.610†	729047.9	750221.4	[1000]	µg/L	07:15:29
1	Mo 202.031†	8957.0	9235.1	[1000]	µg/L	07:15:35
1	Ni 231.604†	20601.8	21053.2	[1000]	µg/L	07:15:35
1	P 214.914†	7688.3	7748.6	[5000]	µg/L	07:15:35
1	Pb 220.353†	5071.8	5214.8	[1000]	µg/L	07:15:55
1	S 181.975 Axial†	1143.7	1147.9	[2000]	µg/L	07:15:55
1	Sb 206.836†	2613.4	2674.6	[1000]	µg/L	07:15:55
1	Se 196.026†	1362.8	1427.7	[1000]	µg/L	07:15:55
1	SiO2 †	179334.5	183918.3	[10695]	µg/L	07:15:29
1	Sn 189.927†	4471.8	4626.8	[1000]	µg/L	07:15:55
1	Ti 334.940†	985830.1	1014420.3	[1000]	µg/L	07:15:29
1	Tl 190.801†	3018.8	3137.6	[1000]	µg/L	07:15:55
1	U 409.014†	20623.7	20865.8	[1000]	µg/L	07:15:35
1	V 292.402†	91429.4	94216.6	[1000]	µg/L	07:15:35
1	Zn 213.857†	51010.6	52223.8	[1000]	µg/L	07:15:35
1	Si 251.611†	179440.6	184035.4	[5000]	µg/L	07:17:07
2	Sc RADIAL	71326.5	71326.5	98.9	%	07:15:08
2	Al 396.153Radial†	53410.7	53950.9	[10000]	µg/L	07:15:03
2	Ca 317.933Radial†	68890.8	69378.5	[10000]	µg/L	07:15:08
2	Fe 238.204 Radial†	7248.6	7286.1	[10000]	µg/L	07:15:08
2	K 766.490 Radial†	37595.7	36924.0	[10000]	µg/L	07:15:03
2	Mg 279.077 IEC†	4879.7	4931.2	[10000]	µg/L	07:15:08
2	Na 589.592 Radial†	98234.3	98109.6	[10000]	µg/L	07:15:03
2	Sr 421.552†	394480.0	398731.3	[1000]	µg/L	07:15:03
2	Sc 361.383	1488449.0	1488449.0	97.377	%	07:16:02
2	Y 371.029	815103.1	815103.1	96.155	%	07:16:02
2	Ag 328.068†	172742.5	178315.0	[1000]	µg/L	07:16:08
2	As 188.979†	2393.0	2455.1	[1000]	µg/L	07:16:28
2	B 249.677†	20889.2	21366.3	[1000]	µg/L	07:16:08
2	Ba 233.527†	120756.4	124127.3	[1000]	µg/L	07:16:08
2	Be 313.107†	1882115.4	1932459.0	[1000]	µg/L	07:16:02
2	Cd 226.502†	35334.4	36319.1	[1000]	µg/L	07:16:08
2	Co 228.616†	41294.7	42470.0	[1000]	µg/L	07:16:08
2	Cr 267.716†	46491.2	47688.6	[1000]	µg/L	07:16:08
2	Cu 324.752†	324188.7	329057.6	[1000]	µg/L	07:16:02
2	Mn 257.610†	729787.5	749077.7	[1000]	µg/L	07:16:02
2	Mo 202.031†	8876.3	9128.7	[1000]	µg/L	07:16:08
2	Ni 231.604†	20441.8	20835.1	[1000]	µg/L	07:16:08
2	P 214.914†	7613.1	7651.4	[5000]	µg/L	07:16:08

2	Pb 220.353†	5072.8	5202.6	[1000]	µg/L	07:16:28
2	S 181.975 Axial†	1136.2	1137.2	[2000]	µg/L	07:16:28
2	Sb 206.836†	2607.0	2661.1	[1000]	µg/L	07:16:28
2	Se 196.026†	1354.0	1415.1	[1000]	µg/L	07:16:28
2	SiO2 †	179273.2	183387.2	[10695]	µg/L	07:16:02
2	Sn 189.927†	4485.4	4629.1	[1000]	µg/L	07:16:28
2	Ti 334.940†	986627.6	1012665.8	[1000]	µg/L	07:16:02
2	Tl 190.801†	3023.8	3134.9	[1000]	µg/L	07:16:28
2	U 409.014†	20225.9	20403.5	[1000]	µg/L	07:16:08
2	V 292.402†	90555.0	93079.9	[1000]	µg/L	07:16:08
2	Zn 213.857†	50581.4	51650.0	[1000]	µg/L	07:16:08
2	Si 251.611†	179233.5	183354.4	[5000]	µg/L	07:17:12
3	Sc RADIAL	71833.3	71833.3	99.6	%	07:15:19
3	Al 396.153Radial†	53702.8	53863.2	[10000]	µg/L	07:15:14
3	Ca 317.933Radial†	69362.7	69360.8	[10000]	µg/L	07:15:19
3	Fe 238.204 Radial†	7318.0	7304.1	[10000]	µg/L	07:15:19
3	K 766.490 Radial†	37673.5	36734.0	[10000]	µg/L	07:15:14
3	Mg 279.077 IEC†	4902.4	4919.1	[10000]	µg/L	07:15:19
3	Na 589.592 Radial†	98624.6	97800.7	[10000]	µg/L	07:15:14
3	Sr 421.552†	395996.7	397440.3	[1000]	µg/L	07:15:14
3	Sc 361.383	1487823.1	1487823.1	97.336	%	07:16:35
3	Y 371.029	814753.3	814753.3	96.113	%	07:16:35
3	Ag 328.068†	175060.9	180771.4	[1000]	µg/L	07:16:41
3	As 188.979†	2377.5	2440.1	[1000]	µg/L	07:17:01
3	B 249.677†	21263.7	21760.0	[1000]	µg/L	07:16:41
3	Ba 233.527†	122406.1	125874.4	[1000]	µg/L	07:16:41
3	Be 313.107†	1883403.3	1934595.3	[1000]	µg/L	07:16:35
3	Cd 226.502†	35672.5	36681.7	[1000]	µg/L	07:16:41
3	Co 228.616†	41810.4	43017.6	[1000]	µg/L	07:16:41
3	Cr 267.716†	47041.0	48273.5	[1000]	µg/L	07:16:41
3	Cu 324.752†	324863.1	329890.6	[1000]	µg/L	07:16:35
3	Mn 257.610†	730476.9	750101.3	[1000]	µg/L	07:16:35
3	Mo 202.031†	8975.1	9234.1	[1000]	µg/L	07:16:41
3	Ni 231.604†	20585.2	20991.3	[1000]	µg/L	07:16:41
3	P 214.914†	7708.0	7752.1	[5000]	µg/L	07:16:41
3	Pb 220.353†	5067.0	5198.8	[1000]	µg/L	07:17:01
3	S 181.975 Axial†	1134.8	1136.2	[2000]	µg/L	07:17:01
3	Sb 206.836†	2613.8	2669.2	[1000]	µg/L	07:17:01
3	Se 196.026†	1357.4	1419.1	[1000]	µg/L	07:17:01
3	SiO2 †	179665.2	183867.4	[10695]	µg/L	07:16:35
3	Sn 189.927†	4490.0	4635.8	[1000]	µg/L	07:17:01
3	Ti 334.940†	988118.1	1014623.4	[1000]	µg/L	07:16:35
3	Tl 190.801†	3023.0	3135.4	[1000]	µg/L	07:17:01
3	U 409.014†	20685.0	20883.9	[1000]	µg/L	07:16:41
3	V 292.402†	91766.7	94363.9	[1000]	µg/L	07:16:41
3	Zn 213.857†	51179.3	52286.0	[1000]	µg/L	07:16:41
3	Si 251.611†	179549.1	183756.0	[5000]	µg/L	07:17:18

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1486982.3	2022.63	0.14%	97.281	%
Sc RADIAL	71432.5	359.77	0.50%	99.1	%
Y 371.029	814376.8	970.90	0.12%	96.069	%
Ag 328.068†	179861.3	1346.13	0.75%	[1000]	µg/L
Al 396.153Radial†	54019.3	199.31	0.37%	[10000]	µg/L
As 188.979†	2451.6	10.11	0.41%	[1000]	µg/L
B 249.677†	21585.4	200.62	0.93%	[1000]	µg/L
Ba 233.527†	125263.8	985.15	0.79%	[1000]	µg/L
Be 313.107†	1934063.1	1415.16	0.07%	[1000]	µg/L
Ca 317.933Radial†	69404.4	60.82	0.09%	[10000]	µg/L
Cd 226.502†	36552.5	202.54	0.55%	[1000]	µg/L
Co 228.616†	42816.8	301.57	0.70%	[1000]	µg/L
Cr 267.716†	48061.3	323.81	0.67%	[1000]	µg/L
Cu 324.752†	329576.6	452.75	0.14%	[1000]	µg/L
Fe 238.204 Radial†	7290.4	12.19	0.17%	[10000]	µg/L
K 766.490 Radial†	36918.4	181.69	0.49%	[10000]	µg/L
Mg 279.077 IEC†	4926.0	6.21	0.13%	[10000]	µg/L
Mn 257.610†	749800.1	628.53	0.08%	[1000]	µg/L
Mo 202.031†	9199.3	61.12	0.66%	[1000]	µg/L

Na 589.592 Radial†	98098.3	292.13	0.30%	[10000]	µg/L
Ni 231.604†	20959.9	112.36	0.54%	[1000]	µg/L
P 214.914†	7717.4	57.16	0.74%	[5000]	µg/L
Pb 220.353†	5205.4	8.35	0.16%	[1000]	µg/L
S 181.975 Axial†	1140.4	6.47	0.57%	[2000]	µg/L
Sb 206.836†	2668.3	6.79	0.25%	[1000]	µg/L
Se 196.026†	1420.6	6.44	0.45%	[1000]	µg/L
SiO2 †	183724.3	293.04	0.16%	[10695]	µg/L
Si 251.611†	183715.3	342.36	0.19%	[5000]	µg/L
Sn 189.927†	4630.6	4.70	0.10%	[1000]	µg/L
Sr 421.552†	398829.2	1440.36	0.36%	[1000]	µg/L
Ti 334.940†	1013903.2	1076.40	0.11%	[1000]	µg/L
Tl 190.801†	3136.0	1.43	0.05%	[1000]	µg/L
U 409.014†	20717.8	272.28	1.31%	[1000]	µg/L
V 292.402†	93886.8	702.66	0.75%	[1000]	µg/L
Zn 213.857†	52053.3	350.66	0.67%	[1000]	µg/L

Sequence No.: 5
Sample ID: S10
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/14/2006 07:19:30
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	70665.1	70665.1	98.0	%	07:21:24
1	Al 396.153Radial†	262572.2	267853.0	[50000]	µg/L	07:21:19
1	Ca 317.933Radial†	328140.9	334529.9	[50000]	µg/L	07:21:19
1	Fe 238.204 Radial†	13898.7	14139.4	[20000]	µg/L	07:21:24
1	Mg 279.077 IEC†	23628.9	24106.1	[50000]	µg/L	07:21:24
1	Na 589.592 Radial†	189491.4	192144.0	[20000]	µg/L	07:21:19
1	Sc 361.383	1439459.2	1439459.2	94.172	%	07:21:55
1	Y 371.029	786071.3	786071.3	92.730	%	07:21:55
2	Sc RADIAL	70004.6	70004.6	97.1	%	07:21:34
2	Al 396.153Radial†	264974.1	272854.3	[50000]	µg/L	07:21:29
2	Ca 317.933Radial†	331297.4	340939.5	[50000]	µg/L	07:21:29
2	Fe 238.204 Radial†	13734.1	14103.8	[20000]	µg/L	07:21:34
2	Mg 279.077 IEC†	23361.8	24058.5	[50000]	µg/L	07:21:34
2	Na 589.592 Radial†	191134.4	195660.2	[20000]	µg/L	07:21:29
2	Sc 361.383	1441237.1	1441237.1	94.288	%	07:22:02
2	Y 371.029	787259.6	787259.6	92.870	%	07:22:02
3	Sc RADIAL	69491.0	69491.0	96.4	%	07:21:45
3	Al 396.153Radial†	263677.3	273525.6	[50000]	µg/L	07:21:40
3	Ca 317.933Radial†	329493.5	341589.6	[50000]	µg/L	07:21:40
3	Fe 238.204 Radial†	13707.2	14180.4	[20000]	µg/L	07:21:45
3	Mg 279.077 IEC†	23325.6	24198.8	[50000]	µg/L	07:21:45
3	Na 589.592 Radial†	190254.6	196202.1	[20000]	µg/L	07:21:40
3	Sc 361.383	1447401.3	1447401.3	94.691	%	07:22:10
3	Y 371.029	790399.7	790399.7	93.240	%	07:22:10

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1442699.2	4168.01	0.29%	94.384	%
Sc RADIAL	70053.6	588.58	0.84%	97.2	%
Y 371.029	787910.2	2236.32	0.28%	92.947	%
Al 396.153Radial†	271411.0	3099.54	1.14%	[50000]	µg/L
Ca 317.933Radial†	339019.7	3901.82	1.15%	[50000]	µg/L
Fe 238.204 Radial†	14141.2	38.32	0.27%	[20000]	µg/L
Mg 279.077 IEC†	24121.2	71.35	0.30%	[50000]	µg/L
Na 589.592 Radial†	194668.7	2203.25	1.13%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	179.4	0.00000	0.999985	
Al 396.153Radial	3	Lin Thru 0	0.0	5.426	0.00000	0.999995	
As 188.979	3	Lin Thru 0	0.0	2.429	0.00000	0.999832	
B 249.677	3	Lin Thru 0	0.0	21.40	0.00000	0.999852	
Ba 233.527	3	Lin Thru 0	0.0	124.3	0.00000	0.999882	
Be 313.107	3	Lin Thru 0	0.0	1918	0.00000	0.999869	
Ca 317.933Radial	3	Lin Thru 0	0.0	6.786	0.00000	0.999990	
Cd 226.502	3	Lin Thru 0	0.0	36.30	0.00000	0.999905	
Co 228.616	3	Lin Thru 0	0.0	42.52	0.00000	0.999903	
Cr 267.716	3	Lin Thru 0	0.0	47.66	0.00000	0.999861	
Cu 324.752	3	Lin Thru 0	0.0	327.1	0.00000	0.999879	
Fe 238.204 Radial	2	Lin Thru 0	0.0	0.7115	0.00000	0.999924	
K 766.490 Radial	3	Lin Thru 0	0.0	3.662	0.00000	0.999863	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.4828	0.00000	0.999992	
Mn 257.610	3	Lin Thru 0	0.0	744.2	0.00000	0.999886	
Mo 202.031	3	Lin Thru 0	0.0	9.225	0.00000	0.999985	

Na 589.592 Radial	2	Lin Thru 0	0.0	9.749	0.00000	0.999995
Ni 231.604	3	Lin Thru 0	0.0	20.84	0.00000	0.999921
P 214.914	3	Lin Thru 0	0.0	1.537	0.00000	0.999967
Pb 220.353	3	Lin Thru 0	0.0	5.170	0.00000	0.999906
S 181.975 Axial	3	Lin Thru 0	0.0	0.5691	0.00000	0.999992
Sb 206.836	3	Lin Thru 0	0.0	2.654	0.00000	0.999947
Se 196.026	3	Lin Thru 0	0.0	1.413	0.00000	0.999936
SiO2	3	Lin Thru 0	0.0	17.14	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	36.53	0.00000	0.999931
Sn 189.927	3	Lin Thru 0	0.0	4.604	0.00000	0.999938
Sr 421.552	3	Lin Thru 0	0.0	397.0	0.00000	0.999952
Ti 334.940	3	Lin Thru 0	0.0	1010	0.00000	0.999968
Tl 190.801	3	Lin Thru 0	0.0	3.114	0.00000	0.999903
U 409.014	3	Lin Thru 0	0.0	20.59	0.00000	0.999923
V 292.402	3	Lin Thru 0	0.0	93.06	0.00000	0.999847
Zn 213.857	3	Lin Thru 0	0.0	51.71	0.00000	0.999914

Sequence No.: 6
Sample ID: ICV
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/14/2006 07:24:20
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70485.3	70485.3	97.8	%			07:26:06
1	Al 396.153Radial†	26593.2	27164.9	4982.9	µg/L	4982.9	ppb	07:26:06
1	Ca 317.933Radial†	33818.6	34335.8	5059.5	µg/L	5059.5	ppb	07:26:26
1	Fe 238.204 Radial†	3625.6	3667.8	5155.3	µg/L	5155.3	ppb	07:26:26
1	K 766.490 Radial†	9824.7	8971.9	2450.2	µg/L	2450.2	ppb	07:26:06
1	Mg 279.077 IEC†	2505.6	2561.6	5319.0	µg/L	5319.0	ppb	07:26:26
1	Na 589.592 Radial†	24737.3	24118.1	2474.0	µg/L	2474.0	ppb	07:26:06
1	Sr 421.552†	196232.5	200712.2	505.39	µg/L	505.39	ppb	07:26:06
1	Sc 361.383	1518233.6	1518233.6	99.325	%			07:27:27
1	Y 371.029	835352.7	835352.7	98.543	%			07:27:27
1	Ag 328.068†	42384.2	43590.7	245.42	µg/L	245.42	ppb	07:27:27
1	As 188.979†	1212.1	1217.9	506.83	µg/L	506.83	ppb	07:27:48
1	B 249.677†	10750.5	10737.8	502.89	µg/L	502.89	ppb	07:27:27
1	Ba 233.527†	60616.7	61146.2	492.33	µg/L	492.33	ppb	07:27:27
1	Be 313.107†	490688.1	493659.3	257.38	µg/L	257.38	ppb	07:27:27
1	Cd 226.502†	17322.6	17473.0	480.80	µg/L	480.80	ppb	07:27:27
1	Co 228.616†	20584.6	20787.2	489.26	µg/L	489.26	ppb	07:27:27
1	Cr 267.716†	23021.7	23123.0	485.11	µg/L	485.11	ppb	07:27:27
1	Cu 324.752†	165312.6	162570.8	496.40	µg/L	496.40	ppb	07:27:27
1	Mn 257.610†	387814.9	390078.8	524.66	µg/L	524.66	ppb	07:27:27
1	Mo 202.031†	4713.5	4758.9	516.12	µg/L	516.12	ppb	07:27:48
1	Ni 231.604†	10977.9	10895.0	523.99	µg/L	523.99	ppb	07:27:48
1	P 214.914†	3836.3	3695.5	2400.3	µg/L	2400.3	ppb	07:27:48
1	Pb 220.353†	2527.8	2538.1	491.28	µg/L	491.28	ppb	07:27:48
1	S 181.975 Axial†	1426.6	1406.7	2474.9	µg/L	2474.9	ppb	07:27:48
1	Sb 206.836†	1313.5	1306.4	497.27	µg/L	497.27	ppb	07:27:48
1	Se 196.026†	3381.5	3429.1	2430	µg/L	2430	ppb	07:27:48
1	SiO2 †	179569.7	180073.9	10503	µg/L	10503	ppb	07:27:27
1	Sn 189.927†	2234.8	2272.9	494.52	µg/L	494.52	ppb	07:27:48
1	Ti 334.940†	504120.5	507003.1	501.79	µg/L	501.79	ppb	07:27:27
1	Tl 190.801†	1571.9	1612.3	517.98	µg/L	517.98	ppb	07:27:48
1	U 409.014†	11169.3	10877.9	531.02	µg/L	531.02	ppb	07:27:27
1	V 292.402†	46129.2	46527.9	506.66	µg/L	506.66	ppb	07:27:27
1	Zn 213.857†	25923.9	25805.9	497.33	µg/L	497.33	ppb	07:27:27
1	Si 251.611†	178877.8	179385.3	4910	µg/L	4910	ppb	07:28:49
2	Sc RADIAL	71655.6	71655.6	99.4	%			07:26:32
2	Al 396.153Radial†	26817.0	26945.8	4942.6	µg/L	4942.6	ppb	07:26:32
2	Ca 317.933Radial†	33933.8	33886.8	4993.3	µg/L	4993.3	ppb	07:26:52
2	Fe 238.204 Radial†	3636.6	3618.3	5085.8	µg/L	5085.8	ppb	07:26:52
2	K 766.490 Radial†	10025.7	9010.1	2460.6	µg/L	2460.6	ppb	07:26:32
2	Mg 279.077 IEC†	2520.3	2534.6	5263.0	µg/L	5263.0	ppb	07:26:52
2	Na 589.592 Radial†	24948.2	23917.1	2453.4	µg/L	2453.4	ppb	07:26:32
2	Sr 421.552†	198059.5	199272.3	501.77	µg/L	501.77	ppb	07:26:32
2	Sc 361.383	1524128.3	1524128.3	99.711	%			07:27:55
2	Y 371.029	838678.2	838678.2	98.936	%			07:27:55
2	Ag 328.068†	42198.2	43239.1	243.43	µg/L	243.43	ppb	07:27:55
2	As 188.979†	1205.9	1206.9	502.27	µg/L	502.27	ppb	07:28:15
2	B 249.677†	10748.6	10694.0	500.85	µg/L	500.85	ppb	07:27:55
2	Ba 233.527†	60389.8	60682.6	488.60	µg/L	488.60	ppb	07:27:55
2	Be 313.107†	488563.5	489617.8	255.28	µg/L	255.28	ppb	07:27:55
2	Cd 226.502†	17254.9	17337.7	477.08	µg/L	477.08	ppb	07:27:55
2	Co 228.616†	20530.0	20652.2	486.09	µg/L	486.09	ppb	07:27:55
2	Cr 267.716†	22955.5	22967.0	481.84	µg/L	481.84	ppb	07:27:55
2	Cu 324.752†	164660.6	161273.1	492.44	µg/L	492.44	ppb	07:27:55
2	Mn 257.610†	386539.9	387290.0	520.91	µg/L	520.91	ppb	07:27:55
2	Mo 202.031†	4712.4	4739.4	514.00	µg/L	514.00	ppb	07:28:15
2	Ni 231.604†	10970.0	10844.4	521.55	µg/L	521.55	ppb	07:28:15
2	P 214.914†	3849.9	3694.2	2399.5	µg/L	2399.5	ppb	07:28:15

2	Pb 220.353†	2536.5	2537.0	491.06 µg/L	491.06 ppb	07:28:15
2	S 181.975 Axial†	1420.2	1394.7	2453.9 µg/L	2453.9 ppb	07:28:15
2	Sb 206.836†	1317.6	1305.3	496.86 µg/L	496.86 ppb	07:28:15
2	Se 196.026†	3379.8	3414.2	2420 µg/L	2420 ppb	07:28:15
2	SiO2 †	179057.5	178861.0	10432 µg/L	10432 ppb	07:27:55
2	Sn 189.927†	2231.7	2261.0	491.93 µg/L	491.93 ppb	07:28:15
2	Ti 334.940†	501989.0	502902.4	497.73 µg/L	497.73 ppb	07:27:55
2	Tl 190.801†	1572.0	1606.2	516.05 µg/L	516.05 ppb	07:28:15
2	U 409.014†	11051.5	10716.3	523.15 µg/L	523.15 ppb	07:27:55
2	V 292.402†	45959.0	46177.6	502.86 µg/L	502.86 ppb	07:27:55
2	Zn 213.857†	25792.2	25572.8	492.84 µg/L	492.84 ppb	07:27:55
2	Si 251.611†	178741.1	178551.7	4890 µg/L	4890 ppb	07:28:54
3	Sc RADIAL	71523.8	71523.8	99.2 %		07:26:57
3	Al 396.153Radial†	26854.4	27033.2	4958.8 µg/L	4958.8 ppb	07:26:57
3	Ca 317.933Radial†	34051.9	34068.7	5020.1 µg/L	5020.1 ppb	07:27:17
3	Fe 238.204 Radial†	3659.3	3648.0	5127.5 µg/L	5127.5 ppb	07:27:17
3	K 766.490 Radial†	10003.1	9005.8	2459.5 µg/L	2459.5 ppb	07:26:57
3	Mg 279.077 IEC†	2523.2	2542.2	5278.6 µg/L	5278.6 ppb	07:27:17
3	Na 589.592 Radial†	24957.0	23972.2	2459.0 µg/L	2459.0 ppb	07:26:57
3	Sr 421.552†	198591.8	200176.1	504.04 µg/L	504.04 ppb	07:26:57
3	Sc 361.383	1526569.8	1526569.8	99.870 %		07:28:22
3	Y 371.029	840017.5	840017.5	99.094 %		07:28:22
3	Ag 328.068†	41815.8	42788.6	240.92 µg/L	240.92 ppb	07:28:22
3	As 188.979†	1201.2	1200.3	499.49 µg/L	499.49 ppb	07:28:43
3	B 249.677†	10615.7	10543.7	493.79 µg/L	493.79 ppb	07:28:22
3	Ba 233.527†	59823.8	60019.0	483.25 µg/L	483.25 ppb	07:28:22
3	Be 313.107†	483664.9	483929.2	252.31 µg/L	252.31 ppb	07:28:22
3	Cd 226.502†	17116.2	17171.1	472.49 µg/L	472.49 ppb	07:28:22
3	Co 228.616†	20357.9	20447.0	481.26 µg/L	481.26 ppb	07:28:22
3	Cr 267.716†	22746.7	22721.1	476.67 µg/L	476.67 ppb	07:28:22
3	Cu 324.752†	162921.6	159267.7	486.31 µg/L	486.31 ppb	07:28:22
3	Mn 257.610†	382689.2	382814.3	514.90 µg/L	514.90 ppb	07:28:22
3	Mo 202.031†	4698.7	4718.1	511.70 µg/L	511.70 ppb	07:28:43
3	Ni 231.604†	10974.3	10831.1	520.91 µg/L	520.91 ppb	07:28:43
3	P 214.914†	3825.1	3663.2	2379.2 µg/L	2379.2 ppb	07:28:43
3	Pb 220.353†	2517.9	2514.3	486.67 µg/L	486.67 ppb	07:28:43
3	S 181.975 Axial†	1427.8	1400.0	2463.1 µg/L	2463.1 ppb	07:28:43
3	Sb 206.836†	1322.1	1307.7	497.74 µg/L	497.74 ppb	07:28:43
3	Se 196.026†	3372.7	3401.7	2410 µg/L	2410 ppb	07:28:43
3	SiO2 †	177107.7	176621.5	10302 µg/L	10302 ppb	07:28:22
3	Sn 189.927†	2220.9	2246.6	488.82 µg/L	488.82 ppb	07:28:43
3	Ti 334.940†	496661.0	496762.3	491.65 µg/L	491.65 ppb	07:28:22
3	Tl 190.801†	1563.4	1595.0	512.44 µg/L	512.44 ppb	07:28:43
3	U 409.014†	10945.0	10591.9	517.08 µg/L	517.08 ppb	07:28:22
3	V 292.402†	45518.9	45663.2	497.29 µg/L	497.29 ppb	07:28:22
3	Zn 213.857†	25514.2	25253.1	486.66 µg/L	486.66 ppb	07:28:22
3	Si 251.611†	178055.6	177578.6	4860 µg/L	4860 ppb	07:29:00

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1522977.2	99.635	%	0.2804				0.28%
Sc RADIAL	71221.5	98.8	%	0.89				0.90%
Y 371.029	838016.1	98.858	%	0.2833				0.29%
Ag 328.068†	43206.1	243.26	µg/L	2.256	243.26	ppb	2.256	0.93%
QC value within limits for Ag 328.068 Recovery = 97.30%								
Al 396.153Radial†	27047.9	4961.4	µg/L	20.27	4961.4	ppb	20.27	0.41%
QC value within limits for Al 396.153Radial Recovery = 99.23%								
As 188.979†	1208.4	502.86	µg/L	3.703	502.86	ppb	3.703	0.74%
QC value within limits for As 188.979 Recovery = 100.57%								
B 249.677†	10658.5	499.18	µg/L	4.773	499.18	ppb	4.773	0.96%
QC value within limits for B 249.677 Recovery = 99.84%								
Ba 233.527†	60615.9	488.06	µg/L	4.562	488.06	ppb	4.562	0.93%
QC value within limits for Ba 233.527 Recovery = 97.61%								
Be 313.107†	489068.7	254.99	µg/L	2.549	254.99	ppb	2.549	1.00%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 317.933Radial†	34097.1	5024.3	µg/L	33.28	5024.3	ppb	33.28	0.66%
QC value within limits for Ca 317.933Radial Recovery = 100.49%								
Cd 226.502†	17327.3	476.79	µg/L	4.164	476.79	ppb	4.164	0.87%
QC value within limits for Cd 226.502 Recovery = 95.36%								

Co 228.616†	20628.8	485.54 µg/L	4.028	485.54 ppb	4.028	0.83%
QC value within limits for Co 228.616 Recovery = 97.11%						
Cr 267.716†	22937.0	481.21 µg/L	4.253	481.21 ppb	4.253	0.88%
QC value within limits for Cr 267.716 Recovery = 96.24%						
Cu 324.752†	161037.2	491.72 µg/L	5.080	491.72 ppb	5.080	1.03%
QC value within limits for Cu 324.752 Recovery = 98.34%						
Fe 238.204 Radial†	3644.7	5122.9 µg/L	34.97	5122.9 ppb	34.97	0.68%
QC value within limits for Fe 238.204 Radial Recovery = 102.46%						
K 766.490 Radial†	8995.9	2456.8 µg/L	5.71	2456.8 ppb	5.71	0.23%
QC value within limits for K 766.490 Radial Recovery = 98.27%						
Mg 279.077 IEC†	2546.1	5286.9 µg/L	28.91	5286.9 ppb	28.91	0.55%
QC value within limits for Mg 279.077 IEC Recovery = 105.74%						
Mn 257.610†	386727.7	520.15 µg/L	4.925	520.15 ppb	4.925	0.95%
QC value within limits for Mn 257.610 Recovery = 104.03%						
Mo 202.031†	4738.8	513.94 µg/L	2.213	513.94 ppb	2.213	0.43%
QC value within limits for Mo 202.031 Recovery = 102.79%						
Na 589.592 Radial†	24002.5	2462.1 µg/L	10.65	2462.1 ppb	10.65	0.43%
QC value within limits for Na 589.592 Radial Recovery = 98.48%						
Ni 231.604†	10856.8	522.15 µg/L	1.624	522.15 ppb	1.624	0.31%
QC value within limits for Ni 231.604 Recovery = 104.43%						
P 214.914†	3684.3	2393.0 µg/L	11.94	2393.0 ppb	11.94	0.50%
QC value within limits for P 214.914 Recovery = 95.72%						
Pb 220.353†	2529.8	489.67 µg/L	2.598	489.67 ppb	2.598	0.53%
QC value within limits for Pb 220.353 Recovery = 97.93%						
S 181.975 Axial†	1400.5	2463.9 µg/L	10.54	2463.9 ppb	10.54	0.43%
QC value within limits for S 181.975 Axial Recovery = 98.56%						
Sb 206.836†	1306.5	497.29 µg/L	0.440	497.29 ppb	0.440	0.09%
QC value within limits for Sb 206.836 Recovery = 99.46%						
Se 196.026†	3415.0	2420 µg/L	9.7	2420 ppb	9.7	0.40%
QC value within limits for Se 196.026 Recovery = 96.73%						
SiO2 †	178518.8	10413 µg/L	102.2	10413 ppb	102.2	0.98%
QC value within limits for SiO2 Recovery = 97.36%						
Si 251.611†	178505.2	4890 µg/L	24.8	4890 ppb	24.8	0.51%
QC value within limits for Si 251.611 Recovery = 97.74%						
Sn 189.927†	2260.2	491.75 µg/L	2.855	491.75 ppb	2.855	0.58%
QC value within limits for Sn 189.927 Recovery = 98.35%						
Sr 421.552†	200053.5	503.74 µg/L	1.832	503.74 ppb	1.832	0.36%
QC value within limits for Sr 421.552 Recovery = 100.75%						
Ti 334.940†	502222.6	497.06 µg/L	5.101	497.06 ppb	5.101	1.03%
QC value within limits for Ti 334.940 Recovery = 99.41%						
Tl 190.801†	1604.5	515.49 µg/L	2.810	515.49 ppb	2.810	0.55%
QC value within limits for Tl 190.801 Recovery = 103.10%						
U 409.014†	10728.7	523.75 µg/L	6.991	523.75 ppb	6.991	1.33%
QC value within limits for U 409.014 Recovery = 104.75%						
V 292.402†	46122.9	502.27 µg/L	4.712	502.27 ppb	4.712	0.94%
QC value within limits for V 292.402 Recovery = 100.45%						
Zn 213.857†	25543.9	492.28 µg/L	5.355	492.28 ppb	5.355	1.09%
QC value within limits for Zn 213.857 Recovery = 98.46%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/14/2006 07:31:09
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72519.6	72519.6	101	%			07:32:56
1	Al 396.153Radial†	97.2	60.5	11.093	µg/L	11.093	ppb	07:32:56
1	Ca 317.933Radial†	265.6	8.5	1.2471	µg/L	1.2471	ppb	07:33:16
1	Fe 238.204 Radial†	42.7	1.7	2.4403	µg/L	2.4403	ppb	07:33:16
1	K 766.490 Radial†	1116.9	33.1	9.0406	µg/L	9.0406	ppb	07:32:56
1	Mg 279.077 IEC†	1.7	0.5	1.0236	µg/L	1.0236	ppb	07:33:16
1	Na 589.592 Radial†	1077.5	-113.3	-11.624	µg/L	-11.624	ppb	07:32:56
1	Sr 421.552†	3.7	-0.9	-0.0023	µg/L	-0.0023	ppb	07:32:56
1	Sc 361.383	1533925.3	1533925.3	100.35	%			07:34:14
1	Y 371.029	849342.8	849342.8	100.19	%			07:34:14
1	Ag 328.068†	-849.7	71.8	0.4011	µg/L	0.4011	ppb	07:34:20
1	As 188.979†	-4.5	-6.9	-2.8536	µg/L	-2.8536	ppb	07:34:40
1	B 249.677†	212.0	125.5	5.8677	µg/L	5.8677	ppb	07:34:40
1	Ba 233.527†	-107.9	10.1	0.0812	µg/L	0.0812	ppb	07:34:40
1	Be 313.107†	396.3	31.8	0.0166	µg/L	0.0166	ppb	07:34:20
1	Cd 226.502†	-33.6	-0.8	-0.0223	µg/L	-0.0223	ppb	07:34:40
1	Co 228.616†	-62.5	0.5	0.0130	µg/L	0.0130	ppb	07:34:40
1	Cr 267.716†	46.6	-8.7	-0.1823	µg/L	-0.1823	ppb	07:34:40
1	Cu 324.752†	3879.8	1.1	0.0013	µg/L	0.0013	ppb	07:34:20
1	Mn 257.610†	393.0	20.4	0.0277	µg/L	0.0277	ppb	07:34:40
1	Mo 202.031†	-0.3	13.1	1.4193	µg/L	1.4193	ppb	07:34:40
1	Ni 231.604†	154.9	-3.1	-0.1434	µg/L	-0.1434	ppb	07:34:40
1	P 214.914†	169.3	1.9	1.1884	µg/L	1.1884	ppb	07:34:40
1	Pb 220.353†	5.2	-1.7	-0.3232	µg/L	-0.3232	ppb	07:34:40
1	S 181.975 Axial†	28.2	-1.5	-2.6673	µg/L	-2.6673	ppb	07:34:40
1	Sb 206.836†	29.6	13.4	5.0531	µg/L	5.0531	ppb	07:34:40
1	Se 196.026†	-16.6	8.1	5.73	µg/L	5.73	ppb	07:34:40
1	SiO2 †	816.6	97.8	5.7068	µg/L	5.7068	ppb	07:34:40
1	Sn 189.927†	-22.6	0.3	0.0668	µg/L	0.0668	ppb	07:34:40
1	Ti 334.940†	646.6	101.4	0.1006	µg/L	0.1006	ppb	07:34:20
1	Tl 190.801†	-29.3	0.4	0.1297	µg/L	0.1297	ppb	07:34:40
1	U 409.014†	393.7	25.1	1.2169	µg/L	1.2169	ppb	07:34:20
1	V 292.402†	-89.2	-3.6	-0.0246	µg/L	-0.0246	ppb	07:34:20
1	Zn 213.857†	313.9	18.6	0.3603	µg/L	0.3603	ppb	07:34:40
1	Si 251.611†	784.6	73.9	2.02	µg/L	2.02	ppb	07:36:02
2	Sc RADIAL	72242.6	72242.6	100	%			07:33:21
2	Al 396.153Radial†	42.3	6.1	1.1008	µg/L	1.1008	ppb	07:33:21
2	Ca 317.933Radial†	271.4	15.3	2.2583	µg/L	2.2583	ppb	07:33:41
2	Fe 238.204 Radial†	41.1	0.4	0.5476	µg/L	0.5476	ppb	07:33:41
2	K 766.490 Radial†	1050.1	-29.4	-8.0178	µg/L	-8.0178	ppb	07:33:21
2	Mg 279.077 IEC†	8.1	6.9	14.280	µg/L	14.280	ppb	07:33:41
2	Na 589.592 Radial†	1000.8	-185.7	-19.053	µg/L	-19.053	ppb	07:33:21
2	Sr 421.552†	16.3	11.6	0.0292	µg/L	0.0292	ppb	07:33:21
2	Sc 361.383	1541658.7	1541658.7	100.86	%			07:34:45
2	Y 371.029	854001.6	854001.6	100.74	%			07:34:45
2	Ag 328.068†	-868.4	57.6	0.3216	µg/L	0.3216	ppb	07:34:50
2	As 188.979†	4.4	1.9	0.7915	µg/L	0.7915	ppb	07:35:11
2	B 249.677†	208.0	120.5	5.6336	µg/L	5.6336	ppb	07:35:11
2	Ba 233.527†	-122.4	-3.7	-0.0294	µg/L	-0.0294	ppb	07:35:11
2	Be 313.107†	356.0	-10.0	-0.0053	µg/L	-0.0053	ppb	07:34:50
2	Cd 226.502†	-34.6	-1.5	-0.0426	µg/L	-0.0426	ppb	07:35:11
2	Co 228.616†	-60.5	2.7	0.0644	µg/L	0.0644	ppb	07:35:11
2	Cr 267.716†	48.1	-7.4	-0.1556	µg/L	-0.1556	ppb	07:35:11
2	Cu 324.752†	3784.1	-113.2	-0.3471	µg/L	-0.3471	ppb	07:34:50
2	Mn 257.610†	412.6	37.8	0.0509	µg/L	0.0509	ppb	07:35:11
2	Mo 202.031†	-7.7	5.7	0.6190	µg/L	0.6190	ppb	07:35:11
2	Ni 231.604†	163.6	4.7	0.2293	µg/L	0.2293	ppb	07:35:11
2	P 214.914†	168.1	-0.1	-0.0862	µg/L	-0.0862	ppb	07:35:11

2	Pb 220.353†	10.4	3.4	0.6602 µg/L	0.6602 ppb	07:35:11
2	S 181.975 Axial†	30.0	0.1	0.1644 µg/L	0.1644 ppb	07:35:11
2	Sb 206.836†	24.5	8.2	3.1029 µg/L	3.1029 ppb	07:35:11
2	Se 196.026†	-23.0	1.8	1.28 µg/L	1.28 ppb	07:35:11
2	SiO2 †	794.9	72.2	4.2135 µg/L	4.2135 ppb	07:35:11
2	Sn 189.927†	-26.6	-3.5	-0.7548 µg/L	-0.7548 ppb	07:35:11
2	Ti 334.940†	641.7	93.4	0.0924 µg/L	0.0924 ppb	07:34:50
2	Tl 190.801†	-20.0	9.8	3.1468 µg/L	3.1468 ppb	07:35:11
2	U 409.014†	385.5	14.9	0.7263 µg/L	0.7263 ppb	07:34:50
2	V 292.402†	-66.6	19.3	0.2136 µg/L	0.2136 ppb	07:34:50
2	Zn 213.857†	315.3	18.5	0.3577 µg/L	0.3577 ppb	07:35:11
2	Si 251.611†	780.1	65.5	1.79 µg/L	1.79 ppb	07:36:23
3	Sc RADIAL	72039.1	72039.1	99.9 %		07:33:46
3	Al 396.153Radial†	30.8	-5.2	-0.9789 µg/L	-0.9789 ppb	07:33:46
3	Ca 317.933Radial†	260.6	5.3	0.7752 µg/L	0.7752 ppb	07:34:06
3	Fe 238.204 Radial†	40.9	0.3	0.3628 µg/L	0.3628 ppb	07:34:06
3	K 766.490 Radial†	1064.2	-12.2	-3.3403 µg/L	-3.3403 ppb	07:33:46
3	Mg 279.077 IEC†	5.1	3.9	8.0309 µg/L	8.0309 ppb	07:34:06
3	Na 589.592 Radial†	957.6	-226.1	-23.194 µg/L	-23.194 ppb	07:33:46
3	Sr 421.552†	-22.0	-26.6	-0.0670 µg/L	-0.0670 ppb	07:33:46
3	Sc 361.383	1537221.8	1537221.8	100.57 %		07:35:16
3	Y 371.029	851283.5	851283.5	100.42 %		07:35:16
3	Ag 328.068†	-823.9	99.3	0.5532 µg/L	0.5532 ppb	07:35:21
3	As 188.979†	-1.8	-4.2	-1.7142 µg/L	-1.7142 ppb	07:35:42
3	B 249.677†	209.5	122.6	5.7305 µg/L	5.7305 ppb	07:35:42
3	Ba 233.527†	-111.7	6.5	0.0525 µg/L	0.0525 ppb	07:35:42
3	Be 313.107†	373.9	8.8	0.0046 µg/L	0.0046 ppb	07:35:21
3	Cd 226.502†	-34.7	-1.7	-0.0479 µg/L	-0.0479 ppb	07:35:42
3	Co 228.616†	-52.3	10.7	0.2528 µg/L	0.2528 ppb	07:35:42
3	Cr 267.716†	55.3	-0.1	-0.0017 µg/L	-0.0017 ppb	07:35:42
3	Cu 324.752†	3841.3	-45.5	-0.1374 µg/L	-0.1374 ppb	07:35:21
3	Mn 257.610†	380.4	7.0	0.0094 µg/L	0.0094 ppb	07:35:42
3	Mo 202.031†	-9.3	4.1	0.4437 µg/L	0.4437 ppb	07:35:42
3	Ni 231.604†	156.3	-2.0	-0.0951 µg/L	-0.0951 ppb	07:35:42
3	P 214.914†	164.2	-3.6	-2.3440 µg/L	-2.3440 ppb	07:35:42
3	Pb 220.353†	8.6	1.7	0.3284 µg/L	0.3284 ppb	07:35:42
3	S 181.975 Axial†	26.6	-3.2	-5.6076 µg/L	-5.6076 ppb	07:35:42
3	Sb 206.836†	32.2	15.9	5.9933 µg/L	5.9933 ppb	07:35:42
3	Se 196.026†	-20.9	3.8	2.71 µg/L	2.71 ppb	07:35:42
3	SiO2 †	791.2	70.8	4.1316 µg/L	4.1316 ppb	07:35:42
3	Sn 189.927†	-25.0	-2.0	-0.4345 µg/L	-0.4345 ppb	07:35:42
3	Ti 334.940†	597.6	51.3	0.0509 µg/L	0.0509 ppb	07:35:21
3	Tl 190.801†	-25.7	4.1	1.3013 µg/L	1.3013 ppb	07:35:42
3	U 409.014†	325.8	-43.3	-2.1037 µg/L	-2.1037 ppb	07:35:21
3	V 292.402†	-98.1	-12.3	-0.1297 µg/L	-0.1297 ppb	07:35:21
3	Zn 213.857†	303.2	7.3	0.1403 µg/L	0.1403 ppb	07:35:42
3	Si 251.611†	770.1	57.8	1.58 µg/L	1.58 ppb	07:36:43

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1537601.9	100.59	%	0.254				0.25%
Sc RADIAL	72267.1	100	%	0.3				0.33%
Y 371.029	851542.6	100.45	%	0.276				0.27%
Ag 328.068†	76.2	0.4253	µg/L	0.11770	0.4253	ppb	0.11770	27.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	20.5	3.7384	µg/L	6.45379	3.7384	ppb	6.45379	172.64%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.1	-1.2587	µg/L	1.86471	-1.2587	ppb	1.86471	148.14%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	122.9	5.7440	µg/L	0.11761	5.7440	ppb	0.11761	2.05%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.3	0.0348	µg/L	0.05740	0.0348	ppb	0.05740	165.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	10.2	0.0053	µg/L	0.01093	0.0053	ppb	0.01093	206.45%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.7	1.4269	µg/L	0.75776	1.4269	ppb	0.75776	53.11%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-1.4	-0.0376	µg/L	0.01351	-0.0376	ppb	0.01351	35.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                 4.6      0.1101 µg/L       0.12628      0.1101 ppb        0.12628 114.72%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -5.4     -0.1132 µg/L       0.09748     -0.1132 ppb        0.09748  86.13%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -52.6     -0.1611 µg/L       0.17540     -0.1611 ppb        0.17540 108.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.8      1.1169 µg/L       1.14981      1.1169 ppb        1.14981 102.95%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -2.8     -0.7725 µg/L       8.81432     -0.7725 ppb        8.81432 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             3.7      7.7782 µg/L       6.63180      7.7782 ppb        6.63180  85.26%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                21.7      0.0293 µg/L       0.02080      0.0293 ppb        0.02080  70.92%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 7.6      0.8274 µg/L       0.52011      0.8274 ppb        0.52011  62.86%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -175.1     -17.957 µg/L        5.8623     -17.957 ppb         5.8623  32.65%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -0.1     -0.0030 µg/L       0.20265     -0.0030 ppb        0.20265 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -0.6     -0.4139 µg/L       1.78889     -0.4139 ppb        1.78889 432.17%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 1.1      0.2218 µg/L       0.50031      0.2218 ppb        0.50031 225.58%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -1.5     -2.7035 µg/L       2.88613     -2.7035 ppb        2.88613 106.76%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                12.5      4.7164 µg/L       1.47429      4.7164 ppb        1.47429  31.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.6        3.24 µg/L         2.274        3.24 ppb          2.274  70.19%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2 †                     80.3      4.6840 µg/L       0.88674      4.6840 ppb        0.88674  18.93%
   QC value within limits for SiO2   Recovery = Not calculated
Si 251.611†                65.7        1.80 µg/L         0.220        1.80 ppb          0.220  12.24%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -1.7     -0.3741 µg/L       0.41411     -0.3741 ppb        0.41411 110.68%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -5.3     -0.0134 µg/L       0.04904     -0.0134 ppb        0.04904 367.02%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                82.1      0.0813 µg/L       0.02662      0.0813 ppb        0.02662  32.74%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.8      1.5260 µg/L       1.52102      1.5260 ppb        1.52102  99.68%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                 -1.1     -0.0535 µg/L       1.79240     -0.0535 ppb        1.79240 >999.9%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                  1.1      0.0197 µg/L       0.17589      0.0197 ppb        0.17589 891.48%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                14.8      0.2861 µg/L       0.12625      0.2861 ppb        0.12625  44.13%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8
Sample ID: PQL
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 3/14/2006 07:38:51
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71701.8	71701.8	99.5	%			07:40:38
1	Al 396.153Radial†	1147.3	1117.6	205.47	µg/L	205.47	ppb	07:40:38
1	Ca 317.933Radial†	971.5	721.3	106.28	µg/L	106.28	ppb	07:40:58
1	Fe 238.204 Radial†	118.6	78.5	110.40	µg/L	110.40	ppb	07:40:58
1	K 766.490 Radial†	1580.8	512.2	139.88	µg/L	139.88	ppb	07:40:38
1	Mg 279.077 IEC†	165.0	164.7	341.43	µg/L	341.43	ppb	07:40:58
1	Na 589.592 Radial†	2523.6	1353.0	138.79	µg/L	138.79	ppb	07:40:38
1	Sr 421.552†	1965.7	1971.9	4.9638	µg/L	4.9638	ppb	07:40:38
1	Sc 361.383	1522566.0	1522566.0	99.609	%			07:41:56
1	Y 371.029	843293.9	843293.9	99.480	%			07:41:56
1	Ag 328.068†	52.0	970.7	5.4488	µg/L	5.4488	ppb	07:42:02
1	As 188.979†	36.6	34.4	14.213	µg/L	14.213	ppb	07:42:22
1	B 249.677†	1215.8	1134.8	53.042	µg/L	53.042	ppb	07:42:02
1	Ba 233.527†	518.7	638.3	5.1399	µg/L	5.1399	ppb	07:42:22
1	Be 313.107†	9713.5	9388.7	4.8947	µg/L	4.8947	ppb	07:42:02
1	Cd 226.502†	149.3	182.6	5.0193	µg/L	5.0193	ppb	07:42:22
1	Co 228.616†	162.5	225.9	5.3249	µg/L	5.3249	ppb	07:42:22
1	Cr 267.716†	300.4	246.5	5.1530	µg/L	5.1530	ppb	07:42:22
1	Cu 324.752†	7261.4	3424.8	10.416	µg/L	10.416	ppb	07:42:02
1	Mn 257.610†	8204.2	7865.2	10.579	µg/L	10.579	ppb	07:42:02
1	Mo 202.031†	88.7	102.4	11.108	µg/L	11.108	ppb	07:42:22
1	Ni 231.604†	265.8	109.4	5.2741	µg/L	5.2741	ppb	07:42:22
1	P 214.914†	385.6	220.3	143.25	µg/L	143.25	ppb	07:42:22
1	Pb 220.353†	60.1	53.4	10.362	µg/L	10.362	ppb	07:42:22
1	S 181.975 Axial†	84.1	54.8	96.354	µg/L	96.354	ppb	07:42:22
1	Sb 206.836†	51.0	35.1	13.317	µg/L	13.317	ppb	07:42:22
1	Se 196.026†	-2.8	21.8	15.6	µg/L	15.6	ppb	07:42:22
1	SiO2 †	4364.3	3665.6	213.80	µg/L	213.80	ppb	07:42:02
1	Sn 189.927†	23.7	46.7	10.172	µg/L	10.172	ppb	07:42:22
1	Ti 334.940†	5601.8	5081.0	5.0301	µg/L	5.0301	ppb	07:42:02
1	Tl 190.801†	33.7	63.4	20.374	µg/L	20.374	ppb	07:42:22
1	U 409.014†	1423.8	1062.1	51.605	µg/L	51.605	ppb	07:42:02
1	V 292.402†	328.0	414.6	4.6306	µg/L	4.6306	ppb	07:42:02
1	Zn 213.857†	836.4	545.5	10.511	µg/L	10.511	ppb	07:42:22
1	Si 251.611†	4320.0	3629.0	99.4	µg/L	99.4	ppb	07:43:29
2	Sc RADIAL	71587.5	71587.5	99.3	%			07:41:03
2	Al 396.153Radial†	1133.4	1105.4	203.26	µg/L	203.26	ppb	07:41:03
2	Ca 317.933Radial†	964.8	716.0	105.51	µg/L	105.51	ppb	07:41:23
2	Fe 238.204 Radial†	114.9	75.0	105.44	µg/L	105.44	ppb	07:41:23
2	K 766.490 Radial†	1665.9	600.4	163.97	µg/L	163.97	ppb	07:41:03
2	Mg 279.077 IEC†	158.7	158.6	328.77	µg/L	328.77	ppb	07:41:23
2	Na 589.592 Radial†	2544.9	1378.5	141.40	µg/L	141.40	ppb	07:41:03
2	Sr 421.552†	2013.1	2022.7	5.0917	µg/L	5.0917	ppb	07:41:03
2	Sc 361.383	1566405.5	1566405.5	102.48	%			07:42:27
2	Y 371.029	867520.4	867520.4	102.34	%			07:42:27
2	Ag 328.068†	-55.3	864.6	4.8558	µg/L	4.8558	ppb	07:42:33
2	As 188.979†	39.4	36.1	14.908	µg/L	14.908	ppb	07:42:53
2	B 249.677†	1226.6	1111.2	51.939	µg/L	51.939	ppb	07:42:33
2	Ba 233.527†	534.2	638.9	5.1447	µg/L	5.1447	ppb	07:42:53
2	Be 313.107†	9641.4	9045.4	4.7158	µg/L	4.7158	ppb	07:42:33
2	Cd 226.502†	143.9	173.1	4.7581	µg/L	4.7581	ppb	07:42:53
2	Co 228.616†	159.1	218.0	5.1368	µg/L	5.1368	ppb	07:42:53
2	Cr 267.716†	298.1	235.8	4.9286	µg/L	4.9286	ppb	07:42:53
2	Cu 324.752†	7233.5	3193.5	9.7127	µg/L	9.7127	ppb	07:42:33
2	Mn 257.610†	8083.7	7517.1	10.111	µg/L	10.111	ppb	07:42:33
2	Mo 202.031†	82.9	94.3	10.224	µg/L	10.224	ppb	07:42:53
2	Ni 231.604†	266.4	102.6	4.9454	µg/L	4.9454	ppb	07:42:53
2	P 214.914†	394.5	218.1	141.80	µg/L	141.80	ppb	07:42:53

2	Pb 220.353†	62.3	53.9	10.453	µg/L	10.453 ppb	07:42:53
2	S 181.975 Axial†	88.5	56.8	99.800	µg/L	99.800 ppb	07:42:53
2	Sb 206.836†	55.2	37.8	14.330	µg/L	14.330 ppb	07:42:53
2	Se 196.026†	2.5	27.0	19.3	µg/L	19.3 ppb	07:42:53
2	SiO2 †	4364.2	3542.8	206.64	µg/L	206.64 ppb	07:42:33
2	Sn 189.927†	17.3	39.7	8.6600	µg/L	8.6600 ppb	07:42:53
2	Ti 334.940†	5566.5	4889.2	4.8402	µg/L	4.8402 ppb	07:42:33
2	Tl 190.801†	38.0	66.7	21.435	µg/L	21.435 ppb	07:42:53
2	U 409.014†	1398.1	997.0	48.444	µg/L	48.444 ppb	07:42:33
2	V 292.402†	333.5	410.7	4.5764	µg/L	4.5764 ppb	07:42:33
2	Zn 213.857†	842.4	527.8	10.172	µg/L	10.172 ppb	07:42:53
2	Si 251.611†	4327.7	3515.2	96.2	µg/L	96.2 ppb	07:43:35
3	Sc RADIAL	72143.7	72143.7	100	%		07:41:28
3	Al 396.153Radial†	1128.9	1092.1	200.78	µg/L	200.78 ppb	07:41:28
3	Ca 317.933Radial†	974.5	718.3	105.84	µg/L	105.84 ppb	07:41:48
3	Fe 238.204 Radial†	117.3	76.5	107.56	µg/L	107.56 ppb	07:41:48
3	K 766.490 Radial†	1652.8	574.4	156.87	µg/L	156.87 ppb	07:41:28
3	Mg 279.077 IEC†	161.6	160.3	332.33	µg/L	332.33 ppb	07:41:48
3	Na 589.592 Radial†	2598.3	1412.1	144.85	µg/L	144.85 ppb	07:41:28
3	Sr 421.552†	1990.2	1984.2	4.9948	µg/L	4.9948 ppb	07:41:28
3	Sc 361.383	1544067.4	1544067.4	101.02	%		07:42:58
3	Y 371.029	855179.9	855179.9	100.88	%		07:42:58
3	Ag 328.068†	38.5	956.6	5.3702	µg/L	5.3702 ppb	07:43:03
3	As 188.979†	31.9	29.1	12.056	µg/L	12.056 ppb	07:43:24
3	B 249.677†	1223.9	1125.9	52.624	µg/L	52.624 ppb	07:43:03
3	Ba 233.527†	526.2	638.6	5.1422	µg/L	5.1422 ppb	07:43:24
3	Be 313.107†	9723.1	9262.3	4.8289	µg/L	4.8289 ppb	07:43:03
3	Cd 226.502†	151.2	182.4	5.0129	µg/L	5.0129 ppb	07:43:24
3	Co 228.616†	165.7	226.8	5.3452	µg/L	5.3452 ppb	07:43:24
3	Cr 267.716†	298.5	240.4	5.0252	µg/L	5.0252 ppb	07:43:24
3	Cu 324.752†	7234.5	3296.7	10.024	µg/L	10.024 ppb	07:43:03
3	Mn 257.610†	8222.0	7768.1	10.449	µg/L	10.449 ppb	07:43:03
3	Mo 202.031†	86.5	99.0	10.733	µg/L	10.733 ppb	07:43:24
3	Ni 231.604†	261.5	101.4	4.8919	µg/L	4.8919 ppb	07:43:24
3	P 214.914†	389.2	218.5	142.04	µg/L	142.04 ppb	07:43:24
3	Pb 220.353†	60.1	52.6	10.197	µg/L	10.197 ppb	07:43:24
3	S 181.975 Axial†	83.0	52.6	92.410	µg/L	92.410 ppb	07:43:24
3	Sb 206.836†	49.7	33.1	12.585	µg/L	12.585 ppb	07:43:24
3	Se 196.026†	-6.0	18.7	13.4	µg/L	13.4 ppb	07:43:24
3	SiO2 †	4373.3	3613.5	210.76	µg/L	210.76 ppb	07:43:03
3	Sn 189.927†	19.9	42.6	9.2707	µg/L	9.2707 ppb	07:43:24
3	Ti 334.940†	5611.6	5012.3	4.9619	µg/L	4.9619 ppb	07:43:03
3	Tl 190.801†	37.2	66.4	21.336	µg/L	21.336 ppb	07:43:24
3	U 409.014†	1452.6	1070.7	52.024	µg/L	52.024 ppb	07:43:03
3	V 292.402†	367.9	449.5	5.0025	µg/L	5.0025 ppb	07:43:03
3	Zn 213.857†	836.4	533.8	10.287	µg/L	10.287 ppb	07:43:24
3	Si 251.611†	4321.9	3570.5	97.7	µg/L	97.7 ppb	07:43:40

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1544346.3	101.03	%	1.434				1.42%
Sc RADIAL	71811.0	99.6	%	0.41				0.41%
Y 371.029	855331.4	100.90	%	1.429				1.42%
Ag 328.068†	930.7	5.2250	µg/L	0.32207	5.2250	ppb	0.32207	6.16%
QC value within limits for Ag 328.068 Recovery = 104.50%								
Al 396.153Radial†	1105.0	203.17	µg/L	2.346	203.17	ppb	2.346	1.15%
QC value within limits for Al 396.153Radial Recovery = 101.59%								
As 188.979†	33.2	13.726	µg/L	1.4869	13.726	ppb	1.4869	10.83%
QC value within limits for As 188.979 Recovery = 91.51%								
B 249.677†	1124.0	52.535	µg/L	0.5570	52.535	ppb	0.5570	1.06%
QC value within limits for B 249.677 Recovery = 105.07%								
Ba 233.527†	638.6	5.1423	µg/L	0.00238	5.1423	ppb	0.00238	0.05%
QC value within limits for Ba 233.527 Recovery = 102.85%								
Be 313.107†	9232.1	4.8131	µg/L	0.09052	4.8131	ppb	0.09052	1.88%
QC value within limits for Be 313.107 Recovery = 96.26%								
Ca 317.933Radial†	718.5	105.88	µg/L	0.388	105.88	ppb	0.388	0.37%
QC value within limits for Ca 317.933Radial Recovery = 105.88%								
Cd 226.502†	179.4	4.9301	µg/L	0.14895	4.9301	ppb	0.14895	3.02%
QC value within limits for Cd 226.502 Recovery = 98.60%								

Co 228.616†	223.6	5.2690 µg/L	0.11489	5.2690 ppb	0.11489	2.18%
QC value within limits for Co 228.616 Recovery = 105.38%						
Cr 267.716†	240.9	5.0356 µg/L	0.11256	5.0356 ppb	0.11256	2.24%
QC value within limits for Cr 267.716 Recovery = 100.71%						
Cu 324.752†	3305.0	10.051 µg/L	0.3525	10.051 ppb	0.3525	3.51%
QC value within limits for Cu 324.752 Recovery = 100.51%						
Fe 238.204 Radial†	76.7	107.80 µg/L	2.489	107.80 ppb	2.489	2.31%
QC value within limits for Fe 238.204 Radial Recovery = 107.80%						
K 766.490 Radial†	562.3	153.57 µg/L	12.379	153.57 ppb	12.379	8.06%
QC value within limits for K 766.490 Radial Recovery = 102.38%						
Mg 279.077 IEC†	161.2	334.18 µg/L	6.529	334.18 ppb	6.529	1.95%
QC value within limits for Mg 279.077 IEC Recovery = 111.39%						
Mn 257.610†	7716.8	10.380 µg/L	0.2416	10.380 ppb	0.2416	2.33%
QC value within limits for Mn 257.610 Recovery = 103.80%						
Mo 202.031†	98.6	10.689 µg/L	0.4438	10.689 ppb	0.4438	4.15%
QC value within limits for Mo 202.031 Recovery = 106.89%						
Na 589.592 Radial†	1381.2	141.68 µg/L	3.041	141.68 ppb	3.041	2.15%
QC value within limits for Na 589.592 Radial Recovery = 94.45%						
Ni 231.604†	104.4	5.0371 µg/L	0.20694	5.0371 ppb	0.20694	4.11%
QC value within limits for Ni 231.604 Recovery = 100.74%						
P 214.914†	219.0	142.36 µg/L	0.776	142.36 ppb	0.776	0.54%
QC value within limits for P 214.914 Recovery = 94.91%						
Pb 220.353†	53.3	10.337 µg/L	0.1299	10.337 ppb	0.1299	1.26%
QC value within limits for Pb 220.353 Recovery = 103.37%						
S 181.975 Axial†	54.7	96.188 µg/L	3.6981	96.188 ppb	3.6981	3.84%
QC value within limits for S 181.975 Axial Recovery = 96.19%						
Sb 206.836†	35.3	13.411 µg/L	0.8764	13.411 ppb	0.8764	6.54%
QC value greater than the upper limit for Sb 206.836 Recovery = 134.11%						
Se 196.026†	22.5	16.1 µg/L	2.99	16.1 ppb	2.99	18.58%
QC value within limits for Se 196.026 Recovery = 107.21%						
SiO2 †	3607.3	210.40 µg/L	3.593	210.40 ppb	3.593	1.71%
QC value within limits for SiO2 Recovery = 98.78%						
Si 251.611†	3571.6	97.8 µg/L	1.56	97.8 ppb	1.56	1.59%
QC value within limits for Si 251.611 Recovery = 97.78%						
Sn 189.927†	43.0	9.3675 µg/L	0.76052	9.3675 ppb	0.76052	8.12%
QC value within limits for Sn 189.927 Recovery = 93.68%						
Sr 421.552†	1993.0	5.0167 µg/L	0.06676	5.0167 ppb	0.06676	1.33%
QC value within limits for Sr 421.552 Recovery = 100.33%						
Ti 334.940†	4994.2	4.9440 µg/L	0.09621	4.9440 ppb	0.09621	1.95%
QC value within limits for Ti 334.940 Recovery = 98.88%						
Tl 190.801†	65.5	21.048 µg/L	0.5861	21.048 ppb	0.5861	2.78%
QC value within limits for Tl 190.801 Recovery = 105.24%						
U 409.014†	1043.3	50.691 µg/L	1.9573	50.691 ppb	1.9573	3.86%
QC value within limits for U 409.014 Recovery = 101.38%						
V 292.402†	424.9	4.7365 µg/L	0.23199	4.7365 ppb	0.23199	4.90%
QC value within limits for V 292.402 Recovery = 94.73%						
Zn 213.857†	535.7	10.323 µg/L	0.1725	10.323 ppb	0.1725	1.67%
QC value within limits for Zn 213.857 Recovery = 103.23%						

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICSA
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 3/14/2006 07:45:48
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	63748.8	63748.8	88.4	%			07:47:41
1	Al 396.153Radial†	2489981.5	2815982.7	519020	µg/L	519020	ppb	07:47:36
1	Ca 317.933Radial†	2883568.7	3260886.5	480500	µg/L	480500	ppb	07:47:36
1	Fe 238.204 Radial†	119803.7	135450.1	190380	µg/L	190380	ppb	07:47:41
1	K 766.490 Radial†	1032.8	90.7	24.780	µg/L	24.780	ppb	07:47:41
1	Mg 279.077 IEC†	219564.5	248313.0	514160	µg/L	514160	ppb	07:47:41
1	Na 589.592 Radial†	1485.0	494.9	50.764	µg/L	50.764	ppb	07:47:41
1	Sr 421.552†	5372.0	6070.8	1.7811	µg/L	1.7811	ppb	07:47:41
1	Sc 361.383	1295968.5	1295968.5	84.784	%			07:48:14
1	Y 371.029	705279.5	705279.5	83.199	%			07:48:14
1	Ag 328.068†	-6054.1	-6222.1	7.5688	µg/L	7.5688	ppb	07:48:14
1	As 188.979†	23.9	25.8	9.1391	µg/L	9.1391	ppb	07:48:34
1	B 249.677†	893.1	967.7	-11.009	µg/L	-11.009	ppb	07:48:14
1	Ba 233.527†	163.7	310.7	0.2626	µg/L	0.2626	ppb	07:48:34
1	Be 313.107†	-1275.4	-1867.4	-0.9729	µg/L	-0.9729	ppb	07:48:14
1	Cd 226.502†	353.8	450.0	-6.3460	µg/L	-6.3460	ppb	07:48:34
1	Co 228.616†	75.0	151.2	-0.0457	µg/L	-0.0457	ppb	07:48:34
1	Cr 267.716†	38.8	-9.3	-0.2060	µg/L	-0.2060	ppb	07:48:34
1	Cu 324.752†	1360.6	-2260.4	-1.0313	µg/L	-1.0313	ppb	07:48:14
1	Mn 257.610†	-8328.1	-10193.9	5.8178	µg/L	5.8178	ppb	07:48:14
1	Mo 202.031†	-105.5	-111.1	-7.3586	µg/L	-7.3586	ppb	07:48:34
1	Ni 231.604†	96.1	-44.1	5.1267	µg/L	5.1267	ppb	07:48:34
1	P 214.914†	227.1	101.0	-139.06	µg/L	-139.06	ppb	07:48:34
1	Pb 220.353†	-240.6	-290.7	-5.9966	µg/L	-5.9966	ppb	07:48:34
1	S 181.975 Axial†	33.5	9.9	-94.919	µg/L	-94.919	ppb	07:48:34
1	Sb 206.836†	20.1	7.6	0.1473	µg/L	0.1473	ppb	07:48:34
1	Se 196.026†	-15.9	5.9	-6.72	µg/L	-6.72	ppb	07:48:34
1	SiO2 †	562.3	-52.6	-3.0689	µg/L	-3.0689	ppb	07:48:34
1	Sn 189.927†	-273.8	-300.1	7.0876	µg/L	7.0876	ppb	07:48:34
1	Ti 334.940†	-8985.1	-11140.5	-1.3231	µg/L	-1.3231	ppb	07:48:14
1	Tl 190.801†	-56.9	-37.5	-11.540	µg/L	-11.540	ppb	07:48:34
1	U 409.014†	445.7	158.4	7.6601	µg/L	7.6601	ppb	07:48:14
1	V 292.402†	-427.8	-419.3	-4.6121	µg/L	-4.6121	ppb	07:48:34
1	Zn 213.857†	2699.9	2890.2	11.837	µg/L	11.837	ppb	07:48:34
1	Si 251.611†	497.5	-121.1	-3.32	µg/L	-3.32	ppb	07:49:34
2	Sc RADIAL	63910.8	63910.8	88.6	%			07:47:53
2	Al 396.153Radial†	2510433.3	2831912.7	521960	µg/L	521960	ppb	07:47:48
2	Ca 317.933Radial†	2906053.6	3277981.2	483020	µg/L	483020	ppb	07:47:48
2	Fe 238.204 Radial†	120005.0	135333.6	190220	µg/L	190220	ppb	07:47:53
2	K 766.490 Radial†	1007.4	59.1	16.147	µg/L	16.147	ppb	07:47:53
2	Mg 279.077 IEC†	219690.9	247825.9	513150	µg/L	513150	ppb	07:47:53
2	Na 589.592 Radial†	1429.0	427.5	43.855	µg/L	43.855	ppb	07:47:53
2	Sr 421.552†	5337.6	6016.6	1.5737	µg/L	1.5737	ppb	07:47:53
2	Sc 361.383	1290879.7	1290879.7	84.451	%			07:48:41
2	Y 371.029	702245.7	702245.7	82.841	%			07:48:41
2	Ag 328.068†	-5969.0	-6149.4	7.9377	µg/L	7.9377	ppb	07:48:41
2	As 188.979†	12.8	12.7	3.6157	µg/L	3.6157	ppb	07:49:01
2	B 249.677†	886.4	963.8	-11.140	µg/L	-11.140	ppb	07:48:41
2	Ba 233.527†	177.5	327.8	0.4017	µg/L	0.4017	ppb	07:49:01
2	Be 313.107†	-1204.8	-1789.6	-0.9324	µg/L	-0.9324	ppb	07:48:41
2	Cd 226.502†	323.8	416.1	-7.2648	µg/L	-7.2648	ppb	07:49:01
2	Co 228.616†	85.0	163.3	0.2413	µg/L	0.2413	ppb	07:49:01
2	Cr 267.716†	37.4	-10.8	-0.2388	µg/L	-0.2388	ppb	07:49:01
2	Cu 324.752†	1410.0	-2195.6	-0.8368	µg/L	-0.8368	ppb	07:48:41
2	Mn 257.610†	-8269.7	-10163.5	5.8419	µg/L	5.8419	ppb	07:48:41
2	Mo 202.031†	-106.4	-112.6	-7.5221	µg/L	-7.5221	ppb	07:49:01
2	Ni 231.604†	109.9	-27.3	5.9730	µg/L	5.9730	ppb	07:49:01
2	P 214.914†	241.0	118.5	-127.52	µg/L	-127.52	ppb	07:49:01

2	Pb 220.353†	-245.5	-297.5	-7.0440 µg/L	-7.0440 ppb	07:49:01
2	S 181.975 Axial†	31.9	8.2	-98.483 µg/L	-98.483 ppb	07:49:01
2	Sb 206.836†	18.1	5.3	-0.7291 µg/L	-0.7291 ppb	07:49:01
2	Se 196.026†	-17.2	4.3	-7.79 µg/L	-7.79 ppb	07:49:01
2	SiO2 †	542.0	-74.1	-4.3227 µg/L	-4.3227 ppb	07:49:01
2	Sn 189.927†	-289.7	-320.2	2.9456 µg/L	2.9456 ppb	07:49:01
2	Ti 334.940†	-9299.8	-11554.9	-1.6826 µg/L	-1.6826 ppb	07:48:41
2	Tl 190.801†	-47.9	-27.1	-8.1936 µg/L	-8.1936 ppb	07:49:01
2	U 409.014†	419.5	129.4	6.2569 µg/L	6.2569 ppb	07:48:41
2	V 292.402†	-421.1	-413.4	-4.5520 µg/L	-4.5520 ppb	07:49:01
2	Zn 213.857†	2701.0	2904.0	12.074 µg/L	12.074 ppb	07:49:01
2	Si 251.611†	489.8	-127.9	-3.50 µg/L	-3.50 ppb	07:49:39
3	Sc RADIAL	63545.1	63545.1	88.1 %		07:48:05
3	Al 396.153Radial†	2483512.6	2817671.5	519330 µg/L	519330 ppb	07:48:00
3	Ca 317.933Radial†	2878532.6	3265628.0	481200 µg/L	481200 ppb	07:48:00
3	Fe 238.204 Radial†	119579.5	135630.1	190640 µg/L	190640 ppb	07:48:05
3	K 766.490 Radial†	997.8	54.8	14.966 µg/L	14.966 ppb	07:48:05
3	Mg 279.077 IEC†	218963.4	248427.1	514390 µg/L	514390 ppb	07:48:05
3	Na 589.592 Radial†	1474.9	488.9	50.150 µg/L	50.150 ppb	07:48:05
3	Sr 421.552†	5339.7	6053.7	1.7183 µg/L	1.7183 ppb	07:48:05
3	Sc 361.383	1301258.0	1301258.0	85.130 %		07:49:08
3	Y 371.029	708488.7	708488.7	83.578 %		07:49:08
3	Ag 328.068†	-6056.5	-6195.8	7.7719 µg/L	7.7719 ppb	07:49:08
3	As 188.979†	16.5	16.9	5.4984 µg/L	5.4984 ppb	07:49:28
3	B 249.677†	911.3	984.7	-10.290 µg/L	-10.290 ppb	07:49:08
3	Ba 233.527†	179.1	328.0	0.3982 µg/L	0.3982 ppb	07:49:28
3	Be 313.107†	-1283.9	-1871.3	-0.9750 µg/L	-0.9750 ppb	07:49:08
3	Cd 226.502†	327.2	417.1	-7.2779 µg/L	-7.2779 ppb	07:49:28
3	Co 228.616†	59.4	132.5	-0.4914 µg/L	-0.4914 ppb	07:49:28
3	Cr 267.716†	18.6	-33.2	-0.7080 µg/L	-0.7080 ppb	07:49:28
3	Cu 324.752†	1296.3	-2342.4	-1.2789 µg/L	-1.2789 ppb	07:49:08
3	Mn 257.610†	-8425.1	-10268.0	5.7443 µg/L	5.7443 ppb	07:49:08
3	Mo 202.031†	-111.4	-117.5	-8.0397 µg/L	-8.0397 ppb	07:49:28
3	Ni 231.604†	93.9	-47.2	4.9896 µg/L	4.9896 ppb	07:49:28
3	P 214.914†	238.0	112.8	-131.67 µg/L	-131.67 ppb	07:49:28
3	Pb 220.353†	-259.0	-311.1	-9.9170 µg/L	-9.9170 ppb	07:49:28
3	S 181.975 Axial†	28.8	4.2	-104.98 µg/L	-104.98 ppb	07:49:28
3	Sb 206.836†	0.4	-15.7	-8.6354 µg/L	-8.6354 ppb	07:49:28
3	Se 196.026†	-11.7	10.9	-3.13 µg/L	-3.13 ppb	07:49:28
3	SiO2 †	532.3	-90.6	-5.2845 µg/L	-5.2845 ppb	07:49:28
3	Sn 189.927†	-293.0	-321.3	2.5654 µg/L	2.5654 ppb	07:49:28
3	Ti 334.940†	-9248.3	-11406.6	-1.5725 µg/L	-1.5725 ppb	07:49:08
3	Tl 190.801†	-52.5	-32.0	-9.7840 µg/L	-9.7840 ppb	07:49:28
3	U 409.014†	540.4	267.5	12.965 µg/L	12.965 ppb	07:49:08
3	V 292.402†	-409.2	-395.4	-4.3571 µg/L	-4.3571 ppb	07:49:28
3	Zn 213.857†	2722.7	2904.1	12.055 µg/L	12.055 ppb	07:49:28
3	Si 251.611†	677.0	87.3	2.39 µg/L	2.39 ppb	07:49:44

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1296035.4	84.789	%	0.3395				0.40%
Sc RADIAL	63734.9	88.4	%	0.25				0.29%
Y 371.029	705338.0	83.206	%	0.3683				0.44%
Ag 328.068†	-6189.1	7.7595	µg/L	0.18473	7.7595	ppb	0.18473	2.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2821855.6	520110	µg/L	1612.8	520110	ppb	1612.8	0.31%
QC value within limits for Al 396.153Radial Recovery = 104.02%								
As 188.979†	18.5	6.0844	µg/L	2.80794	6.0844	ppb	2.80794	46.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	972.1	-10.813	µg/L	0.4578	-10.813	ppb	0.4578	4.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	322.2	0.3542	µg/L	0.07934	0.3542	ppb	0.07934	22.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1842.7	-0.9601	µg/L	0.02403	-0.9601	ppb	0.02403	2.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3268165.2	481570	µg/L	1300.4	481570	ppb	1300.4	0.27%
QC value within limits for Ca 317.933Radial Recovery = 96.31%								
Cd 226.502†	427.8	-6.9629	µg/L	0.53432	-6.9629	ppb	0.53432	7.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†              149.0     -0.0986 µg/L       0.36917     -0.0986 ppb        0.36917 374.41%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              -17.8     -0.3843 µg/L       0.28086     -0.3843 ppb        0.28086  73.09%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†            -2266.1     -1.0490 µg/L       0.22158     -1.0490 ppb        0.22158  21.12%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†    135471.2      190410 µg/L         210.0      190410 ppb          210.0   0.11%
   QC value within limits for Fe 238.204 Radial  Recovery = 95.21%
K 766.490 Radial†         68.2      18.631 µg/L        5.3580      18.631 ppb         5.3580  28.76%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†       248188.7      513900 µg/L         661.2      513900 ppb          661.2   0.13%
   QC value within limits for Mg 279.077 IEC  Recovery = 102.78%
Mn 257.610†           -10208.5      5.8013 µg/L       0.05084      5.8013 ppb        0.05084   0.88%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†             -113.7     -7.6402 µg/L       0.35557     -7.6402 ppb        0.35557   4.65%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       470.4      48.256 µg/L        3.8236      48.256 ppb         3.8236   7.92%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†              -39.5      5.3631 µg/L       0.53261      5.3631 ppb        0.53261   9.93%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†               110.8     -132.75 µg/L         5.843     -132.75 ppb          5.843   4.40%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†             -299.8     -7.6525 µg/L       2.02980     -7.6525 ppb        2.02980  26.52%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           7.4     -99.461 µg/L        5.1022     -99.461 ppb         5.1022   5.13%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†               -0.9     -3.0724 µg/L       4.83756     -3.0724 ppb        4.83756 157.45%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                7.0      -5.88 µg/L         2.441      -5.88 ppb          2.441  41.50%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2 †                   -72.4     -4.2254 µg/L       1.11097     -4.2254 ppb        1.11097  26.29%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†              -53.9      -1.48 µg/L         3.349      -1.48 ppb          3.349 226.94%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†             -313.9      4.1995 µg/L       2.50834      4.1995 ppb        2.50834  59.73%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†             6047.0      1.6910 µg/L       0.10637      1.6910 ppb        0.10637   6.29%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†           -11367.3     -1.5261 µg/L       0.18422     -1.5261 ppb        0.18422  12.07%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†              -32.2     -9.8391 µg/L       1.67379     -9.8391 ppb        1.67379  17.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†               185.1      8.9605 µg/L       3.53798      8.9605 ppb        3.53798  39.48%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†              -409.4     -4.5071 µg/L       0.13335     -4.5071 ppb        0.13335   2.96%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†             2899.5      11.988 µg/L        0.1319      11.988 ppb         0.1319   1.10%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
```

Sequence No.: 10
Sample ID: ICSAB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 3/14/2006 07:51:54
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	63656.4	63656.4	88.3	%			07:53:46
1	Al 396.153Radial†	2476693.2	2805018.7	516980	µg/L	516980	ppb	07:53:40
1	Ca 317.933Radial†	2857770.0	3236399.4	476890	µg/L	476890	ppb	07:53:40
1	Fe 238.204 Radial†	118876.7	134596.7	189190	µg/L	189190	ppb	07:53:46
1	K 766.490 Radial†	20148.8	21742.8	5938.0	µg/L	5938.0	ppb	07:53:46
1	Mg 279.077 IEC†	217603.5	246452.3	510320	µg/L	510320	ppb	07:53:46
1	Na 589.592 Radial†	49703.8	55109.1	5653.0	µg/L	5653.0	ppb	07:53:46
1	Sr 421.552†	190055.4	215248.5	528.74	µg/L	528.74	ppb	07:53:46
1	Sc 361.383	1297768.3	1297768.3	84.902	%			07:54:19
1	Y 371.029	707008.2	707008.2	83.403	%			07:54:19
1	Ag 328.068†	32596.4	39311.5	262.37	µg/L	262.37	ppb	07:54:19
1	As 188.979†	1053.4	1238.3	513.24	µg/L	513.24	ppb	07:54:40
1	B 249.677†	10289.7	12033.8	509.02	µg/L	509.02	ppb	07:54:19
1	Ba 233.527†	51230.1	60457.9	484.61	µg/L	484.61	ppb	07:54:19
1	Be 313.107†	390930.6	460086.5	239.88	µg/L	239.88	ppb	07:54:19
1	Cd 226.502†	14451.2	17053.8	451.14	µg/L	451.14	ppb	07:54:40
1	Co 228.616†	16197.2	19140.2	446.99	µg/L	446.99	ppb	07:54:40
1	Cr 267.716†	19598.2	23028.3	483.09	µg/L	483.09	ppb	07:54:40
1	Cu 324.752†	149018.0	171652.7	529.92	µg/L	529.92	ppb	07:54:19
1	Mn 257.610†	292718.3	344400.9	482.15	µg/L	482.15	ppb	07:54:19
1	Mo 202.031†	3644.6	4306.1	471.56	µg/L	471.56	ppb	07:54:40
1	Ni 231.604†	7860.5	9100.9	444.93	µg/L	444.93	ppb	07:54:40
1	P 214.914†	3562.8	4029.5	2420.4	µg/L	2420.4	ppb	07:54:40
1	Pb 220.353†	1764.3	2071.1	450.43	µg/L	450.43	ppb	07:54:40
1	S 181.975 Axial†	1240.9	1431.9	2408.2	µg/L	2408.2	ppb	07:54:40
1	Sb 206.836†	1160.6	1350.9	511.04	µg/L	511.04	ppb	07:54:40
1	Se 196.026†	2888.8	3427.1	2420	µg/L	2420	ppb	07:54:40
1	SiO2 †	162965.1	191229.2	11154	µg/L	11154	ppb	07:54:19
1	Sn 189.927†	1479.7	1765.7	455.27	µg/L	455.27	ppb	07:54:40
1	Ti 334.940†	416632.4	490179.0	494.67	µg/L	494.67	ppb	07:54:19
1	Tl 190.801†	1097.8	1322.7	425.47	µg/L	425.47	ppb	07:54:40
1	U 409.014†	8842.9	10048.1	490.60	µg/L	490.60	ppb	07:54:19
1	V 292.402†	37903.6	44729.2	486.82	µg/L	486.82	ppb	07:54:19
1	Zn 213.857†	24382.1	28423.7	504.91	µg/L	504.91	ppb	07:54:40
1	Si 251.611†	162531.8	190726.8	5220	µg/L	5220	ppb	07:55:40
2	Sc RADIAL	64146.5	64146.5	89.0	%			07:53:58
2	Al 396.153Radial†	2490382.1	2798973.6	515870	µg/L	515870	ppb	07:53:52
2	Ca 317.933Radial†	2870433.7	3225904.8	475340	µg/L	475340	ppb	07:53:52
2	Fe 238.204 Radial†	119487.4	134254.6	188700	µg/L	188700	ppb	07:53:58
2	K 766.490 Radial†	20363.5	21809.8	5956.2	µg/L	5956.2	ppb	07:53:58
2	Mg 279.077 IEC†	218070.2	245094.0	507510	µg/L	507510	ppb	07:53:58
2	Na 589.592 Radial†	50082.1	55104.1	5652.5	µg/L	5652.5	ppb	07:53:58
2	Sr 421.552†	191732.7	215489.1	529.39	µg/L	529.39	ppb	07:53:58
2	Sc 361.383	1284929.7	1284929.7	84.062	%			07:54:46
2	Y 371.029	699934.6	699934.6	82.569	%			07:54:46
2	Ag 328.068†	32523.7	39608.6	263.93	µg/L	263.93	ppb	07:54:46
2	As 188.979†	1051.5	1248.4	517.47	µg/L	517.47	ppb	07:55:07
2	B 249.677†	10275.6	12138.1	514.07	µg/L	514.07	ppb	07:54:46
2	Ba 233.527†	51071.1	60871.7	487.95	µg/L	487.95	ppb	07:54:46
2	Be 313.107†	389582.7	463083.7	241.45	µg/L	241.45	ppb	07:54:46
2	Cd 226.502†	14420.2	17187.0	454.86	µg/L	454.86	ppb	07:55:07
2	Co 228.616†	16197.4	19331.1	451.50	µg/L	451.50	ppb	07:55:07
2	Cr 267.716†	19631.2	23298.2	488.75	µg/L	488.75	ppb	07:55:07
2	Cu 324.752†	148781.3	173124.8	534.40	µg/L	534.40	ppb	07:54:46
2	Mn 257.610†	291819.6	346776.8	485.29	µg/L	485.29	ppb	07:54:46
2	Mo 202.031†	3663.8	4371.7	478.67	µg/L	478.67	ppb	07:55:07
2	Ni 231.604†	7846.8	9177.1	448.58	µg/L	448.58	ppb	07:55:07
2	P 214.914†	3535.2	4038.6	2426.9	µg/L	2426.9	ppb	07:55:07

2	Pb 220.353†	1742.3	2065.7	449.28 µg/L	449.28 ppb	07:55:07
2	S 181.975 Axial†	1242.3	1448.1	2437.0 µg/L	2437.0 ppb	07:55:07
2	Sb 206.836†	1137.7	1337.3	505.98 µg/L	505.98 ppb	07:55:07
2	Se 196.026†	2905.7	3481.2	2450 µg/L	2450 ppb	07:55:07
2	SiO2 †	162536.9	192637.7	11236 µg/L	11236 ppb	07:54:46
2	Sn 189.927†	1454.9	1753.6	452.41 µg/L	452.41 ppb	07:55:07
2	Ti 334.940†	415654.1	493918.4	498.34 µg/L	498.34 ppb	07:54:46
2	Tl 190.801†	1100.1	1338.4	430.50 µg/L	430.50 ppb	07:55:07
2	U 409.014†	8809.6	10112.6	493.74 µg/L	493.74 ppb	07:54:46
2	V 292.402†	37767.3	45013.2	489.95 µg/L	489.95 ppb	07:54:46
2	Zn 213.857†	24360.3	28684.7	510.10 µg/L	510.10 ppb	07:55:07
2	Si 251.611†	162231.4	192282.2	5260 µg/L	5260 ppb	07:55:46
3	Sc RADIAL	63180.0	63180.0	87.6 %		07:54:10
3	Al 396.153Radial†	2492689.8	2844425.8	524240 µg/L	524240 ppb	07:54:04
3	Ca 317.933Radial†	2872155.2	3277222.4	482910 µg/L	482910 ppb	07:54:04
3	Fe 238.204 Radial†	118269.4	134919.1	189640 µg/L	189640 ppb	07:54:10
3	K 766.490 Radial†	20012.4	21759.2	5942.4 µg/L	5942.4 ppb	07:54:10
3	Mg 279.077 IEC†	216236.3	246750.6	510940 µg/L	510940 ppb	07:54:10
3	Na 589.592 Radial†	49420.4	55210.2	5663.3 µg/L	5663.3 ppb	07:54:10
3	Sr 421.552†	188610.2	215222.5	528.51 µg/L	528.51 ppb	07:54:10
3	Sc 361.383	1294498.9	1294498.9	84.688 %		07:55:14
3	Y 371.029	705551.6	705551.6	83.231 %		07:55:14
3	Ag 328.068†	32421.2	39201.7	261.85 µg/L	261.85 ppb	07:55:14
3	As 188.979†	1050.4	1237.8	512.82 µg/L	512.82 ppb	07:55:34
3	B 249.677†	10300.0	12076.6	510.90 µg/L	510.90 ppb	07:55:14
3	Ba 233.527†	50913.6	60236.7	482.82 µg/L	482.82 ppb	07:55:14
3	Be 313.107†	388547.5	458435.5	239.02 µg/L	239.02 ppb	07:55:14
3	Cd 226.502†	14434.1	17076.6	451.72 µg/L	451.72 ppb	07:55:34
3	Co 228.616†	16210.0	19203.5	448.48 µg/L	448.48 ppb	07:55:34
3	Cr 267.716†	19633.3	23128.0	485.18 µg/L	485.18 ppb	07:55:34
3	Cu 324.752†	148423.2	171393.6	529.13 µg/L	529.13 ppb	07:55:14
3	Mn 257.610†	291243.5	343530.3	481.02 µg/L	481.02 ppb	07:55:14
3	Mo 202.031†	3670.9	4347.9	476.11 µg/L	476.11 ppb	07:55:34
3	Ni 231.604†	7851.5	9113.6	445.65 µg/L	445.65 ppb	07:55:34
3	P 214.914†	3538.9	4012.0	2408.5 µg/L	2408.5 ppb	07:55:34
3	Pb 220.353†	1755.7	2066.3	450.21 µg/L	450.21 ppb	07:55:34
3	S 181.975 Axial†	1247.2	1443.1	2426.3 µg/L	2426.3 ppb	07:55:34
3	Sb 206.836†	1150.4	1342.4	507.81 µg/L	507.81 ppb	07:55:34
3	Se 196.026†	2901.7	3450.9	2430 µg/L	2430 ppb	07:55:34
3	SiO2 †	162160.3	190763.8	11127 µg/L	11127 ppb	07:55:14
3	Sn 189.927†	1469.3	1757.8	454.21 µg/L	454.21 ppb	07:55:34
3	Ti 334.940†	414565.4	488977.7	493.60 µg/L	493.60 ppb	07:55:14
3	Tl 190.801†	1117.3	1349.0	433.90 µg/L	433.90 ppb	07:55:34
3	U 409.014†	8894.2	10135.1	494.80 µg/L	494.80 ppb	07:55:14
3	V 292.402†	37675.4	44572.6	485.19 µg/L	485.19 ppb	07:55:14
3	Zn 213.857†	24359.0	28469.0	505.57 µg/L	505.57 ppb	07:55:34
3	Si 251.611†	161012.8	189416.7	5190 µg/L	5190 ppb	07:55:51

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1292399.0	84.551	%	0.4365				0.52%
Sc RADIAL	63661.0	88.3	%	0.67				0.76%
Y 371.029	704164.8	83.068	%	0.4406				0.53%
Ag 328.068†	39373.9	262.72	µg/L	1.079	262.72	ppb	1.079	0.41%
QC value within limits for Ag 328.068 Recovery = 105.09%								
Al 396.153Radial†	2816139.4	519030	µg/L	4549.3	519030	ppb	4549.3	0.88%
QC value within limits for Al 396.153Radial Recovery = 103.81%								
As 188.979†	1241.5	514.51	µg/L	2.572	514.51	ppb	2.572	0.50%
QC value within limits for As 188.979 Recovery = 102.90%								
B 249.677†	12082.9	511.33	µg/L	2.552	511.33	ppb	2.552	0.50%
QC value within limits for B 249.677 Recovery = 102.27%								
Ba 233.527†	60522.1	485.13	µg/L	2.601	485.13	ppb	2.601	0.54%
QC value within limits for Ba 233.527 Recovery = 97.03%								
Be 313.107†	460535.2	240.12	µg/L	1.229	240.12	ppb	1.229	0.51%
QC value within limits for Be 313.107 Recovery = 96.05%								
Ca 317.933Radial†	3246508.9	478380	µg/L	3994.9	478380	ppb	3994.9	0.84%
QC value within limits for Ca 317.933Radial Recovery = 95.68%								
Cd 226.502†	17105.8	452.57	µg/L	1.998	452.57	ppb	1.998	0.44%
QC value within limits for Cd 226.502 Recovery = 90.51%								

Co 228.616†	19224.9	448.99 µg/L	2.297	448.99 ppb	2.297	0.51%
QC value within limits for Co 228.616 Recovery = 89.80%						
Cr 267.716†	23151.5	485.67 µg/L	2.863	485.67 ppb	2.863	0.59%
QC value within limits for Cr 267.716 Recovery = 97.13%						
Cu 324.752†	172057.0	531.15 µg/L	2.840	531.15 ppb	2.840	0.53%
QC value within limits for Cu 324.752 Recovery = 106.23%						
Fe 238.204 Radial†	134590.2	189180 µg/L	467.1	189180 ppb	467.1	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 94.59%						
K 766.490 Radial†	21770.6	5945.5 µg/L	9.53	5945.5 ppb	9.53	0.16%
QC value within limits for K 766.490 Radial Recovery = 118.91%						
Mg 279.077 IEC†	246099.0	509590 µg/L	1828.5	509590 ppb	1828.5	0.36%
QC value within limits for Mg 279.077 IEC Recovery = 101.92%						
Mn 257.610†	344902.7	482.82 µg/L	2.211	482.82 ppb	2.211	0.46%
QC value within limits for Mn 257.610 Recovery = 96.56%						
Mo 202.031†	4341.9	475.45 µg/L	3.599	475.45 ppb	3.599	0.76%
QC value within limits for Mo 202.031 Recovery = 95.09%						
Na 589.592 Radial†	55141.1	5656.2 µg/L	6.14	5656.2 ppb	6.14	0.11%
QC value within limits for Na 589.592 Radial Recovery = 113.12%						
Ni 231.604†	9130.5	446.39 µg/L	1.935	446.39 ppb	1.935	0.43%
QC value within limits for Ni 231.604 Recovery = 89.28%						
P 214.914†	4026.7	2418.6 µg/L	9.32	2418.6 ppb	9.32	0.39%
QC value within limits for P 214.914 Recovery = 96.74%						
Pb 220.353†	2067.7	449.97 µg/L	0.612	449.97 ppb	0.612	0.14%
QC value within limits for Pb 220.353 Recovery = 89.99%						
S 181.975 Axial†	1441.0	2423.8 µg/L	14.57	2423.8 ppb	14.57	0.60%
QC value within limits for S 181.975 Axial Recovery = 96.95%						
Sb 206.836†	1343.5	508.28 µg/L	2.561	508.28 ppb	2.561	0.50%
QC value within limits for Sb 206.836 Recovery = 101.66%						
Se 196.026†	3453.1	2430 µg/L	19.2	2430 ppb	19.2	0.79%
QC value within limits for Se 196.026 Recovery = 97.38%						
SiO2 †	191543.5	11172 µg/L	56.9	11172 ppb	56.9	0.51%
QC value within limits for SiO2 Recovery = 104.46%						
Si 251.611†	190808.6	5220 µg/L	39.3	5220 ppb	39.3	0.75%
QC value within limits for Si 251.611 Recovery = 104.48%						
Sn 189.927†	1759.0	453.96 µg/L	1.446	453.96 ppb	1.446	0.32%
QC value within limits for Sn 189.927 Recovery = 90.79%						
Sr 421.552†	215320.1	528.88 µg/L	0.458	528.88 ppb	0.458	0.09%
QC value within limits for Sr 421.552 Recovery = 105.78%						
Ti 334.940†	491025.0	495.54 µg/L	2.484	495.54 ppb	2.484	0.50%
QC value within limits for Ti 334.940 Recovery = 99.11%						
Tl 190.801†	1336.7	429.96 µg/L	4.240	429.96 ppb	4.240	0.99%
QC value within limits for Tl 190.801 Recovery = 85.99%						
U 409.014†	10098.6	493.05 µg/L	2.188	493.05 ppb	2.188	0.44%
QC value within limits for U 409.014 Recovery = 98.61%						
V 292.402†	44771.7	487.32 µg/L	2.423	487.32 ppb	2.423	0.50%
QC value within limits for V 292.402 Recovery = 97.46%						
Zn 213.857†	28525.8	506.86 µg/L	2.828	506.86 ppb	2.828	0.56%
QC value within limits for Zn 213.857 Recovery = 101.37%						

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCV
Nebulizer Back Pressure: 231.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 08:12:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70089.9	70089.9	97.2	%			08:13:44
1	Al 396.153Radial†	26451.4	27172.4	4983.7	µg/L	4983.7	ppb	08:13:44
1	Ca 317.933Radial†	34300.0	35026.2	5161.2	µg/L	5161.2	ppb	08:14:04
1	Fe 238.204 Radial†	3630.7	3693.9	5192.1	µg/L	5192.1	ppb	08:14:04
1	K 766.490 Radial†	18809.4	18270.4	4989.6	µg/L	4989.6	ppb	08:13:44
1	Mg 279.077 IEC†	2417.3	2485.3	5161.3	µg/L	5161.3	ppb	08:14:04
1	Na 589.592 Radial†	96518.0	98096.0	10062	µg/L	10062	ppb	08:13:44
1	Sr 421.552†	194352.0	199910.1	503.37	µg/L	503.37	ppb	08:13:44
1	Sc 361.383	1485079.7	1485079.7	97.156	%			08:15:05
1	Y 371.029	816070.5	816070.5	96.269	%			08:15:05
1	Ag 328.068†	87734.2	91220.8	510.97	µg/L	510.97	ppb	08:15:10
1	As 188.979†	1264.9	1299.6	540.58	µg/L	540.58	ppb	08:15:31
1	B 249.677†	11108.2	11347.6	531.45	µg/L	531.45	ppb	08:15:10
1	Ba 233.527†	60159.7	62038.2	499.51	µg/L	499.51	ppb	08:15:10
1	Be 313.107†	927294.9	954074.9	497.40	µg/L	497.40	ppb	08:15:05
1	Cd 226.502†	17663.9	18213.6	501.20	µg/L	501.20	ppb	08:15:10
1	Co 228.616†	20601.0	21266.8	500.56	µg/L	500.56	ppb	08:15:10
1	Cr 267.716†	23130.7	23752.6	498.29	µg/L	498.29	ppb	08:15:10
1	Cu 324.752†	162240.3	163124.1	498.11	µg/L	498.11	ppb	08:15:05
1	Mn 257.610†	360650.7	370836.2	498.81	µg/L	498.81	ppb	08:15:05
1	Mo 202.031†	4725.1	4876.7	528.89	µg/L	528.89	ppb	08:15:31
1	Ni 231.604†	10347.0	10492.4	504.70	µg/L	504.70	ppb	08:15:10
1	P 214.914†	3994.4	3944.5	2562.1	µg/L	2562.1	ppb	08:15:31
1	Pb 220.353†	2575.3	2643.8	511.75	µg/L	511.75	ppb	08:15:31
1	S 181.975 Axial†	609.5	597.7	1053.5	µg/L	1053.5	ppb	08:15:31
1	Sb 206.836†	1367.7	1391.7	529.53	µg/L	529.53	ppb	08:15:31
1	Se 196.026†	675.7	720.1	511	µg/L	511	ppb	08:15:31
1	SiO2 †	92419.6	94408.9	5506.6	µg/L	5506.6	ppb	08:15:10
1	Sn 189.927†	2259.5	2348.5	510.95	µg/L	510.95	ppb	08:15:31
1	Ti 334.940†	496822.0	510821.8	505.57	µg/L	505.57	ppb	08:15:05
1	Tl 190.801†	1499.5	1573.0	505.38	µg/L	505.38	ppb	08:15:31
1	U 409.014†	10489.7	10429.5	509.21	µg/L	509.21	ppb	08:15:10
1	V 292.402†	44916.9	46316.9	504.53	µg/L	504.53	ppb	08:15:10
1	Zn 213.857†	25554.8	26008.6	501.24	µg/L	501.24	ppb	08:15:10
1	Si 251.611†	90732.0	92679.9	2540	µg/L	2540	ppb	08:16:42
2	Sc RADIAL	71219.1	71219.1	98.8	%			08:14:09
2	Al 396.153Radial†	26970.1	27266.1	5001.3	µg/L	5001.3	ppb	08:14:09
2	Ca 317.933Radial†	34313.3	34480.2	5080.7	µg/L	5080.7	ppb	08:14:30
2	Fe 238.204 Radial†	3626.6	3630.6	5103.1	µg/L	5103.1	ppb	08:14:30
2	K 766.490 Radial†	19228.7	18388.1	5021.8	µg/L	5021.8	ppb	08:14:09
2	Mg 279.077 IEC†	2423.6	2452.2	5092.7	µg/L	5092.7	ppb	08:14:30
2	Na 589.592 Radial†	98257.5	98282.8	10082	µg/L	10082	ppb	08:14:09
2	Sr 421.552†	198046.7	200480.6	504.81	µg/L	504.81	ppb	08:14:09
2	Sc 361.383	1497837.2	1497837.2	97.991	%			08:15:38
2	Y 371.029	822589.7	822589.7	97.038	%			08:15:38
2	Ag 328.068†	88079.6	90804.2	508.63	µg/L	508.63	ppb	08:15:43
2	As 188.979†	1250.8	1274.0	530.02	µg/L	530.02	ppb	08:16:03
2	B 249.677†	11122.5	11264.8	527.58	µg/L	527.58	ppb	08:15:43
2	Ba 233.527†	60335.1	61689.9	496.70	µg/L	496.70	ppb	08:15:43
2	Be 313.107†	934530.5	953329.7	497.01	µg/L	497.01	ppb	08:15:38
2	Cd 226.502†	17704.9	18100.6	498.10	µg/L	498.10	ppb	08:15:43
2	Co 228.616†	20654.7	21140.9	497.59	µg/L	497.59	ppb	08:15:43
2	Cr 267.716†	23272.5	23694.6	497.08	µg/L	497.08	ppb	08:15:43
2	Cu 324.752†	163589.8	163079.0	497.97	µg/L	497.97	ppb	08:15:38
2	Mn 257.610†	363884.4	370974.5	498.98	µg/L	498.98	ppb	08:15:38
2	Mo 202.031†	4700.1	4809.9	521.64	µg/L	521.64	ppb	08:16:03
2	Ni 231.604†	10364.3	10419.4	501.18	µg/L	501.18	ppb	08:15:43
2	P 214.914†	3963.4	3877.9	2518.9	µg/L	2518.9	ppb	08:16:03

2	Pb 220.353†	2572.4	2618.3	506.80 µg/L	506.80 ppb	08:16:03
2	S 181.975 Axial†	602.8	585.5	1031.9 µg/L	1031.9 ppb	08:16:03
2	Sb 206.836†	1358.5	1370.2	521.39 µg/L	521.39 ppb	08:16:03
2	Se 196.026†	663.9	702.1	498 µg/L	498 ppb	08:16:03
2	SiO2 †	92936.8	94126.5	5490.1 µg/L	5490.1 ppb	08:15:43
2	Sn 189.927†	2246.7	2315.7	503.80 µg/L	503.80 ppb	08:16:03
2	Ti 334.940†	501396.1	511134.2	505.88 µg/L	505.88 ppb	08:15:38
2	Tl 190.801†	1484.9	1545.0	496.37 µg/L	496.37 ppb	08:16:03
2	U 409.014†	10526.7	10375.2	506.57 µg/L	506.57 ppb	08:15:43
2	V 292.402†	45180.6	46192.2	503.11 µg/L	503.11 ppb	08:15:43
2	Zn 213.857†	25646.5	25878.2	498.73 µg/L	498.73 ppb	08:15:43
2	Si 251.611†	90438.4	91584.9	2510 µg/L	2510 ppb	08:16:47
3	Sc RADIAL	69838.0	69838.0	96.9 %		08:14:35
3	Al 396.153Radial†	26434.3	27252.9	4999.0 µg/L	4999.0 ppb	08:14:35
3	Ca 317.933Radial†	34367.3	35222.9	5190.2 µg/L	5190.2 ppb	08:14:55
3	Fe 238.204 Radial†	3636.6	3713.5	5219.6 µg/L	5219.6 ppb	08:14:55
3	K 766.490 Radial†	18842.0	18373.9	5017.9 µg/L	5017.9 ppb	08:14:35
3	Mg 279.077 IEC†	2418.3	2495.3	5181.7 µg/L	5181.7 ppb	08:14:55
3	Na 589.592 Radial†	96222.5	98149.1	10068 µg/L	10068 ppb	08:14:35
3	Sr 421.552†	193809.3	200071.0	503.77 µg/L	503.77 ppb	08:14:35
3	Sc 361.383	1508026.1	1508026.1	98.657 %		08:16:10
3	Y 371.029	828624.3	828624.3	97.750 %		08:16:10
3	Ag 328.068†	87742.9	89855.6	503.35 µg/L	503.35 ppb	08:16:16
3	As 188.979†	1247.9	1262.4	525.23 µg/L	525.23 ppb	08:16:36
3	B 249.677†	11003.1	11067.2	518.29 µg/L	518.29 ppb	08:16:16
3	Ba 233.527†	60077.4	61012.6	491.25 µg/L	491.25 ppb	08:16:16
3	Be 313.107†	937800.8	950200.9	495.38 µg/L	495.38 ppb	08:16:10
3	Cd 226.502†	17653.2	17926.2	493.28 µg/L	493.28 ppb	08:16:16
3	Co 228.616†	20603.3	20946.5	493.01 µg/L	493.01 ppb	08:16:16
3	Cr 267.716†	23150.6	23410.6	491.12 µg/L	491.12 ppb	08:16:16
3	Cu 324.752†	164312.7	162683.8	496.77 µg/L	496.77 ppb	08:16:10
3	Mn 257.610†	365000.1	369596.4	497.15 µg/L	497.15 ppb	08:16:10
3	Mo 202.031†	4701.1	4778.4	518.24 µg/L	518.24 ppb	08:16:36
3	Ni 231.604†	10331.3	10314.4	496.14 µg/L	496.14 ppb	08:16:16
3	P 214.914†	3961.8	3848.9	2499.9 µg/L	2499.9 ppb	08:16:36
3	Pb 220.353†	2567.8	2595.9	502.46 µg/L	502.46 ppb	08:16:36
3	S 181.975 Axial†	606.6	585.2	1031.4 µg/L	1031.4 ppb	08:16:36
3	Sb 206.836†	1350.3	1352.6	514.71 µg/L	514.71 ppb	08:16:36
3	Se 196.026†	664.1	697.7	495 µg/L	495 ppb	08:16:36
3	SiO2 †	92418.0	92959.9	5422.1 µg/L	5422.1 ppb	08:16:16
3	Sn 189.927†	2242.4	2295.8	499.50 µg/L	499.50 ppb	08:16:36
3	Ti 334.940†	503105.0	509409.2	504.18 µg/L	504.18 ppb	08:16:10
3	Tl 190.801†	1497.9	1547.9	497.32 µg/L	497.32 ppb	08:16:36
3	U 409.014†	10476.6	10251.9	500.55 µg/L	500.55 ppb	08:16:16
3	V 292.402†	44984.3	45681.8	497.57 µg/L	497.57 ppb	08:16:16
3	Zn 213.857†	25555.7	25609.3	493.51 µg/L	493.51 ppb	08:16:16
3	Si 251.611†	90615.1	91140.5	2500 µg/L	2500 ppb	08:16:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1496981.0	97.935	%	0.7522				0.77%
Sc RADIAL	70382.3	97.6	%	1.02				1.05%
Y 371.029	822428.2	97.019	%	0.7406				0.76%
Ag 328.068†	90626.9	507.65	µg/L	3.904	507.65	ppb	3.904	0.77%
QC value within limits for Ag 328.068 Recovery = 101.53%								
Al 396.153Radial†	27230.5	4994.6	µg/L	9.57	4994.6	ppb	9.57	0.19%
QC value within limits for Al 396.153Radial Recovery = 99.89%								
As 188.979†	1278.7	531.94	µg/L	7.857	531.94	ppb	7.857	1.48%
QC value within limits for As 188.979 Recovery = 106.39%								
B 249.677†	11226.5	525.77	µg/L	6.765	525.77	ppb	6.765	1.29%
QC value within limits for B 249.677 Recovery = 105.15%								
Ba 233.527†	61580.2	495.82	µg/L	4.200	495.82	ppb	4.200	0.85%
QC value within limits for Ba 233.527 Recovery = 99.16%								
Be 313.107†	952535.2	496.60	µg/L	1.072	496.60	ppb	1.072	0.22%
QC value within limits for Be 313.107 Recovery = 99.32%								
Ca 317.933Radial†	34909.8	5144.0	µg/L	56.70	5144.0	ppb	56.70	1.10%
QC value within limits for Ca 317.933Radial Recovery = 102.88%								
Cd 226.502†	18080.1	497.53	µg/L	3.991	497.53	ppb	3.991	0.80%
QC value within limits for Cd 226.502 Recovery = 99.51%								

Co 228.616†	21118.1	497.05 µg/L	3.802	497.05 ppb	3.802	0.76%
QC value within limits for Co 228.616 Recovery = 99.41%						
Cr 267.716†	23619.3	495.50 µg/L	3.839	495.50 ppb	3.839	0.77%
QC value within limits for Cr 267.716 Recovery = 99.10%						
Cu 324.752†	162962.3	497.62 µg/L	0.733	497.62 ppb	0.733	0.15%
QC value within limits for Cu 324.752 Recovery = 99.52%						
Fe 238.204 Radial†	3679.4	5171.6 µg/L	60.93	5171.6 ppb	60.93	1.18%
QC value within limits for Fe 238.204 Radial Recovery = 103.43%						
K 766.490 Radial†	18344.1	5009.8 µg/L	17.54	5009.8 ppb	17.54	0.35%
QC value within limits for K 766.490 Radial Recovery = 100.20%						
Mg 279.077 IEC†	2477.6	5145.2 µg/L	46.64	5145.2 ppb	46.64	0.91%
QC value within limits for Mg 279.077 IEC Recovery = 102.90%						
Mn 257.610†	370469.0	498.31 µg/L	1.015	498.31 ppb	1.015	0.20%
QC value within limits for Mn 257.610 Recovery = 99.66%						
Mo 202.031†	4821.7	522.92 µg/L	5.442	522.92 ppb	5.442	1.04%
QC value within limits for Mo 202.031 Recovery = 104.58%						
Na 589.592 Radial†	98176.0	10071 µg/L	9.9	10071 ppb	9.9	0.10%
QC value within limits for Na 589.592 Radial Recovery = 100.71%						
Ni 231.604†	10408.7	500.67 µg/L	4.305	500.67 ppb	4.305	0.86%
QC value within limits for Ni 231.604 Recovery = 100.13%						
P 214.914†	3890.4	2527.0 µg/L	31.86	2527.0 ppb	31.86	1.26%
QC value within limits for P 214.914 Recovery = 101.08%						
Pb 220.353†	2619.3	507.00 µg/L	4.644	507.00 ppb	4.644	0.92%
QC value within limits for Pb 220.353 Recovery = 101.40%						
S 181.975 Axial†	589.5	1038.9 µg/L	12.61	1038.9 ppb	12.61	1.21%
QC value within limits for S 181.975 Axial Recovery = 103.89%						
Sb 206.836†	1371.5	521.88 µg/L	7.418	521.88 ppb	7.418	1.42%
QC value within limits for Sb 206.836 Recovery = 104.38%						
Se 196.026†	706.6	501 µg/L	8.4	501 ppb	8.4	1.67%
QC value within limits for Se 196.026 Recovery = 100.23%						
SiO2 †	93831.8	5472.9 µg/L	44.81	5472.9 ppb	44.81	0.82%
QC value within limits for SiO2 Recovery = 102.35%						
Si 251.611†	91801.8	2510 µg/L	21.7	2510 ppb	21.7	0.86%
QC value within limits for Si 251.611 Recovery = 100.53%						
Sn 189.927†	2320.0	504.75 µg/L	5.782	504.75 ppb	5.782	1.15%
QC value within limits for Sn 189.927 Recovery = 100.95%						
Sr 421.552†	200153.9	503.98 µg/L	0.742	503.98 ppb	0.742	0.15%
QC value within limits for Sr 421.552 Recovery = 100.80%						
Ti 334.940†	510455.0	505.21 µg/L	0.906	505.21 ppb	0.906	0.18%
QC value within limits for Ti 334.940 Recovery = 101.04%						
Tl 190.801†	1555.3	499.69 µg/L	4.948	499.69 ppb	4.948	0.99%
QC value within limits for Tl 190.801 Recovery = 99.94%						
U 409.014†	10352.2	505.44 µg/L	4.439	505.44 ppb	4.439	0.88%
QC value within limits for U 409.014 Recovery = 101.09%						
V 292.402†	46063.6	501.74 µg/L	3.675	501.74 ppb	3.675	0.73%
QC value within limits for V 292.402 Recovery = 100.35%						
Zn 213.857†	25832.1	497.83 µg/L	3.940	497.83 ppb	3.940	0.79%
QC value within limits for Zn 213.857 Recovery = 99.57%						

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.

Autosampler Location: 8
Date Collected: 3/14/2006 08:19:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analysis Begun

Start Time: 3/14/2006 08:20:38
Logged In Analyst: Administrator
Plasma On Time: 3/13/2006 03:58:47
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2061001Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

Sequence No.: 14
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 08:20:38
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71939.9	71939.9	99.8	%			08:22:22
1	Al 396.153Radial†	38.9	2.9	0.4593	µg/L	0.4593	ppb	08:22:22
1	Ca 317.933Radial†	281.6	26.6	3.9252	µg/L	3.9252	ppb	08:22:42
1	Fe 238.204 Radial†	45.0	4.5	6.2817	µg/L	6.2817	ppb	08:22:42
1	K 766.490 Radial†	1092.1	17.1	4.6761	µg/L	4.6761	ppb	08:22:22
1	Mg 279.077 IEC†	-1.6	-2.8	-5.8112	µg/L	-5.8112	ppb	08:22:42
1	Na 589.592 Radial†	789.2	-393.6	-40.376	µg/L	-40.376	ppb	08:22:22
1	Sr 421.552†	41.2	36.7	0.0923	µg/L	0.0923	ppb	08:22:22
1	Sc 361.383	1523298.7	1523298.7	99.656	%			08:23:40
1	Y 371.029	844784.4	844784.4	99.656	%			08:23:40
1	Ag 328.068†	-911.9	3.5	0.0205	µg/L	0.0205	ppb	08:23:46
1	As 188.979†	27.1	24.8	10.220	µg/L	10.220	ppb	08:24:06
1	B 249.677†	492.6	408.6	19.098	µg/L	19.098	ppb	08:24:06
1	Ba 233.527†	-80.6	36.8	0.2960	µg/L	0.2960	ppb	08:24:06
1	Be 313.107†	384.4	22.7	0.0119	µg/L	0.0119	ppb	08:23:46
1	Cd 226.502†	-18.8	13.9	0.3816	µg/L	0.3816	ppb	08:24:06
1	Co 228.616†	-55.4	7.1	0.1691	µg/L	0.1691	ppb	08:24:06
1	Cr 267.716†	81.6	26.8	0.5625	µg/L	0.5625	ppb	08:24:06
1	Cu 324.752†	4018.8	167.5	0.5122	µg/L	0.5122	ppb	08:23:46
1	Mn 257.610†	493.4	123.8	0.1670	µg/L	0.1670	ppb	08:24:06
1	Mo 202.031†	1.5	14.8	1.6079	µg/L	1.6079	ppb	08:24:06
1	Ni 231.604†	160.0	3.1	0.1509	µg/L	0.1509	ppb	08:24:06
1	P 214.914†	160.9	-5.3	-3.4940	µg/L	-3.4940	ppb	08:24:06
1	Pb 220.353†	30.0	23.2	4.4959	µg/L	4.4959	ppb	08:24:06
1	S 181.975 Axial†	34.5	4.9	8.6870	µg/L	8.6870	ppb	08:24:06
1	Sb 206.836†	31.4	15.4	5.8192	µg/L	5.8192	ppb	08:24:06
1	Se 196.026†	-20.2	4.3	3.04	µg/L	3.04	ppb	08:24:06
1	SiO2 †	1028.2	315.9	18.424	µg/L	18.424	ppb	08:24:06
1	Sn 189.927†	-18.4	4.4	0.9552	µg/L	0.9552	ppb	08:24:06
1	Ti 334.940†	728.7	188.3	0.1866	µg/L	0.1866	ppb	08:23:46
1	Tl 190.801†	-14.6	15.0	4.8104	µg/L	4.8104	ppb	08:24:06
1	U 409.014†	343.6	-22.5	-1.0981	µg/L	-1.0981	ppb	08:23:46
1	V 292.402†	-115.5	-30.7	-0.3138	µg/L	-0.3138	ppb	08:23:46
1	Zn 213.857†	334.1	41.0	0.7914	µg/L	0.7914	ppb	08:24:06
1	Si 251.611†	972.6	268.0	7.34	µg/L	7.34	ppb	08:25:28
2	Sc RADIAL	72380.3	72380.3	100	%			08:22:47
2	Al 396.153Radial†	82.1	45.7	8.3614	µg/L	8.3614	ppb	08:22:47

2	Ca 317.933Radial†	292.3	35.6	5.2479 µg/L	5.2479 ppb	08:23:07
2	Fe 238.204 Radial†	42.1	1.3	1.7618 µg/L	1.7618 ppb	08:23:07
2	K 766.490 Radial†	1097.5	15.9	4.3413 µg/L	4.3413 ppb	08:22:47
2	Mg 279.077 IEC†	8.6	7.3	15.267 µg/L	15.267 ppb	08:23:07
2	Na 589.592 Radial†	804.4	-383.3	-39.317 µg/L	-39.317 ppb	08:22:47
2	Sr 421.552†	73.9	69.0	0.1737 µg/L	0.1737 ppb	08:22:47
2	Sc 361.383	1534841.4	1534841.4	100.41 %		08:24:11
2	Y 371.029	850912.4	850912.4	100.38 %		08:24:11
2	Ag 328.068†	-847.2	74.8	0.4188 µg/L	0.4188 ppb	08:24:16
2	As 188.979†	26.6	24.0	9.9083 µg/L	9.9083 ppb	08:24:37
2	B 249.677†	479.8	392.1	18.329 µg/L	18.329 ppb	08:24:37
2	Ba 233.527†	-71.9	46.0	0.3708 µg/L	0.3708 ppb	08:24:37
2	Be 313.107†	515.5	150.4	0.0785 µg/L	0.0785 ppb	08:24:16
2	Cd 226.502†	-16.9	15.9	0.4380 µg/L	0.4380 ppb	08:24:37
2	Co 228.616†	-53.2	9.8	0.2318 µg/L	0.2318 ppb	08:24:37
2	Cr 267.716†	92.0	36.5	0.7657 µg/L	0.7657 ppb	08:24:37
2	Cu 324.752†	4089.4	207.5	0.6296 µg/L	0.6296 ppb	08:24:16
2	Mn 257.610†	581.3	207.7	0.2792 µg/L	0.2792 ppb	08:24:37
2	Mo 202.031†	-0.8	12.6	1.3629 µg/L	1.3629 ppb	08:24:37
2	Ni 231.604†	168.3	10.2	0.4934 µg/L	0.4934 ppb	08:24:37
2	P 214.914†	166.3	-1.2	-0.7882 µg/L	-0.7882 ppb	08:24:37
2	Pb 220.353†	32.1	25.1	4.8560 µg/L	4.8560 ppb	08:24:37
2	S 181.975 Axial†	43.0	13.2	23.189 µg/L	23.189 ppb	08:24:37
2	Sb 206.836†	30.1	13.9	5.2406 µg/L	5.2406 ppb	08:24:37
2	Se 196.026†	-26.5	-1.8	-1.26 µg/L	-1.26 ppb	08:24:37
2	SiO2 †	1061.1	340.9	19.881 µg/L	19.881 ppb	08:24:37
2	Sn 189.927†	-11.2	11.8	2.5540 µg/L	2.5540 ppb	08:24:37
2	Ti 334.940†	628.8	83.4	0.0823 µg/L	0.0823 ppb	08:24:16
2	Tl 190.801†	-22.0	7.8	2.4898 µg/L	2.4898 ppb	08:24:37
2	U 409.014†	452.6	83.5	4.0558 µg/L	4.0558 ppb	08:24:16
2	V 292.402†	-48.8	36.6	0.4130 µg/L	0.4130 ppb	08:24:16
2	Zn 213.857†	332.1	36.5	0.7046 µg/L	0.7046 ppb	08:24:37
2	Si 251.611†	995.2	283.2	7.75 µg/L	7.75 ppb	08:25:49
3	Sc RADIAL	72401.4	72401.4	100 %		08:23:12
3	Al 396.153Radial†	57.1	20.8	3.7471 µg/L	3.7471 ppb	08:23:12
3	Ca 317.933Radial†	295.5	38.7	5.7026 µg/L	5.7026 ppb	08:23:32
3	Fe 238.204 Radial†	42.8	2.0	2.7712 µg/L	2.7712 ppb	08:23:32
3	K 766.490 Radial†	1028.4	-53.3	-14.552 µg/L	-14.552 ppb	08:23:12
3	Mg 279.077 IEC†	2.3	1.1	2.3522 µg/L	2.3522 ppb	08:23:32
3	Na 589.592 Radial†	729.4	-458.2	-46.999 µg/L	-46.999 ppb	08:23:12
3	Sr 421.552†	100.0	95.0	0.2391 µg/L	0.2391 ppb	08:23:12
3	Sc 361.383	1533606.0	1533606.0	100.33 %		08:24:42
3	Y 371.029	849635.1	849635.1	100.23 %		08:24:42
3	Ag 328.068†	-884.4	37.1	0.2070 µg/L	0.2070 ppb	08:24:47
3	As 188.979†	27.6	25.1	10.329 µg/L	10.329 ppb	08:25:08
3	B 249.677†	472.0	384.7	17.982 µg/L	17.982 ppb	08:25:08
3	Ba 233.527†	-83.8	34.1	0.2744 µg/L	0.2744 ppb	08:25:08
3	Be 313.107†	409.7	45.3	0.0236 µg/L	0.0236 ppb	08:24:47
3	Cd 226.502†	-18.8	14.0	0.3845 µg/L	0.3845 ppb	08:25:08
3	Co 228.616†	-51.4	11.5	0.2734 µg/L	0.2734 ppb	08:25:08
3	Cr 267.716†	66.2	10.9	0.2273 µg/L	0.2273 ppb	08:25:08
3	Cu 324.752†	4025.3	146.9	0.4467 µg/L	0.4467 ppb	08:24:47
3	Mn 257.610†	520.4	147.4	0.1984 µg/L	0.1984 ppb	08:25:08
3	Mo 202.031†	2.4	15.7	1.7023 µg/L	1.7023 ppb	08:25:08
3	Ni 231.604†	151.1	-6.8	-0.3231 µg/L	-0.3231 ppb	08:25:08
3	P 214.914†	175.9	8.5	5.5125 µg/L	5.5125 ppb	08:25:08
3	Pb 220.353†	28.9	21.9	4.2336 µg/L	4.2336 ppb	08:25:08
3	S 181.975 Axial†	38.9	9.1	16.021 µg/L	16.021 ppb	08:25:08
3	Sb 206.836†	39.7	23.5	8.8701 µg/L	8.8701 ppb	08:25:08
3	Se 196.026†	-20.6	4.0	2.87 µg/L	2.87 ppb	08:25:08
3	SiO2 †	1020.1	300.9	17.551 µg/L	17.551 ppb	08:25:08
3	Sn 189.927†	-15.3	7.6	1.6553 µg/L	1.6553 ppb	08:25:08
3	Ti 334.940†	718.5	173.2	0.1717 µg/L	0.1717 ppb	08:24:47
3	Tl 190.801†	-25.4	4.3	1.3785 µg/L	1.3785 ppb	08:25:08
3	U 409.014†	395.0	26.5	1.2825 µg/L	1.2825 ppb	08:24:47
3	V 292.402†	-109.0	-23.4	-0.2332 µg/L	-0.2332 ppb	08:24:47
3	Zn 213.857†	333.2	37.9	0.7320 µg/L	0.7320 ppb	08:25:08
3	Si 251.611†	1007.6	296.4	8.11 µg/L	8.11 ppb	08:26:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1530582.1	100.13	%	0.415				0.41%
Sc RADIAL	72240.5	100	%	0.4				0.36%
Y 371.029	848444.0	100.09	%	0.381				0.38%
Ag 328.068†	38.5	0.2155	µg/L	0.19930	0.2155	ppb	0.19930	92.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	23.1	4.1893	µg/L	3.96955	4.1893	ppb	3.96955	94.76%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	24.6	10.152	µg/L	0.2182	10.152	ppb	0.2182	2.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	395.1	18.470	µg/L	0.5711	18.470	ppb	0.5711	3.09%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	39.0	0.3137	µg/L	0.05063	0.3137	ppb	0.05063	16.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	72.8	0.0380	µg/L	0.03554	0.0380	ppb	0.03554	93.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	33.7	4.9586	µg/L	0.92333	4.9586	ppb	0.92333	18.62%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	14.6	0.4014	µg/L	0.03175	0.4014	ppb	0.03175	7.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	9.5	0.2248	µg/L	0.05250	0.2248	ppb	0.05250	23.36%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	24.7	0.5185	µg/L	0.27192	0.5185	ppb	0.27192	52.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	173.9	0.5295	µg/L	0.09269	0.5295	ppb	0.09269	17.51%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 Radial†	2.6	3.6049	µg/L	2.37248	3.6049	ppb	2.37248	65.81%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated								
K 766.490 Radial†	-6.8	-1.8450	µg/L	11.00616	-1.8450	ppb	11.00616	596.55%
QC value within limits for K 766.490 Radial Recovery = Not calculated								
Mg 279.077 IEC†	1.9	3.9359	µg/L	10.62786	3.9359	ppb	10.62786	270.02%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated								
Mn 257.610†	159.7	0.2149	µg/L	0.05789	0.2149	ppb	0.05789	26.94%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	14.4	1.5577	µg/L	0.17522	1.5577	ppb	0.17522	11.25%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 Radial†	-411.7	-42.231	µg/L	4.1632	-42.231	ppb	4.1632	9.86%
QC value within limits for Na 589.592 Radial Recovery = Not calculated								
Ni 231.604†	2.2	0.1071	µg/L	0.40998	0.1071	ppb	0.40998	382.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	0.6	0.4101	µg/L	4.62128	0.4101	ppb	4.62128	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	23.4	4.5285	µg/L	0.31250	4.5285	ppb	0.31250	6.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
S 181.975 Axial†	9.1	15.966	µg/L	7.2513	15.966	ppb	7.2513	45.42%
QC value within limits for S 181.975 Axial Recovery = Not calculated								
Sb 206.836†	17.6	6.6433	µg/L	1.95000	6.6433	ppb	1.95000	29.35%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.2	1.55	µg/L	2.432	1.55	ppb	2.432	156.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
SiO2 †	319.2	18.619	µg/L	1.1772	18.619	ppb	1.1772	6.32%
QC value within limits for SiO2 Recovery = Not calculated								
Si 251.611†	282.5	7.73	µg/L	0.388	7.73	ppb	0.388	5.02%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	7.9	1.7215	µg/L	0.80148	1.7215	ppb	0.80148	46.56%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552†	66.9	0.1684	µg/L	0.07357	0.1684	ppb	0.07357	43.69%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 334.940†	148.3	0.1469	µg/L	0.05644	0.1469	ppb	0.05644	38.43%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	9.0	2.8929	µg/L	1.75106	2.8929	ppb	1.75106	60.53%
QC value within limits for Tl 190.801 Recovery = Not calculated								
U 409.014†	29.1	1.4134	µg/L	2.57944	1.4134	ppb	2.57944	182.50%
QC value within limits for U 409.014 Recovery = Not calculated								
V 292.402†	-5.8	-0.0447	µg/L	0.39841	-0.0447	ppb	0.39841	892.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	38.5	0.7427	µg/L	0.04438	0.7427	ppb	0.04438	5.98%
QC value within limits for Zn 213.857 Recovery = Not calculated								

All analyte(s) passed QC.

Analytical Sequence
Method: General Eng.2AZ

Seq.	Loc.	ID	Status
1	8	S0	Applied
2	2	S0.1	Applied
3	3	S0.5	Applied
4	4	SCAL	Applied
5	5	S10	Applied
6	9	ICV	QC Passed
7	10	ICB	QC Passed
8	11	PQL	QC Failed
9	13	ICSA	QC Passed
10	14	ICSAB	QC Passed
11	15	LR1	QC Passed
12	18	LR2	QC Failed
13	7	CCV	QC Passed
14	8	CCB	QC Passed

Sequence No.: 10
Sample ID: CCV
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 09:43:37
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71454.4	71454.4	99.1	%			09:45:21
1	Al 396.153Radial†	26540.0	26742.2	4905.2	µg/L	4905.2	ppb	09:45:21
1	Ca 317.933Radial†	34306.0	34358.5	5062.8	µg/L	5062.8	ppb	09:45:41
1	Fe 238.204 Radial†	3644.2	3636.3	5111.1	µg/L	5111.1	ppb	09:45:41
1	K 766.490 Radial†	18879.3	17971.5	4908.0	µg/L	4908.0	ppb	09:45:21
1	Mg 279.077 IEC†	2423.6	2444.1	5075.6	µg/L	5075.6	ppb	09:45:41
1	Na 589.592 Radial†	97996.5	97691.9	10021	µg/L	10021	ppb	09:45:21
1	Sr 421.552†	196203.6	197960.7	498.46	µg/L	498.46	ppb	09:45:21
1	Sc 361.383	1517540.5	1517540.5	99.280	%			09:46:42
1	Y 371.029	833782.9	833782.9	98.358	%			09:46:42
1	Ag 328.068†	87627.4	89181.6	499.56	µg/L	499.56	ppb	09:46:47
1	As 188.979†	1176.3	1182.4	492.21	µg/L	492.21	ppb	09:47:07
1	B 249.677†	10525.6	10516.2	492.54	µg/L	492.54	ppb	09:46:47
1	Ba 233.527†	60009.1	60562.0	487.62	µg/L	487.62	ppb	09:46:47
1	Be 313.107†	937913.5	944354.7	492.33	µg/L	492.33	ppb	09:46:42
1	Cd 226.502†	17595.8	17756.1	488.61	µg/L	488.61	ppb	09:46:47
1	Co 228.616†	20543.5	20755.3	488.50	µg/L	488.50	ppb	09:46:47
1	Cr 267.716†	23056.2	23168.4	486.04	µg/L	486.04	ppb	09:46:47
1	Cu 324.752†	164771.6	162101.8	495.00	µg/L	495.00	ppb	09:46:42
1	Mn 257.610†	364735.0	367009.8	493.66	µg/L	493.66	ppb	09:46:42
1	Mo 202.031†	4666.4	4713.6	511.20	µg/L	511.20	ppb	09:47:07
1	Ni 231.604†	10305.6	10222.9	491.73	µg/L	491.73	ppb	09:46:47
1	P 214.914†	3968.5	3830.5	2488.1	µg/L	2488.1	ppb	09:47:07
1	Pb 220.353†	2528.8	2540.2	491.69	µg/L	491.69	ppb	09:47:07
1	S 181.975 Axial†	593.9	568.6	1002.1	µg/L	1002.1	ppb	09:47:07
1	Sb 206.836†	1350.7	1344.4	511.54	µg/L	511.54	ppb	09:47:07
1	Se 196.026†	668.7	698.2	495	µg/L	495	ppb	09:47:07
1	SiO2 †	91748.3	91698.0	5348.5	µg/L	5348.5	ppb	09:46:47
1	Sn 189.927†	2244.1	2283.2	496.76	µg/L	496.76	ppb	09:47:07
1	Ti 334.940†	503555.7	506666.0	501.46	µg/L	501.46	ppb	09:46:42
1	Tl 190.801†	1447.7	1487.9	478.03	µg/L	478.03	ppb	09:47:07
1	U 409.014†	10433.6	10142.0	495.18	µg/L	495.18	ppb	09:46:47
1	V 292.402†	44827.8	45238.3	492.72	µg/L	492.72	ppb	09:46:47
1	Zn 213.857†	25434.7	25325.0	488.03	µg/L	488.03	ppb	09:46:47
1	Si 251.611†	89872.6	89816.6	2460	µg/L	2460	ppb	09:48:19
2	Sc RADIAL	71418.0	71418.0	99.1	%			09:45:46
2	Al 396.153Radial†	26616.5	26833.1	4921.7	µg/L	4921.7	ppb	09:45:46
2	Ca 317.933Radial†	34432.8	34504.1	5084.2	µg/L	5084.2	ppb	09:46:06
2	Fe 238.204 Radial†	3651.9	3646.0	5124.6	µg/L	5124.6	ppb	09:46:06
2	K 766.490 Radial†	18928.0	18030.4	4924.1	µg/L	4924.1	ppb	09:45:46
2	Mg 279.077 IEC†	2424.6	2446.4	5080.4	µg/L	5080.4	ppb	09:46:06
2	Na 589.592 Radial†	97923.9	97669.0	10019	µg/L	10019	ppb	09:45:46
2	Sr 421.552†	196110.7	197967.8	498.48	µg/L	498.48	ppb	09:45:46
2	Sc 361.383	1504599.7	1504599.7	98.433	%			09:47:14
2	Y 371.029	826901.8	826901.8	97.546	%			09:47:14
2	Ag 328.068†	87535.1	89847.0	503.28	µg/L	503.28	ppb	09:47:20
2	As 188.979†	1177.3	1193.6	496.88	µg/L	496.88	ppb	09:47:40
2	B 249.677†	10525.4	10607.2	496.81	µg/L	496.81	ppb	09:47:20
2	Ba 233.527†	59886.7	60957.6	490.80	µg/L	490.80	ppb	09:47:20
2	Be 313.107†	928673.8	943093.4	491.67	µg/L	491.67	ppb	09:47:14
2	Cd 226.502†	17567.0	17879.3	492.00	µg/L	492.00	ppb	09:47:20
2	Co 228.616†	20523.9	20913.3	492.23	µg/L	492.23	ppb	09:47:20
2	Cr 267.716†	23044.4	23356.1	489.98	µg/L	489.98	ppb	09:47:20
2	Cu 324.752†	162342.8	161061.9	491.82	µg/L	491.82	ppb	09:47:14
2	Mn 257.610†	360752.2	366123.4	492.47	µg/L	492.47	ppb	09:47:14
2	Mo 202.031†	4669.1	4756.8	515.89	µg/L	515.89	ppb	09:47:40
2	Ni 231.604†	10279.5	10285.7	494.75	µg/L	494.75	ppb	09:47:20
2	P 214.914†	3961.6	3857.8	2505.8	µg/L	2505.8	ppb	09:47:40

2	Pb 220.353†	2528.8	2562.1	495.93 µg/L	495.93 ppb	09:47:40
2	S 181.975 Axial†	591.5	571.3	1007.0 µg/L	1007.0 ppb	09:47:40
2	Sb 206.836†	1337.6	1342.8	511.01 µg/L	511.01 ppb	09:47:40
2	Se 196.026†	672.8	708.2	502 µg/L	502 ppb	09:47:40
2	SiO2 †	91415.3	92154.6	5375.1 µg/L	5375.1 ppb	09:47:20
2	Sn 189.927†	2251.9	2310.6	502.71 µg/L	502.71 ppb	09:47:40
2	Ti 334.940†	497577.9	504955.4	499.77 µg/L	499.77 ppb	09:47:14
2	Tl 190.801†	1445.1	1497.8	481.20 µg/L	481.20 ppb	09:47:40
2	U 409.014†	10404.2	10202.5	498.14 µg/L	498.14 ppb	09:47:20
2	V 292.402†	44722.6	45519.8	495.80 µg/L	495.80 ppb	09:47:20
2	Zn 213.857†	25343.8	25453.1	490.52 µg/L	490.52 ppb	09:47:20
2	Si 251.611†	90258.7	90987.5	2490 µg/L	2490 ppb	09:48:24
3	Sc RADIAL	71175.1	71175.1	98.7 %		09:46:12
3	Al 396.153Radial†	26635.3	26943.9	4942.5 µg/L	4942.5 ppb	09:46:12
3	Ca 317.933Radial†	34405.1	34594.7	5097.6 µg/L	5097.6 ppb	09:46:32
3	Fe 238.204 Radial†	3658.1	3664.8	5151.1 µg/L	5151.1 ppb	09:46:32
3	K 766.490 Radial†	18841.3	18007.8	4917.9 µg/L	4917.9 ppb	09:46:12
3	Mg 279.077 IEC†	2422.6	2452.7	5093.3 µg/L	5093.3 ppb	09:46:32
3	Na 589.592 Radial†	97995.4	98078.8	10061 µg/L	10061 ppb	09:46:12
3	Sr 421.552†	196109.6	198642.3	500.18 µg/L	500.18 ppb	09:46:12
3	Sc 361.383	1523442.6	1523442.6	99.666 %		09:47:47
3	Y 371.029	836780.5	836780.5	98.712 %		09:47:47
3	Ag 328.068†	87876.6	89089.8	499.05 µg/L	499.05 ppb	09:47:52
3	As 188.979†	1177.8	1179.3	490.92 µg/L	490.92 ppb	09:48:13
3	B 249.677†	10548.9	10498.5	491.69 µg/L	491.69 ppb	09:47:52
3	Ba 233.527†	60078.8	60397.9	486.30 µg/L	486.30 ppb	09:47:52
3	Be 313.107†	936561.9	939338.7	489.72 µg/L	489.72 ppb	09:47:47
3	Cd 226.502†	17632.9	17724.7	487.74 µg/L	487.74 ppb	09:47:52
3	Co 228.616†	20555.5	20687.1	486.90 µg/L	486.90 ppb	09:47:52
3	Cr 267.716†	23118.8	23141.2	485.47 µg/L	485.47 ppb	09:47:52
3	Cu 324.752†	164108.1	160793.1	491.01 µg/L	491.01 ppb	09:47:47
3	Mn 257.610†	364258.4	365108.3	491.11 µg/L	491.11 ppb	09:47:47
3	Mo 202.031†	4657.6	4686.5	508.27 µg/L	508.27 ppb	09:48:13
3	Ni 231.604†	10335.7	10212.9	491.24 µg/L	491.24 ppb	09:47:52
3	P 214.914†	3979.7	3826.2	2485.3 µg/L	2485.3 ppb	09:48:13
3	Pb 220.353†	2540.2	2541.8	491.99 µg/L	491.99 ppb	09:48:13
3	S 181.975 Axial†	596.9	569.2	1003.2 µg/L	1003.2 ppb	09:48:13
3	Sb 206.836†	1342.9	1331.3	506.59 µg/L	506.59 ppb	09:48:13
3	Se 196.026†	663.9	690.8	490 µg/L	490 ppb	09:48:13
3	SiO2 †	91961.9	91554.3	5340.1 µg/L	5340.1 ppb	09:47:52
3	Sn 189.927†	2252.5	2282.9	496.70 µg/L	496.70 ppb	09:48:13
3	Ti 334.940†	502585.2	503727.3	498.55 µg/L	498.55 ppb	09:47:47
3	Tl 190.801†	1456.8	1491.3	479.12 µg/L	479.12 ppb	09:48:13
3	U 409.014†	10426.5	10094.2	492.86 µg/L	492.86 ppb	09:47:52
3	V 292.402†	44974.4	45210.4	492.39 µg/L	492.39 ppb	09:47:52
3	Zn 213.857†	25478.3	25269.5	486.96 µg/L	486.96 ppb	09:47:52
3	Si 251.611†	90165.2	89759.5	2460 µg/L	2460 ppb	09:48:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1515194.2	99.126	%	0.6305				0.64%
Sc RADIAL	71349.2	99.0	%	0.21				0.21%
Y 371.029	832488.4	98.205	%	0.5975				0.61%
Ag 328.068†	89372.8	500.63	µg/L	2.307	500.63	ppb	2.307	0.46%
QC value within limits for Ag 328.068 Recovery = 100.13%								
Al 396.153Radial†	26839.7	4923.1	µg/L	18.69	4923.1	ppb	18.69	0.38%
QC value within limits for Al 396.153Radial Recovery = 98.46%								
As 188.979†	1185.1	493.34	µg/L	3.134	493.34	ppb	3.134	0.64%
QC value within limits for As 188.979 Recovery = 98.67%								
B 249.677†	10540.6	493.68	µg/L	2.744	493.68	ppb	2.744	0.56%
QC value within limits for B 249.677 Recovery = 98.74%								
Ba 233.527†	60639.2	488.24	µg/L	2.317	488.24	ppb	2.317	0.47%
QC value within limits for Ba 233.527 Recovery = 97.65%								
Be 313.107†	942262.3	491.24	µg/L	1.360	491.24	ppb	1.360	0.28%
QC value within limits for Be 313.107 Recovery = 98.25%								
Ca 317.933Radial†	34485.7	5081.5	µg/L	17.56	5081.5	ppb	17.56	0.35%
QC value within limits for Ca 317.933Radial Recovery = 101.63%								
Cd 226.502†	17786.7	489.45	µg/L	2.251	489.45	ppb	2.251	0.46%
QC value within limits for Cd 226.502 Recovery = 97.89%								

Co 228.616†	20785.2	489.21 µg/L	2.734	489.21 ppb	2.734	0.56%
QC value within limits for Co 228.616 Recovery = 97.84%						
Cr 267.716†	23221.9	487.16 µg/L	2.454	487.16 ppb	2.454	0.50%
QC value within limits for Cr 267.716 Recovery = 97.43%						
Cu 324.752†	161318.9	492.61 µg/L	2.112	492.61 ppb	2.112	0.43%
QC value within limits for Cu 324.752 Recovery = 98.52%						
Fe 238.204 Radial†	3649.0	5128.9 µg/L	20.36	5128.9 ppb	20.36	0.40%
QC value within limits for Fe 238.204 Radial Recovery = 102.58%						
K 766.490 Radial†	18003.2	4916.7 µg/L	8.11	4916.7 ppb	8.11	0.16%
QC value within limits for K 766.490 Radial Recovery = 98.33%						
Mg 279.077 IEC†	2447.8	5083.1 µg/L	9.15	5083.1 ppb	9.15	0.18%
QC value within limits for Mg 279.077 IEC Recovery = 101.66%						
Mn 257.610†	366080.5	492.41 µg/L	1.276	492.41 ppb	1.276	0.26%
QC value within limits for Mn 257.610 Recovery = 98.48%						
Mo 202.031†	4719.0	511.79 µg/L	3.842	511.79 ppb	3.842	0.75%
QC value within limits for Mo 202.031 Recovery = 102.36%						
Na 589.592 Radial†	97813.3	10033 µg/L	23.6	10033 ppb	23.6	0.24%
QC value within limits for Na 589.592 Radial Recovery = 100.33%						
Ni 231.604†	10240.5	492.57 µg/L	1.902	492.57 ppb	1.902	0.39%
QC value within limits for Ni 231.604 Recovery = 98.51%						
P 214.914†	3838.2	2493.1 µg/L	11.13	2493.1 ppb	11.13	0.45%
QC value within limits for P 214.914 Recovery = 99.72%						
Pb 220.353†	2548.0	493.21 µg/L	2.368	493.21 ppb	2.368	0.48%
QC value within limits for Pb 220.353 Recovery = 98.64%						
S 181.975 Axial†	569.7	1004.1 µg/L	2.56	1004.1 ppb	2.56	0.26%
QC value within limits for S 181.975 Axial Recovery = 100.41%						
Sb 206.836†	1339.5	509.71 µg/L	2.714	509.71 ppb	2.714	0.53%
QC value within limits for Sb 206.836 Recovery = 101.94%						
Se 196.026†	699.1	496 µg/L	6.2	496 ppb	6.2	1.25%
QC value within limits for Se 196.026 Recovery = 99.15%						
SiO2 †	91802.3	5354.6 µg/L	18.28	5354.6 ppb	18.28	0.34%
QC value within limits for SiO2 Recovery = 100.13%						
Si 251.611†	90187.9	2470 µg/L	19.0	2470 ppb	19.0	0.77%
QC value within limits for Si 251.611 Recovery = 98.76%						
Sn 189.927†	2292.3	498.72 µg/L	3.452	498.72 ppb	3.452	0.69%
QC value within limits for Sn 189.927 Recovery = 99.74%						
Sr 421.552†	198190.3	499.04 µg/L	0.986	499.04 ppb	0.986	0.20%
QC value within limits for Sr 421.552 Recovery = 99.81%						
Ti 334.940†	505116.2	499.93 µg/L	1.461	499.93 ppb	1.461	0.29%
QC value within limits for Ti 334.940 Recovery = 99.99%						
Tl 190.801†	1492.3	479.45 µg/L	1.609	479.45 ppb	1.609	0.34%
QC value within limits for Tl 190.801 Recovery = 95.89%						
U 409.014†	10146.2	495.40 µg/L	2.645	495.40 ppb	2.645	0.53%
QC value within limits for U 409.014 Recovery = 99.08%						
V 292.402†	45322.8	493.64 µg/L	1.883	493.64 ppb	1.883	0.38%
QC value within limits for V 292.402 Recovery = 98.73%						
Zn 213.857†	25349.2	488.51 µg/L	1.822	488.51 ppb	1.822	0.37%
QC value within limits for Zn 213.857 Recovery = 97.70%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 09:50:37
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72774.8	72774.8	101	%			09:52:25
1	Al 396.153Radial†	49.8	13.3	2.4495	µg/L	2.4495	ppb	09:52:25
1	Ca 317.933Radial†	259.4	1.4	0.2038	µg/L	0.2038	ppb	09:52:45
1	Fe 238.204 Radial†	41.4	0.3	0.4873	µg/L	0.4873	ppb	09:52:45
1	K 766.490 Radial†	1073.5	-13.8	-3.7714	µg/L	-3.7714	ppb	09:52:25
1	Mg 279.077 IEC†	7.8	6.6	13.577	µg/L	13.577	ppb	09:52:45
1	Na 589.592 Radial†	709.4	-481.7	-49.415	µg/L	-49.415	ppb	09:52:25
1	Sr 421.552†	32.3	27.4	0.0691	µg/L	0.0691	ppb	09:52:25
1	Sc 361.383	1492607.7	1492607.7	97.649	%			09:53:44
1	Y 371.029	826979.8	826979.8	97.556	%			09:53:44
1	Ag 328.068†	-806.6	92.6	0.5165	µg/L	0.5165	ppb	09:53:49
1	As 188.979†	2.0	-0.4	-0.1530	µg/L	-0.1530	ppb	09:54:09
1	B 249.677†	304.2	225.8	10.553	µg/L	10.553	ppb	09:54:09
1	Ba 233.527†	-116.5	-1.6	-0.0132	µg/L	-0.0132	ppb	09:54:09
1	Be 313.107†	403.6	50.3	0.0262	µg/L	0.0262	ppb	09:53:49
1	Cd 226.502†	-29.3	2.8	0.0762	µg/L	0.0762	ppb	09:54:09
1	Co 228.616†	-61.1	0.2	0.0037	µg/L	0.0037	ppb	09:54:09
1	Cr 267.716†	60.9	7.2	0.1517	µg/L	0.1517	ppb	09:54:09
1	Cu 324.752†	3910.5	139.5	0.4300	µg/L	0.4300	ppb	09:53:49
1	Mn 257.610†	416.8	55.5	0.0747	µg/L	0.0747	ppb	09:54:09
1	Mo 202.031†	-12.9	0.2	0.0172	µg/L	0.0172	ppb	09:54:09
1	Ni 231.604†	157.9	4.2	0.2024	µg/L	0.2024	ppb	09:54:09
1	P 214.914†	162.4	-0.5	-0.3268	µg/L	-0.3268	ppb	09:54:09
1	Pb 220.353†	10.7	4.0	0.7761	µg/L	0.7761	ppb	09:54:09
1	S 181.975 Axial†	24.1	-4.9	-8.6301	µg/L	-8.6301	ppb	09:54:09
1	Sb 206.836†	26.6	11.2	4.2163	µg/L	4.2163	ppb	09:54:09
1	Se 196.026†	-32.1	-8.3	-5.87	µg/L	-5.87	ppb	09:54:09
1	SiO2 †	790.9	94.1	5.4861	µg/L	5.4861	ppb	09:54:09
1	Sn 189.927†	-25.6	-3.4	-0.7306	µg/L	-0.7306	ppb	09:54:09
1	Ti 334.940†	555.3	25.9	0.0255	µg/L	0.0255	ppb	09:53:49
1	Tl 190.801†	-16.0	13.3	4.2642	µg/L	4.2642	ppb	09:54:09
1	U 409.014†	287.0	-73.3	-3.5605	µg/L	-3.5605	ppb	09:53:49
1	V 292.402†	-70.1	13.5	0.1415	µg/L	0.1415	ppb	09:53:49
1	Zn 213.857†	305.1	18.3	0.3521	µg/L	0.3521	ppb	09:54:09
1	Si 251.611†	817.3	129.1	3.53	µg/L	3.53	ppb	09:55:33
2	Sc RADIAL	68835.4	68835.4	95.5	%			09:52:50
2	Al 396.153Radial†	85.6	53.6	9.8343	µg/L	9.8343	ppb	09:52:50
2	Ca 317.933Radial†	256.4	13.0	1.9174	µg/L	1.9174	ppb	09:53:10
2	Fe 238.204 Radial†	44.9	6.4	8.9554	µg/L	8.9554	ppb	09:53:10
2	K 766.490 Radial†	1028.4	-0.2	-0.0574	µg/L	-0.0574	ppb	09:52:50
2	Mg 279.077 IEC†	5.7	4.7	9.8271	µg/L	9.8271	ppb	09:53:10
2	Na 589.592 Radial†	808.9	-337.3	-34.600	µg/L	-34.600	ppb	09:52:50
2	Sr 421.552†	27.6	24.3	0.0611	µg/L	0.0611	ppb	09:52:50
2	Sc 361.383	1502773.7	1502773.7	98.314	%			09:54:15
2	Y 371.029	832882.0	832882.0	98.252	%			09:54:15
2	Ag 328.068†	-860.2	43.6	0.2458	µg/L	0.2458	ppb	09:54:20
2	As 188.979†	5.2	2.9	1.1928	µg/L	1.1928	ppb	09:54:41
2	B 249.677†	282.3	201.4	9.4116	µg/L	9.4116	ppb	09:54:41
2	Ba 233.527†	-106.2	9.6	0.0774	µg/L	0.0774	ppb	09:54:41
2	Be 313.107†	391.2	34.9	0.0182	µg/L	0.0182	ppb	09:54:20
2	Cd 226.502†	-29.6	2.6	0.0710	µg/L	0.0710	ppb	09:54:41
2	Co 228.616†	-53.3	8.5	0.2010	µg/L	0.2010	ppb	09:54:41
2	Cr 267.716†	53.2	-1.0	-0.0204	µg/L	-0.0204	ppb	09:54:41
2	Cu 324.752†	3893.8	95.4	0.2912	µg/L	0.2912	ppb	09:54:20
2	Mn 257.610†	417.9	53.8	0.0732	µg/L	0.0732	ppb	09:54:41
2	Mo 202.031†	-5.8	7.5	0.8107	µg/L	0.8107	ppb	09:54:41
2	Ni 231.604†	151.8	-3.0	-0.1434	µg/L	-0.1434	ppb	09:54:41
2	P 214.914†	162.0	-2.1	-1.3707	µg/L	-1.3707	ppb	09:54:41

2	Pb 220.353†	18.8	12.2	2.3611 µg/L	2.3611	ppb	09:54:41
2	S 181.975 Axial†	33.1	4.0	7.1030 µg/L	7.1030	ppb	09:54:41
2	Sb 206.836†	12.6	-3.3	-1.2284 µg/L	-1.2284	ppb	09:54:41
2	Se 196.026†	-30.4	-6.3	-4.44 µg/L	-4.44	ppb	09:54:41
2	SiO2 †	791.1	88.8	5.1807 µg/L	5.1807	ppb	09:54:41
2	Sn 189.927†	-20.6	1.9	0.4097 µg/L	0.4097	ppb	09:54:41
2	Ti 334.940†	513.1	-21.0	-0.0208 µg/L	-0.0208	ppb	09:54:20
2	Tl 190.801†	-22.4	6.8	2.1960 µg/L	2.1960	ppb	09:54:41
2	U 409.014†	368.2	7.3	0.3540 µg/L	0.3540	ppb	09:54:20
2	V 292.402†	-69.3	14.8	0.1674 µg/L	0.1674	ppb	09:54:20
2	Zn 213.857†	307.8	18.9	0.3637 µg/L	0.3637	ppb	09:54:41
2	Si 251.611†	756.6	61.6	1.69 µg/L	1.69	ppb	09:55:53
3	Sc RADIAL	72979.8	72979.8	101 %			09:53:15
3	Al 396.153Radial†	1.0	-35.0	-6.4547 µg/L	-6.4547	ppb	09:53:15
3	Ca 317.933Radial†	267.2	8.4	1.2354 µg/L	1.2354	ppb	09:53:35
3	Fe 238.204 Radial†	42.2	1.0	1.4667 µg/L	1.4667	ppb	09:53:35
3	K 766.490 Radial†	1020.1	-69.5	-18.988 µg/L	-18.988	ppb	09:53:15
3	Mg 279.077 IEC†	6.7	5.5	11.307 µg/L	11.307	ppb	09:53:35
3	Na 589.592 Radial†	870.9	-324.2	-33.251 µg/L	-33.251	ppb	09:53:15
3	Sr 421.552†	38.0	32.9	0.0829 µg/L	0.0829	ppb	09:53:15
3	Sc 361.383	1526630.6	1526630.6	99.874 %			09:54:46
3	Y 371.029	845517.9	845517.9	99.742 %			09:54:46
3	Ag 328.068†	-886.3	31.1	0.1749 µg/L	0.1749	ppb	09:54:52
3	As 188.979†	0.3	-2.1	-0.8759 µg/L	-0.8759	ppb	09:55:12
3	B 249.677†	285.4	200.1	9.3493 µg/L	9.3493	ppb	09:55:12
3	Ba 233.527†	-100.8	16.7	0.1345 µg/L	0.1345	ppb	09:55:12
3	Be 313.107†	341.5	-21.1	-0.0110 µg/L	-0.0110	ppb	09:54:52
3	Cd 226.502†	-33.7	-1.1	-0.0292 µg/L	-0.0292	ppb	09:55:12
3	Co 228.616†	-51.5	11.2	0.2631 µg/L	0.2631	ppb	09:55:12
3	Cr 267.716†	50.6	-4.4	-0.0928 µg/L	-0.0928	ppb	09:55:12
3	Cu 324.752†	3872.2	11.9	0.0366 µg/L	0.0366	ppb	09:54:52
3	Mn 257.610†	415.6	44.9	0.0605 µg/L	0.0605	ppb	09:55:12
3	Mo 202.031†	-13.6	-0.3	-0.0288 µg/L	-0.0288	ppb	09:55:12
3	Ni 231.604†	162.9	5.7	0.2736 µg/L	0.2736	ppb	09:55:12
3	P 214.914†	171.2	4.6	2.9855 µg/L	2.9855	ppb	09:55:12
3	Pb 220.353†	1.9	-5.0	-0.9735 µg/L	-0.9735	ppb	09:55:12
3	S 181.975 Axial†	27.9	-1.7	-3.0254 µg/L	-3.0254	ppb	09:55:12
3	Sb 206.836†	23.6	7.6	2.8445 µg/L	2.8445	ppb	09:55:12
3	Se 196.026†	-15.8	8.8	6.20 µg/L	6.20	ppb	09:55:12
3	SiO2 †	765.2	50.2	2.9306 µg/L	2.9306	ppb	09:55:12
3	Sn 189.927†	-22.3	0.5	0.1136 µg/L	0.1136	ppb	09:55:12
3	Ti 334.940†	457.8	-84.5	-0.0839 µg/L	-0.0839	ppb	09:54:52
3	Tl 190.801†	-17.0	12.7	4.0673 µg/L	4.0673	ppb	09:55:12
3	U 409.014†	365.5	-1.3	-0.0601 µg/L	-0.0601	ppb	09:54:52
3	V 292.402†	-40.0	45.2	0.4850 µg/L	0.4850	ppb	09:54:52
3	Zn 213.857†	311.7	17.9	0.3462 µg/L	0.3462	ppb	09:55:12
3	Si 251.611†	780.4	73.4	2.01 µg/L	2.01	ppb	09:56:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1507337.4	98.612	%	1.1426				1.16%
Sc RADIAL	71530.0	99.2	%	3.24				3.27%
Y 371.029	835126.6	98.517	%	1.1172				1.13%
Ag 328.068†	55.8	0.3124	µg/L	0.18026	0.3124	ppb	0.18026	57.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	10.6	1.9430	µg/L	8.15628	1.9430	ppb	8.15628	419.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.1	0.0546	µg/L	1.04988	0.0546	ppb	1.04988	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	209.1	9.7713	µg/L	0.67775	9.7713	ppb	0.67775	6.94%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.2	0.0662	µg/L	0.07444	0.0662	ppb	0.07444	112.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	21.3	0.0111	µg/L	0.01960	0.0111	ppb	0.01960	176.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	7.6	1.1189	µg/L	0.86272	1.1189	ppb	0.86272	77.11%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.4	0.0393	µg/L	0.05940	0.0393	ppb	0.05940	151.05%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	6.6	0.1559 µg/L	0.13543	0.1559 ppb	0.13543	86.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.6	0.0128 µg/L	0.12556	0.0128 ppb	0.12556	978.78%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	82.3	0.2526 µg/L	0.19950	0.2526 ppb	0.19950	78.98%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.6	3.6365 µg/L	4.63226	3.6365 ppb	4.63226	127.38%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-27.8	-7.6057 µg/L	10.03102	-7.6057 ppb	10.03102	131.89%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	5.6	11.570 µg/L	1.8886	11.570 ppb	1.8886	16.32%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	51.4	0.0695 µg/L	0.00783	0.0695 ppb	0.00783	11.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.5	0.2664 µg/L	0.47196	0.2664 ppb	0.47196	177.17%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-381.1	-39.088 µg/L	8.9682	-39.088 ppb	8.9682	22.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	2.3	0.1109 µg/L	0.22310	0.1109 ppb	0.22310	201.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.7	0.4293 µg/L	2.27440	0.4293 ppb	2.27440	529.78%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.7	0.7212 µg/L	1.66801	0.7212 ppb	1.66801	231.27%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.9	-1.5175 µg/L	7.97422	-1.5175 ppb	7.97422	525.48%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.2	1.9441 µg/L	2.83181	1.9441 ppb	2.83181	145.66%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.9	-1.37 µg/L	6.592	-1.37 ppb	6.592	481.16%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	77.7	4.5325 µg/L	1.39566	4.5325 ppb	1.39566	30.79%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	88.0	2.41 µg/L	0.986	2.41 ppb	0.986	40.92%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.3	-0.0691 µg/L	0.59168	-0.0691 ppb	0.59168	856.53%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	28.2	0.0710 µg/L	0.01103	0.0710 ppb	0.01103	15.52%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-26.6	-0.0264 µg/L	0.05491	-0.0264 ppb	0.05491	207.87%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	10.9	3.5092 µg/L	1.14149	3.5092 ppb	1.14149	32.53%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-22.5	-1.0889 µg/L	2.15047	-1.0889 ppb	2.15047	197.50%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	24.5	0.2646 µg/L	0.19132	0.2646 ppb	0.19132	72.30%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	18.4	0.3540 µg/L	0.00893	0.3540 ppb	0.00893	2.52%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 2
Sample ID: CCV
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 10:19:23
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	68825.1	68825.1	95.5	%			10:21:10
1	Al 396.153Radial†	25967.4	27165.4	4982.9	µg/L	4982.9	ppb	10:21:10
1	Ca 317.933Radial†	33826.6	35178.6	5183.6	µg/L	5183.6	ppb	10:21:30
1	Fe 238.204 Radial†	3571.0	3700.0	5200.6	µg/L	5200.6	ppb	10:21:30
1	K 766.490 Radial†	21267.7	21201.2	5790.0	µg/L	5790.0	ppb	10:21:10
1	Mg 279.077 IEC†	2381.3	2493.3	5177.5	µg/L	5177.5	ppb	10:21:30
1	Na 589.592 Radial†	97314.2	100754.6	10335	µg/L	10335	ppb	10:21:10
1	Sr 421.552†	190981.9	200053.7	503.73	µg/L	503.73	ppb	10:21:10
1	Sc 361.383	1477647.0	1477647.0	96.670	%			10:22:31
1	Y 371.029	811836.7	811836.7	95.769	%			10:22:31
1	Ag 328.068†	87060.6	90978.3	509.62	µg/L	509.62	ppb	10:22:37
1	As 188.979†	1159.7	1197.2	498.40	µg/L	498.40	ppb	10:22:57
1	B 249.677†	10375.1	10646.8	498.66	µg/L	498.66	ppb	10:22:37
1	Ba 233.527†	59512.1	61679.8	496.62	µg/L	496.62	ppb	10:22:37
1	Be 313.107†	917423.5	948664.3	494.58	µg/L	494.58	ppb	10:22:31
1	Cd 226.502†	17446.5	18080.2	497.53	µg/L	497.53	ppb	10:22:37
1	Co 228.616†	20419.5	21185.7	498.63	µg/L	498.63	ppb	10:22:37
1	Cr 267.716†	22901.2	23635.0	495.83	µg/L	495.83	ppb	10:22:37
1	Cu 324.752†	159967.8	161613.4	493.50	µg/L	493.50	ppb	10:22:31
1	Mn 257.610†	356614.8	368528.4	495.71	µg/L	495.71	ppb	10:22:31
1	Mo 202.031†	4590.2	4761.7	516.43	µg/L	516.43	ppb	10:22:57
1	Ni 231.604†	10210.7	10405.0	500.48	µg/L	500.48	ppb	10:22:37
1	P 214.914†	3904.2	3871.9	2514.9	µg/L	2514.9	ppb	10:22:57
1	Pb 220.353†	2499.5	2578.7	499.14	µg/L	499.14	ppb	10:22:57
1	S 181.975 Axial†	690.2	684.3	1205.5	µg/L	1205.5	ppb	10:22:57
1	Sb 206.836†	1320.1	1349.5	513.54	µg/L	513.54	ppb	10:22:57
1	Se 196.026†	651.2	698.2	495	µg/L	495	ppb	10:22:57
1	SiO2 †	91086.4	93508.4	5454.1	µg/L	5454.1	ppb	10:22:37
1	Sn 189.927†	2206.0	2304.8	501.46	µg/L	501.46	ppb	10:22:57
1	Ti 334.940†	490898.7	507266.5	502.05	µg/L	502.05	ppb	10:22:31
1	Tl 190.801†	1453.1	1532.8	492.47	µg/L	492.47	ppb	10:22:57
1	U 409.014†	10363.8	10353.6	505.51	µg/L	505.51	ppb	10:22:37
1	V 292.402†	44506.8	46125.3	502.34	µg/L	502.34	ppb	10:22:37
1	Zn 213.857†	25260.5	25836.5	497.92	µg/L	497.92	ppb	10:22:37
1	Si 251.611†	88852.7	91205.6	2500	µg/L	2500	ppb	10:24:08
2	Sc RADIAL	69371.2	69371.2	96.2	%			10:21:36
2	Al 396.153Radial†	26060.7	27048.2	4961.4	µg/L	4961.4	ppb	10:21:36
2	Ca 317.933Radial†	33692.7	34760.5	5122.0	µg/L	5122.0	ppb	10:21:56
2	Fe 238.204 Radial†	3560.2	3659.4	5143.5	µg/L	5143.5	ppb	10:21:56
2	K 766.490 Radial†	21061.8	20811.8	5683.7	µg/L	5683.7	ppb	10:21:36
2	Mg 279.077 IEC†	2364.6	2456.3	5100.8	µg/L	5100.8	ppb	10:21:56
2	Na 589.592 Radial†	97389.5	100030.3	10261	µg/L	10261	ppb	10:21:36
2	Sr 421.552†	191463.8	198979.7	501.03	µg/L	501.03	ppb	10:21:36
2	Sc 361.383	1480884.4	1480884.4	96.882	%			10:23:04
2	Y 371.029	813836.9	813836.9	96.005	%			10:23:04
2	Ag 328.068†	86790.7	90502.8	506.94	µg/L	506.94	ppb	10:23:09
2	As 188.979†	1143.7	1178.1	490.52	µg/L	490.52	ppb	10:23:30
2	B 249.677†	10370.4	10618.5	497.34	µg/L	497.34	ppb	10:23:09
2	Ba 233.527†	59210.6	61234.0	493.03	µg/L	493.03	ppb	10:23:09
2	Be 313.107†	922690.8	952026.5	496.33	µg/L	496.33	ppb	10:23:04
2	Cd 226.502†	17424.0	18017.6	495.81	µg/L	495.81	ppb	10:23:09
2	Co 228.616†	20304.5	21020.8	494.75	µg/L	494.75	ppb	10:23:09
2	Cr 267.716†	22878.4	23559.7	494.25	µg/L	494.25	ppb	10:23:09
2	Cu 324.752†	161473.0	162805.2	497.14	µg/L	497.14	ppb	10:23:04
2	Mn 257.610†	358561.7	369731.5	497.32	µg/L	497.32	ppb	10:23:04
2	Mo 202.031†	4586.2	4747.2	514.85	µg/L	514.85	ppb	10:23:30
2	Ni 231.604†	10186.0	10356.4	498.14	µg/L	498.14	ppb	10:23:09
2	P 214.914†	3895.0	3853.5	2503.1	µg/L	2503.1	ppb	10:23:30

2	Pb 220.353†	2505.7	2579.4	499.27 µg/L	499.27 ppb	10:23:30
2	S 181.975 Axial†	683.7	676.1	1191.0 µg/L	1191.0 ppb	10:23:30
2	Sb 206.836†	1317.6	1343.9	511.40 µg/L	511.40 ppb	10:23:30
2	Se 196.026†	647.9	693.4	492 µg/L	492 ppb	10:23:30
2	SiO2 †	90730.9	92935.3	5420.7 µg/L	5420.7 ppb	10:23:09
2	Sn 189.927†	2201.4	2295.1	499.34 µg/L	499.34 ppb	10:23:30
2	Ti 334.940†	494565.2	509940.9	504.70 µg/L	504.70 ppb	10:23:04
2	Tl 190.801†	1441.6	1517.7	487.60 µg/L	487.60 ppb	10:23:30
2	U 409.014†	10314.6	10279.4	501.89 µg/L	501.89 ppb	10:23:09
2	V 292.402†	44274.8	45785.1	498.66 µg/L	498.66 ppb	10:23:09
2	Zn 213.857†	25192.7	25709.4	495.46 µg/L	495.46 ppb	10:23:09
2	Si 251.611†	89204.7	91368.0	2500 µg/L	2500 ppb	10:24:13
3	Sc RADIAL	69598.3	69598.3	96.5 %		10:22:01
3	Al 396.153Radial†	26130.4	27032.1	4958.5 µg/L	4958.5 ppb	10:22:01
3	Ca 317.933Radial†	33745.9	34701.4	5113.3 µg/L	5113.3 ppb	10:22:21
3	Fe 238.204 Radial†	3565.1	3652.3	5133.6 µg/L	5133.6 ppb	10:22:21
3	K 766.490 Radial†	20922.7	20596.3	5624.8 µg/L	5624.8 ppb	10:22:01
3	Mg 279.077 IEC†	2380.4	2464.6	5118.0 µg/L	5118.0 ppb	10:22:21
3	Na 589.592 Radial†	97497.7	99812.2	10239 µg/L	10239 ppb	10:22:01
3	Sr 421.552†	192070.6	198959.0	500.98 µg/L	500.98 ppb	10:22:01
3	Sc 361.383	1479630.5	1479630.5	96.800 %		10:23:37
3	Y 371.029	812600.3	812600.3	95.859 %		10:23:37
3	Ag 328.068†	86441.6	90218.0	505.36 µg/L	505.36 ppb	10:23:42
3	As 188.979†	1153.2	1188.9	494.94 µg/L	494.94 ppb	10:24:02
3	B 249.677†	10327.9	10583.6	495.71 µg/L	495.71 ppb	10:23:42
3	Ba 233.527†	59153.0	61226.4	492.97 µg/L	492.97 ppb	10:23:42
3	Be 313.107†	919823.4	949871.4	495.21 µg/L	495.21 ppb	10:23:37
3	Cd 226.502†	17366.0	17972.8	494.58 µg/L	494.58 ppb	10:23:42
3	Co 228.616†	20340.5	21075.7	496.04 µg/L	496.04 ppb	10:23:42
3	Cr 267.716†	22781.9	23480.0	492.58 µg/L	492.58 ppb	10:23:42
3	Cu 324.752†	160561.1	162004.4	494.70 µg/L	494.70 ppb	10:23:37
3	Mn 257.610†	357782.4	369240.2	496.66 µg/L	496.66 ppb	10:23:37
3	Mo 202.031†	4575.3	4739.9	514.06 µg/L	514.06 ppb	10:24:02
3	Ni 231.604†	10146.4	10324.4	496.61 µg/L	496.61 ppb	10:23:42
3	P 214.914†	3901.0	3863.2	2509.4 µg/L	2509.4 ppb	10:24:02
3	Pb 220.353†	2494.3	2569.9	497.43 µg/L	497.43 ppb	10:24:02
3	S 181.975 Axial†	674.1	666.7	1174.6 µg/L	1174.6 ppb	10:24:02
3	Sb 206.836†	1319.9	1347.4	512.72 µg/L	512.72 ppb	10:24:02
3	Se 196.026†	648.4	694.5	493 µg/L	493 ppb	10:24:02
3	SiO2 †	90340.4	92611.3	5401.8 µg/L	5401.8 ppb	10:23:42
3	Sn 189.927†	2213.7	2309.8	502.53 µg/L	502.53 ppb	10:24:02
3	Ti 334.940†	493101.6	508861.6	503.63 µg/L	503.63 ppb	10:23:37
3	Tl 190.801†	1445.9	1523.4	489.43 µg/L	489.43 ppb	10:24:02
3	U 409.014†	10214.4	10184.8	497.30 µg/L	497.30 ppb	10:23:42
3	V 292.402†	44316.5	45866.9	499.52 µg/L	499.52 ppb	10:23:42
3	Zn 213.857†	25113.0	25649.0	494.30 µg/L	494.30 ppb	10:23:42
3	Si 251.611†	89076.1	91313.1	2500 µg/L	2500 ppb	10:24:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1479387.3	96.784	%	0.1068				0.11%
Sc RADIAL	69264.9	96.1	%	0.55				0.57%
Y 371.029	812758.0	95.878	%	0.1191				0.12%
Ag 328.068†	90566.4	507.30	µg/L	2.153	507.30	ppb	2.153	0.42%
QC value within limits for Ag 328.068 Recovery = 101.46%								
Al 396.153Radial†	27081.9	4967.6	µg/L	13.36	4967.6	ppb	13.36	0.27%
QC value within limits for Al 396.153Radial Recovery = 99.35%								
As 188.979†	1188.1	494.62	µg/L	3.949	494.62	ppb	3.949	0.80%
QC value within limits for As 188.979 Recovery = 98.92%								
B 249.677†	10616.3	497.24	µg/L	1.478	497.24	ppb	1.478	0.30%
QC value within limits for B 249.677 Recovery = 99.45%								
Ba 233.527†	61380.1	494.20	µg/L	2.090	494.20	ppb	2.090	0.42%
QC value within limits for Ba 233.527 Recovery = 98.84%								
Be 313.107†	950187.4	495.37	µg/L	0.888	495.37	ppb	0.888	0.18%
QC value within limits for Be 313.107 Recovery = 99.07%								
Ca 317.933Radial†	34880.2	5139.7	µg/L	38.33	5139.7	ppb	38.33	0.75%
QC value within limits for Ca 317.933Radial Recovery = 102.79%								
Cd 226.502†	18023.5	495.97	µg/L	1.483	495.97	ppb	1.483	0.30%
QC value within limits for Cd 226.502 Recovery = 99.19%								

Co 228.616†	21094.0	496.47 µg/L	1.975	496.47 ppb	1.975	0.40%
QC value within limits for Co 228.616 Recovery = 99.29%						
Cr 267.716†	23558.2	494.22 µg/L	1.627	494.22 ppb	1.627	0.33%
QC value within limits for Cr 267.716 Recovery = 98.84%						
Cu 324.752†	162141.0	495.11 µg/L	1.858	495.11 ppb	1.858	0.38%
QC value within limits for Cu 324.752 Recovery = 99.02%						
Fe 238.204 Radial†	3670.6	5159.3 µg/L	36.17	5159.3 ppb	36.17	0.70%
QC value within limits for Fe 238.204 Radial Recovery = 103.19%						
K 766.490 Radial†	20869.7	5699.5 µg/L	83.73	5699.5 ppb	83.73	1.47%
QC value greater than the upper limit for K 766.490 Radial Recovery = 113.99%						
Mg 279.077 IEC†	2471.4	5132.1 µg/L	40.21	5132.1 ppb	40.21	0.78%
QC value within limits for Mg 279.077 IEC Recovery = 102.64%						
Mn 257.610†	369166.7	496.56 µg/L	0.810	496.56 ppb	0.810	0.16%
QC value within limits for Mn 257.610 Recovery = 99.31%						
Mo 202.031†	4749.6	515.11 µg/L	1.203	515.11 ppb	1.203	0.23%
QC value within limits for Mo 202.031 Recovery = 103.02%						
Na 589.592 Radial†	100199.0	10278 µg/L	50.6	10278 ppb	50.6	0.49%
QC value within limits for Na 589.592 Radial Recovery = 102.78%						
Ni 231.604†	10361.9	498.41 µg/L	1.949	498.41 ppb	1.949	0.39%
QC value within limits for Ni 231.604 Recovery = 99.68%						
P 214.914†	3862.9	2509.1 µg/L	5.93	2509.1 ppb	5.93	0.24%
QC value within limits for P 214.914 Recovery = 100.36%						
Pb 220.353†	2576.0	498.61 µg/L	1.026	498.61 ppb	1.026	0.21%
QC value within limits for Pb 220.353 Recovery = 99.72%						
S 181.975 Axial†	675.7	1190.4 µg/L	15.46	1190.4 ppb	15.46	1.30%
QC value greater than the upper limit for S 181.975 Axial Recovery = 119.04%						
Sb 206.836†	1347.0	512.55 µg/L	1.078	512.55 ppb	1.078	0.21%
QC value within limits for Sb 206.836 Recovery = 102.51%						
Se 196.026†	695.4	493 µg/L	1.8	493 ppb	1.8	0.37%
QC value within limits for Se 196.026 Recovery = 98.63%						
SiO2 †	93018.3	5425.5 µg/L	26.49	5425.5 ppb	26.49	0.49%
QC value within limits for SiO2 Recovery = 101.46%						
Si 251.611†	91295.6	2500 µg/L	2.3	2500 ppb	2.3	0.09%
QC value within limits for Si 251.611 Recovery = 99.98%						
Sn 189.927†	2303.2	501.11 µg/L	1.625	501.11 ppb	1.625	0.32%
QC value within limits for Sn 189.927 Recovery = 100.22%						
Sr 421.552†	199330.8	501.91 µg/L	1.576	501.91 ppb	1.576	0.31%
QC value within limits for Sr 421.552 Recovery = 100.38%						
Ti 334.940†	508689.7	503.46 µg/L	1.333	503.46 ppb	1.333	0.26%
QC value within limits for Ti 334.940 Recovery = 100.69%						
Tl 190.801†	1524.6	489.83 µg/L	2.457	489.83 ppb	2.457	0.50%
QC value within limits for Tl 190.801 Recovery = 97.97%						
U 409.014†	10272.6	501.57 µg/L	4.114	501.57 ppb	4.114	0.82%
QC value within limits for U 409.014 Recovery = 100.31%						
V 292.402†	45925.8	500.17 µg/L	1.924	500.17 ppb	1.924	0.38%
QC value within limits for V 292.402 Recovery = 100.03%						
Zn 213.857†	25731.6	495.89 µg/L	1.848	495.89 ppb	1.848	0.37%
QC value within limits for Zn 213.857 Recovery = 99.18%						

QC Failed. Continue with analysis.

Sequence No.: 3
Sample ID: CCB
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 10:26:26
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70531.2	70531.2	97.8	%			10:28:10
1	Al 396.153Radial†	82.8	48.5	8.8698	µg/L	8.8698	ppb	10:28:10
1	Ca 317.933Radial†	365.3	117.8	17.365	µg/L	17.365	ppb	10:28:30
1	Fe 238.204 Radial†	43.2	3.5	4.8934	µg/L	4.8934	ppb	10:28:30
1	K 766.490 Radial†	1983.2	949.9	259.41	µg/L	259.41	ppb	10:28:10
1	Mg 279.077 IEC†	9.2	8.2	17.020	µg/L	17.020	ppb	10:28:30
1	Na 589.592 Radial†	1590.5	441.3	45.264	µg/L	45.264	ppb	10:28:10
1	Sr 421.552†	54.1	50.7	0.1273	µg/L	0.1273	ppb	10:28:10
1	Sc 361.383	1514557.1	1514557.1	99.085	%			10:29:28
1	Y 371.029	839288.8	839288.8	99.008	%			10:29:28
1	Ag 328.068†	-817.4	93.6	0.5239	µg/L	0.5239	ppb	10:29:34
1	As 188.979†	6.5	4.1	1.7066	µg/L	1.7066	ppb	10:29:54
1	B 249.677†	263.8	180.5	8.4371	µg/L	8.4371	ppb	10:29:54
1	Ba 233.527†	-106.9	9.7	0.0787	µg/L	0.0787	ppb	10:29:54
1	Be 313.107†	382.6	23.1	0.0121	µg/L	0.0121	ppb	10:29:34
1	Cd 226.502†	-36.8	-4.4	-0.1220	µg/L	-0.1220	ppb	10:29:54
1	Co 228.616†	-55.0	7.2	0.1718	µg/L	0.1718	ppb	10:29:54
1	Cr 267.716†	60.0	5.4	0.1146	µg/L	0.1146	ppb	10:29:54
1	Cu 324.752†	3941.4	112.7	0.3433	µg/L	0.3433	ppb	10:29:34
1	Mn 257.610†	441.6	74.4	0.1004	µg/L	0.1004	ppb	10:29:54
1	Mo 202.031†	1.5	14.9	1.6116	µg/L	1.6116	ppb	10:29:54
1	Ni 231.604†	160.4	4.4	0.2167	µg/L	0.2167	ppb	10:29:54
1	P 214.914†	160.4	-5.0	-3.2378	µg/L	-3.2378	ppb	10:29:54
1	Pb 220.353†	9.6	2.8	0.5355	µg/L	0.5355	ppb	10:29:54
1	S 181.975 Axial†	109.4	80.8	141.93	µg/L	141.93	ppb	10:29:54
1	Sb 206.836†	26.7	10.9	4.1121	µg/L	4.1121	ppb	10:29:54
1	Se 196.026†	-18.9	5.6	3.93	µg/L	3.93	ppb	10:29:54
1	SiO2 †	802.6	94.1	5.4910	µg/L	5.4910	ppb	10:29:54
1	Sn 189.927†	-24.0	-1.4	-0.2969	µg/L	-0.2969	ppb	10:29:54
1	Ti 334.940†	570.6	33.0	0.0329	µg/L	0.0329	ppb	10:29:34
1	Tl 190.801†	-19.7	9.8	3.1417	µg/L	3.1417	ppb	10:29:54
1	U 409.014†	373.8	10.0	0.4866	µg/L	0.4866	ppb	10:29:34
1	V 292.402†	-65.2	19.4	0.2252	µg/L	0.2252	ppb	10:29:34
1	Zn 213.857†	313.0	21.8	0.4186	µg/L	0.4186	ppb	10:29:54
1	Si 251.611†	777.9	77.2	2.11	µg/L	2.11	ppb	10:31:16
2	Sc RADIAL	70141.5	70141.5	97.3	%			10:28:35
2	Al 396.153Radial†	45.5	10.7	1.9221	µg/L	1.9221	ppb	10:28:35
2	Ca 317.933Radial†	349.5	103.7	15.275	µg/L	15.275	ppb	10:28:55
2	Fe 238.204 Radial†	45.3	5.9	8.2638	µg/L	8.2638	ppb	10:28:55
2	K 766.490 Radial†	1928.0	904.4	246.99	µg/L	246.99	ppb	10:28:35
2	Mg 279.077 IEC†	8.4	7.4	15.453	µg/L	15.453	ppb	10:28:55
2	Na 589.592 Radial†	1543.1	401.6	41.192	µg/L	41.192	ppb	10:28:35
2	Sr 421.552†	32.0	28.2	0.0707	µg/L	0.0707	ppb	10:28:35
2	Sc 361.383	1520570.3	1520570.3	99.478	%			10:29:59
2	Y 371.029	842818.9	842818.9	99.424	%			10:29:59
2	Ag 328.068†	-832.2	82.0	0.4600	µg/L	0.4600	ppb	10:30:04
2	As 188.979†	-1.6	-4.1	-1.6750	µg/L	-1.6750	ppb	10:30:25
2	B 249.677†	272.5	188.2	8.7963	µg/L	8.7963	ppb	10:30:25
2	Ba 233.527†	-94.5	22.6	0.1823	µg/L	0.1823	ppb	10:30:25
2	Be 313.107†	340.2	-21.1	-0.0110	µg/L	-0.0110	ppb	10:30:04
2	Cd 226.502†	-43.0	-10.5	-0.2911	µg/L	-0.2911	ppb	10:30:25
2	Co 228.616†	-55.6	6.9	0.1627	µg/L	0.1627	ppb	10:30:25
2	Cr 267.716†	46.4	-8.5	-0.1777	µg/L	-0.1777	ppb	10:30:25
2	Cu 324.752†	3891.4	46.6	0.1423	µg/L	0.1423	ppb	10:30:04
2	Mn 257.610†	443.6	74.7	0.1012	µg/L	0.1012	ppb	10:30:25
2	Mo 202.031†	-2.7	10.7	1.1581	µg/L	1.1581	ppb	10:30:25
2	Ni 231.604†	154.6	-2.0	-0.0950	µg/L	-0.0950	ppb	10:30:25
2	P 214.914†	163.6	-2.4	-1.5637	µg/L	-1.5637	ppb	10:30:25

2	Pb 220.353†	19.8	13.0	2.5160 µg/L	2.5160	ppb	10:30:25
2	S 181.975 Axial†	98.1	68.9	121.15 µg/L	121.15	ppb	10:30:25
2	Sb 206.836†	23.8	7.9	2.9679 µg/L	2.9679	ppb	10:30:25
2	Se 196.026†	-25.3	-0.9	-0.604 µg/L	-0.604	ppb	10:30:25
2	SiO2 †	804.8	93.2	5.4338 µg/L	5.4338	ppb	10:30:25
2	Sn 189.927†	-20.0	2.8	0.6058 µg/L	0.6058	ppb	10:30:25
2	Ti 334.940†	556.1	16.1	0.0162 µg/L	0.0162	ppb	10:30:04
2	Tl 190.801†	-21.4	8.2	2.6224 µg/L	2.6224	ppb	10:30:25
2	U 409.014†	363.7	-1.7	-0.0789 µg/L	-0.0789	ppb	10:30:04
2	V 292.402†	-57.3	27.7	0.3083 µg/L	0.3083	ppb	10:30:04
2	Zn 213.857†	309.2	16.6	0.3198 µg/L	0.3198	ppb	10:30:25
2	Si 251.611†	754.9	50.9	1.39 µg/L	1.39	ppb	10:31:37
3	Sc RADIAL	70611.6	70611.6	97.9 %			10:29:00
3	Al 396.153Radial†	19.4	-16.2	-3.0324 µg/L	-3.0324	ppb	10:29:00
3	Ca 317.933Radial†	373.4	125.7	18.518 µg/L	18.518	ppb	10:29:20
3	Fe 238.204 Radial†	43.4	3.7	5.1611 µg/L	5.1611	ppb	10:29:20
3	K 766.490 Radial†	1932.6	895.9	244.67 µg/L	244.67	ppb	10:29:00
3	Mg 279.077 IEC†	9.2	8.2	17.082 µg/L	17.082	ppb	10:29:20
3	Na 589.592 Radial†	1578.2	426.9	43.786 µg/L	43.786	ppb	10:29:00
3	Sr 421.552†	39.8	36.0	0.0903 µg/L	0.0903	ppb	10:29:00
3	Sc 361.383	1513660.1	1513660.1	99.026 %			10:30:30
3	Y 371.029	839101.1	839101.1	98.986 %			10:30:30
3	Ag 328.068†	-836.5	73.8	0.4126 µg/L	0.4126	ppb	10:30:35
3	As 188.979†	-2.3	-4.7	-1.9448 µg/L	-1.9448	ppb	10:30:56
3	B 249.677†	260.4	177.2	8.2823 µg/L	8.2823	ppb	10:30:56
3	Ba 233.527†	-108.0	8.6	0.0693 µg/L	0.0693	ppb	10:30:56
3	Be 313.107†	443.4	84.8	0.0442 µg/L	0.0442	ppb	10:30:35
3	Cd 226.502†	-35.0	-2.6	-0.0717 µg/L	-0.0717	ppb	10:30:56
3	Co 228.616†	-61.5	0.6	0.0163 µg/L	0.0163	ppb	10:30:56
3	Cr 267.716†	65.1	10.7	0.2237 µg/L	0.2237	ppb	10:30:56
3	Cu 324.752†	3879.0	52.0	0.1581 µg/L	0.1581	ppb	10:30:35
3	Mn 257.610†	436.8	69.8	0.0943 µg/L	0.0943	ppb	10:30:56
3	Mo 202.031†	-5.6	7.7	0.8381 µg/L	0.8381	ppb	10:30:56
3	Ni 231.604†	160.7	4.8	0.2346 µg/L	0.2346	ppb	10:30:56
3	P 214.914†	161.2	-4.1	-2.6483 µg/L	-2.6483	ppb	10:30:56
3	Pb 220.353†	6.0	-0.9	-0.1660 µg/L	-0.1660	ppb	10:30:56
3	S 181.975 Axial†	95.3	66.6	116.98 µg/L	116.98	ppb	10:30:56
3	Sb 206.836†	17.2	1.3	0.5073 µg/L	0.5073	ppb	10:30:56
3	Se 196.026†	-28.0	-3.7	-2.61 µg/L	-2.61	ppb	10:30:56
3	SiO2 †	805.2	97.2	5.6704 µg/L	5.6704	ppb	10:30:56
3	Sn 189.927†	-19.2	3.5	0.7658 µg/L	0.7658	ppb	10:30:56
3	Ti 334.940†	581.0	43.8	0.0437 µg/L	0.0437	ppb	10:30:35
3	Tl 190.801†	-20.3	9.1	2.9263 µg/L	2.9263	ppb	10:30:56
3	U 409.014†	374.0	10.3	0.5020 µg/L	0.5020	ppb	10:30:35
3	V 292.402†	-85.8	-1.4	-0.0057 µg/L	-0.0057	ppb	10:30:35
3	Zn 213.857†	314.3	23.2	0.4469 µg/L	0.4469	ppb	10:30:56
3	Si 251.611†	777.9	77.6	2.12 µg/L	2.12	ppb	10:31:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1516262.5	99.196	%	0.2458				0.25%
Sc RADIAL	70428.1	97.7	%	0.35				0.36%
Y 371.029	840402.9	99.139	%	0.2471				0.25%
Ag 328.068†	83.1	0.4655	µg/L	0.05585	0.4655	ppb	0.05585	12.00%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	14.3	2.5865	µg/L	5.97887	2.5865	ppb	5.97887	231.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-1.6	-0.6377	µg/L	2.03475	-0.6377	ppb	2.03475	319.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	182.0	8.5052	µg/L	0.26364	8.5052	ppb	0.26364	3.10%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	13.6	0.1101	µg/L	0.06273	0.1101	ppb	0.06273	56.98%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	28.9	0.0151	µg/L	0.02774	0.0151	ppb	0.02774	183.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	115.7	17.053	µg/L	1.6439	17.053	ppb	1.6439	9.64%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-5.8	-0.1616	µg/L	0.11497	-0.1616	ppb	0.11497	71.15%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                 4.9      0.1169 µg/L       0.08729      0.1169 ppb        0.08729  74.66%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                 2.5      0.0535 µg/L       0.20755      0.0535 ppb        0.20755 387.86%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†                70.4      0.2145 µg/L       0.11180      0.2145 ppb        0.11180  52.11%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          4.3      6.1061 µg/L       1.87343      6.1061 ppb        1.87343  30.68%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†         916.7      250.36 µg/L         7.925      250.36 ppb          7.925   3.17%
   QC value greater than the upper limit for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             8.0      16.518 µg/L        0.9232      16.518 ppb         0.9232   5.59%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                73.0      0.0987 µg/L       0.00377      0.0987 ppb        0.00377   3.83%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                11.1      1.2026 µg/L       0.38869      1.2026 ppb        0.38869  32.32%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†        423.2      43.414 µg/L        2.0612      43.414 ppb         2.0612   4.75%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                 2.4      0.1188 µg/L       0.18531      0.1188 ppb        0.18531 156.03%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -3.8     -2.4833 µg/L       0.84915     -2.4833 ppb        0.84915  34.19%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 5.0      0.9619 µg/L       1.39092      0.9619 ppb        1.39092 144.61%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           72.1      126.69 µg/L        13.367      126.69 ppb         13.367  10.55%
   QC value greater than the upper limit for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                 6.7      2.5291 µg/L       1.84202      2.5291 ppb        1.84202  72.83%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 0.3       0.239 µg/L        3.3510       0.239 ppb         3.3510 >999.9%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2 †                     94.8      5.5317 µg/L       0.12345      5.5317 ppb        0.12345   2.23%
   QC value within limits for SiO2  Recovery = Not calculated
Si 251.611†                68.6        1.88 µg/L         0.418        1.88 ppb          0.418  22.28%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                 1.6      0.3582 µg/L       0.57297      0.3582 ppb        0.57297 159.94%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                38.3      0.0961 µg/L       0.02874      0.0961 ppb        0.02874  29.91%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                31.0      0.0309 µg/L       0.01389      0.0309 ppb        0.01389  44.89%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 9.0      2.8968 µg/L       0.26095      2.8968 ppb        0.26095   9.01%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                  6.2      0.3032 µg/L       0.33104      0.3032 ppb        0.33104 109.17%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                 15.3      0.1759 µg/L       0.16271      0.1759 ppb        0.16271  92.48%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                20.5      0.3951 µg/L       0.06672      0.3951 ppb        0.06672  16.89%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Analysis Begun

Start Time: 3/14/2006 11:20:03
Logged In Analyst: Administrator
Spectrometer Model: Optima 4300 DV, S/N 077N2061001

Plasma On Time: 3/13/2006 03:58:47
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

Sequence No.: 1
Sample ID: CCV
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 11:20:03
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70183.1	70183.1	97.3	%			11:21:45
1	Al 396.153Radial†	26392.8	27076.1	4966.6	µg/L	4966.6	ppb	11:21:45
1	Ca 317.933Radial†	34086.4	34759.8	5121.9	µg/L	5121.9	ppb	11:22:05
1	Fe 238.204 Radial†	3606.8	3664.4	5150.6	µg/L	5150.6	ppb	11:22:05
1	K 766.490 Radial†	19106.7	18550.2	5066.0	µg/L	5066.0	ppb	11:21:45
1	Mg 279.077 IEC†	2403.8	2468.1	5125.2	µg/L	5125.2	ppb	11:22:05
1	Na 589.592 Radial†	96159.6	97596.0	10011	µg/L	10011	ppb	11:21:45
1	Sr 421.552†	193329.2	198594.0	500.06	µg/L	500.06	ppb	11:21:45
1	Sc 361.383	1491855.5	1491855.5	97.599	%			11:23:07
1	Y 371.029	820032.2	820032.2	96.736	%			11:23:07
1	Ag 328.068†	87368.5	90436.0	506.57	µg/L	506.57	ppb	11:23:12
1	As 188.979†	1160.2	1186.3	493.88	µg/L	493.88	ppb	11:23:32
1	B 249.677†	10447.1	10618.3	497.33	µg/L	497.33	ppb	11:23:12
1	Ba 233.527†	59878.0	61468.4	494.91	µg/L	494.91	ppb	11:23:12
1	Be 313.107†	928100.5	950565.4	495.57	µg/L	495.57	ppb	11:23:07
1	Cd 226.502†	17501.7	17964.9	494.36	µg/L	494.36	ppb	11:23:12
1	Co 228.616†	20513.1	21080.3	496.15	µg/L	496.15	ppb	11:23:12
1	Cr 267.716†	23026.6	23537.8	493.80	µg/L	493.80	ppb	11:23:12
1	Cu 324.752†	162744.4	162882.2	497.38	µg/L	497.38	ppb	11:23:07
1	Mn 257.610†	361007.7	369516.0	497.03	µg/L	497.03	ppb	11:23:07
1	Mo 202.031†	4616.4	4743.3	514.43	µg/L	514.43	ppb	11:23:32
1	Ni 231.604†	10287.6	10383.2	499.43	µg/L	499.43	ppb	11:23:12
1	P 214.914†	3917.2	3846.7	2498.7	µg/L	2498.7	ppb	11:23:32
1	Pb 220.353†	2515.2	2570.1	497.48	µg/L	497.48	ppb	11:23:32
1	S 181.975 Axial†	604.5	589.7	1039.3	µg/L	1039.3	ppb	11:23:32
1	Sb 206.836†	1319.1	1335.4	508.21	µg/L	508.21	ppb	11:23:32
1	Se 196.026†	652.4	693.0	491	µg/L	491	ppb	11:23:32
1	SiO2 †	91564.1	93100.4	5430.3	µg/L	5430.3	ppb	11:23:12
1	Sn 189.927†	2231.2	2308.9	502.35	µg/L	502.35	ppb	11:23:32
1	Ti 334.940†	498401.4	510117.4	504.88	µg/L	504.88	ppb	11:23:07
1	Tl 190.801†	1447.7	1512.9	486.08	µg/L	486.08	ppb	11:23:32
1	U 409.014†	10455.5	10345.4	505.10	µg/L	505.10	ppb	11:23:12
1	V 292.402†	44667.2	45851.2	499.37	µg/L	499.37	ppb	11:23:12
1	Zn 213.857†	25355.0	25684.5	494.98	µg/L	494.98	ppb	11:23:12
1	Si 251.611†	90233.2	91744.7	2510	µg/L	2510	ppb	11:24:43
2	Sc RADIAL	69384.4	69384.4	96.2	%			11:22:11
2	Al 396.153Radial†	26171.5	27158.2	4981.4	µg/L	4981.4	ppb	11:22:11
2	Ca 317.933Radial†	33908.8	34978.4	5154.1	µg/L	5154.1	ppb	11:22:31
2	Fe 238.204 Radial†	3593.9	3693.7	5191.7	µg/L	5191.7	ppb	11:22:31
2	K 766.490 Radial†	19060.3	18727.9	5114.6	µg/L	5114.6	ppb	11:22:11
2	Mg 279.077 IEC†	2388.5	2480.6	5151.4	µg/L	5151.4	ppb	11:22:31
2	Na 589.592 Radial†	95193.6	97729.3	10025	µg/L	10025	ppb	11:22:11
2	Sr 421.552†	191469.7	198947.8	500.95	µg/L	500.95	ppb	11:22:11
2	Sc 361.383	1486740.9	1486740.9	97.265	%			11:23:39
2	Y 371.029	816704.5	816704.5	96.343	%			11:23:39
2	Ag 328.068†	87027.6	90393.4	506.35	µg/L	506.35	ppb	11:23:45

2	As 188.979†	1162.5	1192.7	496.56 µg/L	496.56 ppb	11:24:05
2	B 249.677†	10385.3	10591.6	496.09 µg/L	496.09 ppb	11:23:45
2	Ba 233.527†	59729.4	61526.7	495.39 µg/L	495.39 ppb	11:23:45
2	Be 313.107†	926473.4	952163.9	496.40 µg/L	496.40 ppb	11:23:39
2	Cd 226.502†	17552.1	18078.4	497.48 µg/L	497.48 ppb	11:23:45
2	Co 228.616†	20452.3	21090.1	496.39 µg/L	496.39 ppb	11:23:45
2	Cr 267.716†	22995.0	23586.5	494.81 µg/L	494.81 ppb	11:23:45
2	Cu 324.752†	162094.9	162788.0	497.09 µg/L	497.09 ppb	11:23:39
2	Mn 257.610†	360830.2	370606.0	498.50 µg/L	498.50 ppb	11:23:39
2	Mo 202.031†	4651.0	4795.2	520.05 µg/L	520.05 ppb	11:24:05
2	Ni 231.604†	10273.7	10405.2	500.49 µg/L	500.49 ppb	11:23:45
2	P 214.914†	3936.9	3880.8	2520.7 µg/L	2520.7 ppb	11:24:05
2	Pb 220.353†	2530.6	2594.9	502.27 µg/L	502.27 ppb	11:24:05
2	S 181.975 Axial†	608.5	596.0	1050.3 µg/L	1050.3 ppb	11:24:05
2	Sb 206.836†	1327.7	1349.0	513.36 µg/L	513.36 ppb	11:24:05
2	Se 196.026†	655.8	698.8	496 µg/L	496 ppb	11:24:05
2	SiO2 †	91357.0	93210.2	5436.7 µg/L	5436.7 ppb	11:23:45
2	Sn 189.927†	2239.2	2325.1	505.86 µg/L	505.86 ppb	11:24:05
2	Ti 334.940†	497186.2	510624.8	505.38 µg/L	505.38 ppb	11:23:39
2	Tl 190.801†	1468.0	1538.9	494.41 µg/L	494.41 ppb	11:24:05
2	U 409.014†	10388.7	10313.5	503.56 µg/L	503.56 ppb	11:23:45
2	V 292.402†	44640.1	45980.7	500.81 µg/L	500.81 ppb	11:23:45
2	Zn 213.857†	25293.5	25710.6	495.48 µg/L	495.48 ppb	11:23:45
2	Si 251.611†	89551.5	91361.8	2500 µg/L	2500 ppb	11:24:49
3	Sc RADIAL	70211.9	70211.9	97.4 %		11:22:37
3	Al 396.153Radial†	26449.4	27123.1	4975.0 µg/L	4975.0 ppb	11:22:37
3	Ca 317.933Radial†	33923.6	34578.3	5095.2 µg/L	5095.2 ppb	11:22:57
3	Fe 238.204 Radial†	3594.3	3650.1	5130.4 µg/L	5130.4 ppb	11:22:57
3	K 766.490 Radial†	19150.5	18587.1	5076.1 µg/L	5076.1 ppb	11:22:37
3	Mg 279.077 IEC†	2380.8	2443.5	5074.6 µg/L	5074.6 ppb	11:22:57
3	Na 589.592 Radial†	96387.0	97788.9	10031 µg/L	10031 ppb	11:22:37
3	Sr 421.552†	194114.0	199318.3	501.88 µg/L	501.88 ppb	11:22:37
3	Sc 361.383	1485394.8	1485394.8	97.177 %		11:24:12
3	Y 371.029	815971.0	815971.0	96.257 %		11:24:12
3	Ag 328.068†	87273.5	90727.6	508.20 µg/L	508.20 ppb	11:24:17
3	As 188.979†	1170.7	1202.2	500.47 µg/L	500.47 ppb	11:24:37
3	B 249.677†	10386.5	10602.6	496.62 µg/L	496.62 ppb	11:24:17
3	Ba 233.527†	59877.5	61734.7	497.06 µg/L	497.06 ppb	11:24:17
3	Be 313.107†	925880.8	952417.3	496.53 µg/L	496.53 ppb	11:24:12
3	Cd 226.502†	17495.7	18036.7	496.34 µg/L	496.34 ppb	11:24:17
3	Co 228.616†	20480.8	21138.5	497.53 µg/L	497.53 ppb	11:24:17
3	Cr 267.716†	23007.9	23621.3	495.54 µg/L	495.54 ppb	11:24:17
3	Cu 324.752†	161678.2	162510.2	496.24 µg/L	496.24 ppb	11:24:12
3	Mn 257.610†	360457.2	370558.2	498.43 µg/L	498.43 ppb	11:24:12
3	Mo 202.031†	4649.4	4797.9	520.34 µg/L	520.34 ppb	11:24:37
3	Ni 231.604†	10299.3	10441.1	502.22 µg/L	502.22 ppb	11:24:17
3	P 214.914†	3953.3	3901.3	2534.1 µg/L	2534.1 ppb	11:24:37
3	Pb 220.353†	2541.5	2608.5	504.90 µg/L	504.90 ppb	11:24:37
3	S 181.975 Axial†	609.1	597.2	1052.4 µg/L	1052.4 ppb	11:24:37
3	Sb 206.836†	1319.3	1341.6	510.58 µg/L	510.58 ppb	11:24:37
3	Se 196.026†	656.0	699.6	496 µg/L	496 ppb	11:24:37
3	SiO2 †	91511.9	93454.7	5451.0 µg/L	5451.0 ppb	11:24:17
3	Sn 189.927†	2232.4	2320.1	504.78 µg/L	504.78 ppb	11:24:37
3	Ti 334.940†	496548.8	510432.1	505.18 µg/L	505.18 ppb	11:24:12
3	Tl 190.801†	1467.6	1539.9	494.73 µg/L	494.73 ppb	11:24:37
3	U 409.014†	10396.8	10331.6	504.45 µg/L	504.45 ppb	11:24:17
3	V 292.402†	44766.7	46152.6	502.67 µg/L	502.67 ppb	11:24:17
3	Zn 213.857†	25273.2	25713.3	495.54 µg/L	495.54 ppb	11:24:17
3	Si 251.611†	89723.3	91622.1	2510 µg/L	2510 ppb	11:24:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1487997.1	97.347	%	0.2230				0.23%
Sc RADIAL	69926.5	97.0	%	0.65				0.67%
Y 371.029	817569.3	96.445	%	0.2553				0.26%
Ag 328.068†	90519.0	507.04	µg/L	1.012	507.04	ppb	1.012	0.20%
QC value within limits for Ag 328.068 Recovery = 101.41%								
Al 396.153Radial†	27119.1	4974.3	µg/L	7.45	4974.3	ppb	7.45	0.15%
QC value within limits for Al 396.153Radial Recovery = 99.49%								

As 188.979†	1193.7	496.97 µg/L	3.317	496.97 ppb	3.317	0.67%
QC value within limits for As 188.979 Recovery = 99.39%						
B 249.677†	10604.2	496.68 µg/L	0.625	496.68 ppb	0.625	0.13%
QC value within limits for B 249.677 Recovery = 99.34%						
Ba 233.527†	61576.6	495.79 µg/L	1.128	495.79 ppb	1.128	0.23%
QC value within limits for Ba 233.527 Recovery = 99.16%						
Be 313.107†	951715.5	496.17 µg/L	0.524	496.17 ppb	0.524	0.11%
QC value within limits for Be 313.107 Recovery = 99.23%						
Ca 317.933Radial†	34772.2	5123.8 µg/L	29.52	5123.8 ppb	29.52	0.58%
QC value within limits for Ca 317.933Radial Recovery = 102.48%						
Cd 226.502†	18026.7	496.06 µg/L	1.579	496.06 ppb	1.579	0.32%
QC value within limits for Cd 226.502 Recovery = 99.21%						
Co 228.616†	21103.0	496.69 µg/L	0.736	496.69 ppb	0.736	0.15%
QC value within limits for Co 228.616 Recovery = 99.34%						
Cr 267.716†	23581.9	494.72 µg/L	0.877	494.72 ppb	0.877	0.18%
QC value within limits for Cr 267.716 Recovery = 98.94%						
Cu 324.752†	162726.8	496.90 µg/L	0.593	496.90 ppb	0.593	0.12%
QC value within limits for Cu 324.752 Recovery = 99.38%						
Fe 238.204 Radial†	3669.4	5157.6 µg/L	31.25	5157.6 ppb	31.25	0.61%
QC value within limits for Fe 238.204 Radial Recovery = 103.15%						
K 766.490 Radial†	18621.7	5085.6 µg/L	25.60	5085.6 ppb	25.60	0.50%
QC value within limits for K 766.490 Radial Recovery = 101.71%						
Mg 279.077 IEC†	2464.1	5117.1 µg/L	39.03	5117.1 ppb	39.03	0.76%
QC value within limits for Mg 279.077 IEC Recovery = 102.34%						
Mn 257.610†	370226.7	497.99 µg/L	0.828	497.99 ppb	0.828	0.17%
QC value within limits for Mn 257.610 Recovery = 99.60%						
Mo 202.031†	4778.8	518.27 µg/L	3.335	518.27 ppb	3.335	0.64%
QC value within limits for Mo 202.031 Recovery = 103.65%						
Na 589.592 Radial†	97704.8	10022 µg/L	10.1	10022 ppb	10.1	0.10%
QC value within limits for Na 589.592 Radial Recovery = 100.22%						
Ni 231.604†	10409.8	500.71 µg/L	1.407	500.71 ppb	1.407	0.28%
QC value within limits for Ni 231.604 Recovery = 100.14%						
P 214.914†	3876.3	2517.8 µg/L	17.90	2517.8 ppb	17.90	0.71%
QC value within limits for P 214.914 Recovery = 100.71%						
Pb 220.353†	2591.2	501.55 µg/L	3.765	501.55 ppb	3.765	0.75%
QC value within limits for Pb 220.353 Recovery = 100.31%						
S 181.975 Axial†	594.3	1047.3 µg/L	7.07	1047.3 ppb	7.07	0.67%
QC value within limits for S 181.975 Axial Recovery = 104.73%						
Sb 206.836†	1342.0	510.72 µg/L	2.574	510.72 ppb	2.574	0.50%
QC value within limits for Sb 206.836 Recovery = 102.14%						
Se 196.026†	697.2	494 µg/L	2.5	494 ppb	2.5	0.52%
QC value within limits for Se 196.026 Recovery = 98.88%						
SiO2 †	93255.1	5439.3 µg/L	10.58	5439.3 ppb	10.58	0.19%
QC value within limits for SiO2 Recovery = 101.72%						
Si 251.611†	91576.2	2510 µg/L	5.4	2510 ppb	5.4	0.21%
QC value within limits for Si 251.611 Recovery = 100.28%						
Sn 189.927†	2318.1	504.33 µg/L	1.796	504.33 ppb	1.796	0.36%
QC value within limits for Sn 189.927 Recovery = 100.87%						
Sr 421.552†	198953.4	500.96 µg/L	0.913	500.96 ppb	0.913	0.18%
QC value within limits for Sr 421.552 Recovery = 100.19%						
Ti 334.940†	510391.5	505.15 µg/L	0.253	505.15 ppb	0.253	0.05%
QC value within limits for Ti 334.940 Recovery = 101.03%						
Tl 190.801†	1530.6	491.74 µg/L	4.904	491.74 ppb	4.904	1.00%
QC value within limits for Tl 190.801 Recovery = 98.35%						
U 409.014†	10330.2	504.37 µg/L	0.774	504.37 ppb	0.774	0.15%
QC value within limits for U 409.014 Recovery = 100.87%						
V 292.402†	45994.8	500.95 µg/L	1.654	500.95 ppb	1.654	0.33%
QC value within limits for V 292.402 Recovery = 100.19%						
Zn 213.857†	25702.8	495.33 µg/L	0.309	495.33 ppb	0.309	0.06%
QC value within limits for Zn 213.857 Recovery = 99.07%						

All analyte(s) passed QC.

Sequence No.: 2
Sample ID: CCB
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 11:27:02
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70116.1	70116.1	97.3	%			11:28:46
1	Al 396.153Radial†	64.8	30.5	5.5936	µg/L	5.5936	ppb	11:28:46
1	Ca 317.933Radial†	341.9	96.0	14.141	µg/L	14.141	ppb	11:29:06
1	Fe 238.204 Radial†	46.8	7.5	10.533	µg/L	10.533	ppb	11:29:06
1	K 766.490 Radial†	1248.9	206.9	56.503	µg/L	56.503	ppb	11:28:46
1	Mg 279.077 IEC†	9.6	8.7	17.989	µg/L	17.989	ppb	11:29:06
1	Na 589.592 Radial†	989.8	-166.8	-17.109	µg/L	-17.109	ppb	11:28:46
1	Sr 421.552†	41.0	37.5	0.0941	µg/L	0.0941	ppb	11:28:46
1	Sc 361.383	1495993.4	1495993.4	97.870	%			11:30:04
1	Y 371.029	829436.0	829436.0	97.845	%			11:30:04
1	Ag 328.068†	-828.2	72.3	0.4060	µg/L	0.4060	ppb	11:30:10
1	As 188.979†	-1.1	-3.6	-1.4632	µg/L	-1.4632	ppb	11:30:30
1	B 249.677†	242.5	162.0	7.5676	µg/L	7.5676	ppb	11:30:30
1	Ba 233.527†	-117.6	-2.5	-0.0202	µg/L	-0.0202	ppb	11:30:30
1	Be 313.107†	384.3	29.7	0.0154	µg/L	0.0154	ppb	11:30:10
1	Cd 226.502†	-31.0	1.1	0.0281	µg/L	0.0281	ppb	11:30:30
1	Co 228.616†	-65.6	-4.3	-0.1009	µg/L	-0.1009	ppb	11:30:30
1	Cr 267.716†	34.1	-20.3	-0.4256	µg/L	-0.4256	ppb	11:30:30
1	Cu 324.752†	3867.1	86.1	0.2587	µg/L	0.2587	ppb	11:30:10
1	Mn 257.610†	450.3	88.8	0.1204	µg/L	0.1204	ppb	11:30:30
1	Mo 202.031†	-6.2	7.0	0.7568	µg/L	0.7568	ppb	11:30:30
1	Ni 231.604†	160.3	6.3	0.3047	µg/L	0.3047	ppb	11:30:30
1	P 214.914†	168.9	5.8	3.7590	µg/L	3.7590	ppb	11:30:30
1	Pb 220.353†	2.2	-4.6	-0.8914	µg/L	-0.8914	ppb	11:30:30
1	S 181.975 Axial†	49.2	20.6	36.237	µg/L	36.237	ppb	11:30:30
1	Sb 206.836†	23.9	8.3	3.1379	µg/L	3.1379	ppb	11:30:30
1	Se 196.026†	-16.6	7.7	5.44	µg/L	5.44	ppb	11:30:30
1	SiO2 †	813.6	115.5	6.7345	µg/L	6.7345	ppb	11:30:30
1	Sn 189.927†	-27.8	-5.5	-1.1996	µg/L	-1.1996	ppb	11:30:30
1	Ti 334.940†	686.9	159.0	0.1578	µg/L	0.1578	ppb	11:30:10
1	Tl 190.801†	-15.4	13.9	4.4714	µg/L	4.4714	ppb	11:30:30
1	U 409.014†	450.5	93.0	4.5177	µg/L	4.5177	ppb	11:30:10
1	V 292.402†	-76.5	7.1	0.0875	µg/L	0.0875	ppb	11:30:10
1	Zn 213.857†	312.1	24.7	0.4750	µg/L	0.4750	ppb	11:30:30
1	Si 251.611†	797.8	107.2	2.94	µg/L	2.94	ppb	11:31:53
2	Sc RADIAL	70371.6	70371.6	97.6	%			11:29:11
2	Al 396.153Radial†	44.6	9.7	1.7512	µg/L	1.7512	ppb	11:29:11
2	Ca 317.933Radial†	281.2	32.5	4.7860	µg/L	4.7860	ppb	11:29:31
2	Fe 238.204 Radial†	42.9	3.3	4.6512	µg/L	4.6512	ppb	11:29:31
2	K 766.490 Radial†	1314.8	269.7	73.650	µg/L	73.650	ppb	11:29:11
2	Mg 279.077 IEC†	5.9	4.9	10.112	µg/L	10.112	ppb	11:29:31
2	Na 589.592 Radial†	945.9	-215.5	-22.103	µg/L	-22.103	ppb	11:29:11
2	Sr 421.552†	16.1	11.8	0.0297	µg/L	0.0297	ppb	11:29:11
2	Sc 361.383	1495992.3	1495992.3	97.870	%			11:30:35
2	Y 371.029	829299.7	829299.7	97.829	%			11:30:35
2	Ag 328.068†	-898.0	1.0	0.0071	µg/L	0.0071	ppb	11:30:41
2	As 188.979†	-4.1	-6.6	-2.7288	µg/L	-2.7288	ppb	11:31:01
2	B 249.677†	262.3	182.3	8.5194	µg/L	8.5194	ppb	11:31:01
2	Ba 233.527†	-99.9	15.5	0.1253	µg/L	0.1253	ppb	11:31:01
2	Be 313.107†	392.6	38.1	0.0199	µg/L	0.0199	ppb	11:30:41
2	Cd 226.502†	-28.5	3.6	0.0985	µg/L	0.0985	ppb	11:31:01
2	Co 228.616†	-56.1	5.4	0.1275	µg/L	0.1275	ppb	11:31:01
2	Cr 267.716†	46.4	-7.6	-0.1615	µg/L	-0.1615	ppb	11:31:01
2	Cu 324.752†	3941.1	161.7	0.4931	µg/L	0.4931	ppb	11:30:41
2	Mn 257.610†	447.7	86.2	0.1163	µg/L	0.1163	ppb	11:31:01
2	Mo 202.031†	-7.7	5.5	0.5951	µg/L	0.5951	ppb	11:31:01
2	Ni 231.604†	160.5	6.5	0.3157	µg/L	0.3157	ppb	11:31:01
2	P 214.914†	177.2	14.2	9.2283	µg/L	9.2283	ppb	11:31:01

2	Pb 220.353†	-0.4	-7.3	-1.4050 µg/L	-1.4050 ppb	11:31:01
2	S 181.975 Axial†	42.1	13.4	23.564 µg/L	23.564 ppb	11:31:01
2	Sb 206.836†	16.4	0.7	0.2532 µg/L	0.2532 ppb	11:31:01
2	Se 196.026†	-23.2	0.9	0.663 µg/L	0.663 ppb	11:31:01
2	SiO2 †	844.3	146.8	8.5635 µg/L	8.5635 ppb	11:31:01
2	Sn 189.927†	-27.1	-4.8	-1.0447 µg/L	-1.0447 ppb	11:31:01
2	Ti 334.940†	553.8	23.0	0.0228 µg/L	0.0228 ppb	11:30:41
2	Tl 190.801†	-16.0	13.3	4.2587 µg/L	4.2587 ppb	11:31:01
2	U 409.014†	379.6	20.6	1.0019 µg/L	1.0019 ppb	11:30:41
2	V 292.402†	-65.5	18.3	0.2033 µg/L	0.2033 ppb	11:30:41
2	Zn 213.857†	303.4	15.8	0.3037 µg/L	0.3037 ppb	11:31:01
2	Si 251.611†	793.8	103.1	2.82 µg/L	2.82 ppb	11:32:13
3	Sc RADIAL	70990.7	70990.7	98.5 %		11:29:36
3	Al 396.153Radial†	61.9	26.8	4.8975 µg/L	4.8975 ppb	11:29:36
3	Ca 317.933Radial†	291.8	40.7	6.0021 µg/L	6.0021 ppb	11:29:57
3	Fe 238.204 Radial†	43.7	3.7	5.1995 µg/L	5.1995 ppb	11:29:57
3	K 766.490 Radial†	1295.9	238.7	65.195 µg/L	65.195 ppb	11:29:36
3	Mg 279.077 IEC†	4.0	2.8	5.9083 µg/L	5.9083 ppb	11:29:57
3	Na 589.592 Radial†	908.4	-261.9	-26.867 µg/L	-26.867 ppb	11:29:36
3	Sr 421.552†	14.6	10.2	0.0256 µg/L	0.0256 ppb	11:29:36
3	Sc 361.383	1522804.3	1522804.3	99.624 %		11:31:06
3	Y 371.029	844419.6	844419.6	99.613 %		11:31:06
3	Ag 328.068†	-848.9	66.5	0.3718 µg/L	0.3718 ppb	11:31:12
3	As 188.979†	-2.5	-4.9	-2.0063 µg/L	-2.0063 ppb	11:31:32
3	B 249.677†	233.4	148.6	6.9439 µg/L	6.9439 ppb	11:31:32
3	Ba 233.527†	-115.1	2.1	0.0171 µg/L	0.0171 ppb	11:31:32
3	Be 313.107†	367.4	5.8	0.0030 µg/L	0.0030 ppb	11:31:12
3	Cd 226.502†	-32.3	0.3	0.0078 µg/L	0.0078 ppb	11:31:32
3	Co 228.616†	-61.9	0.6	0.0147 µg/L	0.0147 ppb	11:31:32
3	Cr 267.716†	69.5	14.6	0.3060 µg/L	0.3060 ppb	11:31:32
3	Cu 324.752†	3851.0	0.4	0.0026 µg/L	0.0026 ppb	11:31:12
3	Mn 257.610†	449.2	79.6	0.1075 µg/L	0.1075 ppb	11:31:32
3	Mo 202.031†	-6.3	7.0	0.7605 µg/L	0.7605 ppb	11:31:32
3	Ni 231.604†	153.6	-3.3	-0.1555 µg/L	-0.1555 ppb	11:31:32
3	P 214.914†	173.3	7.1	4.6279 µg/L	4.6279 ppb	11:31:32
3	Pb 220.353†	1.4	-5.5	-1.0658 µg/L	-1.0658 ppb	11:31:32
3	S 181.975 Axial†	43.9	14.4	25.330 µg/L	25.330 ppb	11:31:32
3	Sb 206.836†	24.2	8.2	3.1133 µg/L	3.1133 ppb	11:31:32
3	Se 196.026†	-29.3	-4.8	-3.40 µg/L	-3.40 ppb	11:31:32
3	SiO2 †	827.3	114.6	6.6831 µg/L	6.6831 ppb	11:31:32
3	Sn 189.927†	-30.1	-7.3	-1.5916 µg/L	-1.5916 ppb	11:31:32
3	Ti 334.940†	775.7	235.7	0.2335 µg/L	0.2335 ppb	11:31:12
3	Tl 190.801†	-28.7	0.8	0.2602 µg/L	0.2602 ppb	11:31:32
3	U 409.014†	331.2	-34.9	-1.6934 µg/L	-1.6934 ppb	11:31:12
3	V 292.402†	-84.3	0.6	0.0131 µg/L	0.0131 ppb	11:31:12
3	Zn 213.857†	312.5	19.5	0.3751 µg/L	0.3751 ppb	11:31:32
3	Si 251.611†	795.6	90.7	2.48 µg/L	2.48 ppb	11:32:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1504930.0	98.455	%	1.0127				1.03%
Sc RADIAL	70492.8	97.8	%	0.62				0.64%
Y 371.029	834385.1	98.429	%	1.0252				1.04%
Ag 328.068†	46.6	0.2616	µg/L	0.22110	0.2616	ppb	0.22110	84.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	22.3	4.0808	µg/L	2.04726	4.0808	ppb	2.04726	50.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-5.0	-2.0661	µg/L	0.63494	-2.0661	ppb	0.63494	30.73%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	164.3	7.6770	µg/L	0.79344	7.6770	ppb	0.79344	10.34%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.0	0.0407	µg/L	0.07555	0.0407	ppb	0.07555	185.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	24.5	0.0128	µg/L	0.00872	0.0128	ppb	0.00872	68.31%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	56.4	8.3097	µg/L	5.08661	8.3097	ppb	5.08661	61.21%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.6	0.0448	µg/L	0.04762	0.0448	ppb	0.04762	106.35%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	0.5	0.0138 µg/L	0.11420	0.0138 ppb	0.11420	829.79%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.4	-0.0937 µg/L	0.37048	-0.0937 ppb	0.37048	395.36%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	82.7	0.2515 µg/L	0.24532	0.2515 ppb	0.24532	97.55%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	4.8	6.7946 µg/L	3.24922	6.7946 ppb	3.24922	47.82%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	238.4	65.116 µg/L	8.5742	65.116 ppb	8.5742	13.17%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	5.5	11.336 µg/L	6.1329	11.336 ppb	6.1329	54.10%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	84.9	0.1147 µg/L	0.00658	0.1147 ppb	0.00658	5.74%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.5	0.7041 µg/L	0.09447	0.7041 ppb	0.09447	13.42%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-214.7	-22.026 µg/L	4.8796	-22.026 ppb	4.8796	22.15%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.2	0.1549 µg/L	0.26894	0.1549 ppb	0.26894	173.58%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.0	5.8717 µg/L	2.93913	5.8717 ppb	2.93913	50.06%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.8	-1.1207 µg/L	0.26117	-1.1207 ppb	0.26117	23.30%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	16.1	28.377 µg/L	6.8639	28.377 ppb	6.8639	24.19%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.7	2.1681 µg/L	1.65842	2.1681 ppb	1.65842	76.49%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.3	0.900 µg/L	4.4251	0.900 ppb	4.4251	491.55%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	125.6	7.3270 µg/L	1.07113	7.3270 ppb	1.07113	14.62%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	100.4	2.75 µg/L	0.236	2.75 ppb	0.236	8.60%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-5.9	-1.2787 µg/L	0.28188	-1.2787 ppb	0.28188	22.04%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	19.9	0.0498 µg/L	0.03842	0.0498 ppb	0.03842	77.19%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	139.2	0.1380 µg/L	0.10673	0.1380 ppb	0.10673	77.32%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	9.3	2.9968 µg/L	2.37230	2.9968 ppb	2.37230	79.16%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	26.2	1.2754 µg/L	3.11454	1.2754 ppb	3.11454	244.20%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	8.7	0.1013 µg/L	0.09584	0.1013 ppb	0.09584	94.62%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	20.0	0.3846 µg/L	0.08603	0.3846 ppb	0.08603	22.37%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: CCV
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 12:03:32
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70001.0	70001.0	97.1	%			12:05:17
1	Al 396.153Radial†	26425.7	27180.5	4985.6	µg/L	4985.6	ppb	12:05:17
1	Ca 317.933Radial†	34021.5	34784.2	5125.5	µg/L	5125.5	ppb	12:05:37
1	Fe 238.204 Radial†	3608.8	3676.2	5167.1	µg/L	5167.1	ppb	12:05:37
1	K 766.490 Radial†	19029.0	18521.2	5058.1	µg/L	5058.1	ppb	12:05:17
1	Mg 279.077 IEC†	2402.3	2473.0	5135.5	µg/L	5135.5	ppb	12:05:37
1	Na 589.592 Radial†	96813.4	98526.4	10107	µg/L	10107	ppb	12:05:17
1	Sr 421.552†	194183.1	199990.2	503.57	µg/L	503.57	ppb	12:05:17
1	Sc 361.383	1483345.0	1483345.0	97.043	%			12:06:38
1	Y 371.029	815380.8	815380.8	96.187	%			12:06:38
1	Ag 328.068†	87598.4	91186.5	510.77	µg/L	510.77	ppb	12:06:43
1	As 188.979†	1167.4	1200.6	499.80	µg/L	499.80	ppb	12:07:04
1	B 249.677†	10423.0	10654.9	499.06	µg/L	499.06	ppb	12:06:43
1	Ba 233.527†	60114.9	62064.5	499.71	µg/L	499.71	ppb	12:06:43
1	Be 313.107†	927058.2	954947.2	497.85	µg/L	497.85	ppb	12:06:38
1	Cd 226.502†	17588.3	18157.0	499.64	µg/L	499.64	ppb	12:06:43
1	Co 228.616†	20595.9	21286.3	501.00	µg/L	501.00	ppb	12:06:43
1	Cr 267.716†	23050.9	23698.3	497.16	µg/L	497.16	ppb	12:06:43
1	Cu 324.752†	161745.3	162809.3	497.15	µg/L	497.15	ppb	12:06:38
1	Mn 257.610†	360484.5	371099.0	499.16	µg/L	499.16	ppb	12:06:38
1	Mo 202.031†	4632.0	4786.5	519.11	µg/L	519.11	ppb	12:07:04
1	Ni 231.604†	10300.4	10456.8	502.97	µg/L	502.97	ppb	12:06:43
1	P 214.914†	3956.8	3910.6	2540.1	µg/L	2540.1	ppb	12:07:04
1	Pb 220.353†	2537.3	2607.7	504.75	µg/L	504.75	ppb	12:07:04
1	S 181.975 Axial†	594.9	583.4	1028.2	µg/L	1028.2	ppb	12:07:04
1	Sb 206.836†	1323.6	1347.8	512.93	µg/L	512.93	ppb	12:07:04
1	Se 196.026†	660.4	705.1	500	µg/L	500	ppb	12:07:04
1	SiO2 †	91875.0	93959.1	5480.4	µg/L	5480.4	ppb	12:06:43
1	Sn 189.927†	2232.9	2323.8	505.58	µg/L	505.58	ppb	12:07:04
1	Ti 334.940†	496468.9	511055.9	505.80	µg/L	505.80	ppb	12:06:38
1	Tl 190.801†	1467.0	1541.4	495.22	µg/L	495.22	ppb	12:07:04
1	U 409.014†	10490.3	10442.7	509.85	µg/L	509.85	ppb	12:06:43
1	V 292.402†	44836.9	46288.6	504.13	µg/L	504.13	ppb	12:06:43
1	Zn 213.857†	25491.8	25974.5	500.58	µg/L	500.58	ppb	12:06:43
1	Si 251.611†	89618.6	91641.8	2510	µg/L	2510	ppb	12:08:15
2	Sc RADIAL	70003.0	70003.0	97.1	%			12:05:43
2	Al 396.153Radial†	26496.0	27252.1	4998.7	µg/L	4998.7	ppb	12:05:43
2	Ca 317.933Radial†	34209.0	34976.2	5153.8	µg/L	5153.8	ppb	12:06:03
2	Fe 238.204 Radial†	3632.0	3699.9	5200.5	µg/L	5200.5	ppb	12:06:03
2	K 766.490 Radial†	19199.8	18696.5	5106.0	µg/L	5106.0	ppb	12:05:43
2	Mg 279.077 IEC†	2409.3	2480.2	5150.5	µg/L	5150.5	ppb	12:06:03
2	Na 589.592 Radial†	96950.4	98664.6	10121	µg/L	10121	ppb	12:05:43
2	Sr 421.552†	194518.4	200329.7	504.43	µg/L	504.43	ppb	12:05:43
2	Sc 361.383	1479421.8	1479421.8	96.786	%			12:07:11
2	Y 371.029	813252.6	813252.6	95.936	%			12:07:11
2	Ag 328.068†	87026.0	90834.4	508.82	µg/L	508.82	ppb	12:07:16
2	As 188.979†	1166.1	1202.4	500.56	µg/L	500.56	ppb	12:07:36
2	B 249.677†	10376.7	10635.6	498.15	µg/L	498.15	ppb	12:07:16
2	Ba 233.527†	59728.3	61829.4	497.82	µg/L	497.82	ppb	12:07:16
2	Be 313.107†	925593.8	955967.5	498.38	µg/L	498.38	ppb	12:07:11
2	Cd 226.502†	17494.2	18107.9	498.29	µg/L	498.29	ppb	12:07:16
2	Co 228.616†	20480.5	21223.3	499.52	µg/L	499.52	ppb	12:07:16
2	Cr 267.716†	22949.4	23656.4	496.28	µg/L	496.28	ppb	12:07:16
2	Cu 324.752†	161517.5	163016.0	497.78	µg/L	497.78	ppb	12:07:11
2	Mn 257.610†	359778.8	371354.9	499.51	µg/L	499.51	ppb	12:07:11
2	Mo 202.031†	4642.5	4810.1	521.67	µg/L	521.67	ppb	12:07:36
2	Ni 231.604†	10248.8	10431.7	501.77	µg/L	501.77	ppb	12:07:16
2	P 214.914†	3954.6	3919.1	2545.6	µg/L	2545.6	ppb	12:07:36

2	Pb 220.353†	2528.6	2605.7	504.36 µg/L	504.36 ppb	12:07:36
2	S 181.975 Axial†	594.6	584.7	1030.5 µg/L	1030.5 ppb	12:07:36
2	Sb 206.836†	1332.0	1360.2	517.60 µg/L	517.60 ppb	12:07:36
2	Se 196.026†	659.0	705.5	500 µg/L	500 ppb	12:07:36
2	SiO2 †	91011.5	93317.9	5443.0 µg/L	5443.0 ppb	12:07:16
2	Sn 189.927†	2227.1	2323.9	505.60 µg/L	505.60 ppb	12:07:36
2	Ti 334.940†	495768.1	511688.5	506.43 µg/L	506.43 ppb	12:07:11
2	Tl 190.801†	1471.5	1550.0	497.97 µg/L	497.97 ppb	12:07:36
2	U 409.014†	10393.2	10371.1	506.37 µg/L	506.37 ppb	12:07:16
2	V 292.402†	44612.1	46178.8	502.96 µg/L	502.96 ppb	12:07:16
2	Zn 213.857†	25334.1	25881.2	498.77 µg/L	498.77 ppb	12:07:16
2	Si 251.611†	89032.3	91280.9	2500 µg/L	2500 ppb	12:08:20
3	Sc RADIAL	70424.7	70424.7	97.7 %		12:06:08
3	Al 396.153Radial†	26595.0	27190.1	4987.6 µg/L	4987.6 ppb	12:06:08
3	Ca 317.933Radial†	34132.0	34686.5	5111.1 µg/L	5111.1 ppb	12:06:28
3	Fe 238.204 Radial†	3618.5	3663.8	5149.7 µg/L	5149.7 ppb	12:06:28
3	K 766.490 Radial†	19236.7	18615.9	5084.0 µg/L	5084.0 ppb	12:06:08
3	Mg 279.077 IEC†	2412.9	2469.0	5127.1 µg/L	5127.1 ppb	12:06:28
3	Na 589.592 Radial†	97437.4	98565.3	10111 µg/L	10111 ppb	12:06:08
3	Sr 421.552†	195624.3	200262.2	504.26 µg/L	504.26 ppb	12:06:08
3	Sc 361.383	1489176.8	1489176.8	97.424 %		12:07:44
3	Y 371.029	818411.3	818411.3	96.545 %		12:07:44
3	Ag 328.068†	86945.3	90162.7	505.05 µg/L	505.05 ppb	12:07:49
3	As 188.979†	1157.3	1185.5	493.53 µg/L	493.53 ppb	12:08:09
3	B 249.677†	10404.3	10593.6	496.17 µg/L	496.17 ppb	12:07:49
3	Ba 233.527†	59546.8	61238.8	493.07 µg/L	493.07 ppb	12:07:49
3	Be 313.107†	929038.1	953238.3	496.96 µg/L	496.96 ppb	12:07:44
3	Cd 226.502†	17409.2	17902.2	492.63 µg/L	492.63 ppb	12:07:49
3	Co 228.616†	20416.0	21018.5	494.70 µg/L	494.70 ppb	12:07:49
3	Cr 267.716†	22892.9	23443.1	491.80 µg/L	491.80 ppb	12:07:49
3	Cu 324.752†	162198.3	162621.6	496.59 µg/L	496.59 ppb	12:07:44
3	Mn 257.610†	361129.3	370306.2	498.09 µg/L	498.09 ppb	12:07:44
3	Mo 202.031†	4612.5	4747.8	514.91 µg/L	514.91 ppb	12:08:09
3	Ni 231.604†	10248.8	10362.4	498.43 µg/L	498.43 ppb	12:07:49
3	P 214.914†	3924.3	3861.2	2508.1 µg/L	2508.1 ppb	12:08:09
3	Pb 220.353†	2511.5	2571.0	497.65 µg/L	497.65 ppb	12:08:09
3	S 181.975 Axial†	595.5	581.6	1025.0 µg/L	1025.0 ppb	12:08:09
3	Sb 206.836†	1327.2	1346.3	512.29 µg/L	512.29 ppb	12:08:09
3	Se 196.026†	657.5	699.5	496 µg/L	496 ppb	12:08:09
3	SiO2 †	90835.7	92521.5	5396.5 µg/L	5396.5 ppb	12:07:49
3	Sn 189.927†	2215.4	2296.9	499.72 µg/L	499.72 ppb	12:08:09
3	Ti 334.940†	497845.1	510465.0	505.22 µg/L	505.22 ppb	12:07:44
3	Tl 190.801†	1453.9	1521.9	488.97 µg/L	488.97 ppb	12:08:09
3	U 409.014†	10276.4	10180.8	497.10 µg/L	497.10 ppb	12:07:49
3	V 292.402†	44461.8	45722.6	497.98 µg/L	497.98 ppb	12:07:49
3	Zn 213.857†	25268.6	25642.5	494.16 µg/L	494.16 ppb	12:07:49
3	Si 251.611†	88699.5	90336.7	2470 µg/L	2470 ppb	12:08:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1483981.2	97.084	%	0.3211				0.33%
Sc RADIAL	70142.9	97.3	%	0.34				0.35%
Y 371.029	815681.5	96.223	%	0.3058				0.32%
Ag 328.068†	90727.9	508.21	µg/L	2.911	508.21	ppb	2.911	0.57%
QC value within limits for Ag 328.068 Recovery = 101.64%								
Al 396.153Radial†	27207.6	4990.6	µg/L	7.05	4990.6	ppb	7.05	0.14%
QC value within limits for Al 396.153Radial Recovery = 99.81%								
As 188.979†	1196.2	497.97	µg/L	3.858	497.97	ppb	3.858	0.77%
QC value within limits for As 188.979 Recovery = 99.59%								
B 249.677†	10628.0	497.79	µg/L	1.474	497.79	ppb	1.474	0.30%
QC value within limits for B 249.677 Recovery = 99.56%								
Ba 233.527†	61710.9	496.87	µg/L	3.425	496.87	ppb	3.425	0.69%
QC value within limits for Ba 233.527 Recovery = 99.37%								
Be 313.107†	954717.7	497.73	µg/L	0.719	497.73	ppb	0.719	0.14%
QC value within limits for Be 313.107 Recovery = 99.55%								
Ca 317.933Radial†	34815.6	5130.2	µg/L	21.72	5130.2	ppb	21.72	0.42%
QC value within limits for Ca 317.933Radial Recovery = 102.60%								
Cd 226.502†	18055.7	496.85	µg/L	3.722	496.85	ppb	3.722	0.75%
QC value within limits for Cd 226.502 Recovery = 99.37%								

Co 228.616†	21176.0	498.41 µg/L	3.295	498.41 ppb	3.295	0.66%
QC value within limits for Co 228.616 Recovery = 99.68%						
Cr 267.716†	23599.2	495.08 µg/L	2.871	495.08 ppb	2.871	0.58%
QC value within limits for Cr 267.716 Recovery = 99.02%						
Cu 324.752†	162815.6	497.17 µg/L	0.598	497.17 ppb	0.598	0.12%
QC value within limits for Cu 324.752 Recovery = 99.43%						
Fe 238.204 Radial†	3679.9	5172.4 µg/L	25.83	5172.4 ppb	25.83	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 103.45%						
K 766.490 Radial†	18611.2	5082.7 µg/L	23.97	5082.7 ppb	23.97	0.47%
QC value within limits for K 766.490 Radial Recovery = 101.65%						
Mg 279.077 IEC†	2474.0	5137.7 µg/L	11.83	5137.7 ppb	11.83	0.23%
QC value within limits for Mg 279.077 IEC Recovery = 102.75%						
Mn 257.610†	370920.0	498.92 µg/L	0.737	498.92 ppb	0.737	0.15%
QC value within limits for Mn 257.610 Recovery = 99.78%						
Mo 202.031†	4781.4	518.56 µg/L	3.410	518.56 ppb	3.410	0.66%
QC value within limits for Mo 202.031 Recovery = 103.71%						
Na 589.592 Radial†	98585.4	10113 µg/L	7.3	10113 ppb	7.3	0.07%
QC value within limits for Na 589.592 Radial Recovery = 101.13%						
Ni 231.604†	10417.0	501.05 µg/L	2.353	501.05 ppb	2.353	0.47%
QC value within limits for Ni 231.604 Recovery = 100.21%						
P 214.914†	3897.0	2531.3 µg/L	20.29	2531.3 ppb	20.29	0.80%
QC value within limits for P 214.914 Recovery = 101.25%						
Pb 220.353†	2594.8	502.25 µg/L	3.993	502.25 ppb	3.993	0.80%
QC value within limits for Pb 220.353 Recovery = 100.45%						
S 181.975 Axial†	583.2	1027.9 µg/L	2.77	1027.9 ppb	2.77	0.27%
QC value within limits for S 181.975 Axial Recovery = 102.79%						
Sb 206.836†	1351.4	514.27 µg/L	2.903	514.27 ppb	2.903	0.56%
QC value within limits for Sb 206.836 Recovery = 102.85%						
Se 196.026†	703.4	499 µg/L	2.4	499 ppb	2.4	0.48%
QC value within limits for Se 196.026 Recovery = 99.76%						
SiO2 †	93266.1	5440.0 µg/L	42.01	5440.0 ppb	42.01	0.77%
QC value within limits for SiO2 Recovery = 101.73%						
Si 251.611†	91086.5	2490 µg/L	18.4	2490 ppb	18.4	0.74%
QC value within limits for Si 251.611 Recovery = 99.75%						
Sn 189.927†	2314.8	503.63 µg/L	3.387	503.63 ppb	3.387	0.67%
QC value within limits for Sn 189.927 Recovery = 100.73%						
Sr 421.552†	200194.0	504.09 µg/L	0.452	504.09 ppb	0.452	0.09%
QC value within limits for Sr 421.552 Recovery = 100.82%						
Ti 334.940†	511069.8	505.82 µg/L	0.604	505.82 ppb	0.604	0.12%
QC value within limits for Ti 334.940 Recovery = 101.16%						
Tl 190.801†	1537.8	494.05 µg/L	4.612	494.05 ppb	4.612	0.93%
QC value within limits for Tl 190.801 Recovery = 98.81%						
U 409.014†	10331.5	504.44 µg/L	6.590	504.44 ppb	6.590	1.31%
QC value within limits for U 409.014 Recovery = 100.89%						
V 292.402†	46063.4	501.69 µg/L	3.267	501.69 ppb	3.267	0.65%
QC value within limits for V 292.402 Recovery = 100.34%						
Zn 213.857†	25832.7	497.84 µg/L	3.310	497.84 ppb	3.310	0.66%
QC value within limits for Zn 213.857 Recovery = 99.57%						

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: CCB
Nebulizer Back Pressure: 234.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 12:10:33
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70458.0	70458.0	97.7	%			12:12:20
1	Al 396.153Radial†	32.4	-2.9	-0.5893	µg/L	-0.5893	ppb	12:12:20
1	Ca 317.933Radial†	272.1	22.9	3.3703	µg/L	3.3703	ppb	12:12:40
1	Fe 238.204 Radial†	42.0	2.3	3.2086	µg/L	3.2086	ppb	12:12:40
1	K 766.490 Radial†	1253.2	205.0	55.991	µg/L	55.991	ppb	12:12:20
1	Mg 279.077 IEC†	3.5	2.4	5.0624	µg/L	5.0624	ppb	12:12:40
1	Na 589.592 Radial†	952.0	-210.4	-21.583	µg/L	-21.583	ppb	12:12:20
1	Sr 421.552†	47.8	44.3	0.1115	µg/L	0.1115	ppb	12:12:20
1	Sc 361.383	1507224.8	1507224.8	98.605	%			12:13:38
1	Y 371.029	836091.6	836091.6	98.631	%			12:13:38
1	Ag 328.068†	-894.7	11.1	0.0640	µg/L	0.0640	ppb	12:13:43
1	As 188.979†	-1.9	-4.3	-1.7870	µg/L	-1.7870	ppb	12:14:04
1	B 249.677†	210.4	127.6	5.9647	µg/L	5.9647	ppb	12:14:04
1	Ba 233.527†	-115.8	0.1	0.0017	µg/L	0.0017	ppb	12:14:04
1	Be 313.107†	331.4	-26.9	-0.0140	µg/L	-0.0140	ppb	12:13:43
1	Cd 226.502†	-34.4	-2.1	-0.0592	µg/L	-0.0592	ppb	12:14:04
1	Co 228.616†	-57.3	4.6	0.1108	µg/L	0.1108	ppb	12:14:04
1	Cr 267.716†	59.5	5.2	0.1094	µg/L	0.1094	ppb	12:14:04
1	Cu 324.752†	3867.6	57.2	0.1779	µg/L	0.1779	ppb	12:13:43
1	Mn 257.610†	459.3	94.6	0.1274	µg/L	0.1274	ppb	12:14:04
1	Mo 202.031†	-2.1	11.3	1.2208	µg/L	1.2208	ppb	12:14:04
1	Ni 231.604†	152.8	-2.5	-0.1174	µg/L	-0.1174	ppb	12:14:04
1	P 214.914†	173.3	8.9	5.7764	µg/L	5.7764	ppb	12:14:04
1	Pb 220.353†	14.4	7.7	1.4970	µg/L	1.4970	ppb	12:14:04
1	S 181.975 Axial†	40.1	11.1	19.479	µg/L	19.479	ppb	12:14:04
1	Sb 206.836†	22.5	6.8	2.5579	µg/L	2.5579	ppb	12:14:04
1	Se 196.026†	-19.9	4.5	3.14	µg/L	3.14	ppb	12:14:04
1	SiO2 †	866.9	163.3	9.5234	µg/L	9.5234	ppb	12:14:04
1	Sn 189.927†	-27.4	-4.9	-1.0650	µg/L	-1.0650	ppb	12:14:04
1	Ti 334.940†	637.9	104.0	0.1028	µg/L	0.1028	ppb	12:13:43
1	Tl 190.801†	-26.8	2.4	0.7753	µg/L	0.7753	ppb	12:14:04
1	U 409.014†	287.2	-76.0	-3.6882	µg/L	-3.6882	ppb	12:13:43
1	V 292.402†	-45.4	39.2	0.4291	µg/L	0.4291	ppb	12:13:43
1	Zn 213.857†	308.4	18.6	0.3579	µg/L	0.3579	ppb	12:14:04
1	Si 251.611†	752.4	55.1	1.51	µg/L	1.51	ppb	12:15:26
2	Sc RADIAL	70532.1	70532.1	97.8	%			12:12:45
2	Al 396.153Radial†	34.1	-1.2	-0.2559	µg/L	-0.2559	ppb	12:12:45
2	Ca 317.933Radial†	267.7	18.0	2.6576	µg/L	2.6576	ppb	12:13:05
2	Fe 238.204 Radial†	40.7	0.9	1.2642	µg/L	1.2642	ppb	12:13:05
2	K 766.490 Radial†	1281.7	232.8	63.575	µg/L	63.575	ppb	12:12:45
2	Mg 279.077 IEC†	7.4	6.4	13.213	µg/L	13.213	ppb	12:13:05
2	Na 589.592 Radial†	945.1	-218.4	-22.407	µg/L	-22.407	ppb	12:12:45
2	Sr 421.552†	45.4	41.8	0.1052	µg/L	0.1052	ppb	12:12:45
2	Sc 361.383	1496766.1	1496766.1	97.921	%			12:14:09
2	Y 371.029	830419.5	830419.5	97.961	%			12:14:09
2	Ag 328.068†	-810.0	91.4	0.5100	µg/L	0.5100	ppb	12:14:14
2	As 188.979†	6.8	4.5	1.8562	µg/L	1.8562	ppb	12:14:35
2	B 249.677†	221.5	140.4	6.5640	µg/L	6.5640	ppb	12:14:35
2	Ba 233.527†	-113.0	2.2	0.0181	µg/L	0.0181	ppb	12:14:35
2	Be 313.107†	362.7	7.3	0.0038	µg/L	0.0038	ppb	12:14:14
2	Cd 226.502†	-33.3	-1.3	-0.0368	µg/L	-0.0368	ppb	12:14:35
2	Co 228.616†	-59.5	1.9	0.0466	µg/L	0.0466	ppb	12:14:35
2	Cr 267.716†	51.1	-2.9	-0.0607	µg/L	-0.0607	ppb	12:14:35
2	Cu 324.752†	3874.7	91.8	0.2779	µg/L	0.2779	ppb	12:14:14
2	Mn 257.610†	428.3	66.2	0.0890	µg/L	0.0890	ppb	12:14:35
2	Mo 202.031†	-7.1	6.1	0.6640	µg/L	0.6640	ppb	12:14:35
2	Ni 231.604†	150.1	-4.2	-0.1992	µg/L	-0.1992	ppb	12:14:35
2	P 214.914†	164.1	0.8	0.4957	µg/L	0.4957	ppb	12:14:35

2	Pb 220.353†	11.1	4.5	0.8622	µg/L	0.8622	ppb	12:14:35
2	S 181.975 Axial†	41.1	12.3	21.652	µg/L	21.652	ppb	12:14:35
2	Sb 206.836†	17.8	2.1	0.7796	µg/L	0.7796	ppb	12:14:35
2	Se 196.026†	-19.3	4.9	3.45	µg/L	3.45	ppb	12:14:35
2	SiO2 †	766.4	66.8	3.8943	µg/L	3.8943	ppb	12:14:35
2	Sn 189.927†	-21.5	0.9	0.1896	µg/L	0.1896	ppb	12:14:35
2	Ti 334.940†	588.3	57.9	0.0574	µg/L	0.0574	ppb	12:14:14
2	Tl 190.801†	-21.2	8.0	2.5608	µg/L	2.5608	ppb	12:14:35
2	U 409.014†	409.8	51.2	2.4885	µg/L	2.4885	ppb	12:14:14
2	V 292.402†	-78.6	5.0	0.0631	µg/L	0.0631	ppb	12:14:14
2	Zn 213.857†	307.5	19.8	0.3822	µg/L	0.3822	ppb	12:14:35
2	Si 251.611†	751.9	60.0	1.64	µg/L	1.64	ppb	12:15:46
3	Sc RADIAL	70147.3	70147.3	97.3	%			12:13:10
3	Al 396.153Radial†	68.9	34.7	6.3499	µg/L	6.3499	ppb	12:13:10
3	Ca 317.933Radial†	274.6	26.6	3.9206	µg/L	3.9206	ppb	12:13:30
3	Fe 238.204 Radial†	42.8	3.4	4.7223	µg/L	4.7223	ppb	12:13:30
3	K 766.490 Radial†	1277.4	235.6	64.331	µg/L	64.331	ppb	12:13:10
3	Mg 279.077 IEC†	4.2	3.1	6.5354	µg/L	6.5354	ppb	12:13:30
3	Na 589.592 Radial†	882.1	-277.9	-28.507	µg/L	-28.507	ppb	12:13:10
3	Sr 421.552†	-18.4	-23.5	-0.0593	µg/L	-0.0593	ppb	12:13:10
3	Sc 361.383	1506258.9	1506258.9	98.542	%			12:14:40
3	Y 371.029	835689.5	835689.5	98.583	%			12:14:40
3	Ag 328.068†	-824.3	82.0	0.4592	µg/L	0.4592	ppb	12:14:45
3	As 188.979†	-8.8	-11.4	-4.6794	µg/L	-4.6794	ppb	12:15:06
3	B 249.677†	207.9	125.3	5.8562	µg/L	5.8562	ppb	12:15:06
3	Ba 233.527†	-110.2	5.8	0.0469	µg/L	0.0469	ppb	12:15:06
3	Be 313.107†	351.1	-6.8	-0.0035	µg/L	-0.0035	ppb	12:14:45
3	Cd 226.502†	-29.8	2.4	0.0665	µg/L	0.0665	ppb	12:15:06
3	Co 228.616†	-58.4	3.4	0.0825	µg/L	0.0825	ppb	12:15:06
3	Cr 267.716†	58.1	3.9	0.0812	µg/L	0.0812	ppb	12:15:06
3	Cu 324.752†	3864.2	56.3	0.1699	µg/L	0.1699	ppb	12:14:45
3	Mn 257.610†	437.4	72.6	0.0980	µg/L	0.0980	ppb	12:15:06
3	Mo 202.031†	-4.0	9.3	1.0038	µg/L	1.0038	ppb	12:15:06
3	Ni 231.604†	161.9	6.9	0.3313	µg/L	0.3313	ppb	12:15:06
3	P 214.914†	172.3	8.1	5.2333	µg/L	5.2333	ppb	12:15:06
3	Pb 220.353†	10.1	3.3	0.6420	µg/L	0.6420	ppb	12:15:06
3	S 181.975 Axial†	41.1	12.1	21.269	µg/L	21.269	ppb	12:15:06
3	Sb 206.836†	22.4	6.6	2.4984	µg/L	2.4984	ppb	12:15:06
3	Se 196.026†	-18.9	5.4	3.85	µg/L	3.85	ppb	12:15:06
3	SiO2 †	757.1	52.4	3.0586	µg/L	3.0586	ppb	12:15:06
3	Sn 189.927†	-20.4	2.2	0.4699	µg/L	0.4699	ppb	12:15:06
3	Ti 334.940†	543.5	8.6	0.0085	µg/L	0.0085	ppb	12:14:45
3	Tl 190.801†	-21.0	8.4	2.6848	µg/L	2.6848	ppb	12:15:06
3	U 409.014†	398.8	37.4	1.8181	µg/L	1.8181	ppb	12:14:45
3	V 292.402†	-56.0	28.5	0.3176	µg/L	0.3176	ppb	12:14:45
3	Zn 213.857†	309.0	19.4	0.3742	µg/L	0.3742	ppb	12:15:06
3	Si 251.611†	755.6	58.8	1.61	µg/L	1.61	ppb	12:16:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1503416.6	98.356	%	0.3781				0.38%
Sc RADIAL	70379.1	97.6	%	0.28				0.29%
Y 371.029	834066.9	98.392	%	0.3734				0.38%
Ag 328.068†	61.5	0.3444	µg/L	0.24412	0.3444	ppb	0.24412	70.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	10.2	1.8349	µg/L	3.91369	1.8349	ppb	3.91369	213.29%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.7	-1.5368	µg/L	3.27502	-1.5368	ppb	3.27502	213.11%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	131.1	6.1283	µg/L	0.38122	6.1283	ppb	0.38122	6.22%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	2.7	0.0222	µg/L	0.02287	0.0222	ppb	0.02287	102.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-8.8	-0.0046	µg/L	0.00896	-0.0046	ppb	0.00896	195.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	22.5	3.3162	µg/L	0.63324	3.3162	ppb	0.63324	19.10%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-0.3	-0.0098	µg/L	0.06706	-0.0098	ppb	0.06706	682.79%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	3.3	0.0800 µg/L	0.03214	0.0800 ppb	0.03214	40.19%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	2.1	0.0433 µg/L	0.09118	0.0433 ppb	0.09118	210.58%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	68.4	0.2085 µg/L	0.06019	0.2085 ppb	0.06019	28.86%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.2	3.0650 µg/L	1.73350	3.0650 ppb	1.73350	56.56%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	224.5	61.299 µg/L	4.6124	61.299 ppb	4.6124	7.52%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	4.0	8.2704 µg/L	4.34356	8.2704 ppb	4.34356	52.52%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	77.8	0.1048 µg/L	0.02007	0.1048 ppb	0.02007	19.14%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	8.9	0.9629 µg/L	0.28064	0.9629 ppb	0.28064	29.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-235.6	-24.166 µg/L	3.7821	-24.166 ppb	3.7821	15.65%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.1	0.0049 µg/L	0.28562	0.0049 ppb	0.28562	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	5.9	3.8351 µg/L	2.90478	3.8351 ppb	2.90478	75.74%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	5.2	1.0004 µg/L	0.44398	1.0004 ppb	0.44398	44.38%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	11.8	20.800 µg/L	1.1602	20.800 ppb	1.1602	5.58%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.1	1.9453 µg/L	1.00995	1.9453 ppb	1.00995	51.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.9	3.48 µg/L	0.355	3.48 ppb	0.355	10.19%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	94.2	5.4921 µg/L	3.51614	5.4921 ppb	3.51614	64.02%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	58.0	1.59 µg/L	0.070	1.59 ppb	0.070	4.41%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.6	-0.1352 µg/L	0.81738	-0.1352 ppb	0.81738	604.57%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	20.9	0.0525 µg/L	0.09683	0.0525 ppb	0.09683	184.51%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	56.9	0.0562 µg/L	0.04720	0.0562 ppb	0.04720	83.95%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.2	2.0070 µg/L	1.06848	2.0070 ppb	1.06848	53.24%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	4.2	0.2061 µg/L	3.38921	0.2061 ppb	3.38921	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	24.2	0.2699 µg/L	0.18758	0.2699 ppb	0.18758	69.50%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	19.3	0.3714 µg/L	0.01239	0.3714 ppb	0.01239	3.34%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: 1201049243|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 3/14/2006 12:18:15
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049243|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70740.7	70740.7	98.1	%			12:20:01
1	Al 396.153Radial†	48.1	13.0	2.3729	µg/L	2.3729	ppb	12:20:01
1	Ca 317.933Radial†	530.7	285.3	42.044	µg/L	42.044	ppb	12:20:21
1	Fe 238.204 Radial†	46.5	6.7	9.4180	µg/L	9.4180	ppb	12:20:21
1	K 766.490 Radial†	1246.4	193.0	52.703	µg/L	52.703	ppb	12:20:01
1	Mg 279.077 IEC†	5.0	3.9	8.0475	µg/L	8.0475	ppb	12:20:21
1	Na 589.592 Radial†	946.4	-220.0	-22.563	µg/L	-22.563	ppb	12:20:01
1	Sr 421.552†	-41.7	-47.1	-0.1197	µg/L	-0.1197	ppb	12:20:01
1	Sc 361.383	1510059.9	1510059.9	98.790	%			12:21:20
1	Y 371.029	834068.8	834068.8	98.392	%			12:21:20
1	Ag 328.068†	-815.8	92.7	0.5193	µg/L	0.5193	ppb	12:21:25
1	As 188.979†	-2.6	-5.0	-2.0560	µg/L	-2.0560	ppb	12:21:45
1	B 249.677†	227.3	144.4	6.7493	µg/L	6.7493	ppb	12:21:45
1	Ba 233.527†	-137.2	-21.2	-0.1707	µg/L	-0.1707	ppb	12:21:45
1	Be 313.107†	338.3	-20.6	-0.0106	µg/L	-0.0106	ppb	12:21:25
1	Cd 226.502†	-35.7	-3.4	-0.0942	µg/L	-0.0942	ppb	12:21:45
1	Co 228.616†	-70.6	-8.7	-0.2042	µg/L	-0.2042	ppb	12:21:45
1	Cr 267.716†	114.3	60.6	1.2675	µg/L	1.2675	ppb	12:21:45
1	Cu 324.752†	4002.4	186.2	0.5718	µg/L	0.5718	ppb	12:21:25
1	Mn 257.610†	613.4	249.6	0.3364	µg/L	0.3364	ppb	12:21:45
1	Mo 202.031†	-9.7	3.6	0.3879	µg/L	0.3879	ppb	12:21:45
1	Ni 231.604†	174.6	19.3	0.9267	µg/L	0.9267	ppb	12:21:45
1	P 214.914†	203.3	39.0	25.335	µg/L	25.335	ppb	12:21:45
1	Pb 220.353†	10.2	3.4	0.6606	µg/L	0.6606	ppb	12:21:45
1	S 181.975 Axial†	59.4	30.5	53.567	µg/L	53.567	ppb	12:21:45
1	Sb 206.836†	34.2	18.5	6.9693	µg/L	6.9693	ppb	12:21:45
1	Se 196.026†	-18.6	5.8	4.07	µg/L	4.07	ppb	12:21:45
1	SiO2 †	1007.2	303.7	17.714	µg/L	17.714	ppb	12:21:45
1	Sn 189.927†	-25.2	-2.7	-0.5744	µg/L	-0.5744	ppb	12:21:45
1	Ti 334.940†	853.5	321.1	0.3184	µg/L	0.3184	ppb	12:21:25
1	Tl 190.801†	-29.4	-0.1	-0.0478	µg/L	-0.0478	ppb	12:21:45
1	U 409.014†	312.0	-51.5	-2.5009	µg/L	-2.5009	ppb	12:21:25
1	V 292.402†	-77.8	6.5	0.0741	µg/L	0.0741	ppb	12:21:25
1	Zn 213.857†	584.1	297.1	5.7414	µg/L	5.7414	ppb	12:21:45
1	Si 251.611†	982.0	286.1	7.83	µg/L	7.83	ppb	12:23:09
2	Sc RADIAL	71573.4	71573.4	99.3	%			12:20:26
2	Al 396.153Radial†	48.2	12.5	2.2632	µg/L	2.2632	ppb	12:20:26
2	Ca 317.933Radial†	527.9	276.1	40.690	µg/L	40.690	ppb	12:20:46
2	Fe 238.204 Radial†	47.1	6.8	9.5976	µg/L	9.5976	ppb	12:20:46
2	K 766.490 Radial†	1249.8	181.6	49.591	µg/L	49.591	ppb	12:20:26
2	Mg 279.077 IEC†	4.1	2.9	6.0583	µg/L	6.0583	ppb	12:20:46
2	Na 589.592 Radial†	955.5	-222.0	-22.773	µg/L	-22.773	ppb	12:20:26
2	Sr 421.552†	-26.2	-31.0	-0.0793	µg/L	-0.0793	ppb	12:20:26
2	Sc 361.383	1510145.1	1510145.1	98.796	%			12:21:51
2	Y 371.029	834128.7	834128.7	98.399	%			12:21:51
2	Ag 328.068†	-882.8	25.0	0.1421	µg/L	0.1421	ppb	12:21:56
2	As 188.979†	0.7	-1.7	-0.7085	µg/L	-0.7085	ppb	12:22:17
2	B 249.677†	220.4	137.4	6.4218	µg/L	6.4218	ppb	12:22:17
2	Ba 233.527†	-128.0	-11.9	-0.0955	µg/L	-0.0955	ppb	12:22:17
2	Be 313.107†	322.8	-36.3	-0.0188	µg/L	-0.0188	ppb	12:21:56
2	Cd 226.502†	-34.0	-1.7	-0.0478	µg/L	-0.0478	ppb	12:22:17
2	Co 228.616†	-82.0	-20.2	-0.4749	µg/L	-0.4749	ppb	12:22:17
2	Cr 267.716†	95.6	41.7	0.8713	µg/L	0.8713	ppb	12:22:17
2	Cu 324.752†	3910.1	92.6	0.2851	µg/L	0.2851	ppb	12:21:56
2	Mn 257.610†	612.4	248.6	0.3350	µg/L	0.3350	ppb	12:22:17
2	Mo 202.031†	-6.1	7.2	0.7816	µg/L	0.7816	ppb	12:22:17
2	Ni 231.604†	179.0	23.7	1.1397	µg/L	1.1397	ppb	12:22:17
2	P 214.914†	200.2	35.8	23.265	µg/L	23.265	ppb	12:22:17

2	Pb 220.353†	2.2	-4.7	-0.9007	µg/L	-0.9007 ppb	12:22:17
2	S 181.975 Axial†	55.6	26.7	46.895	µg/L	46.895 ppb	12:22:17
2	Sb 206.836†	30.1	14.4	5.4375	µg/L	5.4375 ppb	12:22:17
2	Se 196.026†	-30.6	-6.3	-4.50	µg/L	-4.50 ppb	12:22:17
2	SiO2 †	997.5	293.7	17.133	µg/L	17.133 ppb	12:22:17
2	Sn 189.927†	-11.5	11.2	2.4406	µg/L	2.4406 ppb	12:22:17
2	Ti 334.940†	809.3	276.3	0.2741	µg/L	0.2741 ppb	12:21:56
2	Tl 190.801†	-31.7	-2.4	-0.7720	µg/L	-0.7720 ppb	12:22:17
2	U 409.014†	317.3	-46.1	-2.2401	µg/L	-2.2401 ppb	12:21:56
2	V 292.402†	-67.3	17.2	0.1918	µg/L	0.1918 ppb	12:21:56
2	Zn 213.857†	574.3	287.1	5.5491	µg/L	5.5491 ppb	12:22:17
2	Si 251.611†	967.8	271.7	7.44	µg/L	7.44 ppb	12:23:29
3	Sc RADIAL	71810.2	71810.2	99.6	%		12:20:51
3	Al 396.153Radial†	73.7	37.9	6.9218	µg/L	6.9218 ppb	12:20:51
3	Ca 317.933Radial†	530.4	276.9	40.803	µg/L	40.803 ppb	12:21:11
3	Fe 238.204 Radial†	49.1	8.6	12.123	µg/L	12.123 ppb	12:21:11
3	K 766.490 Radial†	1164.8	92.1	25.164	µg/L	25.164 ppb	12:20:51
3	Mg 279.077 IEC†	2.4	1.2	2.5449	µg/L	2.5449 ppb	12:21:11
3	Na 589.592 Radial†	932.4	-248.4	-25.476	µg/L	-25.476 ppb	12:20:51
3	Sr 421.552†	-18.4	-23.1	-0.0594	µg/L	-0.0594 ppb	12:20:51
3	Sc 361.383	1523608.8	1523608.8	99.677	%		12:22:22
3	Y 371.029	841730.6	841730.6	99.296	%		12:22:22
3	Ag 328.068†	-843.5	72.3	0.4056	µg/L	0.4056 ppb	12:22:28
3	As 188.979†	-1.0	-3.4	-1.3890	µg/L	-1.3890 ppb	12:22:48
3	B 249.677†	211.8	126.8	5.9266	µg/L	5.9266 ppb	12:22:48
3	Ba 233.527†	-122.3	-5.1	-0.0412	µg/L	-0.0412 ppb	12:22:48
3	Be 313.107†	327.2	-34.7	-0.0180	µg/L	-0.0180 ppb	12:22:28
3	Cd 226.502†	-41.0	-8.4	-0.2330	µg/L	-0.2330 ppb	12:22:48
3	Co 228.616†	-75.0	-12.6	-0.2932	µg/L	-0.2932 ppb	12:22:48
3	Cr 267.716†	112.9	58.1	1.2165	µg/L	1.2165 ppb	12:22:48
3	Cu 324.752†	4045.4	193.4	0.5909	µg/L	0.5909 ppb	12:22:28
3	Mn 257.610†	597.9	228.6	0.3084	µg/L	0.3084 ppb	12:22:48
3	Mo 202.031†	-1.3	12.1	1.3089	µg/L	1.3089 ppb	12:22:48
3	Ni 231.604†	173.5	16.6	0.8015	µg/L	0.8015 ppb	12:22:48
3	P 214.914†	196.9	30.7	19.985	µg/L	19.985 ppb	12:22:48
3	Pb 220.353†	11.4	4.6	0.8877	µg/L	0.8877 ppb	12:22:48
3	S 181.975 Axial†	53.0	23.6	41.445	µg/L	41.445 ppb	12:22:48
3	Sb 206.836†	28.4	12.4	4.6894	µg/L	4.6894 ppb	12:22:48
3	Se 196.026†	-19.1	5.4	3.84	µg/L	3.84 ppb	12:22:48
3	SiO2 †	998.5	285.8	16.672	µg/L	16.672 ppb	12:22:48
3	Sn 189.927†	-22.5	0.3	0.0636	µg/L	0.0636 ppb	12:22:48
3	Ti 334.940†	770.1	229.7	0.2281	µg/L	0.2281 ppb	12:22:28
3	Tl 190.801†	-24.7	4.9	1.5725	µg/L	1.5725 ppb	12:22:48
3	U 409.014†	361.5	-4.6	-0.2265	µg/L	-0.2265 ppb	12:22:28
3	V 292.402†	-110.8	-25.9	-0.2630	µg/L	-0.2630 ppb	12:22:28
3	Zn 213.857†	579.9	287.6	5.5572	µg/L	5.5572 ppb	12:22:48
3	Si 251.611†	981.2	276.4	7.57	µg/L	7.57 ppb	12:23:49

Mean Data: 1201049243|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1514604.6	99.088	%	0.5102				0.51%
Sc RADIAL	71374.8	99.0	%	0.78				0.79%
Y 371.029	836642.7	98.696	%	0.5198				0.53%
Ag 328.068†	63.4	0.3557	µg/L	0.19347	0.3557	ppb	0.19347	54.39%
Al 396.153Radial†	21.1	3.8526	µg/L	2.65852	3.8526	ppb	2.65852	69.01%
As 188.979†	-3.4	-1.3845	µg/L	0.67378	-1.3845	ppb	0.67378	48.67%
B 249.677†	136.2	6.3659	µg/L	0.41419	6.3659	ppb	0.41419	6.51%
Ba 233.527†	-12.7	-0.1024	µg/L	0.06503	-0.1024	ppb	0.06503	63.47%
Be 313.107†	-30.5	-0.0158	µg/L	0.00453	-0.0158	ppb	0.00453	28.71%
Ca 317.933Radial†	279.5	41.179	µg/L	0.7516	41.179	ppb	0.7516	1.83%
Cd 226.502†	-4.5	-0.1250	µg/L	0.09635	-0.1250	ppb	0.09635	77.10%
Co 228.616†	-13.8	-0.3241	µg/L	0.13793	-0.3241	ppb	0.13793	42.56%
Cr 267.716†	53.5	1.1184	µg/L	0.21552	1.1184	ppb	0.21552	19.27%
Cu 324.752†	157.4	0.4826	µg/L	0.17128	0.4826	ppb	0.17128	35.49%
Fe 238.204 Radial†	7.4	10.379	µg/L	1.5123	10.379	ppb	1.5123	14.57%
K 766.490 Radial†	155.6	42.486	µg/L	15.0821	42.486	ppb	15.0821	35.50%
Mg 279.077 IEC†	2.7	5.5502	µg/L	2.78623	5.5502	ppb	2.78623	50.20%
Mn 257.610†	242.3	0.3266	µg/L	0.01577	0.3266	ppb	0.01577	4.83%
Mo 202.031†	7.6	0.8262	µg/L	0.46209	0.8262	ppb	0.46209	55.93%

Na 589.592 Radial†	-230.1	-23.604	µg/L	1.6245	-23.604	ppb	1.6245 6.88%
Ni 231.604†	19.9	0.9560	µg/L	0.17095	0.9560	ppb	0.17095 17.88%
P 214.914†	35.2	22.862	µg/L	2.6978	22.862	ppb	2.6978 11.80%
Pb 220.353†	1.1	0.2159	µg/L	0.97365	0.2159	ppb	0.97365 451.05%
S 181.975 Axial†	26.9	47.302	µg/L	6.0716	47.302	ppb	6.0716 12.84%
Sb 206.836†	15.1	5.6987	µg/L	1.16220	5.6987	ppb	1.16220 20.39%
Se 196.026†	1.6	1.14	µg/L	4.882	1.14	ppb	4.882 428.98%
SiO2 †	294.4	17.173	µg/L	0.5221	17.173	ppb	0.5221 3.04%
Si 251.611†	278.1	7.61	µg/L	0.201	7.61	ppb	0.201 2.64%
Sn 189.927†	2.9	0.6433	µg/L	1.58890	0.6433	ppb	1.58890 247.00%
Sr 421.552†	-33.7	-0.0861	µg/L	0.03076	-0.0861	ppb	0.03076 35.72%
Ti 334.940†	275.7	0.2735	µg/L	0.04516	0.2735	ppb	0.04516 16.51%
Tl 190.801†	0.8	0.2509	µg/L	1.20043	0.2509	ppb	1.20043 478.40%
U 409.014†	-34.1	-1.6558	µg/L	1.24466	-1.6558	ppb	1.24466 75.17%
V 292.402†	-0.7	0.0010	µg/L	0.23608	0.0010	ppb	0.23608 >999.9%
Zn 213.857†	290.6	5.6159	µg/L	0.10877	5.6159	ppb	0.10877 1.94%

Sequence No.: 10
Sample ID: 1201049244|510923|2
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 3/14/2006 12:25:58
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049244|510923|2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71923.6	71923.6	99.8	%			12:27:49
1	Al 396.153Radial†	280317.7	280953.8	51764	µg/L	51764	ppb	12:27:44
1	Ca 317.933Radial†	127366.7	127416.5	18775	µg/L	18775	ppb	12:27:49
1	Fe 238.204 Radial†	56438.9	56533.6	79462	µg/L	79462	ppb	12:27:49
1	K 766.490 Radial†	53334.0	52384.6	14306	µg/L	14306	ppb	12:27:49
1	Mg 279.077 IEC†	7955.5	7973.3	16470	µg/L	16470	ppb	12:27:49
1	Na 589.592 Radial†	29569.2	28455.6	2918.9	µg/L	2918.9	ppb	12:27:49
1	Sr 421.552†	328488.1	329271.2	828.81	µg/L	828.81	ppb	12:27:44
1	Sc 361.383	1506517.8	1506517.8	98.559	%			12:28:20
1	Y 371.029	901015.1	901015.1	106.29	%			12:28:20
1	Ag 328.068†	106274.9	108747.6	625.66	µg/L	625.66	ppb	12:28:25
1	As 188.979†	3033.6	3075.6	1276.8	µg/L	1276.8	ppb	12:28:46
1	B 249.677†	14759.2	14889.3	674.39	µg/L	674.39	ppb	12:28:25
1	Ba 233.527†	294827.0	299256.4	2407.1	µg/L	2407.1	ppb	12:28:25
1	Be 313.107†	823645.4	835327.8	435.39	µg/L	435.39	ppb	12:28:20
1	Cd 226.502†	19642.4	19962.4	542.06	µg/L	542.06	ppb	12:28:25
1	Co 228.616†	17630.5	17951.1	419.62	µg/L	419.62	ppb	12:28:46
1	Cr 267.716†	16856.4	17047.8	357.65	µg/L	357.65	ppb	12:28:25
1	Cu 324.752†	167036.3	165614.0	508.45	µg/L	508.45	ppb	12:28:25
1	Mn 257.610†	1382981.5	1402835.7	1893.1	µg/L	1893.1	ppb	12:28:20
1	Mo 202.031†	3866.4	3936.3	428.84	µg/L	428.84	ppb	12:28:46
1	Ni 231.604†	10691.2	10690.1	514.16	µg/L	514.16	ppb	12:28:46
1	P 214.914†	5796.1	5714.1	3634.4	µg/L	3634.4	ppb	12:28:46
1	Pb 220.353†	4189.1	4243.4	825.18	µg/L	825.18	ppb	12:28:46
1	S 181.975 Axial†	624.4	603.9	1053.4	µg/L	1053.4	ppb	12:28:46
1	Sb 206.836†	747.9	742.8	284.10	µg/L	284.10	ppb	12:28:46
1	Se 196.026†	1113.3	1154.2	815	µg/L	815	ppb	12:28:46
1	SiO2 †	231884.9	234560.2	13681	µg/L	13681	ppb	12:28:25
1	Sn 189.927†	2230.6	2286.1	503.44	µg/L	503.44	ppb	12:28:46
1	Ti 334.940†	2067905.6	2097604.8	2077.2	µg/L	2077.2	ppb	12:28:20
1	Tl 190.801†	2741.1	2810.8	903.69	µg/L	903.69	ppb	12:28:46
1	U 409.014†	630.0	272.0	17.553	µg/L	17.553	ppb	12:28:25
1	V 292.402†	65263.5	66303.2	717.21	µg/L	717.21	ppb	12:28:25
1	Zn 213.857†	49888.7	50324.1	963.04	µg/L	963.04	ppb	12:28:25
1	Si 251.611†	229364.8	232011.2	6350	µg/L	6350	ppb	12:29:57
2	Sc RADIAL	70919.6	70919.6	98.4	%			12:28:00
2	Al 396.153Radial†	281616.5	286251.9	52740	µg/L	52740	ppb	12:27:54
2	Ca 317.933Radial†	124852.7	126668.2	18665	µg/L	18665	ppb	12:28:00
2	Fe 238.204 Radial†	55513.8	56394.1	79266	µg/L	79266	ppb	12:28:00
2	K 766.490 Radial†	52333.4	52124.2	14235	µg/L	14235	ppb	12:28:00
2	Mg 279.077 IEC†	7818.5	7947.0	16415	µg/L	16415	ppb	12:28:00
2	Na 589.592 Radial†	28932.8	28228.2	2895.6	µg/L	2895.6	ppb	12:28:00
2	Sr 421.552†	330074.1	335544.8	844.61	µg/L	844.61	ppb	12:27:54
2	Sc 361.383	1517258.1	1517258.1	99.261	%			12:28:53
2	Y 371.029	907808.6	907808.6	107.09	%			12:28:53
2	Ag 328.068†	106917.2	108631.4	624.96	µg/L	624.96	ppb	12:28:58
2	As 188.979†	3027.2	3047.3	1265.1	µg/L	1265.1	ppb	12:29:18
2	B 249.677†	14882.9	14907.9	675.30	µg/L	675.30	ppb	12:28:58
2	Ba 233.527†	296695.2	299020.9	2405.2	µg/L	2405.2	ppb	12:28:58
2	Be 313.107†	829333.5	835142.5	435.30	µg/L	435.30	ppb	12:28:53
2	Cd 226.502†	19770.6	19950.5	541.75	µg/L	541.75	ppb	12:28:58
2	Co 228.616†	17645.4	17839.4	417.00	µg/L	417.00	ppb	12:29:18
2	Cr 267.716†	16925.2	16996.1	356.57	µg/L	356.57	ppb	12:28:58
2	Cu 324.752†	168396.0	165784.1	508.96	µg/L	508.96	ppb	12:28:58
2	Mn 257.610†	1391762.6	1401749.1	1891.6	µg/L	1891.6	ppb	12:28:53
2	Mo 202.031†	3863.7	3905.8	425.53	µg/L	425.53	ppb	12:29:18
2	Ni 231.604†	10686.2	10608.3	510.23	µg/L	510.23	ppb	12:29:18
2	P 214.914†	5808.6	5685.0	3615.8	µg/L	3615.8	ppb	12:29:18

2	Pb 220.353†	4188.1	4212.3	819.26 µg/L	819.26 ppb	12:29:18
2	S 181.975 Axial†	625.4	600.5	1047.1 µg/L	1047.1 ppb	12:29:18
2	Sb 206.836†	760.3	749.9	286.74 µg/L	286.74 ppb	12:29:18
2	Se 196.026†	1122.9	1155.9	816 µg/L	816 ppb	12:29:18
2	SiO2 †	232568.7	233583.6	13624 µg/L	13624 ppb	12:28:58
2	Sn 189.927†	2211.9	2251.2	495.86 µg/L	495.86 ppb	12:29:18
2	Ti 334.940†	2080524.1	2095465.0	2075.0 µg/L	2075.0 ppb	12:28:53
2	Tl 190.801†	2736.5	2786.5	895.88 µg/L	895.88 ppb	12:29:18
2	U 409.014†	662.8	300.4	18.929 µg/L	18.929 ppb	12:28:58
2	V 292.402†	65629.7	66203.4	716.10 µg/L	716.10 ppb	12:28:58
2	Zn 213.857†	50205.5	50285.0	962.31 µg/L	962.31 ppb	12:28:58
2	Si 251.611†	226349.6	227326.2	6220 µg/L	6220 ppb	12:30:03
3	Sc RADIAL	72777.7	72777.7	101 %		12:28:10
3	Al 396.153Radial†	277956.4	275316.9	50725 µg/L	50725 ppb	12:28:05
3	Ca 317.933Radial†	127657.9	126206.7	18597 µg/L	18597 ppb	12:28:10
3	Fe 238.204 Radial†	56647.7	56076.4	78819 µg/L	78819 ppb	12:28:10
3	K 766.490 Radial†	53655.3	52075.4	14222 µg/L	14222 ppb	12:28:10
3	Mg 279.077 IEC†	7998.1	7922.0	16364 µg/L	16364 ppb	12:28:10
3	Na 589.592 Radial†	29712.1	28249.3	2897.7 µg/L	2897.7 ppb	12:28:10
3	Sr 421.552†	325811.2	322755.0	812.40 µg/L	812.40 ppb	12:28:05
3	Sc 361.383	1500453.8	1500453.8	98.162 %		12:29:25
3	Y 371.029	898078.9	898078.9	105.94 %		12:29:25
3	Ag 328.068†	106473.8	109386.0	629.09 µg/L	629.09 ppb	12:29:31
3	As 188.979†	3022.9	3077.1	1277.4 µg/L	1277.4 ppb	12:29:51
3	B 249.677†	14815.6	15007.3	680.10 µg/L	680.10 ppb	12:29:31
3	Ba 233.527†	295738.2	301393.5	2424.3 µg/L	2424.3 ppb	12:29:31
3	Be 313.107†	819112.0	834086.9	434.75 µg/L	434.75 ppb	12:29:25
3	Cd 226.502†	19685.1	20086.4	545.54 µg/L	545.54 ppb	12:29:31
3	Co 228.616†	17554.7	17946.2	419.51 µg/L	419.51 ppb	12:29:51
3	Cr 267.716†	16899.0	17160.3	360.01 µg/L	360.01 ppb	12:29:31
3	Cu 324.752†	167334.6	166602.8	511.45 µg/L	511.45 ppb	12:29:31
3	Mn 257.610†	1374610.8	1399979.2	1889.2 µg/L	1889.2 ppb	12:29:25
3	Mo 202.031†	3849.2	3934.6	428.64 µg/L	428.64 ppb	12:29:51
3	Ni 231.604†	10636.3	10678.0	513.58 µg/L	513.58 ppb	12:29:51
3	P 214.914†	5781.2	5722.6	3640.7 µg/L	3640.7 ppb	12:29:51
3	Pb 220.353†	4179.1	4250.5	826.44 µg/L	826.44 ppb	12:29:51
3	S 181.975 Axial†	613.5	595.3	1038.6 µg/L	1038.6 ppb	12:29:51
3	Sb 206.836†	752.4	750.4	286.98 µg/L	286.98 ppb	12:29:51
3	Se 196.026†	1138.9	1184.8	836 µg/L	836 ppb	12:29:51
3	SiO2 †	231621.7	235243.0	13721 µg/L	13721 ppb	12:29:31
3	Sn 189.927†	2221.8	2286.3	503.40 µg/L	503.40 ppb	12:29:51
3	Ti 334.940†	2053272.8	2091177.5	2070.8 µg/L	2070.8 ppb	12:29:25
3	Tl 190.801†	2725.3	2806.0	902.15 µg/L	902.15 ppb	12:29:51
3	U 409.014†	644.2	288.9	18.403 µg/L	18.403 ppb	12:29:31
3	V 292.402†	65385.7	66695.3	721.43 µg/L	721.43 ppb	12:29:31
3	Zn 213.857†	49927.8	50568.5	967.84 µg/L	967.84 ppb	12:29:31
3	Si 251.611†	227158.3	230703.9	6320 µg/L	6320 ppb	12:30:08

Mean Data: 1201049244|510923|2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1508076.5	98.661	%	0.5567				0.56%
Sc RADIAL	71873.6	99.7	%	1.29				1.29%
Y 371.029	902300.9	106.44	%	0.589				0.55%
Ag 328.068†	108921.7	626.57	µg/L	2.206	626.57	ppb	2.206	0.35%
Al 396.153Radial†	280840.9	51743	µg/L	1008.0	51743	ppb	1008.0	1.95%
As 188.979†	3066.7	1273.1	µg/L	6.96	1273.1	ppb	6.96	0.55%
B 249.677†	14934.9	676.60	µg/L	3.067	676.60	ppb	3.067	0.45%
Ba 233.527†	299890.3	2412.2	µg/L	10.52	2412.2	ppb	10.52	0.44%
Be 313.107†	834852.4	435.15	µg/L	0.349	435.15	ppb	0.349	0.08%
Ca 317.933Radial†	126763.8	18679	µg/L	90.0	18679	ppb	90.0	0.48%
Cd 226.502†	19999.8	543.12	µg/L	2.103	543.12	ppb	2.103	0.39%
Co 228.616†	17912.2	418.71	µg/L	1.486	418.71	ppb	1.486	0.35%
Cr 267.716†	17068.1	358.08	µg/L	1.762	358.08	ppb	1.762	0.49%
Cu 324.752†	166000.3	509.62	µg/L	1.607	509.62	ppb	1.607	0.32%
Fe 238.204 Radial†	56334.7	79182	µg/L	329.3	79182	ppb	329.3	0.42%
K 766.490 Radial†	52194.7	14254	µg/L	45.4	14254	ppb	45.4	0.32%
Mg 279.077 IEC†	7947.4	16417	µg/L	52.9	16417	ppb	52.9	0.32%
Mn 257.610†	1401521.3	1891.3	µg/L	1.97	1891.3	ppb	1.97	0.10%
Mo 202.031†	3925.6	427.67	µg/L	1.854	427.67	ppb	1.854	0.43%

Na 589.592 Radial†	28311.0	2904.1	µg/L	12.89	2904.1	ppb	12.89	0.44%
Ni 231.604†	10658.8	512.66	µg/L	2.123	512.66	ppb	2.123	0.41%
P 214.914†	5707.2	3630.3	µg/L	12.99	3630.3	ppb	12.99	0.36%
Pb 220.353†	4235.4	823.63	µg/L	3.832	823.63	ppb	3.832	0.47%
S 181.975 Axial†	599.9	1046.4	µg/L	7.45	1046.4	ppb	7.45	0.71%
Sb 206.836†	747.7	285.94	µg/L	1.598	285.94	ppb	1.598	0.56%
Se 196.026†	1165.0	822	µg/L	12.2	822	ppb	12.2	1.49%
SiO2 †	234462.3	13676	µg/L	48.6	13676	ppb	48.6	0.36%
Si 251.611†	230013.8	6300	µg/L	66.2	6300	ppb	66.2	1.05%
Sn 189.927†	2274.5	500.90	µg/L	4.365	500.90	ppb	4.365	0.87%
Sr 421.552†	329190.3	828.61	µg/L	16.107	828.61	ppb	16.107	1.94%
Ti 334.940†	2094749.1	2074.3	µg/L	3.24	2074.3	ppb	3.24	0.16%
Tl 190.801†	2801.1	900.57	µg/L	4.135	900.57	ppb	4.135	0.46%
U 409.014†	287.1	18.295	µg/L	0.6945	18.295	ppb	0.6945	3.80%
V 292.402†	66400.6	718.25	µg/L	2.810	718.25	ppb	2.810	0.39%
Zn 213.857†	50392.5	964.40	µg/L	3.002	964.40	ppb	3.002	0.31%

Sequence No.: 11
Sample ID: 157896001|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 3/14/2006 12:32:18
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896001|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70227.1	70227.1	97.4	%			12:34:05
1	Al 396.153Radial†	54083.4	55486.7	10226	µg/L	10226	ppb	12:34:05
1	Ca 317.933Radial†	74442.8	76168.4	11224	µg/L	11224	ppb	12:34:05
1	Fe 238.204 Radial†	15278.7	15644.6	21990	µg/L	21990	ppb	12:34:25
1	K 766.490 Radial†	24367.5	23938.7	6537.6	µg/L	6537.6	ppb	12:34:05
1	Mg 279.077 IEC†	572.9	587.0	1200.4	µg/L	1200.4	ppb	12:34:25
1	Na 589.592 Radial†	43277.7	43244.9	4436.0	µg/L	4436.0	ppb	12:34:05
1	Sr 421.552†	3019.0	3094.8	7.4792	µg/L	7.4792	ppb	12:34:05
1	Sc 361.383	1494531.6	1494531.6	97.774	%			12:35:26
1	Y 371.029	1229120.5	1229120.5	144.99	%			12:35:26
1	Ag 328.068†	-2009.6	-1136.8	-1.4240	µg/L	-1.4240	ppb	12:35:31
1	As 188.979†	38.1	36.5	17.279	µg/L	17.279	ppb	12:35:51
1	B 249.677†	391.9	315.0	8.3306	µg/L	8.3306	ppb	12:35:31
1	Ba 233.527†	5041.8	5274.2	42.187	µg/L	42.187	ppb	12:35:51
1	Be 313.107†	8659.9	8494.0	4.3383	µg/L	4.3383	ppb	12:35:31
1	Cd 226.502†	17.2	50.3	-0.7790	µg/L	-0.7790	ppb	12:35:51
1	Co 228.616†	123.2	188.7	3.3725	µg/L	3.3725	ppb	12:35:51
1	Cr 267.716†	776.4	739.0	15.435	µg/L	15.435	ppb	12:35:51
1	Cu 324.752†	7702.8	4013.0	12.736	µg/L	12.736	ppb	12:35:31
1	Mn 257.610†	1096361.4	1120945.3	1508.4	µg/L	1508.4	ppb	12:35:26
1	Mo 202.031†	207.2	225.2	24.959	µg/L	24.959	ppb	12:35:51
1	Ni 231.604†	251.7	100.0	5.0221	µg/L	5.0221	ppb	12:35:51
1	P 214.914†	937.7	792.2	491.60	µg/L	491.60	ppb	12:35:51
1	Pb 220.353†	698.5	707.5	137.85	µg/L	137.85	ppb	12:35:51
1	S 181.975 Axial†	59.5	31.3	52.920	µg/L	52.920	ppb	12:35:51
1	Sb 206.836†	17.1	1.4	0.7055	µg/L	0.7055	ppb	12:35:51
1	Se 196.026†	-25.4	-1.3	-0.767	µg/L	-0.767	ppb	12:35:51
1	SiO2 †	443745.7	453130.3	26430	µg/L	26430	ppb	12:35:26
1	Sn 189.927†	-39.6	-17.7	-1.7458	µg/L	-1.7458	ppb	12:35:51
1	Ti 334.940†	1713867.4	1752335.1	1735.6	µg/L	1735.6	ppb	12:35:26
1	Tl 190.801†	-86.4	-58.8	-18.116	µg/L	-18.116	ppb	12:35:51
1	U 409.014†	848.4	500.5	24.358	µg/L	24.358	ppb	12:35:26
1	V 292.402†	1002.3	1110.4	11.999	µg/L	11.999	ppb	12:35:51
1	Zn 213.857†	8089.5	7979.5	151.66	µg/L	151.66	ppb	12:35:31
1	Si 251.611†	443655.3	453045.8	12400	µg/L	12400	ppb	12:37:04
2	Sc RADIAL	70021.5	70021.5	97.1	%			12:34:30
2	Al 396.153Radial†	54020.6	55585.0	10244	µg/L	10244	ppb	12:34:30
2	Ca 317.933Radial†	74308.3	76254.3	11236	µg/L	11236	ppb	12:34:30
2	Fe 238.204 Radial†	15280.6	15692.6	22057	µg/L	22057	ppb	12:34:50
2	K 766.490 Radial†	24331.5	23975.1	6547.6	µg/L	6547.6	ppb	12:34:30
2	Mg 279.077 IEC†	572.6	588.4	1203.2	µg/L	1203.2	ppb	12:34:50
2	Na 589.592 Radial†	43170.2	43264.7	4438.0	µg/L	4438.0	ppb	12:34:30
2	Sr 421.552†	2996.2	3080.3	7.4425	µg/L	7.4425	ppb	12:34:30
2	Sc 361.383	1491175.8	1491175.8	97.555	%			12:35:59
2	Y 371.029	1227839.7	1227839.7	144.84	%			12:35:59
2	Ag 328.068†	-2052.7	-1185.6	-1.6813	µg/L	-1.6813	ppb	12:36:04
2	As 188.979†	46.0	44.7	20.657	µg/L	20.657	ppb	12:36:24
2	B 249.677†	377.1	300.8	7.6458	µg/L	7.6458	ppb	12:36:04
2	Ba 233.527†	5027.4	5271.0	42.160	µg/L	42.160	ppb	12:36:24
2	Be 313.107†	8707.7	8563.0	4.3740	µg/L	4.3740	ppb	12:36:04
2	Cd 226.502†	13.8	46.9	-0.8790	µg/L	-0.8790	ppb	12:36:24
2	Co 228.616†	126.3	192.1	3.4515	µg/L	3.4515	ppb	12:36:24
2	Cr 267.716†	765.6	729.7	15.239	µg/L	15.239	ppb	12:36:24
2	Cu 324.752†	7832.2	4163.4	13.189	µg/L	13.189	ppb	12:36:04
2	Mn 257.610†	1095293.9	1122374.5	1510.3	µg/L	1510.3	ppb	12:35:59
2	Mo 202.031†	214.7	233.5	25.852	µg/L	25.852	ppb	12:36:24
2	Ni 231.604†	258.8	107.9	5.4031	µg/L	5.4031	ppb	12:36:24
2	P 214.914†	934.8	791.4	491.01	µg/L	491.01	ppb	12:36:24

2	Pb 220.353†	705.2	716.0	139.49	µg/L	139.49 ppb	12:36:24
2	S 181.975 Axial†	58.9	30.8	52.083	µg/L	52.083 ppb	12:36:24
2	Sb 206.836†	8.1	-7.8	-2.7474	µg/L	-2.7474 ppb	12:36:24
2	Se 196.026†	-30.8	-6.9	-4.68	µg/L	-4.68 ppb	12:36:24
2	SiO2 †	443612.8	454015.4	26481	µg/L	26481 ppb	12:35:59
2	Sn 189.927†	-38.9	-17.0	-1.5990	µg/L	-1.5990 ppb	12:36:24
2	Ti 334.940†	1712979.7	1755370.1	1738.6	µg/L	1738.6 ppb	12:35:59
2	Tl 190.801†	-90.2	-62.8	-19.404	µg/L	-19.404 ppb	12:36:24
2	U 409.014†	1003.5	661.3	32.168	µg/L	32.168 ppb	12:35:59
2	V 292.402†	967.2	1076.7	11.653	µg/L	11.653 ppb	12:36:24
2	Zn 213.857†	8186.4	8097.4	153.93	µg/L	153.93 ppb	12:36:04
2	Si 251.611†	440734.8	451073.2	12300	µg/L	12300 ppb	12:37:10
3	Sc RADIAL	70047.0	70047.0	97.2	%		12:34:55
3	Al 396.153Radial†	53811.9	55349.9	10201	µg/L	10201 ppb	12:34:55
3	Ca 317.933Radial†	74031.7	75941.7	11190	µg/L	11190 ppb	12:34:55
3	Fe 238.204 Radial†	15192.3	15596.0	21921	µg/L	21921 ppb	12:35:16
3	K 766.490 Radial†	24169.2	23798.9	6499.5	µg/L	6499.5 ppb	12:34:55
3	Mg 279.077 IEC†	566.4	581.8	1189.6	µg/L	1189.6 ppb	12:35:16
3	Na 589.592 Radial†	43012.1	43085.7	4419.6	µg/L	4419.6 ppb	12:34:55
3	Sr 421.552†	3014.0	3097.6	7.4873	µg/L	7.4873 ppb	12:34:55
3	Sc 361.383	1505287.1	1505287.1	98.478	%		12:36:32
3	Y 371.029	1237246.7	1237246.7	145.95	%		12:36:32
3	Ag 328.068†	-2019.3	-1132.0	-1.4117	µg/L	-1.4117 ppb	12:36:37
3	As 188.979†	46.2	44.5	20.554	µg/L	20.554 ppb	12:36:57
3	B 249.677†	376.4	296.5	7.4823	µg/L	7.4823 ppb	12:36:37
3	Ba 233.527†	5043.3	5238.8	41.903	µg/L	41.903 ppb	12:36:57
3	Be 313.107†	8684.4	8455.5	4.3184	µg/L	4.3184 ppb	12:36:37
3	Cd 226.502†	19.2	52.3	-0.7186	µg/L	-0.7186 ppb	12:36:57
3	Co 228.616†	126.3	191.0	3.4285	µg/L	3.4285 ppb	12:36:57
3	Cr 267.716†	779.7	736.6	15.385	µg/L	15.385 ppb	12:36:57
3	Cu 324.752†	7771.9	4026.8	12.774	µg/L	12.774 ppb	12:36:37
3	Mn 257.610†	1100551.2	1117187.8	1503.4	µg/L	1503.4 ppb	12:36:32
3	Mo 202.031†	206.9	223.4	24.760	µg/L	24.760 ppb	12:36:57
3	Ni 231.604†	247.8	94.2	4.7435	µg/L	4.7435 ppb	12:36:57
3	P 214.914†	945.2	793.0	492.20	µg/L	492.20 ppb	12:36:57
3	Pb 220.353†	689.5	693.2	135.08	µg/L	135.08 ppb	12:36:57
3	S 181.975 Axial†	58.1	29.4	49.651	µg/L	49.651 ppb	12:36:57
3	Sb 206.836†	10.9	-5.0	-1.7088	µg/L	-1.7088 ppb	12:36:57
3	Se 196.026†	-18.9	5.4	4.04	µg/L	4.04 ppb	12:36:57
3	SiO2 †	446007.7	452184.5	26375	µg/L	26375 ppb	12:36:32
3	Sn 189.927†	-33.6	-11.2	-0.3500	µg/L	-0.3500 ppb	12:36:57
3	Ti 334.940†	1722717.8	1748797.9	1732.1	µg/L	1732.1 ppb	12:36:32
3	Tl 190.801†	-94.7	-66.5	-20.612	µg/L	-20.612 ppb	12:36:57
3	U 409.014†	908.1	554.9	27.000	µg/L	27.000 ppb	12:36:32
3	V 292.402†	1019.4	1120.4	12.108	µg/L	12.108 ppb	12:36:57
3	Zn 213.857†	8119.0	7950.2	151.10	µg/L	151.10 ppb	12:36:37
3	Si 251.611†	443227.2	449368.9	12300	µg/L	12300 ppb	12:37:16

Mean Data: 157896001|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1496998.2	97.936	%	0.4823				0.49%
Sc RADIAL	70098.5	97.2	%	0.16				0.16%
Y 371.029	1231402.3	145.26	%	0.602				0.41%
Ag 328.068†	-1151.5	-1.5057	µg/L	0.15223	-1.5057	ppb	0.15223	10.11%
Al 396.153Radial†	55473.9	10223	µg/L	21.7	10223	ppb	21.7	0.21%
As 188.979†	41.9	19.496	µg/L	1.9213	19.496	ppb	1.9213	9.85%
B 249.677†	304.1	7.8195	µg/L	0.45008	7.8195	ppb	0.45008	5.76%
Ba 233.527†	5261.3	42.083	µg/L	0.1567	42.083	ppb	0.1567	0.37%
Be 313.107†	8504.2	4.3435	µg/L	0.02819	4.3435	ppb	0.02819	0.65%
Ca 317.933Radial†	76121.4	11217	µg/L	23.8	11217	ppb	23.8	0.21%
Cd 226.502†	49.8	-0.7922	µg/L	0.08105	-0.7922	ppb	0.08105	10.23%
Co 228.616†	190.6	3.4175	µg/L	0.04064	3.4175	ppb	0.04064	1.19%
Cr 267.716†	735.1	15.353	µg/L	0.1015	15.353	ppb	0.1015	0.66%
Cu 324.752†	4067.7	12.900	µg/L	0.2514	12.900	ppb	0.2514	1.95%
Fe 238.204 Radial†	15644.4	21989	µg/L	67.9	21989	ppb	67.9	0.31%
K 766.490 Radial†	23904.2	6528.2	µg/L	25.40	6528.2	ppb	25.40	0.39%
Mg 279.077 IEC†	585.7	1197.8	µg/L	7.19	1197.8	ppb	7.19	0.60%
Mn 257.610†	1120169.2	1507.4	µg/L	3.61	1507.4	ppb	3.61	0.24%
Mo 202.031†	227.4	25.190	µg/L	0.5817	25.190	ppb	0.5817	2.31%

Na 589.592 Radial†	43198.4	4431.2	µg/L	10.07	4431.2	ppb	10.07	0.23%
Ni 231.604†	100.7	5.0562	µg/L	0.33109	5.0562	ppb	0.33109	6.55%
P 214.914†	792.2	491.60	µg/L	0.595	491.60	ppb	0.595	0.12%
Pb 220.353†	705.6	137.47	µg/L	2.229	137.47	ppb	2.229	1.62%
S 181.975 Axial†	30.5	51.552	µg/L	1.6983	51.552	ppb	1.6983	3.29%
Sb 206.836†	-3.8	-1.2502	µg/L	1.77154	-1.2502	ppb	1.77154	141.70%
Se 196.026†	-0.9	-0.470	µg/L	4.3681	-0.470	ppb	4.3681	928.51%
SiO2 †	453110.0	26429	µg/L	53.4	26429	ppb	53.4	0.20%
Si 251.611†	451162.6	12400	µg/L	50.4	12400	ppb	50.4	0.41%
Sn 189.927†	-15.3	-1.2316	µg/L	0.76703	-1.2316	ppb	0.76703	62.28%
Sr 421.552†	3090.9	7.4697	µg/L	0.02385	7.4697	ppb	0.02385	0.32%
Ti 334.940†	1752167.7	1735.4	µg/L	3.26	1735.4	ppb	3.26	0.19%
Tl 190.801†	-62.7	-19.377	µg/L	1.2483	-19.377	ppb	1.2483	6.44%
U 409.014†	572.2	27.842	µg/L	3.9728	27.842	ppb	3.9728	14.27%
V 292.402†	1102.5	11.920	µg/L	0.2373	11.920	ppb	0.2373	1.99%
Zn 213.857†	8009.0	152.23	µg/L	1.499	152.23	ppb	1.499	0.98%

Sequence No.: 12
Sample ID: 1201049245|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 3/14/2006 12:39:25
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049245|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71244.4	71244.4	98.8	%			12:41:09
1	Al 396.153Radial†	47455.5	47986.7	8843.5	µg/L	8843.5	ppb	12:41:09
1	Ca 317.933Radial†	62467.6	62958.8	9277.1	µg/L	9277.1	ppb	12:41:09
1	Fe 238.204 Radial†	17109.8	17273.7	24279	µg/L	24279	ppb	12:41:09
1	K 766.490 Radial†	20742.9	19913.5	5438.4	µg/L	5438.4	ppb	12:41:09
1	Mg 279.077 IEC†	426.0	429.9	873.29	µg/L	873.29	ppb	12:41:29
1	Na 589.592 Radial†	37055.1	36313.5	3725.0	µg/L	3725.0	ppb	12:41:09
1	Sr 421.552†	3580.0	3618.2	8.8524	µg/L	8.8524	ppb	12:41:09
1	Sc 361.383	1503792.0	1503792.0	98.380	%			12:42:30
1	Y 371.029	1213990.3	1213990.3	143.21	%			12:42:30
1	Ag 328.068†	-2039.1	-1154.1	-1.0036	µg/L	-1.0036	ppb	12:42:35
1	As 188.979†	41.6	39.9	18.995	µg/L	18.995	ppb	12:42:55
1	B 249.677†	395.8	316.6	7.7257	µg/L	7.7257	ppb	12:42:35
1	Ba 233.527†	5717.3	5929.0	47.430	µg/L	47.430	ppb	12:42:35
1	Be 313.107†	7949.3	7717.2	3.9239	µg/L	3.9239	ppb	12:42:35
1	Cd 226.502†	25.9	59.1	-0.7632	µg/L	-0.7632	ppb	12:42:55
1	Co 228.616†	147.3	212.5	3.8137	µg/L	3.8137	ppb	12:42:55
1	Cr 267.716†	804.1	762.2	15.918	µg/L	15.918	ppb	12:42:55
1	Cu 324.752†	7484.7	3742.7	11.949	µg/L	11.949	ppb	12:42:35
1	Mn 257.610†	1207042.5	1226543.5	1650.5	µg/L	1650.5	ppb	12:42:30
1	Mo 202.031†	194.3	210.8	23.453	µg/L	23.453	ppb	12:42:55
1	Ni 231.604†	308.7	156.3	7.6922	µg/L	7.6922	ppb	12:42:55
1	P 214.914†	1018.1	868.1	538.48	µg/L	538.48	ppb	12:42:55
1	Pb 220.353†	698.5	703.1	136.86	µg/L	136.86	ppb	12:42:55
1	S 181.975 Axial†	54.2	25.4	42.976	µg/L	42.976	ppb	12:42:55
1	Sb 206.836†	15.9	0.1	0.2216	µg/L	0.2216	ppb	12:42:55
1	Se 196.026†	-19.9	4.4	3.32	µg/L	3.32	ppb	12:42:55
1	SiO2 †	365997.2	371307.0	21657	µg/L	21657	ppb	12:42:30
1	Sn 189.927†	-28.7	-6.3	0.6405	µg/L	0.6405	ppb	12:42:55
1	Ti 334.940†	1902532.6	1933312.2	1914.7	µg/L	1914.7	ppb	12:42:30
1	Tl 190.801†	-97.7	-69.7	-21.551	µg/L	-21.551	ppb	12:42:55
1	U 409.014†	1200.3	852.8	41.492	µg/L	41.492	ppb	12:42:30
1	V 292.402†	1341.4	1448.8	15.616	µg/L	15.616	ppb	12:42:55
1	Zn 213.857†	8379.5	8223.3	156.20	µg/L	156.20	ppb	12:42:35
1	Si 251.611†	364301.8	369591.6	10100	µg/L	10100	ppb	12:44:07
2	Sc RADIAL	70087.3	70087.3	97.2	%			12:41:34
2	Al 396.153Radial†	47302.3	48622.0	8960.6	µg/L	8960.6	ppb	12:41:34
2	Ca 317.933Radial†	62298.3	63828.2	9405.2	µg/L	9405.2	ppb	12:41:34
2	Fe 238.204 Radial†	17073.4	17522.1	24628	µg/L	24628	ppb	12:41:34
2	K 766.490 Radial†	20566.1	20078.2	5483.3	µg/L	5483.3	ppb	12:41:34
2	Mg 279.077 IEC†	429.5	440.6	895.30	µg/L	895.30	ppb	12:41:54
2	Na 589.592 Radial†	36850.2	36721.8	3766.8	µg/L	3766.8	ppb	12:41:34
2	Sr 421.552†	3517.8	3614.0	8.8383	µg/L	8.8383	ppb	12:41:34
2	Sc 361.383	1492854.4	1492854.4	97.665	%			12:43:03
2	Y 371.029	1206423.7	1206423.7	142.32	%			12:43:03
2	Ag 328.068†	-2059.7	-1190.4	-1.1293	µg/L	-1.1293	ppb	12:43:08
2	As 188.979†	36.3	34.7	16.886	µg/L	16.886	ppb	12:43:28
2	B 249.677†	357.7	280.5	5.9329	µg/L	5.9329	ppb	12:43:08
2	Ba 233.527†	5707.1	5961.1	47.684	µg/L	47.684	ppb	12:43:08
2	Be 313.107†	7973.6	7801.2	3.9674	µg/L	3.9674	ppb	12:43:08
2	Cd 226.502†	25.4	58.7	-0.8079	µg/L	-0.8079	ppb	12:43:28
2	Co 228.616†	152.2	218.5	3.9472	µg/L	3.9472	ppb	12:43:28
2	Cr 267.716†	791.3	755.1	15.769	µg/L	15.769	ppb	12:43:28
2	Cu 324.752†	7501.8	3816.0	12.183	µg/L	12.183	ppb	12:43:08
2	Mn 257.610†	1200770.5	1229110.7	1654.0	µg/L	1654.0	ppb	12:43:03
2	Mo 202.031†	189.0	206.8	23.030	µg/L	23.030	ppb	12:43:28
2	Ni 231.604†	305.4	155.2	7.6409	µg/L	7.6409	ppb	12:43:28
2	P 214.914†	1021.2	878.8	545.11	µg/L	545.11	ppb	12:43:28

2	Pb 220.353†	702.2	712.1	138.60	µg/L	138.60 ppb	12:43:28
2	S 181.975 Axial†	52.6	24.2	40.731	µg/L	40.731 ppb	12:43:28
2	Sb 206.836†	14.9	-0.8	-0.1244	µg/L	-0.1244 ppb	12:43:28
2	Se 196.026†	-25.5	-1.5	-0.839	µg/L	-0.839 ppb	12:43:28
2	SiO2 †	363866.3	371850.8	21689	µg/L	21689 ppb	12:43:03
2	Sn 189.927†	-33.8	-11.7	-0.5046	µg/L	-0.5046 ppb	12:43:28
2	Ti 334.940†	1892859.9	1937576.9	1919.0	µg/L	1919.0 ppb	12:43:03
2	Tl 190.801†	-103.4	-76.2	-23.637	µg/L	-23.637 ppb	12:43:28
2	U 409.014†	1207.9	869.5	42.301	µg/L	42.301 ppb	12:43:03
2	V 292.402†	1303.7	1420.1	15.304	µg/L	15.304 ppb	12:43:28
2	Zn 213.857†	8373.5	8279.6	157.25	µg/L	157.25 ppb	12:43:08
2	Si 251.611†	363323.4	371302.8	10200	µg/L	10200 ppb	12:44:13
3	Sc RADIAL	70953.5	70953.5	98.4	%		12:41:59
3	Al 396.153Radial†	47571.5	48301.5	8901.5	µg/L	8901.5 ppb	12:41:59
3	Ca 317.933Radial†	62718.0	63472.4	9352.8	µg/L	9352.8 ppb	12:41:59
3	Fe 238.204 Radial†	17175.4	17411.3	24473	µg/L	24473 ppb	12:41:59
3	K 766.490 Radial†	20830.1	20088.2	5486.1	µg/L	5486.1 ppb	12:41:59
3	Mg 279.077 IEC†	419.1	424.6	862.27	µg/L	862.27 ppb	12:42:20
3	Na 589.592 Radial†	37141.3	36554.9	3749.7	µg/L	3749.7 ppb	12:41:59
3	Sr 421.552†	3585.4	3638.5	8.9014	µg/L	8.9014 ppb	12:41:59
3	Sc 361.383	1496463.7	1496463.7	97.901	%		12:43:36
3	Y 371.029	1207535.3	1207535.3	142.45	%		12:43:36
3	Ag 328.068†	-2047.9	-1173.3	-1.0679	µg/L	-1.0679 ppb	12:43:41
3	As 188.979†	46.1	44.7	20.987	µg/L	20.987 ppb	12:44:01
3	B 249.677†	380.6	303.0	7.0342	µg/L	7.0342 ppb	12:43:41
3	Ba 233.527†	5716.7	5956.9	47.652	µg/L	47.652 ppb	12:43:41
3	Be 313.107†	7916.5	7723.2	3.9272	µg/L	3.9272 ppb	12:43:41
3	Cd 226.502†	24.3	57.6	-0.8238	µg/L	-0.8238 ppb	12:44:01
3	Co 228.616†	150.0	216.0	3.8927	µg/L	3.8927 ppb	12:44:01
3	Cr 267.716†	797.0	759.0	15.851	µg/L	15.851 ppb	12:44:01
3	Cu 324.752†	7523.9	3820.1	12.206	µg/L	12.206 ppb	12:43:41
3	Mn 257.610†	1198100.9	1223418.4	1646.4	µg/L	1646.4 ppb	12:43:36
3	Mo 202.031†	192.6	210.1	23.383	µg/L	23.383 ppb	12:44:01
3	Ni 231.604†	305.4	154.5	7.6071	µg/L	7.6071 ppb	12:44:01
3	P 214.914†	1018.8	873.8	542.03	µg/L	542.03 ppb	12:44:01
3	Pb 220.353†	703.4	711.6	138.50	µg/L	138.50 ppb	12:44:01
3	S 181.975 Axial†	55.8	27.3	46.308	µg/L	46.308 ppb	12:44:01
3	Sb 206.836†	10.5	-5.4	-1.8503	µg/L	-1.8503 ppb	12:44:01
3	Se 196.026†	-28.3	-4.3	-2.86	µg/L	-2.86 ppb	12:44:01
3	SiO2 †	363722.4	370805.2	21628	µg/L	21628 ppb	12:43:36
3	Sn 189.927†	-29.4	-7.1	0.4844	µg/L	0.4844 ppb	12:44:01
3	Ti 334.940†	1889973.1	1929953.6	1911.4	µg/L	1911.4 ppb	12:43:36
3	Tl 190.801†	-99.1	-71.6	-22.161	µg/L	-22.161 ppb	12:44:01
3	U 409.014†	904.5	556.6	27.106	µg/L	27.106 ppb	12:43:36
3	V 292.402†	1322.5	1436.1	15.464	µg/L	15.464 ppb	12:44:01
3	Zn 213.857†	8329.1	8213.5	155.98	µg/L	155.98 ppb	12:43:41
3	Si 251.611†	363937.4	371032.7	10200	µg/L	10200 ppb	12:44:18

Mean Data: 1201049245|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1497703.4	97.982	%	0.3646				0.37%
Sc RADIAL	70761.7	98.1	%	0.83				0.85%
Y 371.029	1209316.4	142.66	%	0.482				0.34%
Ag 328.068†	-1172.6	-1.0670	µg/L	0.06286	-1.0670	ppb	0.06286	5.89%
Al 396.153Radial†	48303.4	8901.9	µg/L	58.55	8901.9	ppb	58.55	0.66%
As 188.979†	39.8	18.956	µg/L	2.0510	18.956	ppb	2.0510	10.82%
B 249.677†	300.0	6.8976	µg/L	0.90418	6.8976	ppb	0.90418	13.11%
Ba 233.527†	5949.0	47.588	µg/L	0.1383	47.588	ppb	0.1383	0.29%
Be 313.107†	7747.2	3.9395	µg/L	0.02425	3.9395	ppb	0.02425	0.62%
Ca 317.933Radial†	63419.8	9345.0	µg/L	64.40	9345.0	ppb	64.40	0.69%
Cd 226.502†	58.4	-0.7983	µg/L	0.03143	-0.7983	ppb	0.03143	3.94%
Co 228.616†	215.7	3.8846	µg/L	0.06710	3.8846	ppb	0.06710	1.73%
Cr 267.716†	758.8	15.846	µg/L	0.0747	15.846	ppb	0.0747	0.47%
Cu 324.752†	3793.0	12.112	µg/L	0.1422	12.112	ppb	0.1422	1.17%
Fe 238.204 Radial†	17402.4	24460	µg/L	174.9	24460	ppb	174.9	0.72%
K 766.490 Radial†	20026.6	5469.3	µg/L	26.79	5469.3	ppb	26.79	0.49%
Mg 279.077 IEC†	431.7	876.96	µg/L	16.817	876.96	ppb	16.817	1.92%
Mn 257.610†	1226357.5	1650.3	µg/L	3.84	1650.3	ppb	3.84	0.23%
Mo 202.031†	209.2	23.289	µg/L	0.2267	23.289	ppb	0.2267	0.97%

Na 589.592 Radial†	36530.1	3747.2	µg/L	21.06	3747.2	ppb	21.06	0.56%
Ni 231.604†	155.4	7.6467	µg/L	0.04286	7.6467	ppb	0.04286	0.56%
P 214.914†	873.6	541.87	µg/L	3.316	541.87	ppb	3.316	0.61%
Pb 220.353†	708.9	137.98	µg/L	0.975	137.98	ppb	0.975	0.71%
S 181.975 Axial†	25.7	43.338	µg/L	2.8060	43.338	ppb	2.8060	6.47%
Sb 206.836†	-2.0	-0.5844	µg/L	1.10989	-0.5844	ppb	1.10989	189.93%
Se 196.026†	-0.5	-0.128	µg/L	3.1500	-0.128	ppb	3.1500	>999.9%
SiO2 †	371321.0	21658	µg/L	30.5	21658	ppb	30.5	0.14%
Si 251.611†	370642.4	10100	µg/L	25.2	10100	ppb	25.2	0.25%
Sn 189.927†	-8.4	0.2068	µg/L	0.62100	0.2068	ppb	0.62100	300.34%
Sr 421.552†	3623.6	8.8640	µg/L	0.03313	8.8640	ppb	0.03313	0.37%
Ti 334.940†	1933614.3	1915.0	µg/L	3.78	1915.0	ppb	3.78	0.20%
Tl 190.801†	-72.5	-22.450	µg/L	1.0727	-22.450	ppb	1.0727	4.78%
U 409.014†	759.6	36.967	µg/L	8.5489	36.967	ppb	8.5489	23.13%
V 292.402†	1435.0	15.461	µg/L	0.1561	15.461	ppb	0.1561	1.01%
Zn 213.857†	8238.8	156.48	µg/L	0.675	156.48	ppb	0.675	0.43%

Sequence No.: 13
Sample ID: 1201049246|510923|1
Nebulizer Back Pressure: 234.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 3/14/2006 12:46:27
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049246|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	69556.3	69556.3	96.5	%			12:48:15
1	Al 396.153Radial†	99054.5	102635.1	18892	µg/L	18892	ppb	12:48:15
1	Ca 317.933Radial†	115455.4	119415.4	17596	µg/L	17596	ppb	12:48:15
1	Fe 238.204 Radial†	16215.7	16767.1	23567	µg/L	23567	ppb	12:48:35
1	K 766.490 Radial†	51524.0	52328.0	14291	µg/L	14291	ppb	12:48:15
1	Mg 279.077 IEC†	3169.9	3284.4	6803.6	µg/L	6803.6	ppb	12:48:35
1	Na 589.592 Radial†	108685.1	111469.0	11434	µg/L	11434	ppb	12:48:15
1	Sr 421.552†	205081.3	212564.8	534.89	µg/L	534.89	ppb	12:48:15
1	Sc 361.383	1487221.2	1487221.2	97.296	%			12:49:37
1	Y 371.029	1228707.1	1228707.1	144.95	%			12:49:37
1	Ag 328.068†	81990.9	85187.9	481.48	µg/L	481.48	ppb	12:49:43
1	As 188.979†	1238.2	1270.2	530.15	µg/L	530.15	ppb	12:50:03
1	B 249.677†	10551.1	10758.6	498.58	µg/L	498.58	ppb	12:49:43
1	Ba 233.527†	67850.8	69853.9	562.19	µg/L	562.19	ppb	12:49:43
1	Be 313.107†	957258.6	983497.0	512.64	µg/L	512.64	ppb	12:49:37
1	Cd 226.502†	17270.3	17783.0	487.53	µg/L	487.53	ppb	12:49:43
1	Co 228.616†	20615.3	21250.9	499.11	µg/L	499.11	ppb	12:49:43
1	Cr 267.716†	23952.1	24562.6	515.54	µg/L	515.54	ppb	12:49:43
1	Cu 324.752†	171621.5	172525.6	527.19	µg/L	527.19	ppb	12:49:37
1	Mn 257.610†	1402368.6	1440968.0	1938.6	µg/L	1938.6	ppb	12:49:37
1	Mo 202.031†	4894.4	5043.7	547.46	µg/L	547.46	ppb	12:50:03
1	Ni 231.604†	10184.5	10310.1	496.18	µg/L	496.18	ppb	12:49:43
1	P 214.914†	1566.0	1442.7	915.12	µg/L	915.12	ppb	12:50:03
1	Pb 220.353†	3184.5	3266.1	633.43	µg/L	633.43	ppb	12:50:03
1	S 181.975 Axial†	2709.3	2754.9	4841.3	µg/L	4841.3	ppb	12:50:03
1	Sb 206.836†	1239.7	1258.1	479.31	µg/L	479.31	ppb	12:50:03
1	Se 196.026†	607.0	648.4	460	µg/L	460	ppb	12:50:03
1	SiO2 †	627486.4	644207.9	37575	µg/L	37575	ppb	12:49:37
1	Sn 189.927†	2162.6	2245.6	490.73	µg/L	490.73	ppb	12:50:03
1	Ti 334.940†	2334178.1	2398500.1	2375.2	µg/L	2375.2	ppb	12:49:37
1	Tl 190.801†	1392.9	1461.2	470.20	µg/L	470.20	ppb	12:50:03
1	U 409.014†	11574.3	11528.7	562.74	µg/L	562.74	ppb	12:49:37
1	V 292.402†	47329.4	48729.9	530.48	µg/L	530.48	ppb	12:49:43
1	Zn 213.857†	31713.8	32300.9	620.58	µg/L	620.58	ppb	12:49:43
1	Si 251.611†	623413.7	640029.9	17500	µg/L	17500	ppb	12:51:17
2	Sc RADIAL	69230.8	69230.8	96.0	%			12:48:41
2	Al 396.153Radial†	98436.9	102474.8	18862	µg/L	18862	ppb	12:48:41
2	Ca 317.933Radial†	114806.4	119302.2	17579	µg/L	17579	ppb	12:48:41
2	Fe 238.204 Radial†	16146.5	16774.1	23577	µg/L	23577	ppb	12:49:01
2	K 766.490 Radial†	51313.7	52360.1	14300	µg/L	14300	ppb	12:48:41
2	Mg 279.077 IEC†	3153.1	3282.3	6799.0	µg/L	6799.0	ppb	12:49:01
2	Na 589.592 Radial†	108258.9	111554.8	11443	µg/L	11443	ppb	12:48:41
2	Sr 421.552†	203929.2	212364.4	534.39	µg/L	534.39	ppb	12:48:41
2	Sc 361.383	1497350.0	1497350.0	97.959	%			12:50:11
2	Y 371.029	1237338.1	1237338.1	145.96	%			12:50:11
2	Ag 328.068†	81810.0	84433.1	477.26	µg/L	477.26	ppb	12:50:16
2	As 188.979†	1232.6	1255.8	524.21	µg/L	524.21	ppb	12:50:36
2	B 249.677†	10530.3	10664.0	494.14	µg/L	494.14	ppb	12:50:16
2	Ba 233.527†	67719.0	69247.7	557.31	µg/L	557.31	ppb	12:50:16
2	Be 313.107†	964506.4	984240.5	513.03	µg/L	513.03	ppb	12:50:11
2	Cd 226.502†	17225.8	17617.5	482.97	µg/L	482.97	ppb	12:50:16
2	Co 228.616†	20528.2	21018.7	493.64	µg/L	493.64	ppb	12:50:16
2	Cr 267.716†	24015.5	24460.9	513.40	µg/L	513.40	ppb	12:50:16
2	Cu 324.752†	172855.4	172592.0	527.40	µg/L	527.40	ppb	12:50:11
2	Mn 257.610†	1411381.9	1440419.2	1937.8	µg/L	1937.8	ppb	12:50:11
2	Mo 202.031†	4862.8	4977.5	540.28	µg/L	540.28	ppb	12:50:36
2	Ni 231.604†	10153.3	10207.4	491.24	µg/L	491.24	ppb	12:50:16
2	P 214.914†	1571.0	1436.9	911.45	µg/L	911.45	ppb	12:50:36

2	Pb 220.353†	3148.5	3207.2	622.02 µg/L	622.02 ppb	12:50:36
2	S 181.975 Axial†	2702.5	2729.2	4796.0 µg/L	4796.0 ppb	12:50:36
2	Sb 206.836†	1223.5	1232.9	469.77 µg/L	469.77 ppb	12:50:36
2	Se 196.026†	602.7	639.9	454 µg/L	454 ppb	12:50:36
2	SiO2 †	631940.4	644392.1	37586 µg/L	37586 ppb	12:50:11
2	Sn 189.927†	2153.7	2221.4	485.47 µg/L	485.47 ppb	12:50:36
2	Ti 334.940†	2350449.9	2398882.5	2375.6 µg/L	2375.6 ppb	12:50:11
2	Tl 190.801†	1383.6	1442.1	464.05 µg/L	464.05 ppb	12:50:36
2	U 409.014†	11642.4	11517.7	562.18 µg/L	562.18 ppb	12:50:11
2	V 292.402†	47189.2	48257.7	525.33 µg/L	525.33 ppb	12:50:16
2	Zn 213.857†	31706.4	32072.9	616.16 µg/L	616.16 ppb	12:50:16
2	Si 251.611†	625803.1	638134.8	17500 µg/L	17500 ppb	12:51:22
3	Sc RADIAL	69757.3	69757.3	96.8 %		12:49:06
3	Al 396.153Radial†	99098.5	102384.8	18846 µg/L	18846 ppb	12:49:06
3	Ca 317.933Radial†	115835.6	119463.6	17603 µg/L	17603 ppb	12:49:06
3	Fe 238.204 Radial†	16162.0	16663.2	23421 µg/L	23421 ppb	12:49:27
3	K 766.490 Radial†	51532.3	52182.7	14251 µg/L	14251 ppb	12:49:06
3	Mg 279.077 IEC†	3175.9	3281.1	6796.7 µg/L	6796.7 ppb	12:49:27
3	Na 589.592 Radial†	108869.2	111334.6	11420 µg/L	11420 ppb	12:49:06
3	Sr 421.552†	205462.2	212346.0	534.34 µg/L	534.34 ppb	12:49:06
3	Sc 361.383	1490438.5	1490438.5	97.507 %		12:50:44
3	Y 371.029	1231682.7	1231682.7	145.30 %		12:50:44
3	Ag 328.068†	82984.9	86025.4	486.13 µg/L	486.13 ppb	12:50:50
3	As 188.979†	1226.6	1255.6	524.16 µg/L	524.16 ppb	12:51:10
3	B 249.677†	10683.4	10870.8	503.88 µg/L	503.88 ppb	12:50:50
3	Ba 233.527†	68486.5	70355.4	566.22 µg/L	566.22 ppb	12:50:50
3	Be 313.107†	960283.8	984475.7	513.15 µg/L	513.15 ppb	12:50:44
3	Cd 226.502†	17466.9	17946.3	492.04 µg/L	492.04 ppb	12:50:50
3	Co 228.616†	20775.6	21369.6	501.90 µg/L	501.90 ppb	12:50:50
3	Cr 267.716†	24258.1	24823.3	521.02 µg/L	521.02 ppb	12:50:50
3	Cu 324.752†	172192.4	172730.4	527.82 µg/L	527.82 ppb	12:50:44
3	Mn 257.610†	1405589.5	1441159.9	1938.8 µg/L	1938.8 ppb	12:50:44
3	Mo 202.031†	4857.4	4995.0	542.17 µg/L	542.17 ppb	12:51:10
3	Ni 231.604†	10303.7	10409.7	500.95 µg/L	500.95 ppb	12:50:50
3	P 214.914†	1551.8	1424.7	903.62 µg/L	903.62 ppb	12:51:10
3	Pb 220.353†	3160.0	3233.9	627.18 µg/L	627.18 ppb	12:51:10
3	S 181.975 Axial†	2700.5	2740.0	4814.9 µg/L	4814.9 ppb	12:51:10
3	Sb 206.836†	1213.1	1228.1	467.97 µg/L	467.97 ppb	12:51:10
3	Se 196.026†	599.9	639.8	454 µg/L	454 ppb	12:51:10
3	SiO2 †	629415.7	644794.3	37609 µg/L	37609 ppb	12:50:44
3	Sn 189.927†	2157.6	2235.7	488.56 µg/L	488.56 ppb	12:51:10
3	Ti 334.940†	2340590.7	2399898.0	2376.6 µg/L	2376.6 ppb	12:50:44
3	Tl 190.801†	1378.7	1443.6	464.53 µg/L	464.53 ppb	12:51:10
3	U 409.014†	11594.2	11523.4	562.50 µg/L	562.50 ppb	12:50:44
3	V 292.402†	47748.9	49055.2	533.94 µg/L	533.94 ppb	12:50:50
3	Zn 213.857†	32051.9	32577.3	625.93 µg/L	625.93 ppb	12:50:50
3	Si 251.611†	625811.8	641106.3	17600 µg/L	17600 ppb	12:51:28

Mean Data: 1201049246|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1491669.9	97.587	%	0.3386				0.35%
Sc RADIAL	69514.8	96.4	%	0.37				0.38%
Y 371.029	1232575.9	145.40	%	0.517				0.36%
Ag 328.068†	85215.5	481.62	µg/L	4.433	481.62	ppb	4.433	0.92%
Al 396.153Radial†	102498.2	18867	µg/L	23.2	18867	ppb	23.2	0.12%
As 188.979†	1260.5	526.17	µg/L	3.440	526.17	ppb	3.440	0.65%
B 249.677†	10764.5	498.87	µg/L	4.876	498.87	ppb	4.876	0.98%
Ba 233.527†	69819.0	561.91	µg/L	4.466	561.91	ppb	4.466	0.79%
Be 313.107†	984071.1	512.94	µg/L	0.267	512.94	ppb	0.267	0.05%
Ca 317.933Radial†	119393.8	17593	µg/L	12.2	17593	ppb	12.2	0.07%
Cd 226.502†	17782.3	487.52	µg/L	4.536	487.52	ppb	4.536	0.93%
Co 228.616†	21213.1	498.22	µg/L	4.200	498.22	ppb	4.200	0.84%
Cr 267.716†	24615.6	516.65	µg/L	3.927	516.65	ppb	3.927	0.76%
Cu 324.752†	172616.0	527.47	µg/L	0.319	527.47	ppb	0.319	0.06%
Fe 238.204 Radial†	16734.8	23522	µg/L	87.3	23522	ppb	87.3	0.37%
K 766.490 Radial†	52290.3	14280	µg/L	25.8	14280	ppb	25.8	0.18%
Mg 279.077 IEC†	3282.6	6799.8	µg/L	3.48	6799.8	ppb	3.48	0.05%
Mn 257.610†	1440849.0	1938.4	µg/L	0.51	1938.4	ppb	0.51	0.03%
Mo 202.031†	5005.4	543.30	µg/L	3.723	543.30	ppb	3.723	0.69%

Na 589.592 Radial†	111452.8	11433	µg/L	11.4	11433	ppb	11.4	0.10%
Ni 231.604†	10309.1	496.12	µg/L	4.856	496.12	ppb	4.856	0.98%
P 214.914†	1434.8	910.07	µg/L	5.873	910.07	ppb	5.873	0.65%
Pb 220.353†	3235.7	627.54	µg/L	5.714	627.54	ppb	5.714	0.91%
S 181.975 Axial†	2741.4	4817.4	µg/L	22.73	4817.4	ppb	22.73	0.47%
Sb 206.836†	1239.7	472.35	µg/L	6.094	472.35	ppb	6.094	1.29%
Se 196.026†	642.7	456	µg/L	3.5	456	ppb	3.5	0.77%
SiO2 †	644464.7	37590	µg/L	17.5	37590	ppb	17.5	0.05%
Si 251.611†	639757.0	17500	µg/L	41.2	17500	ppb	41.2	0.24%
Sn 189.927†	2234.2	488.25	µg/L	2.642	488.25	ppb	2.642	0.54%
Sr 421.552†	212425.1	534.54	µg/L	0.306	534.54	ppb	0.306	0.06%
Ti 334.940†	2399093.6	2375.8	µg/L	0.71	2375.8	ppb	0.71	0.03%
Tl 190.801†	1448.9	466.26	µg/L	3.419	466.26	ppb	3.419	0.73%
U 409.014†	11523.3	562.47	µg/L	0.282	562.47	ppb	0.282	0.05%
V 292.402†	48680.9	529.92	µg/L	4.331	529.92	ppb	4.331	0.82%
Zn 213.857†	32317.0	620.89	µg/L	4.893	620.89	ppb	4.893	0.79%

Sequence No.: 14
Sample ID: 1201049248|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 3/14/2006 12:53:37
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049248|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	69562.4	69562.4	96.5	%			12:55:28
1	Al 396.153Radial†	96960.2	100455.7	18489	µg/L	18489	ppb	12:55:23
1	Ca 317.933Radial†	114644.5	118564.7	17471	µg/L	17471	ppb	12:55:23
1	Fe 238.204 Radial†	15966.8	16507.7	23203	µg/L	23203	ppb	12:55:28
1	K 766.490 Radial†	50606.6	51372.5	14030	µg/L	14030	ppb	12:55:23
1	Mg 279.077 IEC†	3212.9	3328.7	6895.8	µg/L	6895.8	ppb	12:55:28
1	Na 589.592 Radial†	107501.6	110232.6	11307	µg/L	11307	ppb	12:55:23
1	Sr 421.552†	209606.3	217236.2	546.66	µg/L	546.66	ppb	12:55:23
1	Sc 361.383	1474398.5	1474398.5	96.457	%			12:56:00
1	Y 371.029	1251910.3	1251910.3	147.68	%			12:56:00
1	Ag 328.068†	81749.5	85670.6	484.11	µg/L	484.11	ppb	12:56:05
1	As 188.979†	1239.9	1283.0	535.51	µg/L	535.51	ppb	12:56:26
1	B 249.677†	10546.4	10848.0	502.93	µg/L	502.93	ppb	12:56:05
1	Ba 233.527†	67997.0	70612.0	568.30	µg/L	568.30	ppb	12:56:05
1	Be 313.107†	962824.5	997823.8	520.10	µg/L	520.10	ppb	12:56:00
1	Cd 226.502†	17287.3	17954.9	492.30	µg/L	492.30	ppb	12:56:05
1	Co 228.616†	20643.9	21464.8	504.10	µg/L	504.10	ppb	12:56:05
1	Cr 267.716†	24293.1	25130.2	527.45	µg/L	527.45	ppb	12:56:05
1	Cu 324.752†	174277.1	176812.7	540.26	µg/L	540.26	ppb	12:56:00
1	Mn 257.610†	1444580.7	1497265.5	2014.2	µg/L	2014.2	ppb	12:56:00
1	Mo 202.031†	4927.8	5122.1	555.95	µg/L	555.95	ppb	12:56:26
1	Ni 231.604†	10277.2	10497.2	505.18	µg/L	505.18	ppb	12:56:05
1	P 214.914†	1667.8	1562.2	993.39	µg/L	993.39	ppb	12:56:26
1	Pb 220.353†	3206.5	3317.3	643.29	µg/L	643.29	ppb	12:56:26
1	S 181.975 Axial†	2725.6	2796.1	4913.8	µg/L	4913.8	ppb	12:56:26
1	Sb 206.836†	1249.3	1279.1	487.33	µg/L	487.33	ppb	12:56:26
1	Se 196.026†	612.7	659.8	468	µg/L	468	ppb	12:56:26
1	SiO2 †	647914.0	670994.5	39137	µg/L	39137	ppb	12:56:00
1	Sn 189.927†	2189.7	2293.0	500.99	µg/L	500.99	ppb	12:56:26
1	Ti 334.940†	2476246.8	2566650.8	2541.7	µg/L	2541.7	ppb	12:56:00
1	Tl 190.801†	1393.5	1474.3	474.45	µg/L	474.45	ppb	12:56:26
1	U 409.014†	11716.2	11779.2	574.95	µg/L	574.95	ppb	12:56:00
1	V 292.402†	47758.4	49597.7	539.91	µg/L	539.91	ppb	12:56:05
1	Zn 213.857†	32310.1	33202.6	638.03	µg/L	638.03	ppb	12:56:05
1	Si 251.611†	643892.0	666832.7	18300	µg/L	18300	ppb	12:57:39
2	Sc RADIAL	70307.5	70307.5	97.5	%			12:55:39
2	Al 396.153Radial†	95670.2	98067.9	18049	µg/L	18049	ppb	12:55:34
2	Ca 317.933Radial†	113351.7	115979.6	17090	µg/L	17090	ppb	12:55:34
2	Fe 238.204 Radial†	15988.2	16354.2	22987	µg/L	22987	ppb	12:55:39
2	K 766.490 Radial†	49756.2	49944.6	13640	µg/L	13640	ppb	12:55:34
2	Mg 279.077 IEC†	3220.9	3301.7	6840.1	µg/L	6840.1	ppb	12:55:39
2	Na 589.592 Radial†	105870.8	107379.5	11015	µg/L	11015	ppb	12:55:34
2	Sr 421.552†	206428.5	211675.1	532.67	µg/L	532.67	ppb	12:55:34
2	Sc 361.383	1477149.1	1477149.1	96.637	%			12:56:34
2	Y 371.029	1252821.7	1252821.7	147.79	%			12:56:34
2	Ag 328.068†	82237.0	86017.1	486.00	µg/L	486.00	ppb	12:56:39
2	As 188.979†	1257.2	1298.5	541.92	µg/L	541.92	ppb	12:56:59
2	B 249.677†	10627.8	10911.9	505.99	µg/L	505.99	ppb	12:56:39
2	Ba 233.527†	68403.3	70901.2	570.63	µg/L	570.63	ppb	12:56:39
2	Be 313.107†	962425.3	995552.0	518.92	µg/L	518.92	ppb	12:56:34
2	Cd 226.502†	17380.4	18017.9	494.06	µg/L	494.06	ppb	12:56:39
2	Co 228.616†	20788.8	21574.9	506.70	µg/L	506.70	ppb	12:56:39
2	Cr 267.716†	24405.0	25199.2	528.89	µg/L	528.89	ppb	12:56:39
2	Cu 324.752†	174483.8	176690.2	539.87	µg/L	539.87	ppb	12:56:34
2	Mn 257.610†	1444155.2	1494036.6	2009.8	µg/L	2009.8	ppb	12:56:34
2	Mo 202.031†	4968.1	5154.3	559.44	µg/L	559.44	ppb	12:56:59
2	Ni 231.604†	10321.4	10523.1	506.42	µg/L	506.42	ppb	12:56:39
2	P 214.914†	1665.3	1556.4	989.77	µg/L	989.77	ppb	12:56:59

2	Pb 220.353†	3233.7	3339.3	647.51 µg/L	647.51 ppb	12:56:59
2	S 181.975 Axial†	2744.8	2810.7	4939.4 µg/L	4939.4 ppb	12:56:59
2	Sb 206.836†	1261.9	1289.7	491.37 µg/L	491.37 ppb	12:56:59
2	Se 196.026†	630.6	677.2	481 µg/L	481 ppb	12:56:59
2	SiO2 †	647481.8	669296.5	39038 µg/L	39038 ppb	12:56:34
2	Sn 189.927†	2205.0	2304.6	503.45 µg/L	503.45 ppb	12:56:59
2	Ti 334.940†	2475590.2	2561191.1	2536.3 µg/L	2536.3 ppb	12:56:34
2	Tl 190.801†	1409.2	1487.9	478.82 µg/L	478.82 ppb	12:56:59
2	U 409.014†	11848.6	11893.6	580.52 µg/L	580.52 ppb	12:56:34
2	V 292.402†	48026.2	49782.6	541.94 µg/L	541.94 ppb	12:56:39
2	Zn 213.857†	32516.7	33354.0	640.99 µg/L	640.99 ppb	12:56:39
2	Si 251.611†	640914.5	662508.7	18100 µg/L	18100 ppb	12:57:45
3	Sc RADIAL	70078.6	70078.6	97.2 %		12:55:49
3	Al 396.153Radial†	94656.5	97345.4	17916 µg/L	17916 ppb	12:55:44
3	Ca 317.933Radial†	111959.2	114926.8	16935 µg/L	16935 ppb	12:55:44
3	Fe 238.204 Radial†	15942.2	16360.5	22996 µg/L	22996 ppb	12:55:49
3	K 766.490 Radial†	49494.9	49842.5	13612 µg/L	13612 ppb	12:55:44
3	Mg 279.077 IEC†	3208.7	3299.8	6836.4 µg/L	6836.4 ppb	12:55:49
3	Na 589.592 Radial†	104809.4	106642.2	10939 µg/L	10939 ppb	12:55:44
3	Sr 421.552†	204317.2	210194.5	528.94 µg/L	528.94 ppb	12:55:44
3	Sc 361.383	1464876.9	1464876.9	95.834 %		12:57:07
3	Y 371.029	1243942.9	1243942.9	146.74 %		12:57:07
3	Ag 328.068†	82600.0	87108.8	492.11 µg/L	492.11 ppb	12:57:12
3	As 188.979†	1231.2	1282.3	535.31 µg/L	535.31 ppb	12:57:33
3	B 249.677†	10685.8	11064.5	513.15 µg/L	513.15 ppb	12:57:12
3	Ba 233.527†	68644.1	71745.4	577.43 µg/L	577.43 ppb	12:57:12
3	Be 313.107†	959108.8	1000434.7	521.46 µg/L	521.46 ppb	12:57:07
3	Cd 226.502†	17409.5	18199.0	499.05 µg/L	499.05 ppb	12:57:12
3	Co 228.616†	20828.6	21796.7	511.91 µg/L	511.91 ppb	12:57:12
3	Cr 267.716†	24518.1	25528.7	535.81 µg/L	535.81 ppb	12:57:12
3	Cu 324.752†	173010.0	176664.9	539.80 µg/L	539.80 ppb	12:57:07
3	Mn 257.610†	1439056.9	1501236.2	2019.5 µg/L	2019.5 ppb	12:57:07
3	Mo 202.031†	4946.9	5175.3	561.71 µg/L	561.71 ppb	12:57:33
3	Ni 231.604†	10357.9	10650.7	512.54 µg/L	512.54 ppb	12:57:12
3	P 214.914†	1664.2	1569.7	998.41 µg/L	998.41 ppb	12:57:33
3	Pb 220.353†	3224.0	3357.2	650.95 µg/L	650.95 ppb	12:57:33
3	S 181.975 Axial†	2738.9	2828.3	4970.5 µg/L	4970.5 ppb	12:57:33
3	Sb 206.836†	1253.1	1291.5	492.06 µg/L	492.06 ppb	12:57:33
3	Se 196.026†	610.4	661.6	469 µg/L	469 ppb	12:57:33
3	SiO2 †	643337.1	670584.7	39113 µg/L	39113 ppb	12:57:07
3	Sn 189.927†	2184.9	2302.7	503.04 µg/L	503.04 ppb	12:57:33
3	Ti 334.940†	2464138.0	2570702.2	2545.7 µg/L	2545.7 ppb	12:57:07
3	Tl 190.801†	1416.7	1508.0	485.25 µg/L	485.25 ppb	12:57:33
3	U 409.014†	11682.8	11823.3	577.15 µg/L	577.15 ppb	12:57:07
3	V 292.402†	48317.5	50502.9	549.71 µg/L	549.71 ppb	12:57:12
3	Zn 213.857†	32595.5	33718.1	648.04 µg/L	648.04 ppb	12:57:12
3	Si 251.611†	645155.1	672489.7	18400 µg/L	18400 ppb	12:57:51

Mean Data: 1201049248|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1472141.5	96.310	%	0.4213				0.44%
Sc RADIAL	69982.8	97.1	%	0.53				0.55%
Y 371.029	1249558.3	147.41	%	0.576				0.39%
Ag 328.068†	86265.5	487.41	µg/L	4.179	487.41	ppb	4.179	0.86%
Al 396.153Radial†	98623.0	18152	µg/L	300.1	18152	ppb	300.1	1.65%
As 188.979†	1287.9	537.58	µg/L	3.761	537.58	ppb	3.761	0.70%
B 249.677†	10941.5	507.35	µg/L	5.244	507.35	ppb	5.244	1.03%
Ba 233.527†	71086.2	572.12	µg/L	4.743	572.12	ppb	4.743	0.83%
Be 313.107†	997936.8	520.16	µg/L	1.274	520.16	ppb	1.274	0.24%
Ca 317.933Radial†	116490.3	17165	µg/L	275.8	17165	ppb	275.8	1.61%
Cd 226.502†	18057.3	495.14	µg/L	3.498	495.14	ppb	3.498	0.71%
Co 228.616†	21612.1	507.57	µg/L	3.979	507.57	ppb	3.979	0.78%
Cr 267.716†	25286.0	530.72	µg/L	4.472	530.72	ppb	4.472	0.84%
Cu 324.752†	176722.6	539.98	µg/L	0.248	539.98	ppb	0.248	0.05%
Fe 238.204 Radial†	16407.5	23062	µg/L	122.1	23062	ppb	122.1	0.53%
K 766.490 Radial†	50386.6	13761	µg/L	233.6	13761	ppb	233.6	1.70%
Mg 279.077 IEC†	3310.1	6857.4	µg/L	33.26	6857.4	ppb	33.26	0.48%
Mn 257.610†	1497512.8	2014.5	µg/L	4.85	2014.5	ppb	4.85	0.24%
Mo 202.031†	5150.6	559.03	µg/L	2.903	559.03	ppb	2.903	0.52%

Na 589.592 Radial†	108084.7	11087 µg/L	194.5	11087 ppb	194.5	1.75%
Ni 231.604†	10557.0	508.05 µg/L	3.944	508.05 ppb	3.944	0.78%
P 214.914†	1562.8	993.86 µg/L	4.336	993.86 ppb	4.336	0.44%
Pb 220.353†	3338.0	647.25 µg/L	3.836	647.25 ppb	3.836	0.59%
S 181.975 Axial†	2811.7	4941.2 µg/L	28.44	4941.2 ppb	28.44	0.58%
Sb 206.836†	1286.8	490.25 µg/L	2.552	490.25 ppb	2.552	0.52%
Se 196.026†	666.2	473 µg/L	6.8	473 ppb	6.8	1.43%
SiO2 †	670291.9	39096 µg/L	51.7	39096 ppb	51.7	0.13%
Si 251.611†	667277.0	18300 µg/L	137.0	18300 ppb	137.0	0.75%
Sn 189.927†	2300.1	502.49 µg/L	1.320	502.49 ppb	1.320	0.26%
Sr 421.552†	213035.3	536.09 µg/L	9.343	536.09 ppb	9.343	1.74%
Ti 334.940†	2566181.4	2541.2 µg/L	4.72	2541.2 ppb	4.72	0.19%
Tl 190.801†	1490.1	479.51 µg/L	5.435	479.51 ppb	5.435	1.13%
U 409.014†	11832.0	577.54 µg/L	2.804	577.54 ppb	2.804	0.49%
V 292.402†	49961.1	543.85 µg/L	5.175	543.85 ppb	5.175	0.95%
Zn 213.857†	33424.9	642.35 µg/L	5.141	642.35 ppb	5.141	0.80%

Sequence No.: 15
Sample ID: 1201049247|510923|5
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 3/14/2006 13:00:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049247|510923|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72551.9	72551.9	101	%			13:01:44
1	Al 396.153Radial†	11489.8	11381.5	2097.5	µg/L	2097.5	ppb	13:01:44
1	Ca 317.933Radial†	15553.5	15200.2	2239.8	µg/L	2239.8	ppb	13:01:44
1	Fe 238.204 Radial†	3136.7	3076.3	4324.0	µg/L	4324.0	ppb	13:02:04
1	K 766.490 Radial†	5996.1	4881.1	1333.0	µg/L	1333.0	ppb	13:01:44
1	Mg 279.077 IEC†	115.6	113.7	232.41	µg/L	232.41	ppb	13:02:04
1	Na 589.592 Radial†	9601.5	8356.6	857.20	µg/L	857.20	ppb	13:01:44
1	Sr 421.552†	619.4	610.9	1.4757	µg/L	1.4757	ppb	13:01:44
1	Sc 361.383	1520201.3	1520201.3	99.454	%			13:03:03
1	Y 371.029	923250.5	923250.5	108.91	%			13:03:03
1	Ag 328.068†	-1138.3	-226.0	-0.2934	µg/L	-0.2934	ppb	13:03:09
1	As 188.979†	1.9	-0.5	0.2107	µg/L	0.2107	ppb	13:03:29
1	B 249.677†	247.4	163.0	6.3635	µg/L	6.3635	ppb	13:03:29
1	Ba 233.527†	916.6	1039.3	8.3134	µg/L	8.3134	ppb	13:03:29
1	Be 313.107†	2079.7	1728.1	0.8832	µg/L	0.8832	ppb	13:03:09
1	Cd 226.502†	-21.4	11.2	-0.1167	µg/L	-0.1167	ppb	13:03:29
1	Co 228.616†	-25.0	37.6	0.6762	µg/L	0.6762	ppb	13:03:29
1	Cr 267.716†	194.1	140.1	2.9236	µg/L	2.9236	ppb	13:03:29
1	Cu 324.752†	4683.3	843.9	2.6630	µg/L	2.6630	ppb	13:03:09
1	Mn 257.610†	224426.2	225287.4	303.15	µg/L	303.15	ppb	13:03:03
1	Mo 202.031†	41.2	54.8	6.0434	µg/L	6.0434	ppb	13:03:29
1	Ni 231.604†	175.1	18.6	0.9392	µg/L	0.9392	ppb	13:03:29
1	P 214.914†	329.6	164.6	102.37	µg/L	102.37	ppb	13:03:29
1	Pb 220.353†	148.9	142.8	27.825	µg/L	27.825	ppb	13:03:29
1	S 181.975 Axial†	40.4	11.0	18.862	µg/L	18.862	ppb	13:03:29
1	Sb 206.836†	26.5	10.5	4.0173	µg/L	4.0173	ppb	13:03:29
1	Se 196.026†	-25.6	-1.1	-0.729	µg/L	-0.729	ppb	13:03:29
1	SiO2 †	90917.5	90700.9	5290.3	µg/L	5290.3	ppb	13:03:03
1	Sn 189.927†	-26.7	-4.0	-0.4580	µg/L	-0.4580	ppb	13:03:29
1	Ti 334.940†	343584.2	344928.2	341.63	µg/L	341.63	ppb	13:03:03
1	Tl 190.801†	-42.1	-12.7	-3.9367	µg/L	-3.9367	ppb	13:03:29
1	U 409.014†	617.0	253.1	12.302	µg/L	12.302	ppb	13:03:03
1	V 292.402†	129.7	215.7	2.3494	µg/L	2.3494	ppb	13:03:09
1	Zn 213.857†	1992.2	1708.9	32.526	µg/L	32.526	ppb	13:03:29
1	Si 251.611†	85092.5	84851.9	2320	µg/L	2320	ppb	13:04:38
2	Sc RADIAL	71167.4	71167.4	98.7	%			13:02:09
2	Al 396.153Radial†	11161.2	11270.8	2077.1	µg/L	2077.1	ppb	13:02:09
2	Ca 317.933Radial†	15241.8	15185.1	2237.6	µg/L	2237.6	ppb	13:02:09
2	Fe 238.204 Radial†	3146.3	3146.7	4422.9	µg/L	4422.9	ppb	13:02:29
2	K 766.490 Radial†	5994.2	4995.1	1364.2	µg/L	1364.2	ppb	13:02:09
2	Mg 279.077 IEC†	120.1	120.4	246.32	µg/L	246.32	ppb	13:02:29
2	Na 589.592 Radial†	9336.8	8274.1	848.74	µg/L	848.74	ppb	13:02:09
2	Sr 421.552†	585.1	588.2	1.4185	µg/L	1.4185	ppb	13:02:09
2	Sc 361.383	1526707.4	1526707.4	99.879	%			13:03:35
2	Y 371.029	925264.0	925264.0	109.15	%			13:03:35
2	Ag 328.068†	-1097.0	-179.8	-0.0135	µg/L	-0.0135	ppb	13:03:40
2	As 188.979†	12.3	9.9	4.5147	µg/L	4.5147	ppb	13:04:00
2	B 249.677†	264.9	179.5	7.1022	µg/L	7.1022	ppb	13:04:00
2	Ba 233.527†	905.0	1023.7	8.1866	µg/L	8.1866	ppb	13:04:00
2	Be 313.107†	2032.1	1671.5	0.8541	µg/L	0.8541	ppb	13:03:40
2	Cd 226.502†	-29.3	3.4	-0.3423	µg/L	-0.3423	ppb	13:04:00
2	Co 228.616†	-30.8	31.8	0.5400	µg/L	0.5400	ppb	13:04:00
2	Cr 267.716†	193.1	138.3	2.8863	µg/L	2.8863	ppb	13:04:00
2	Cu 324.752†	4729.7	870.3	2.7538	µg/L	2.7538	ppb	13:03:40
2	Mn 257.610†	220900.7	220796.0	297.13	µg/L	297.13	ppb	13:03:35
2	Mo 202.031†	31.9	45.3	5.0184	µg/L	5.0184	ppb	13:04:00
2	Ni 231.604†	177.6	20.4	1.0214	µg/L	1.0214	ppb	13:04:00
2	P 214.914†	334.9	168.5	104.84	µg/L	104.84	ppb	13:04:00

2	Pb 220.353†	149.4	142.7	27.800 µg/L	27.800	ppb	13:04:00
2	S 181.975 Axial†	38.2	8.6	14.647 µg/L	14.647	ppb	13:04:00
2	Sb 206.836†	24.0	8.0	3.0418 µg/L	3.0418	ppb	13:04:00
2	Se 196.026†	-15.8	8.8	6.26 µg/L	6.26	ppb	13:04:00
2	SiO2 †	86506.8	85895.3	5010.0 µg/L	5010.0	ppb	13:03:35
2	Sn 189.927†	-33.3	-10.5	-1.8637 µg/L	-1.8637	ppb	13:04:00
2	Ti 334.940†	338025.8	337890.9	334.66 µg/L	334.66	ppb	13:03:35
2	Tl 190.801†	-33.4	-3.8	-1.0771 µg/L	-1.0771	ppb	13:04:00
2	U 409.014†	500.3	133.6	6.5011 µg/L	6.5011	ppb	13:03:35
2	V 292.402†	155.0	240.4	2.6003 µg/L	2.6003	ppb	13:03:40
2	Zn 213.857†	1983.5	1691.7	32.182 µg/L	32.182	ppb	13:04:00
2	Si 251.611†	85840.3	85236.0	2330 µg/L	2330	ppb	13:04:43
3	Sc RADIAL	71095.4	71095.4	98.6 %			13:02:34
3	Al 396.153Radial†	11151.7	11272.6	2077.5 µg/L	2077.5	ppb	13:02:34
3	Ca 317.933Radial†	15218.6	15177.2	2236.4 µg/L	2236.4	ppb	13:02:34
3	Fe 238.204 Radial†	3134.2	3137.6	4410.1 µg/L	4410.1	ppb	13:02:55
3	K 766.490 Radial†	5867.5	4872.7	1330.7 µg/L	1330.7	ppb	13:02:34
3	Mg 279.077 IEC†	115.8	116.2	237.63 µg/L	237.63	ppb	13:02:55
3	Na 589.592 Radial†	9357.6	8304.8	851.89 µg/L	851.89	ppb	13:02:34
3	Sr 421.552†	600.7	604.5	1.4598 µg/L	1.4598	ppb	13:02:34
3	Sc 361.383	1526688.7	1526688.7	99.878 %			13:04:07
3	Y 371.029	924788.4	924788.4	109.09 %			13:04:07
3	Ag 328.068†	-1142.5	-225.3	-0.2708 µg/L	-0.2708	ppb	13:04:12
3	As 188.979†	10.6	8.2	3.8115 µg/L	3.8115	ppb	13:04:32
3	B 249.677†	249.4	164.0	6.3803 µg/L	6.3803	ppb	13:04:32
3	Ba 233.527†	906.4	1025.1	8.1977 µg/L	8.1977	ppb	13:04:32
3	Be 313.107†	2018.6	1658.1	0.8471 µg/L	0.8471	ppb	13:04:12
3	Cd 226.502†	-21.9	10.8	-0.1369 µg/L	-0.1369	ppb	13:04:32
3	Co 228.616†	-15.7	47.0	0.8957 µg/L	0.8957	ppb	13:04:32
3	Cr 267.716†	194.2	139.3	2.9088 µg/L	2.9088	ppb	13:04:32
3	Cu 324.752†	4677.3	817.9	2.5951 µg/L	2.5951	ppb	13:04:12
3	Mn 257.610†	220357.3	220254.7	296.40 µg/L	296.40	ppb	13:04:07
3	Mo 202.031†	30.8	44.2	4.9043 µg/L	4.9043	ppb	13:04:32
3	Ni 231.604†	173.9	16.6	0.8433 µg/L	0.8433	ppb	13:04:32
3	P 214.914†	334.3	167.8	104.42 µg/L	104.42	ppb	13:04:32
3	Pb 220.353†	152.9	146.2	28.483 µg/L	28.483	ppb	13:04:32
3	S 181.975 Axial†	38.5	9.0	15.327 µg/L	15.327	ppb	13:04:32
3	Sb 206.836†	18.3	2.3	0.8913 µg/L	0.8913	ppb	13:04:32
3	Se 196.026†	-27.1	-2.5	-1.74 µg/L	-1.74	ppb	13:04:32
3	SiO2 †	86493.5	85883.1	5009.3 µg/L	5009.3	ppb	13:04:07
3	Sn 189.927†	-27.3	-4.5	-0.5598 µg/L	-0.5598	ppb	13:04:32
3	Ti 334.940†	337580.0	337448.7	334.22 µg/L	334.22	ppb	13:04:07
3	Tl 190.801†	-39.9	-10.3	-3.1536 µg/L	-3.1536	ppb	13:04:32
3	U 409.014†	464.1	97.3	4.7374 µg/L	4.7374	ppb	13:04:07
3	V 292.402†	135.0	220.4	2.3822 µg/L	2.3822	ppb	13:04:12
3	Zn 213.857†	1978.6	1686.9	32.089 µg/L	32.089	ppb	13:04:32
3	Si 251.611†	86316.6	85713.9	2350 µg/L	2350	ppb	13:04:48

Mean Data: 1201049247|510923|5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1524532.4	99.737	%	0.2454				0.25%
Sc RADIAL	71604.9	99.3	%	1.14				1.15%
Y 371.029	924434.3	109.05	%	0.124				0.11%
Ag 328.068†	-210.4	-0.1926	µg/L	0.15547	-0.1926	ppb	0.15547	80.74%
Al 396.153Radial†	11308.3	2084.0	µg/L	11.66	2084.0	ppb	11.66	0.56%
As 188.979†	5.8	2.8457	µg/L	2.30884	2.8457	ppb	2.30884	81.14%
B 249.677†	168.8	6.6153	µg/L	0.42173	6.6153	ppb	0.42173	6.38%
Ba 233.527†	1029.4	8.2326	µg/L	0.07024	8.2326	ppb	0.07024	0.85%
Be 313.107†	1685.9	0.8614	µg/L	0.01915	0.8614	ppb	0.01915	2.22%
Ca 317.933Radial†	15187.5	2237.9	µg/L	1.72	2237.9	ppb	1.72	0.08%
Cd 226.502†	8.5	-0.1986	µg/L	0.12484	-0.1986	ppb	0.12484	62.85%
Co 228.616†	38.8	0.7040	µg/L	0.17945	0.7040	ppb	0.17945	25.49%
Cr 267.716†	139.2	2.9062	µg/L	0.01877	2.9062	ppb	0.01877	0.65%
Cu 324.752†	844.0	2.6706	µg/L	0.07964	2.6706	ppb	0.07964	2.98%
Fe 238.204 Radial†	3120.2	4385.7	µg/L	53.78	4385.7	ppb	53.78	1.23%
K 766.490 Radial†	4916.3	1342.6	µg/L	18.67	1342.6	ppb	18.67	1.39%
Mg 279.077 IEC†	116.8	238.79	µg/L	7.027	238.79	ppb	7.027	2.94%
Mn 257.610†	222112.7	298.89	µg/L	3.707	298.89	ppb	3.707	1.24%
Mo 202.031†	48.1	5.3220	µg/L	0.62732	5.3220	ppb	0.62732	11.79%

Na 589.592 Radial†	8311.8	852.61	µg/L	4.279	852.61	ppb	4.279	0.50%
Ni 231.604†	18.5	0.9346	µg/L	0.08913	0.9346	ppb	0.08913	9.54%
P 214.914†	167.0	103.88	µg/L	1.321	103.88	ppb	1.321	1.27%
Pb 220.353†	143.9	28.036	µg/L	0.3875	28.036	ppb	0.3875	1.38%
S 181.975 Axial†	9.5	16.279	µg/L	2.2630	16.279	ppb	2.2630	13.90%
Sb 206.836†	6.9	2.6501	µg/L	1.59940	2.6501	ppb	1.59940	60.35%
Se 196.026†	1.7	1.26	µg/L	4.355	1.26	ppb	4.355	345.29%
SiO2 †	87493.1	5103.2	µg/L	162.04	5103.2	ppb	162.04	3.18%
Si 251.611†	85267.2	2330	µg/L	11.8	2330	ppb	11.8	0.51%
Sn 189.927†	-6.3	-0.9605	µg/L	0.78382	-0.9605	ppb	0.78382	81.61%
Sr 421.552†	601.2	1.4513	µg/L	0.02952	1.4513	ppb	0.02952	2.03%
Ti 334.940†	340089.3	336.83	µg/L	4.156	336.83	ppb	4.156	1.23%
Tl 190.801†	-8.9	-2.7225	µg/L	1.47771	-2.7225	ppb	1.47771	54.28%
U 409.014†	161.3	7.8468	µg/L	3.95764	7.8468	ppb	3.95764	50.44%
V 292.402†	225.5	2.4440	µg/L	0.13634	2.4440	ppb	0.13634	5.58%
Zn 213.857†	1695.8	32.266	µg/L	0.2300	32.266	ppb	0.2300	0.71%

Sequence No.: 18
Sample ID: CCV
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 13:21:05
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	67707.0	67707.0	93.9	%			13:22:48
1	Al 396.153Radial†	26614.6	28303.9	5192.8	µg/L	5192.8	ppb	13:22:48
1	Ca 317.933Radial†	34061.2	36013.7	5306.7	µg/L	5306.7	ppb	13:23:09
1	Fe 238.204 Radial†	3628.0	3822.5	5372.8	µg/L	5372.8	ppb	13:23:09
1	K 766.490 Radial†	19080.1	19239.7	5254.3	µg/L	5254.3	ppb	13:22:48
1	Mg 279.077 IEC†	2400.9	2555.3	5305.8	µg/L	5305.8	ppb	13:23:09
1	Na 589.592 Radial†	96899.0	101995.9	10462	µg/L	10462	ppb	13:22:48
1	Sr 421.552†	195514.5	208184.0	524.21	µg/L	524.21	ppb	13:22:48
1	Sc 361.383	1495448.0	1495448.0	97.834	%			13:24:10
1	Y 371.029	821680.4	821680.4	96.930	%			13:24:10
1	Ag 328.068†	87441.4	90295.5	505.84	µg/L	505.84	ppb	13:24:15
1	As 188.979†	1157.3	1180.5	491.49	µg/L	491.49	ppb	13:24:35
1	B 249.677†	10377.2	10521.2	492.72	µg/L	492.72	ppb	13:24:15
1	Ba 233.527†	59991.0	61436.6	494.66	µg/L	494.66	ppb	13:24:15
1	Be 313.107†	923446.0	943523.5	491.90	µg/L	491.90	ppb	13:24:10
1	Cd 226.502†	17532.1	17952.9	494.00	µg/L	494.00	ppb	13:24:15
1	Co 228.616†	20482.4	20998.5	494.22	µg/L	494.22	ppb	13:24:15
1	Cr 267.716†	23012.5	23466.8	492.30	µg/L	492.30	ppb	13:24:15
1	Cu 324.752†	161744.6	161459.7	493.04	µg/L	493.04	ppb	13:24:10
1	Mn 257.610†	360164.4	367765.4	494.70	µg/L	494.70	ppb	13:24:10
1	Mo 202.031†	4633.4	4749.4	515.09	µg/L	515.09	ppb	13:24:35
1	Ni 231.604†	10286.0	10356.3	498.14	µg/L	498.14	ppb	13:24:15
1	P 214.914†	3939.1	3859.5	2506.7	µg/L	2506.7	ppb	13:24:35
1	Pb 220.353†	2532.9	2582.1	499.81	µg/L	499.81	ppb	13:24:35
1	S 181.975 Axial†	590.6	574.0	1011.7	µg/L	1011.7	ppb	13:24:35
1	Sb 206.836†	1315.2	1328.2	505.49	µg/L	505.49	ppb	13:24:35
1	Se 196.026†	644.2	683.1	484	µg/L	484	ppb	13:24:35
1	SiO2 †	91936.3	93255.4	5439.3	µg/L	5439.3	ppb	13:24:15
1	Sn 189.927†	2212.0	2283.9	496.94	µg/L	496.94	ppb	13:24:35
1	Ti 334.940†	496336.6	506780.2	501.57	µg/L	501.57	ppb	13:24:10
1	Tl 190.801†	1458.3	1520.2	488.41	µg/L	488.41	ppb	13:24:35
1	U 409.014†	10426.9	10290.4	502.44	µg/L	502.44	ppb	13:24:15
1	V 292.402†	44857.2	45935.4	500.27	µg/L	500.27	ppb	13:24:15
1	Zn 213.857†	25328.5	25595.0	493.22	µg/L	493.22	ppb	13:24:15
1	Si 251.611†	89020.0	90282.5	2470	µg/L	2470	ppb	13:25:46
2	Sc RADIAL	70017.7	70017.7	97.1	%			13:23:14
2	Al 396.153Radial†	26278.6	27022.5	4956.9	µg/L	4956.9	ppb	13:23:14
2	Ca 317.933Radial†	34055.5	34810.8	5129.4	µg/L	5129.4	ppb	13:23:34
2	Fe 238.204 Radial†	3632.2	3699.3	5199.6	µg/L	5199.6	ppb	13:23:34
2	K 766.490 Radial†	18940.1	18425.0	5031.9	µg/L	5031.9	ppb	13:23:14
2	Mg 279.077 IEC†	2404.3	2474.4	5138.3	µg/L	5138.3	ppb	13:23:34
2	Na 589.592 Radial†	95759.3	97417.3	9992.8	µg/L	9992.8	ppb	13:23:14
2	Sr 421.552†	192834.8	198554.1	499.96	µg/L	499.96	ppb	13:23:14
2	Sc 361.383	1511164.7	1511164.7	98.863	%			13:24:42
2	Y 371.029	830487.9	830487.9	97.969	%			13:24:42
2	Ag 328.068†	86710.5	88626.6	496.48	µg/L	496.48	ppb	13:24:48
2	As 188.979†	1167.4	1178.5	490.56	µg/L	490.56	ppb	13:25:08
2	B 249.677†	10309.7	10342.6	484.39	µg/L	484.39	ppb	13:24:48
2	Ba 233.527†	59464.2	60265.9	485.23	µg/L	485.23	ppb	13:24:48
2	Be 313.107†	930836.9	941182.7	490.68	µg/L	490.68	ppb	13:24:42
2	Cd 226.502†	17369.8	17602.4	484.36	µg/L	484.36	ppb	13:24:48
2	Co 228.616†	20380.8	20677.9	486.69	µg/L	486.69	ppb	13:24:48
2	Cr 267.716†	22794.3	23001.4	482.54	µg/L	482.54	ppb	13:24:48
2	Cu 324.752†	162948.9	160958.4	491.51	µg/L	491.51	ppb	13:24:42
2	Mn 257.610†	362318.1	366115.2	492.47	µg/L	492.47	ppb	13:24:42
2	Mo 202.031†	4645.7	4712.5	511.09	µg/L	511.09	ppb	13:25:08
2	Ni 231.604†	10205.4	10165.4	488.97	µg/L	488.97	ppb	13:24:48
2	P 214.914†	3956.0	3834.7	2490.8	µg/L	2490.8	ppb	13:25:08

2	Pb 220.353†	2540.9	2563.2	496.14 µg/L	496.14 ppb	13:25:08
2	S 181.975 Axial†	591.7	568.8	1002.6 µg/L	1002.6 ppb	13:25:08
2	Sb 206.836†	1325.3	1324.5	504.03 µg/L	504.03 ppb	13:25:08
2	Se 196.026†	650.9	683.0	484 µg/L	484 ppb	13:25:08
2	SiO2 †	91235.3	91569.1	5341.0 µg/L	5341.0 ppb	13:24:48
2	Sn 189.927†	2215.3	2263.7	492.52 µg/L	492.52 ppb	13:25:08
2	Ti 334.940†	500050.0	505259.9	500.07 µg/L	500.07 ppb	13:24:42
2	Tl 190.801†	1466.0	1512.5	485.93 µg/L	485.93 ppb	13:25:08
2	U 409.014†	10386.6	10138.8	495.02 µg/L	495.02 ppb	13:24:48
2	V 292.402†	44457.9	45054.7	490.74 µg/L	490.74 ppb	13:24:48
2	Zn 213.857†	25141.2	25136.3	484.38 µg/L	484.38 ppb	13:24:48
2	Si 251.611†	89593.1	89915.9	2460 µg/L	2460 ppb	13:25:52
3	Sc RADIAL	70492.0	70492.0	97.8 %		13:23:40
3	Al 396.153Radial†	26374.6	26938.7	4941.4 µg/L	4941.4 ppb	13:23:40
3	Ca 317.933Radial†	34073.9	34593.7	5097.4 µg/L	5097.4 ppb	13:24:00
3	Fe 238.204 Radial†	3615.4	3657.0	5140.2 µg/L	5140.2 ppb	13:24:00
3	K 766.490 Radial†	18952.5	18306.5	4999.5 µg/L	4999.5 ppb	13:23:40
3	Mg 279.077 IEC†	2406.8	2460.4	5109.3 µg/L	5109.3 ppb	13:24:00
3	Na 589.592 Radial†	96247.6	97253.1	9976.0 µg/L	9976.0 ppb	13:23:40
3	Sr 421.552†	193927.7	198335.7	499.41 µg/L	499.41 ppb	13:23:40
3	Sc 361.383	1496523.3	1496523.3	97.905 %		13:25:15
3	Y 371.029	822699.4	822699.4	97.051 %		13:25:15
3	Ag 328.068†	87044.8	89826.1	503.17 µg/L	503.17 ppb	13:25:20
3	As 188.979†	1151.0	1173.2	488.46 µg/L	488.46 ppb	13:25:41
3	B 249.677†	10371.7	10507.9	492.15 µg/L	492.15 ppb	13:25:20
3	Ba 233.527†	59672.7	61067.4	491.69 µg/L	491.69 ppb	13:25:20
3	Be 313.107†	923045.7	942436.4	491.33 µg/L	491.33 ppb	13:25:15
3	Cd 226.502†	17428.7	17834.4	490.76 µg/L	490.76 ppb	13:25:20
3	Co 228.616†	20393.2	20892.3	491.73 µg/L	491.73 ppb	13:25:20
3	Cr 267.716†	22872.6	23307.0	488.95 µg/L	488.95 ppb	13:25:20
3	Cu 324.752†	161256.1	160841.9	491.15 µg/L	491.15 ppb	13:25:15
3	Mn 257.610†	359609.8	366934.4	493.56 µg/L	493.56 ppb	13:25:15
3	Mo 202.031†	4608.0	4719.9	511.89 µg/L	511.89 ppb	13:25:41
3	Ni 231.604†	10264.3	10326.5	496.70 µg/L	496.70 ppb	13:25:20
3	P 214.914†	3910.0	3826.8	2485.7 µg/L	2485.7 ppb	13:25:41
3	Pb 220.353†	2509.2	2556.0	494.74 µg/L	494.74 ppb	13:25:41
3	S 181.975 Axial†	581.0	563.8	993.69 µg/L	993.69 ppb	13:25:41
3	Sb 206.836†	1315.7	1327.8	505.31 µg/L	505.31 ppb	13:25:41
3	Se 196.026†	650.6	689.2	489 µg/L	489 ppb	13:25:41
3	SiO2 †	91561.6	92805.2	5413.1 µg/L	5413.1 ppb	13:25:20
3	Sn 189.927†	2208.5	2278.7	495.77 µg/L	495.77 ppb	13:25:41
3	Ti 334.940†	495239.1	505294.7	500.10 µg/L	500.10 ppb	13:25:15
3	Tl 190.801†	1458.8	1519.7	488.25 µg/L	488.25 ppb	13:25:41
3	U 409.014†	10334.0	10187.9	497.44 µg/L	497.44 ppb	13:25:20
3	V 292.402†	44586.9	45626.3	496.91 µg/L	496.91 ppb	13:25:20
3	Zn 213.857†	25283.7	25530.6	492.01 µg/L	492.01 ppb	13:25:20
3	Si 251.611†	89081.1	90279.5	2470 µg/L	2470 ppb	13:25:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1501045.3	98.201	%	0.5744				0.58%
Sc RADIAL	69405.5	96.3	%	2.07				2.15%
Y 371.029	824955.9	97.317	%	0.5683				0.58%
Ag 328.068†	89582.7	501.83	µg/L	4.824	501.83	ppb	4.824	0.96%
QC value within limits for Ag 328.068 Recovery = 100.37%								
Al 396.153Radial†	27421.7	5030.4	µg/L	140.93	5030.4	ppb	140.93	2.80%
QC value within limits for Al 396.153Radial Recovery = 100.61%								
As 188.979†	1177.4	490.17	µg/L	1.554	490.17	ppb	1.554	0.32%
QC value within limits for As 188.979 Recovery = 98.03%								
B 249.677†	10457.2	489.76	µg/L	4.657	489.76	ppb	4.657	0.95%
QC value within limits for B 249.677 Recovery = 97.95%								
Ba 233.527†	60923.3	490.53	µg/L	4.818	490.53	ppb	4.818	0.98%
QC value within limits for Ba 233.527 Recovery = 98.11%								
Be 313.107†	942380.8	491.30	µg/L	0.611	491.30	ppb	0.611	0.12%
QC value within limits for Be 313.107 Recovery = 98.26%								
Ca 317.933Radial†	35139.4	5177.9	µg/L	112.71	5177.9	ppb	112.71	2.18%
QC value within limits for Ca 317.933Radial Recovery = 103.56%								
Cd 226.502†	17796.6	489.71	µg/L	4.905	489.71	ppb	4.905	1.00%
QC value within limits for Cd 226.502 Recovery = 97.94%								

Co 228.616†	20856.3	490.88 µg/L	3.841	490.88 ppb	3.841	0.78%
QC value within limits for Co 228.616 Recovery = 98.18%						
Cr 267.716†	23258.4	487.93 µg/L	4.964	487.93 ppb	4.964	1.02%
QC value within limits for Cr 267.716 Recovery = 97.59%						
Cu 324.752†	161086.7	491.90 µg/L	1.003	491.90 ppb	1.003	0.20%
QC value within limits for Cu 324.752 Recovery = 98.38%						
Fe 238.204 Radial†	3726.3	5237.5 µg/L	120.82	5237.5 ppb	120.82	2.31%
QC value within limits for Fe 238.204 Radial Recovery = 104.75%						
K 766.490 Radial†	18657.1	5095.2 µg/L	138.74	5095.2 ppb	138.74	2.72%
QC value within limits for K 766.490 Radial Recovery = 101.90%						
Mg 279.077 IEC†	2496.7	5184.4 µg/L	106.09	5184.4 ppb	106.09	2.05%
QC value within limits for Mg 279.077 IEC Recovery = 103.69%						
Mn 257.610†	366938.3	493.58 µg/L	1.118	493.58 ppb	1.118	0.23%
QC value within limits for Mn 257.610 Recovery = 98.72%						
Mo 202.031†	4727.3	512.69 µg/L	2.115	512.69 ppb	2.115	0.41%
QC value within limits for Mo 202.031 Recovery = 102.54%						
Na 589.592 Radial†	98888.8	10144 µg/L	276.2	10144 ppb	276.2	2.72%
QC value within limits for Na 589.592 Radial Recovery = 101.44%						
Ni 231.604†	10282.7	494.60 µg/L	4.933	494.60 ppb	4.933	1.00%
QC value within limits for Ni 231.604 Recovery = 98.92%						
P 214.914†	3840.3	2494.4 µg/L	10.96	2494.4 ppb	10.96	0.44%
QC value within limits for P 214.914 Recovery = 99.77%						
Pb 220.353†	2567.1	496.90 µg/L	2.622	496.90 ppb	2.622	0.53%
QC value within limits for Pb 220.353 Recovery = 99.38%						
S 181.975 Axial†	568.9	1002.7 µg/L	9.00	1002.7 ppb	9.00	0.90%
QC value within limits for S 181.975 Axial Recovery = 100.27%						
Sb 206.836†	1326.8	504.94 µg/L	0.795	504.94 ppb	0.795	0.16%
QC value within limits for Sb 206.836 Recovery = 100.99%						
Se 196.026†	685.1	486 µg/L	2.5	486 ppb	2.5	0.51%
QC value within limits for Se 196.026 Recovery = 97.17%						
SiO2 †	92543.2	5397.8 µg/L	50.93	5397.8 ppb	50.93	0.94%
QC value within limits for SiO2 Recovery = 100.94%						
Si 251.611†	90159.3	2470 µg/L	5.8	2470 ppb	5.8	0.23%
QC value within limits for Si 251.611 Recovery = 98.73%						
Sn 189.927†	2275.4	495.08 µg/L	2.287	495.08 ppb	2.287	0.46%
QC value within limits for Sn 189.927 Recovery = 99.02%						
Sr 421.552†	201691.3	507.86 µg/L	14.162	507.86 ppb	14.162	2.79%
QC value within limits for Sr 421.552 Recovery = 101.57%						
Ti 334.940†	505778.3	500.58 µg/L	0.859	500.58 ppb	0.859	0.17%
QC value within limits for Ti 334.940 Recovery = 100.12%						
Tl 190.801†	1517.5	487.53 µg/L	1.384	487.53 ppb	1.384	0.28%
QC value within limits for Tl 190.801 Recovery = 97.51%						
U 409.014†	10205.7	498.30 µg/L	3.780	498.30 ppb	3.780	0.76%
QC value within limits for U 409.014 Recovery = 99.66%						
V 292.402†	45538.8	495.97 µg/L	4.836	495.97 ppb	4.836	0.97%
QC value within limits for V 292.402 Recovery = 99.19%						
Zn 213.857†	25420.6	489.87 µg/L	4.795	489.87 ppb	4.795	0.98%
QC value within limits for Zn 213.857 Recovery = 97.97%						

All analyte(s) passed QC.

Sequence No.: 19
Sample ID: CCB
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 13:28:05
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	70418.0	70418.0	97.7	%			13:29:49
1	Al 396.153Radial†	66.7	32.2	5.8949	µg/L	5.8949	ppb	13:29:49
1	Ca 317.933Radial†	263.3	14.0	2.0571	µg/L	2.0571	ppb	13:30:09
1	Fe 238.204 Radial†	43.1	3.5	4.8634	µg/L	4.8634	ppb	13:30:09
1	K 766.490 Radial†	1110.0	59.2	16.158	µg/L	16.158	ppb	13:29:49
1	Mg 279.077 IEC†	5.8	4.8	9.8653	µg/L	9.8653	ppb	13:30:09
1	Na 589.592 Radial†	819.5	-345.5	-35.438	µg/L	-35.438	ppb	13:29:49
1	Sr 421.552†	23.7	19.6	0.0494	µg/L	0.0494	ppb	13:29:49
1	Sc 361.383	1499463.7	1499463.7	98.097	%			13:31:07
1	Y 371.029	831254.5	831254.5	98.060	%			13:31:07
1	Ag 328.068†	-846.0	56.1	0.3143	µg/L	0.3143	ppb	13:31:13
1	As 188.979†	1.2	-1.2	-0.4797	µg/L	-0.4797	ppb	13:31:33
1	B 249.677†	204.7	122.9	5.7457	µg/L	5.7457	ppb	13:31:33
1	Ba 233.527†	-111.2	4.3	0.0346	µg/L	0.0346	ppb	13:31:33
1	Be 313.107†	410.3	55.2	0.0288	µg/L	0.0288	ppb	13:31:13
1	Cd 226.502†	-37.8	-5.8	-0.1607	µg/L	-0.1607	ppb	13:31:33
1	Co 228.616†	-52.6	9.1	0.2162	µg/L	0.2162	ppb	13:31:33
1	Cr 267.716†	49.6	-4.5	-0.0957	µg/L	-0.0957	ppb	13:31:33
1	Cu 324.752†	3912.4	123.1	0.3744	µg/L	0.3744	ppb	13:31:13
1	Mn 257.610†	456.6	94.2	0.1271	µg/L	0.1271	ppb	13:31:33
1	Mo 202.031†	-5.6	7.7	0.8310	µg/L	0.8310	ppb	13:31:33
1	Ni 231.604†	158.2	3.9	0.1875	µg/L	0.1875	ppb	13:31:33
1	P 214.914†	173.1	9.6	6.2411	µg/L	6.2411	ppb	13:31:33
1	Pb 220.353†	12.0	5.3	1.0330	µg/L	1.0330	ppb	13:31:33
1	S 181.975 Axial†	31.4	2.4	4.1629	µg/L	4.1629	ppb	13:31:33
1	Sb 206.836†	20.7	5.0	1.8859	µg/L	1.8859	ppb	13:31:33
1	Se 196.026†	-18.6	5.7	4.02	µg/L	4.02	ppb	13:31:33
1	SiO2 †	908.2	210.0	12.248	µg/L	12.248	ppb	13:31:33
1	Sn 189.927†	-21.3	1.1	0.2447	µg/L	0.2447	ppb	13:31:33
1	Ti 334.940†	629.2	98.5	0.0976	µg/L	0.0976	ppb	13:31:13
1	Tl 190.801†	-24.5	4.6	1.4840	µg/L	1.4840	ppb	13:31:33
1	U 409.014†	394.5	34.9	1.6957	µg/L	1.6957	ppb	13:31:13
1	V 292.402†	-80.5	3.2	0.0444	µg/L	0.0444	ppb	13:31:13
1	Zn 213.857†	300.2	11.8	0.2269	µg/L	0.2269	ppb	13:31:33
1	Si 251.611†	860.7	169.5	4.64	µg/L	4.64	ppb	13:32:56
2	Sc RADIAL	70139.0	70139.0	97.3	%			13:30:14
2	Al 396.153Radial†	42.0	7.1	1.2613	µg/L	1.2613	ppb	13:30:14
2	Ca 317.933Radial†	270.4	22.4	3.2966	µg/L	3.2966	ppb	13:30:34
2	Fe 238.204 Radial†	44.1	4.7	6.5662	µg/L	6.5662	ppb	13:30:34
2	K 766.490 Radial†	1068.7	21.2	5.8000	µg/L	5.8000	ppb	13:30:14
2	Mg 279.077 IEC†	0.5	-0.7	-1.3961	µg/L	-1.3961	ppb	13:30:34
2	Na 589.592 Radial†	826.0	-335.5	-34.415	µg/L	-34.415	ppb	13:30:14
2	Sr 421.552†	58.0	55.0	0.1384	µg/L	0.1384	ppb	13:30:14
2	Sc 361.383	1503627.4	1503627.4	98.370	%			13:31:38
2	Y 371.029	834059.5	834059.5	98.391	%			13:31:38
2	Ag 328.068†	-881.8	22.2	0.1256	µg/L	0.1256	ppb	13:31:44
2	As 188.979†	-3.0	-5.4	-2.2372	µg/L	-2.2372	ppb	13:32:04
2	B 249.677†	184.8	102.2	4.7746	µg/L	4.7746	ppb	13:32:04
2	Ba 233.527†	-116.8	-1.1	-0.0082	µg/L	-0.0082	ppb	13:32:04
2	Be 313.107†	420.4	64.4	0.0336	µg/L	0.0336	ppb	13:31:44
2	Cd 226.502†	-40.6	-8.6	-0.2370	µg/L	-0.2370	ppb	13:32:04
2	Co 228.616†	-57.4	4.4	0.1039	µg/L	0.1039	ppb	13:32:04
2	Cr 267.716†	57.2	3.1	0.0646	µg/L	0.0646	ppb	13:32:04
2	Cu 324.752†	3847.1	45.7	0.1372	µg/L	0.1372	ppb	13:31:44
2	Mn 257.610†	428.2	64.0	0.0867	µg/L	0.0867	ppb	13:32:04
2	Mo 202.031†	-3.9	9.4	1.0216	µg/L	1.0216	ppb	13:32:04
2	Ni 231.604†	152.1	-2.8	-0.1310	µg/L	-0.1310	ppb	13:32:04
2	P 214.914†	167.9	3.9	2.5234	µg/L	2.5234	ppb	13:32:04

2	Pb 220.353†	20.7	14.2	2.7444	µg/L	2.7444 ppb	13:32:04
2	S 181.975 Axial†	35.8	6.8	11.975	µg/L	11.975 ppb	13:32:04
2	Sb 206.836†	22.0	6.3	2.3751	µg/L	2.3751 ppb	13:32:04
2	Se 196.026†	-20.8	3.4	2.45	µg/L	2.45 ppb	13:32:04
2	SiO2 †	907.3	206.5	12.042	µg/L	12.042 ppb	13:32:04
2	Sn 189.927†	-27.6	-5.2	-1.1255	µg/L	-1.1255 ppb	13:32:04
2	Ti 334.940†	568.4	35.0	0.0346	µg/L	0.0346 ppb	13:31:44
2	Tl 190.801†	-28.4	0.8	0.2527	µg/L	0.2527 ppb	13:32:04
2	U 409.014†	407.7	47.1	2.2905	µg/L	2.2905 ppb	13:31:44
2	V 292.402†	-65.5	18.7	0.2130	µg/L	0.2130 ppb	13:31:44
2	Zn 213.857†	304.6	15.4	0.2980	µg/L	0.2980 ppb	13:32:04
2	Si 251.611†	911.3	218.5	5.98	µg/L	5.98 ppb	13:33:16
3	Sc RADIAL	70324.9	70324.9	97.5	%		13:30:39
3	Al 396.153Radial†	3.2	-32.8	-6.0682	µg/L	-6.0682 ppb	13:30:39
3	Ca 317.933Radial†	264.8	15.9	2.3451	µg/L	2.3451 ppb	13:31:00
3	Fe 238.204 Radial†	42.7	3.1	4.3622	µg/L	4.3622 ppb	13:31:00
3	K 766.490 Radial†	1152.5	104.2	28.469	µg/L	28.469 ppb	13:30:39
3	Mg 279.077 IEC†	10.7	9.8	20.330	µg/L	20.330 ppb	13:31:00
3	Na 589.592 Radial†	763.1	-402.2	-41.261	µg/L	-41.261 ppb	13:30:39
3	Sr 421.552†	36.0	32.3	0.0812	µg/L	0.0812 ppb	13:30:39
3	Sc 361.383	1501169.7	1501169.7	98.209	%		13:32:09
3	Y 371.029	832481.0	832481.0	98.205	%		13:32:09
3	Ag 328.068†	-812.9	90.8	0.5067	µg/L	0.5067 ppb	13:32:14
3	As 188.979†	-4.5	-7.0	-2.8949	µg/L	-2.8949 ppb	13:32:35
3	B 249.677†	208.4	126.4	5.9081	µg/L	5.9081 ppb	13:32:35
3	Ba 233.527†	-115.8	-0.3	-0.0022	µg/L	-0.0022 ppb	13:32:35
3	Be 313.107†	324.9	-32.2	-0.0168	µg/L	-0.0168 ppb	13:32:14
3	Cd 226.502†	-32.6	-0.4	-0.0121	µg/L	-0.0121 ppb	13:32:35
3	Co 228.616†	-61.8	-0.3	-0.0050	µg/L	-0.0050 ppb	13:32:35
3	Cr 267.716†	50.1	-4.0	-0.0851	µg/L	-0.0851 ppb	13:32:35
3	Cu 324.752†	3882.4	88.1	0.2697	µg/L	0.2697 ppb	13:32:14
3	Mn 257.610†	453.0	90.1	0.1215	µg/L	0.1215 ppb	13:32:35
3	Mo 202.031†	-7.1	6.2	0.6669	µg/L	0.6669 ppb	13:32:35
3	Ni 231.604†	156.5	1.9	0.0910	µg/L	0.0910 ppb	13:32:35
3	P 214.914†	163.8	-0.0	-0.0078	µg/L	-0.0078 ppb	13:32:35
3	Pb 220.353†	8.8	2.0	0.3940	µg/L	0.3940 ppb	13:32:35
3	S 181.975 Axial†	33.3	4.3	7.4920	µg/L	7.4920 ppb	13:32:35
3	Sb 206.836†	23.8	8.2	3.0774	µg/L	3.0774 ppb	13:32:35
3	Se 196.026†	-18.8	5.4	3.84	µg/L	3.84 ppb	13:32:35
3	SiO2 †	894.0	194.4	11.341	µg/L	11.341 ppb	13:32:35
3	Sn 189.927†	-21.9	0.6	0.1340	µg/L	0.1340 ppb	13:32:35
3	Ti 334.940†	564.5	31.9	0.0318	µg/L	0.0318 ppb	13:32:14
3	Tl 190.801†	-31.3	-2.2	-0.7082	µg/L	-0.7082 ppb	13:32:35
3	U 409.014†	344.2	-16.8	-0.8170	µg/L	-0.8170 ppb	13:32:14
3	V 292.402†	-106.8	-23.4	-0.2464	µg/L	-0.2464 ppb	13:32:14
3	Zn 213.857†	305.1	16.5	0.3164	µg/L	0.3164 ppb	13:32:35
3	Si 251.611†	904.2	212.8	5.83	µg/L	5.83 ppb	13:33:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1501420.3	98.225	%	0.1369				0.14%
Sc RADIAL	70294.0	97.5	%	0.20				0.20%
Y 371.029	832598.3	98.218	%	0.1659				0.17%
Ag 328.068†	56.4	0.3156	µg/L	0.19053	0.3156	ppb	0.19053	60.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2.2	0.3627	µg/L	6.03199	0.3627	ppb	6.03199	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-4.5	-1.8706	µg/L	1.24865	-1.8706	ppb	1.24865	66.75%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	117.2	5.4762	µg/L	0.61297	5.4762	ppb	0.61297	11.19%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	1.0	0.0080	µg/L	0.02317	0.0080	ppb	0.02317	288.36%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	29.1	0.0152	µg/L	0.02781	0.0152	ppb	0.02781	183.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	17.4	2.5663	µg/L	0.64867	2.5663	ppb	0.64867	25.28%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-4.9	-0.1366	µg/L	0.11436	-0.1366	ppb	0.11436	83.71%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	4.4	0.1050 µg/L	0.11063	0.1050 ppb	0.11063	105.33%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1.8	-0.0387 µg/L	0.08966	-0.0387 ppb	0.08966	231.53%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	85.7	0.2605 µg/L	0.11889	0.2605 ppb	0.11889	45.65%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	3.7	5.2639 µg/L	1.15532	5.2639 ppb	1.15532	21.95%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	61.5	16.809 µg/L	11.3486	16.809 ppb	11.3486	67.51%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	4.6	9.5996 µg/L	10.86537	9.5996 ppb	10.86537	113.19%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	82.8	0.1117 µg/L	0.02188	0.1117 ppb	0.02188	19.58%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.7	0.8398 µg/L	0.17750	0.8398 ppb	0.17750	21.14%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-361.1	-37.038 µg/L	3.6929	-37.038 ppb	3.6929	9.97%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	1.0	0.0492 µg/L	0.16329	0.0492 ppb	0.16329	332.04%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.5	2.9189 µg/L	3.14315	2.9189 ppb	3.14315	107.68%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	7.2	1.3905 µg/L	1.21527	1.3905 ppb	1.21527	87.40%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.5	7.8766 µg/L	3.92014	7.8766 ppb	3.92014	49.77%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	6.5	2.4461 µg/L	0.59891	2.4461 ppb	0.59891	24.48%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.9	3.44 µg/L	0.861	3.44 ppb	0.861	25.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	203.6	11.877 µg/L	0.4758	11.877 ppb	0.4758	4.01%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	200.3	5.48 µg/L	0.733	5.48 ppb	0.733	13.38%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.1	-0.2489 µg/L	0.76116	-0.2489 ppb	0.76116	305.81%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	35.6	0.0897 µg/L	0.04508	0.0897 ppb	0.04508	50.27%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	55.1	0.0547 µg/L	0.03720	0.0547 ppb	0.03720	68.05%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1.1	0.3428 µg/L	1.09885	0.3428 ppb	1.09885	320.51%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	21.8	1.0564 µg/L	1.64944	1.0564 ppb	1.64944	156.13%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-0.5	0.0037 µg/L	0.23242	0.0037 ppb	0.23242	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	14.6	0.2804 µg/L	0.04727	0.2804 ppb	0.04727	16.86%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: 157896002|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 3/14/2006 13:35:44
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896002|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71242.7	71242.7	98.8	%			13:37:28
1	Al 396.153Radial†	52105.3	52693.4	9711.8	µg/L	9711.8	ppb	13:37:28
1	Ca 317.933Radial†	59449.1	59905.6	8827.2	µg/L	8827.2	ppb	13:37:28
1	Fe 238.204 Radial†	12727.0	12838.8	18046	µg/L	18046	ppb	13:37:48
1	K 766.490 Radial†	21843.3	21027.6	5742.6	µg/L	5742.6	ppb	13:37:28
1	Mg 279.077 IEC†	613.1	619.2	1269.5	µg/L	1269.5	ppb	13:37:48
1	Na 589.592 Radial†	33627.5	32845.8	3369.2	µg/L	3369.2	ppb	13:37:28
1	Sr 421.552†	3416.1	3452.4	8.4474	µg/L	8.4474	ppb	13:37:28
1	Sc 361.383	1508661.4	1508661.4	98.699	%			13:38:49
1	Y 371.029	1229457.7	1229457.7	145.03	%			13:38:49
1	Ag 328.068†	-1935.8	-1042.7	-1.7764	µg/L	-1.7764	ppb	13:38:54
1	As 188.979†	48.6	46.8	21.032	µg/L	21.032	ppb	13:39:14
1	B 249.677†	310.6	229.0	5.4246	µg/L	5.4246	ppb	13:39:14
1	Ba 233.527†	5211.1	5397.4	43.220	µg/L	43.220	ppb	13:38:54
1	Be 313.107†	9107.0	8864.1	4.5369	µg/L	4.5369	ppb	13:38:54
1	Cd 226.502†	8.8	41.6	-0.6301	µg/L	-0.6301	ppb	13:39:14
1	Co 228.616†	134.5	199.0	3.7050	µg/L	3.7050	ppb	13:39:14
1	Cr 267.716†	613.6	566.6	11.839	µg/L	11.839	ppb	13:39:14
1	Cu 324.752†	7876.2	4114.9	12.946	µg/L	12.946	ppb	13:38:54
1	Mn 257.610†	950817.9	962981.1	1295.8	µg/L	1295.8	ppb	13:38:49
1	Mo 202.031†	47.7	61.7	7.1371	µg/L	7.1371	ppb	13:39:14
1	Ni 231.604†	270.1	116.2	5.7257	µg/L	5.7257	ppb	13:39:14
1	P 214.914†	780.5	624.0	386.60	µg/L	386.60	ppb	13:39:14
1	Pb 220.353†	531.3	531.4	103.70	µg/L	103.70	ppb	13:39:14
1	S 181.975 Axial†	43.2	14.1	22.803	µg/L	22.803	ppb	13:39:14
1	Sb 206.836†	16.9	1.1	0.4314	µg/L	0.4314	ppb	13:39:14
1	Se 196.026†	-31.8	-7.6	-5.22	µg/L	-5.22	ppb	13:39:14
1	SiO2 †	488095.1	493813.7	28803	µg/L	28803	ppb	13:38:49
1	Sn 189.927†	-33.5	-11.0	-0.6611	µg/L	-0.6611	ppb	13:39:14
1	Ti 334.940†	1612933.8	1633654.0	1618.0	µg/L	1618.0	ppb	13:38:49
1	Tl 190.801†	-92.0	-63.5	-19.743	µg/L	-19.743	ppb	13:39:14
1	U 409.014†	1173.1	821.3	39.950	µg/L	39.950	ppb	13:38:49
1	V 292.402†	1074.0	1173.4	12.529	µg/L	12.529	ppb	13:39:14
1	Zn 213.857†	12045.0	11909.6	228.13	µg/L	228.13	ppb	13:38:54
1	Si 251.611†	488128.2	493855.1	13500	µg/L	13500	ppb	13:40:27
2	Sc RADIAL	72875.0	72875.0	101	%			13:37:53
2	Al 396.153Radial†	52101.7	51508.7	9493.4	µg/L	9493.4	ppb	13:37:53
2	Ca 317.933Radial†	59537.1	58645.1	8641.5	µg/L	8641.5	ppb	13:37:53
2	Fe 238.204 Radial†	12703.2	12526.8	17607	µg/L	17607	ppb	13:38:13
2	K 766.490 Radial†	21944.7	20632.8	5634.8	µg/L	5634.8	ppb	13:37:53
2	Mg 279.077 IEC†	615.2	607.5	1245.5	µg/L	1245.5	ppb	13:38:13
2	Na 589.592 Radial†	33814.0	32268.1	3310.0	µg/L	3310.0	ppb	13:37:53
2	Sr 421.552†	3415.8	3374.7	8.2568	µg/L	8.2568	ppb	13:37:53
2	Sc 361.383	1507137.2	1507137.2	98.599	%			13:39:22
2	Y 371.029	1229451.6	1229451.6	145.03	%			13:39:22
2	Ag 328.068†	-1978.2	-1087.7	-2.1242	µg/L	-2.1242	ppb	13:39:27
2	As 188.979†	50.6	48.9	21.843	µg/L	21.843	ppb	13:39:47
2	B 249.677†	320.6	239.5	6.0469	µg/L	6.0469	ppb	13:39:47
2	Ba 233.527†	5242.8	5434.9	43.526	µg/L	43.526	ppb	13:39:27
2	Be 313.107†	9185.9	8953.3	4.5832	µg/L	4.5832	ppb	13:39:27
2	Cd 226.502†	6.4	39.2	-0.6540	µg/L	-0.6540	ppb	13:39:47
2	Co 228.616†	120.4	184.9	3.3799	µg/L	3.3799	ppb	13:39:47
2	Cr 267.716†	629.9	583.8	12.199	µg/L	12.199	ppb	13:39:47
2	Cu 324.752†	7883.3	4130.2	12.986	µg/L	12.986	ppb	13:39:27
2	Mn 257.610†	953501.0	966676.6	1300.7	µg/L	1300.7	ppb	13:39:22
2	Mo 202.031†	56.0	70.1	8.0373	µg/L	8.0373	ppb	13:39:47
2	Ni 231.604†	269.9	116.3	5.7298	µg/L	5.7298	ppb	13:39:47
2	P 214.914†	776.2	620.4	384.74	µg/L	384.74	ppb	13:39:47

2	Pb 220.353†	540.7	541.5	105.64 µg/L	105.64 ppb	13:39:47
2	S 181.975 Axial†	35.5	6.4	9.2647 µg/L	9.2647 ppb	13:39:47
2	Sb 206.836†	16.7	0.9	0.3720 µg/L	0.3720 ppb	13:39:47
2	Se 196.026†	-28.6	-4.4	-2.98 µg/L	-2.98 ppb	13:39:47
2	SiO2 †	489545.1	495784.4	28918 µg/L	28918 ppb	13:39:22
2	Sn 189.927†	-30.3	-7.9	-0.0132 µg/L	-0.0132 ppb	13:39:47
2	Ti 334.940†	1617273.8	1639708.3	1624.0 µg/L	1624.0 ppb	13:39:22
2	Tl 190.801†	-89.5	-61.1	-18.964 µg/L	-18.964 ppb	13:39:47
2	U 409.014†	1014.5	661.6	32.196 µg/L	32.196 ppb	13:39:22
2	V 292.402†	1085.5	1186.2	12.667 µg/L	12.667 ppb	13:39:47
2	Zn 213.857†	12129.5	12007.7	230.08 µg/L	230.08 ppb	13:39:27
2	Si 251.611†	485565.1	491755.8	13500 µg/L	13500 ppb	13:40:33
3	Sc RADIAL	72117.3	72117.3	100 %		13:38:18
3	Al 396.153Radial†	52519.5	52468.0	9670.2 µg/L	9670.2 ppb	13:38:18
3	Ca 317.933Radial†	59962.8	59689.5	8795.4 µg/L	8795.4 ppb	13:38:18
3	Fe 238.204 Radial†	12567.2	12522.9	17602 µg/L	17602 ppb	13:38:39
3	K 766.490 Radial†	22115.4	21031.6	5743.7 µg/L	5743.7 ppb	13:38:18
3	Mg 279.077 IEC†	608.5	607.1	1244.7 µg/L	1244.7 ppb	13:38:39
3	Na 589.592 Radial†	34124.7	32930.1	3377.9 µg/L	3377.9 ppb	13:38:18
3	Sr 421.552†	3436.1	3430.5	8.3931 µg/L	8.3931 ppb	13:38:18
3	Sc 361.383	1507821.2	1507821.2	98.644 %		13:39:55
3	Y 371.029	1232102.8	1232102.8	145.35 %		13:39:55
3	Ag 328.068†	-2016.2	-1125.4	-2.3363 µg/L	-2.3363 ppb	13:40:00
3	As 188.979†	44.1	42.3	19.129 µg/L	19.129 ppb	13:40:20
3	B 249.677†	313.7	232.2	5.7094 µg/L	5.7094 ppb	13:40:20
3	Ba 233.527†	5305.3	5495.9	44.017 µg/L	44.017 ppb	13:40:00
3	Be 313.107†	9285.9	9050.5	4.6334 µg/L	4.6334 ppb	13:40:00
3	Cd 226.502†	11.0	43.8	-0.5252 µg/L	-0.5252 ppb	13:40:20
3	Co 228.616†	136.0	200.6	3.7460 µg/L	3.7460 ppb	13:40:20
3	Cr 267.716†	622.4	575.9	12.033 µg/L	12.033 ppb	13:40:20
3	Cu 324.752†	7952.7	4196.9	13.185 µg/L	13.185 ppb	13:40:00
3	Mn 257.610†	958173.5	970974.6	1306.5 µg/L	1306.5 ppb	13:39:55
3	Mo 202.031†	53.2	67.3	7.7350 µg/L	7.7350 ppb	13:40:20
3	Ni 231.604†	265.3	111.5	5.4993 µg/L	5.4993 ppb	13:40:20
3	P 214.914†	774.6	618.4	383.45 µg/L	383.45 ppb	13:40:20
3	Pb 220.353†	548.7	549.3	107.17 µg/L	107.17 ppb	13:40:20
3	S 181.975 Axial†	40.4	11.3	17.813 µg/L	17.813 ppb	13:40:20
3	Sb 206.836†	21.5	5.8	2.1998 µg/L	2.1998 ppb	13:40:20
3	Se 196.026†	-36.2	-12.0	-8.38 µg/L	-8.38 ppb	13:40:20
3	SiO2 †	491302.9	497341.1	29009 µg/L	29009 ppb	13:39:55
3	Sn 189.927†	-29.0	-6.5	0.3049 µg/L	0.3049 ppb	13:40:20
3	Ti 334.940†	1625311.3	1647112.2	1631.3 µg/L	1631.3 ppb	13:39:55
3	Tl 190.801†	-96.2	-67.8	-21.121 µg/L	-21.121 ppb	13:40:20
3	U 409.014†	1093.2	741.0	36.046 µg/L	36.046 ppb	13:39:55
3	V 292.402†	1049.2	1148.9	12.266 µg/L	12.266 ppb	13:40:20
3	Zn 213.857†	12155.4	12028.3	230.47 µg/L	230.47 ppb	13:40:00
3	Si 251.611†	488524.2	494532.2	13500 µg/L	13500 ppb	13:40:39

Mean Data: 157896002|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1507873.2	98.647	%	0.0499				0.05%
Sc RADIAL	72078.3	100.0	%	1.13				1.13%
Y 371.029	1230337.4	145.14	%	0.180				0.12%
Ag 328.068†	-1085.3	-2.0789	µg/L	0.28267	-2.0789	ppb	0.28267	13.60%
Al 396.153Radial†	52223.4	9625.1	µg/L	115.97	9625.1	ppb	115.97	1.20%
As 188.979†	46.0	20.668	µg/L	1.3932	20.668	ppb	1.3932	6.74%
B 249.677†	233.6	5.7270	µg/L	0.31153	5.7270	ppb	0.31153	5.44%
Ba 233.527†	5442.7	43.588	µg/L	0.4022	43.588	ppb	0.4022	0.92%
Be 313.107†	8956.0	4.5845	µg/L	0.04828	4.5845	ppb	0.04828	1.05%
Ca 317.933Radial†	59413.4	8754.7	µg/L	99.33	8754.7	ppb	99.33	1.13%
Cd 226.502†	41.5	-0.6031	µg/L	0.06851	-0.6031	ppb	0.06851	11.36%
Co 228.616†	194.8	3.6103	µg/L	0.20061	3.6103	ppb	0.20061	5.56%
Cr 267.716†	575.4	12.023	µg/L	0.1803	12.023	ppb	0.1803	1.50%
Cu 324.752†	4147.3	13.039	µg/L	0.1281	13.039	ppb	0.1281	0.98%
Fe 238.204 Radial†	12629.5	17752	µg/L	254.8	17752	ppb	254.8	1.44%
K 766.490 Radial†	20897.3	5707.0	µg/L	62.57	5707.0	ppb	62.57	1.10%
Mg 279.077 IEC†	611.3	1253.2	µg/L	14.10	1253.2	ppb	14.10	1.13%
Mn 257.610†	966877.4	1301.0	µg/L	5.35	1301.0	ppb	5.35	0.41%
Mo 202.031†	66.4	7.6365	µg/L	0.45811	7.6365	ppb	0.45811	6.00%

Na 589.592 Radial†	32681.3	3352.4	µg/L	36.97	3352.4	ppb	36.97	1.10%
Ni 231.604†	114.7	5.6516	µg/L	0.13193	5.6516	ppb	0.13193	2.33%
P 214.914†	620.9	384.93	µg/L	1.582	384.93	ppb	1.582	0.41%
Pb 220.353†	540.7	105.50	µg/L	1.737	105.50	ppb	1.737	1.65%
S 181.975 Axial†	10.6	16.627	µg/L	6.8467	16.627	ppb	6.8467	41.18%
Sb 206.836†	2.6	1.0011	µg/L	1.03857	1.0011	ppb	1.03857	103.74%
Se 196.026†	-8.0	-5.53	µg/L	2.714	-5.53	ppb	2.714	49.11%
SiO2 †	495646.4	28910	µg/L	103.1	28910	ppb	103.1	0.36%
Si 251.611†	493381.0	13500	µg/L	39.6	13500	ppb	39.6	0.29%
Sn 189.927†	-8.5	-0.1231	µg/L	0.49228	-0.1231	ppb	0.49228	399.78%
Sr 421.552†	3419.2	8.3657	µg/L	0.09818	8.3657	ppb	0.09818	1.17%
Ti 334.940†	1640158.2	1624.4	µg/L	6.67	1624.4	ppb	6.67	0.41%
Tl 190.801†	-64.2	-19.943	µg/L	1.0925	-19.943	ppb	1.0925	5.48%
U 409.014†	741.3	36.064	µg/L	3.8774	36.064	ppb	3.8774	10.75%
V 292.402†	1169.5	12.488	µg/L	0.2040	12.488	ppb	0.2040	1.63%
Zn 213.857†	11981.8	229.56	µg/L	1.254	229.56	ppb	1.254	0.55%

Sequence No.: 21
Sample ID: 157896003|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 57
Date Collected: 3/14/2006 13:42:47
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896003|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70228.6	70228.6	97.4	%			13:44:31
1	Al 396.153Radial†	55040.4	56467.9	10407	µg/L	10407	ppb	13:44:31
1	Ca 317.933Radial†	48572.8	49608.8	7310.0	µg/L	7310.0	ppb	13:44:31
1	Fe 238.204 Radial†	11283.4	11542.7	16224	µg/L	16224	ppb	13:44:31
1	K 766.490 Radial†	26284.3	25905.9	7074.9	µg/L	7074.9	ppb	13:44:31
1	Mg 279.077 IEC†	241.7	247.0	499.91	µg/L	499.91	ppb	13:44:51
1	Na 589.592 Radial†	43696.9	43674.4	4480.0	µg/L	4480.0	ppb	13:44:31
1	Sr 421.552†	2401.4	2460.6	5.9921	µg/L	5.9921	ppb	13:44:31
1	Sc 361.383	1499492.5	1499492.5	98.099	%			13:45:52
1	Y 371.029	1174039.4	1174039.4	138.50	%			13:45:52
1	Ag 328.068†	-1866.0	-983.7	-1.8624	µg/L	-1.8624	ppb	13:45:57
1	As 188.979†	31.7	29.9	13.981	µg/L	13.981	ppb	13:46:18
1	B 249.677†	282.4	202.1	4.7726	µg/L	4.7726	ppb	13:46:18
1	Ba 233.527†	4159.4	4357.6	34.874	µg/L	34.874	ppb	13:46:18
1	Be 313.107†	6957.5	6729.3	3.4405	µg/L	3.4405	ppb	13:45:57
1	Cd 226.502†	6.7	39.5	-0.5084	µg/L	-0.5084	ppb	13:46:18
1	Co 228.616†	84.3	148.7	2.6706	µg/L	2.6706	ppb	13:46:18
1	Cr 267.716†	1489.8	1463.5	30.676	µg/L	30.676	ppb	13:46:18
1	Cu 324.752†	7453.4	3732.7	11.768	µg/L	11.768	ppb	13:45:57
1	Mn 257.610†	741124.8	755115.2	1016.3	µg/L	1016.3	ppb	13:45:52
1	Mo 202.031†	83.1	98.0	11.026	µg/L	11.026	ppb	13:46:18
1	Ni 231.604†	202.3	48.8	2.4761	µg/L	2.4761	ppb	13:46:18
1	P 214.914†	537.6	381.2	230.56	µg/L	230.56	ppb	13:46:18
1	Pb 220.353†	588.3	592.8	115.67	µg/L	115.67	ppb	13:46:18
1	S 181.975 Axial†	41.0	12.2	19.200	µg/L	19.200	ppb	13:46:18
1	Sb 206.836†	13.2	-2.6	-0.9202	µg/L	-0.9202	ppb	13:46:18
1	Se 196.026†	-20.5	3.7	2.65	µg/L	2.65	ppb	13:46:18
1	SiO2 †	431004.8	438641.0	25585	µg/L	25585	ppb	13:45:52
1	Sn 189.927†	-33.7	-11.4	-0.9357	µg/L	-0.9357	ppb	13:46:18
1	Ti 334.940†	1341629.1	1367084.5	1354.0	µg/L	1354.0	ppb	13:45:52
1	Tl 190.801†	-87.5	-59.6	-18.603	µg/L	-18.603	ppb	13:46:18
1	U 409.014†	796.5	444.6	21.599	µg/L	21.599	ppb	13:45:52
1	V 292.402†	611.1	708.2	7.6303	µg/L	7.6303	ppb	13:46:18
1	Zn 213.857†	6264.9	6092.1	115.88	µg/L	115.88	ppb	13:46:18
1	Si 251.611†	425781.7	433324.6	11900	µg/L	11900	ppb	13:47:30
2	Sc RADIAL	70304.0	70304.0	97.5	%			13:44:56
2	Al 396.153Radial†	55047.9	56415.0	10398	µg/L	10398	ppb	13:44:56
2	Ca 317.933Radial†	48614.2	49597.8	7308.3	µg/L	7308.3	ppb	13:44:56
2	Fe 238.204 Radial†	11267.0	11513.5	16183	µg/L	16183	ppb	13:44:56
2	K 766.490 Radial†	26314.5	25907.9	7075.4	µg/L	7075.4	ppb	13:44:56
2	Mg 279.077 IEC†	239.7	244.6	495.02	µg/L	495.02	ppb	13:45:16
2	Na 589.592 Radial†	43645.6	43573.6	4469.7	µg/L	4469.7	ppb	13:44:56
2	Sr 421.552†	2471.7	2530.1	6.1671	µg/L	6.1671	ppb	13:44:56
2	Sc 361.383	1504888.8	1504888.8	98.452	%			13:46:25
2	Y 371.029	1178379.0	1178379.0	139.01	%			13:46:25
2	Ag 328.068†	-1810.1	-920.0	-1.5161	µg/L	-1.5161	ppb	13:46:30
2	As 188.979†	38.6	36.8	16.838	µg/L	16.838	ppb	13:46:50
2	B 249.677†	295.3	214.2	5.3540	µg/L	5.3540	ppb	13:46:50
2	Ba 233.527†	4163.4	4346.5	34.785	µg/L	34.785	ppb	13:46:50
2	Be 313.107†	7001.7	6748.7	3.4506	µg/L	3.4506	ppb	13:46:30
2	Cd 226.502†	5.4	38.2	-0.5416	µg/L	-0.5416	ppb	13:46:50
2	Co 228.616†	76.9	140.8	2.4875	µg/L	2.4875	ppb	13:46:50
2	Cr 267.716†	1504.5	1473.0	30.876	µg/L	30.876	ppb	13:46:50
2	Cu 324.752†	7478.6	3731.0	11.753	µg/L	11.753	ppb	13:46:30
2	Mn 257.610†	744304.3	755635.6	1017.0	µg/L	1017.0	ppb	13:46:25
2	Mo 202.031†	88.0	102.8	11.541	µg/L	11.541	ppb	13:46:50
2	Ni 231.604†	207.0	52.8	2.6693	µg/L	2.6693	ppb	13:46:50
2	P 214.914†	528.6	370.1	223.36	µg/L	223.36	ppb	13:46:50

2	Pb 220.353†	591.7	594.1	115.91 µg/L	115.91 ppb	13:46:50
2	S 181.975 Axial†	44.7	15.8	25.555 µg/L	25.555 ppb	13:46:50
2	Sb 206.836†	23.0	7.3	2.8217 µg/L	2.8217 ppb	13:46:50
2	Se 196.026†	-26.1	-1.9	-1.26 µg/L	-1.26 ppb	13:46:50
2	SiO2 †	433710.1	439813.3	25653 µg/L	25653 ppb	13:46:25
2	Sn 189.927†	-31.2	-8.9	-0.3794 µg/L	-0.3794 ppb	13:46:50
2	Ti 334.940†	1347954.1	1368604.8	1355.5 µg/L	1355.5 ppb	13:46:25
2	Tl 190.801†	-87.6	-59.3	-18.516 µg/L	-18.516 ppb	13:46:50
2	U 409.014†	967.1	615.1	29.877 µg/L	29.877 ppb	13:46:25
2	V 292.402†	636.9	732.2	7.9025 µg/L	7.9025 ppb	13:46:50
2	Zn 213.857†	6276.3	6080.8	115.67 µg/L	115.67 ppb	13:46:50
2	Si 251.611†	429247.1	435288.1	11900 µg/L	11900 ppb	13:47:36
3	Sc RADIAL	68865.9	68865.9	95.5 %		13:45:22
3	Al 396.153Radial†	54368.7	56882.7	10484 µg/L	10484 ppb	13:45:22
3	Ca 317.933Radial†	47984.7	49979.8	7364.6 µg/L	7364.6 ppb	13:45:22
3	Fe 238.204 Radial†	11153.2	11635.7	16355 µg/L	16355 ppb	13:45:22
3	K 766.490 Radial†	25898.2	26035.6	7110.3 µg/L	7110.3 ppb	13:45:22
3	Mg 279.077 IEC†	238.0	248.0	501.93 µg/L	501.93 ppb	13:45:42
3	Na 589.592 Radial†	43172.4	44012.9	4514.7 µg/L	4514.7 ppb	13:45:22
3	Sr 421.552†	2444.8	2554.8	6.2278 µg/L	6.2278 ppb	13:45:22
3	Sc 361.383	1494950.0	1494950.0	97.802 %		13:46:58
3	Y 371.029	1171437.5	1171437.5	138.19 %		13:46:58
3	Ag 328.068†	-1826.5	-949.0	-1.6400 µg/L	-1.6400 ppb	13:47:03
3	As 188.979†	30.6	28.9	13.587 µg/L	13.587 ppb	13:47:23
3	B 249.677†	309.8	231.0	6.0856 µg/L	6.0856 ppb	13:47:23
3	Ba 233.527†	4176.7	4388.1	35.118 µg/L	35.118 ppb	13:47:23
3	Be 313.107†	6946.1	6739.1	3.4456 µg/L	3.4456 ppb	13:47:03
3	Cd 226.502†	1.2	33.9	-0.6758 µg/L	-0.6758 ppb	13:47:23
3	Co 228.616†	72.9	137.2	2.3982 µg/L	2.3982 ppb	13:47:23
3	Cr 267.716†	1492.7	1471.2	30.836 µg/L	30.836 ppb	13:47:23
3	Cu 324.752†	7402.1	3703.3	11.673 µg/L	11.673 ppb	13:47:03
3	Mn 257.610†	740680.5	756956.5	1018.8 µg/L	1018.8 ppb	13:46:58
3	Mo 202.031†	82.7	97.9	11.016 µg/L	11.016 ppb	13:47:23
3	Ni 231.604†	199.4	46.5	2.3644 µg/L	2.3644 ppb	13:47:23
3	P 214.914†	535.5	380.8	230.14 µg/L	230.14 ppb	13:47:23
3	Pb 220.353†	592.1	598.5	116.78 µg/L	116.78 ppb	13:47:23
3	S 181.975 Axial†	34.8	6.0	8.3393 µg/L	8.3393 ppb	13:47:23
3	Sb 206.836†	14.1	-1.7	-0.5721 µg/L	-0.5721 ppb	13:47:23
3	Se 196.026†	-34.4	-10.6	-7.42 µg/L	-7.42 ppb	13:47:23
3	SiO2 †	432155.0	441152.0	25731 µg/L	25731 ppb	13:46:58
3	Sn 189.927†	-32.4	-10.3	-0.6693 µg/L	-0.6693 ppb	13:47:23
3	Ti 334.940†	1340580.5	1370167.9	1357.0 µg/L	1357.0 ppb	13:46:58
3	Tl 190.801†	-82.2	-54.4	-16.938 µg/L	-16.938 ppb	13:47:23
3	U 409.014†	983.1	637.9	30.984 µg/L	30.984 ppb	13:46:58
3	V 292.402†	620.4	719.6	7.7637 µg/L	7.7637 ppb	13:47:23
3	Zn 213.857†	6244.1	6090.2	115.83 µg/L	115.83 ppb	13:47:23
3	Si 251.611†	428408.3	437329.1	12000 µg/L	12000 ppb	13:47:42

Mean Data: 157896003|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1499777.1	98.118	%	0.3255				0.33%
Sc RADIAL	69799.5	96.8	%	1.12				1.16%
Y 371.029	1174618.6	138.57	%	0.414				0.30%
Ag 328.068†	-950.9	-1.6728	µg/L	0.17550	-1.6728	ppb	0.17550	10.49%
Al 396.153Radial†	56588.5	10430	µg/L	47.2	10430	ppb	47.2	0.45%
As 188.979†	31.9	14.802	µg/L	1.7742	14.802	ppb	1.7742	11.99%
B 249.677†	215.8	5.4041	µg/L	0.65795	5.4041	ppb	0.65795	12.18%
Ba 233.527†	4364.1	34.925	µg/L	0.1725	34.925	ppb	0.1725	0.49%
Be 313.107†	6739.1	3.4456	µg/L	0.00504	3.4456	ppb	0.00504	0.15%
Ca 317.933Radial†	49728.8	7327.6	µg/L	32.05	7327.6	ppb	32.05	0.44%
Cd 226.502†	37.2	-0.5753	µg/L	0.08867	-0.5753	ppb	0.08867	15.41%
Co 228.616†	142.2	2.5188	µg/L	0.13885	2.5188	ppb	0.13885	5.51%
Cr 267.716†	1469.2	30.796	µg/L	0.1059	30.796	ppb	0.1059	0.34%
Cu 324.752†	3722.4	11.732	µg/L	0.0512	11.732	ppb	0.0512	0.44%
Fe 238.204 Radial†	11564.0	16254	µg/L	89.7	16254	ppb	89.7	0.55%
K 766.490 Radial†	25949.8	7086.9	µg/L	20.30	7086.9	ppb	20.30	0.29%
Mg 279.077 IEC†	246.5	498.95	µg/L	3.553	498.95	ppb	3.553	0.71%
Mn 257.610†	755902.4	1017.3	µg/L	1.28	1017.3	ppb	1.28	0.13%
Mo 202.031†	99.6	11.194	µg/L	0.3002	11.194	ppb	0.3002	2.68%

Na 589.592 Radial†	43753.6	4488.1	µg/L	23.60	4488.1	ppb	23.60	0.53%
Ni 231.604†	49.4	2.5033	µg/L	0.15422	2.5033	ppb	0.15422	6.16%
P 214.914†	377.3	228.02	µg/L	4.043	228.02	ppb	4.043	1.77%
Pb 220.353†	595.1	116.12	µg/L	0.584	116.12	ppb	0.584	0.50%
S 181.975 Axial†	11.3	17.698	µg/L	8.7056	17.698	ppb	8.7056	49.19%
Sb 206.836†	1.0	0.4431	µg/L	2.06723	0.4431	ppb	2.06723	466.52%
Se 196.026†	-2.9	-2.01	µg/L	5.078	-2.01	ppb	5.078	252.93%
SiO2 †	439868.8	25656	µg/L	73.3	25656	ppb	73.3	0.29%
Si 251.611†	435313.9	11900	µg/L	54.8	11900	ppb	54.8	0.46%
Sn 189.927†	-10.2	-0.6615	µg/L	0.27820	-0.6615	ppb	0.27820	42.06%
Sr 421.552†	2515.2	6.1290	µg/L	0.12238	6.1290	ppb	0.12238	2.00%
Ti 334.940†	1368619.1	1355.5	µg/L	1.53	1355.5	ppb	1.53	0.11%
Tl 190.801†	-57.8	-18.019	µg/L	0.9374	-18.019	ppb	0.9374	5.20%
U 409.014†	565.9	27.487	µg/L	5.1288	27.487	ppb	5.1288	18.66%
V 292.402†	720.0	7.7655	µg/L	0.13611	7.7655	ppb	0.13611	1.75%
Zn 213.857†	6087.7	115.80	µg/L	0.111	115.80	ppb	0.111	0.10%

Sequence No.: 22
Sample ID: 157896004|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 3/14/2006 13:49:51
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896004|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70230.9	70230.9	97.4	%			13:51:36
1	Al 396.153Radial†	49498.8	50777.2	9358.7	µg/L	9358.7	ppb	13:51:36
1	Ca 317.933Radial†	67718.8	69261.6	10206	µg/L	10206	ppb	13:51:36
1	Fe 238.204 Radial†	11055.9	11308.9	15895	µg/L	15895	ppb	13:51:56
1	K 766.490 Radial†	22937.3	22469.2	6136.3	µg/L	6136.3	ppb	13:51:36
1	Mg 279.077 IEC†	310.2	317.2	645.54	µg/L	645.54	ppb	13:51:56
1	Na 589.592 Radial†	43324.1	43290.2	4440.6	µg/L	4440.6	ppb	13:51:36
1	Sr 421.552†	2789.9	2859.4	6.9150	µg/L	6.9150	ppb	13:51:36
1	Sc 361.383	1479825.3	1479825.3	96.812	%			13:52:57
1	Y 371.029	1267093.2	1267093.2	149.47	%			13:52:57
1	Ag 328.068†	-1986.7	-1133.6	-2.7668	µg/L	-2.7668	ppb	13:53:02
1	As 188.979†	47.1	46.2	20.533	µg/L	20.533	ppb	13:53:22
1	B 249.677†	277.3	200.7	4.7299	µg/L	4.7299	ppb	13:53:22
1	Ba 233.527†	3806.9	4049.9	32.402	µg/L	32.402	ppb	13:53:22
1	Be 313.107†	7838.8	7733.9	3.9466	µg/L	3.9466	ppb	13:53:02
1	Cd 226.502†	0.8	33.5	-0.6408	µg/L	-0.6408	ppb	13:53:22
1	Co 228.616†	105.8	172.0	3.1055	µg/L	3.1055	ppb	13:53:22
1	Cr 267.716†	558.1	521.4	10.904	µg/L	10.904	ppb	13:53:22
1	Cu 324.752†	7275.1	3649.5	11.503	µg/L	11.503	ppb	13:53:02
1	Mn 257.610†	659086.8	680416.5	915.87	µg/L	915.87	ppb	13:52:57
1	Mo 202.031†	27.5	41.8	4.9232	µg/L	4.9232	ppb	13:53:22
1	Ni 231.604†	211.4	60.9	3.0859	µg/L	3.0859	ppb	13:53:22
1	P 214.914†	614.5	467.9	287.38	µg/L	287.38	ppb	13:53:22
1	Pb 220.353†	398.6	404.8	79.187	µg/L	79.187	ppb	13:53:22
1	S 181.975 Axial†	40.0	11.7	18.539	µg/L	18.539	ppb	13:53:22
1	Sb 206.836†	14.2	-1.4	-0.5383	µg/L	-0.5383	ppb	13:53:22
1	Se 196.026†	-30.6	-7.0	-4.70	µg/L	-4.70	ppb	13:53:22
1	SiO2 †	340967.8	351478.6	20501	µg/L	20501	ppb	13:52:57
1	Sn 189.927†	-34.6	-12.9	-1.0941	µg/L	-1.0941	ppb	13:53:22
1	Ti 334.940†	1600387.9	1652539.2	1636.7	µg/L	1636.7	ppb	13:52:57
1	Tl 190.801†	-85.4	-58.6	-18.285	µg/L	-18.285	ppb	13:53:22
1	U 409.014†	1124.4	794.2	38.617	µg/L	38.617	ppb	13:52:57
1	V 292.402†	825.7	938.1	9.9741	µg/L	9.9741	ppb	13:53:22
1	Zn 213.857†	6615.9	6539.5	124.49	µg/L	124.49	ppb	13:53:22
1	Si 251.611†	346024.9	356710.2	9770	µg/L	9770	ppb	13:54:34
2	Sc RADIAL	70847.8	70847.8	98.3	%			13:52:01
2	Al 396.153Radial†	49900.2	50743.3	9352.4	µg/L	9352.4	ppb	13:52:01
2	Ca 317.933Radial†	68134.2	69079.0	10179	µg/L	10179	ppb	13:52:01
2	Fe 238.204 Radial†	11019.8	11173.3	15705	µg/L	15705	ppb	13:52:21
2	K 766.490 Radial†	23009.6	22337.7	6100.4	µg/L	6100.4	ppb	13:52:01
2	Mg 279.077 IEC†	313.5	317.8	646.79	µg/L	646.79	ppb	13:52:21
2	Na 589.592 Radial†	43663.0	43247.7	4436.2	µg/L	4436.2	ppb	13:52:01
2	Sr 421.552†	2796.1	2840.8	6.8690	µg/L	6.8690	ppb	13:52:01
2	Sc 361.383	1500421.8	1500421.8	98.160	%			13:53:30
2	Y 371.029	1284587.1	1284587.1	151.54	%			13:53:30
2	Ag 328.068†	-1895.4	-1012.3	-2.1334	µg/L	-2.1334	ppb	13:53:35
2	As 188.979†	52.2	50.8	22.394	µg/L	22.394	ppb	13:53:55
2	B 249.677†	268.7	188.0	4.1940	µg/L	4.1940	ppb	13:53:55
2	Ba 233.527†	3813.8	4003.0	32.027	µg/L	32.027	ppb	13:53:55
2	Be 313.107†	7787.5	7570.5	3.8615	µg/L	3.8615	ppb	13:53:35
2	Cd 226.502†	0.8	33.5	-0.6230	µg/L	-0.6230	ppb	13:53:55
2	Co 228.616†	96.9	161.5	2.8611	µg/L	2.8611	ppb	13:53:55
2	Cr 267.716†	579.8	535.6	11.202	µg/L	11.202	ppb	13:53:55
2	Cu 324.752†	7285.9	3557.4	11.216	µg/L	11.216	ppb	13:53:35
2	Mn 257.610†	667163.6	679299.5	914.35	µg/L	914.35	ppb	13:53:30
2	Mo 202.031†	31.3	45.2	5.2893	µg/L	5.2893	ppb	13:53:55
2	Ni 231.604†	199.2	45.5	2.3470	µg/L	2.3470	ppb	13:53:55
2	P 214.914†	605.4	449.9	275.85	µg/L	275.85	ppb	13:53:55

2	Pb 220.353†	385.4	385.7	75.492	µg/L	75.492 ppb	13:53:55
2	S 181.975 Axial†	42.0	13.1	21.114	µg/L	21.114 ppb	13:53:55
2	Sb 206.836†	15.5	-0.3	-0.0947	µg/L	-0.0947 ppb	13:53:55
2	Se 196.026†	-30.6	-6.5	-4.38	µg/L	-4.38 ppb	13:53:55
2	SiO2 †	346780.8	352565.9	20564	µg/L	20564 ppb	13:53:30
2	Sn 189.927†	-36.9	-14.7	-1.5010	µg/L	-1.5010 ppb	13:53:55
2	Ti 334.940†	1622076.0	1651941.7	1636.1	µg/L	1636.1 ppb	13:53:30
2	Tl 190.801†	-96.1	-68.3	-21.413	µg/L	-21.413 ppb	13:53:55
2	U 409.014†	1133.5	787.5	38.290	µg/L	38.290 ppb	13:53:30
2	V 292.402†	821.2	921.8	9.8031	µg/L	9.8031 ppb	13:53:55
2	Zn 213.857†	6631.2	6461.3	123.00	µg/L	123.00 ppb	13:53:55
2	Si 251.611†	344951.2	350710.0	9600	µg/L	9600 ppb	13:54:40
3	Sc RADIAL	70799.3	70799.3	98.2	%		13:52:26
3	Al 396.153Radial†	49797.1	50673.1	9339.5	µg/L	9339.5 ppb	13:52:26
3	Ca 317.933Radial†	68161.0	69153.9	10190	µg/L	10190 ppb	13:52:26
3	Fe 238.204 Radial†	11030.5	11191.9	15731	µg/L	15731 ppb	13:52:47
3	K 766.490 Radial†	23037.4	22382.1	6112.5	µg/L	6112.5 ppb	13:52:26
3	Mg 279.077 IEC†	302.7	307.1	624.61	µg/L	624.61 ppb	13:52:47
3	Na 589.592 Radial†	43543.1	43156.1	4426.9	µg/L	4426.9 ppb	13:52:26
3	Sr 421.552†	2802.9	2849.6	6.8908	µg/L	6.8908 ppb	13:52:26
3	Sc 361.383	1491083.5	1491083.5	97.549	%		13:54:03
3	Y 371.029	1276850.1	1276850.1	150.63	%		13:54:03
3	Ag 328.068†	-1941.2	-1071.4	-2.4566	µg/L	-2.4566 ppb	13:54:08
3	As 188.979†	45.6	44.3	19.746	µg/L	19.746 ppb	13:54:28
3	B 249.677†	260.3	181.1	3.8621	µg/L	3.8621 ppb	13:54:28
3	Ba 233.527†	3816.3	4029.8	32.242	µg/L	32.242 ppb	13:54:28
3	Be 313.107†	7731.7	7562.9	3.8575	µg/L	3.8575 ppb	13:54:08
3	Cd 226.502†	2.0	34.8	-0.5895	µg/L	-0.5895 ppb	13:54:28
3	Co 228.616†	91.2	156.3	2.7378	µg/L	2.7378 ppb	13:54:28
3	Cr 267.716†	566.9	526.1	11.002	µg/L	11.002 ppb	13:54:28
3	Cu 324.752†	7218.4	3534.6	11.143	µg/L	11.143 ppb	13:54:08
3	Mn 257.610†	663625.9	679929.5	915.20	µg/L	915.20 ppb	13:54:03
3	Mo 202.031†	30.1	44.2	5.1832	µg/L	5.1832 ppb	13:54:28
3	Ni 231.604†	207.9	55.7	2.8358	µg/L	2.8358 ppb	13:54:28
3	P 214.914†	610.3	458.8	281.66	µg/L	281.66 ppb	13:54:28
3	Pb 220.353†	401.9	405.1	79.243	µg/L	79.243 ppb	13:54:28
3	S 181.975 Axial†	45.2	16.7	27.303	µg/L	27.303 ppb	13:54:28
3	Sb 206.836†	13.4	-2.3	-0.8733	µg/L	-0.8733 ppb	13:54:28
3	Se 196.026†	-34.5	-10.8	-7.37	µg/L	-7.37 ppb	13:54:28
3	SiO2 †	344402.0	352339.9	20551	µg/L	20551 ppb	13:54:03
3	Sn 189.927†	-33.2	-11.1	-0.7277	µg/L	-0.7277 ppb	13:54:28
3	Ti 334.940†	1612509.7	1652484.3	1636.7	µg/L	1636.7 ppb	13:54:03
3	Tl 190.801†	-87.2	-59.8	-18.668	µg/L	-18.668 ppb	13:54:28
3	U 409.014†	1209.2	872.3	42.410	µg/L	42.410 ppb	13:54:03
3	V 292.402†	820.4	926.3	9.8543	µg/L	9.8543 ppb	13:54:28
3	Zn 213.857†	6603.3	6475.0	123.26	µg/L	123.26 ppb	13:54:28
3	Si 251.611†	345325.6	353294.6	9670	µg/L	9670 ppb	13:54:45

Mean Data: 157896004|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1490443.5	97.507	%	0.6747				0.69%
Sc RADIAL	70626.0	98.0	%	0.48				0.49%
Y 371.029	1276176.8	150.55	%	1.034				0.69%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 150.5%								
Ag 328.068†	-1072.5	-2.4523	µg/L	0.31673	-2.4523	ppb	0.31673	12.92%
Al 396.153Radial†	50731.2	9350.2	µg/L	9.80	9350.2	ppb	9.80	0.10%
As 188.979†	47.1	20.891	µg/L	1.3597	20.891	ppb	1.3597	6.51%
B 249.677†	189.9	4.2620	µg/L	0.43787	4.2620	ppb	0.43787	10.27%
Ba 233.527†	4027.6	32.224	µg/L	0.1883	32.224	ppb	0.1883	0.58%
Be 313.107†	7622.4	3.8885	µg/L	0.05033	3.8885	ppb	0.05033	1.29%
Ca 317.933Radial†	69164.8	10192	µg/L	13.5	10192	ppb	13.5	0.13%
Cd 226.502†	34.0	-0.6178	µg/L	0.02602	-0.6178	ppb	0.02602	4.21%
Co 228.616†	163.3	2.9015	µg/L	0.18713	2.9015	ppb	0.18713	6.45%
Cr 267.716†	527.7	11.036	µg/L	0.1521	11.036	ppb	0.1521	1.38%
Cu 324.752†	3580.5	11.287	µg/L	0.1904	11.287	ppb	0.1904	1.69%
Fe 238.204 Radial†	11224.7	15777	µg/L	103.3	15777	ppb	103.3	0.65%
K 766.490 Radial†	22396.3	6116.4	µg/L	18.26	6116.4	ppb	18.26	0.30%
Mg 279.077 IEC†	314.0	638.98	µg/L	12.458	638.98	ppb	12.458	1.95%
Mn 257.610†	679881.8	915.14	µg/L	0.762	915.14	ppb	0.762	0.08%

Mo 202.031†	43.7	5.1319 µg/L	0.18839	5.1319 ppb	0.18839	3.67%
Na 589.592 Radial†	43231.3	4434.6 µg/L	7.03	4434.6 ppb	7.03	0.16%
Ni 231.604†	54.0	2.7562 µg/L	0.37582	2.7562 ppb	0.37582	13.64%
P 214.914†	458.9	281.63 µg/L	5.765	281.63 ppb	5.765	2.05%
Pb 220.353†	398.5	77.974 µg/L	2.1496	77.974 ppb	2.1496	2.76%
S 181.975 Axial†	13.8	22.318 µg/L	4.5044	22.318 ppb	4.5044	20.18%
Sb 206.836†	-1.4	-0.5021 µg/L	0.39053	-0.5021 ppb	0.39053	77.78%
Se 196.026†	-8.1	-5.48 µg/L	1.641	-5.48 ppb	1.641	29.93%
SiO2 †	352128.1	20539 µg/L	33.5	20539 ppb	33.5	0.16%
Si 251.611†	353571.6	9680 µg/L	82.4	9680 ppb	82.4	0.85%
Sn 189.927†	-12.9	-1.1076 µg/L	0.38682	-1.1076 ppb	0.38682	34.92%
Sr 421.552†	2849.9	6.8916 µg/L	0.02301	6.8916 ppb	0.02301	0.33%
Ti 334.940†	1652321.7	1636.5 µg/L	0.33	1636.5 ppb	0.33	0.02%
Tl 190.801†	-62.2	-19.455 µg/L	1.7060	-19.455 ppb	1.7060	8.77%
U 409.014†	818.0	39.772 µg/L	2.2902	39.772 ppb	2.2902	5.76%
V 292.402†	928.8	9.8772 µg/L	0.08779	9.8772 ppb	0.08779	0.89%
Zn 213.857†	6491.9	123.58 µg/L	0.796	123.58 ppb	0.796	0.64%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 23
Sample ID: 157896005|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 3/14/2006 13:56:54
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896005|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71428.7	71428.7	99.1	%			13:58:38
1	Al 396.153Radial†	57749.5	58253.0	10737	µg/L	10737	ppb	13:58:38
1	Ca 317.933Radial†	66189.0	66551.8	9806.5	µg/L	9806.5	ppb	13:58:38
1	Fe 238.204 Radial†	10171.5	10225.8	14373	µg/L	14373	ppb	13:58:58
1	K 766.490 Radial†	28921.7	28114.6	7678.1	µg/L	7678.1	ppb	13:58:38
1	Mg 279.077 IEC†	260.0	261.2	530.57	µg/L	530.57	ppb	13:58:58
1	Na 589.592 Radial†	51346.0	50641.2	5194.7	µg/L	5194.7	ppb	13:58:38
1	Sr 421.552†	2594.9	2614.5	6.3096	µg/L	6.3096	ppb	13:58:38
1	Sc 361.383	1507284.2	1507284.2	98.609	%			13:59:59
1	Y 371.029	1272437.9	1272437.9	150.10	%			13:59:59
1	Ag 328.068†	-1914.5	-1023.0	-2.4903	µg/L	-2.4903	ppb	14:00:05
1	As 188.979†	51.7	50.0	21.829	µg/L	21.829	ppb	14:00:25
1	B 249.677†	254.3	172.1	3.8369	µg/L	3.8369	ppb	14:00:25
1	Ba 233.527†	3097.5	3258.8	26.055	µg/L	26.055	ppb	14:00:25
1	Be 313.107†	7996.0	7745.8	3.9540	µg/L	3.9540	ppb	14:00:05
1	Cd 226.502†	-3.7	29.0	-0.6165	µg/L	-0.6165	ppb	14:00:25
1	Co 228.616†	86.8	150.8	2.6461	µg/L	2.6461	ppb	14:00:25
1	Cr 267.716†	451.8	403.1	8.4202	µg/L	8.4202	ppb	14:00:25
1	Cu 324.752†	6977.8	3211.1	10.132	µg/L	10.132	ppb	14:00:05
1	Mn 257.610†	611379.7	619634.2	834.05	µg/L	834.05	ppb	13:59:59
1	Mo 202.031†	26.2	39.9	4.6797	µg/L	4.6797	ppb	14:00:25
1	Ni 231.604†	187.1	32.3	1.7098	µg/L	1.7098	ppb	14:00:25
1	P 214.914†	619.2	461.1	284.60	µg/L	284.60	ppb	14:00:25
1	Pb 220.353†	385.1	383.6	75.223	µg/L	75.223	ppb	14:00:25
1	S 181.975 Axial†	31.7	2.5	2.0464	µg/L	2.0464	ppb	14:00:25
1	Sb 206.836†	15.6	-0.3	-0.1037	µg/L	-0.1037	ppb	14:00:25
1	Se 196.026†	-25.8	-1.6	-0.954	µg/L	-0.954	ppb	14:00:25
1	SiO2 †	447428.1	453024.8	26424	µg/L	26424	ppb	13:59:59
1	Sn 189.927†	-32.3	-9.9	-0.5052	µg/L	-0.5052	ppb	14:00:25
1	Ti 334.940†	1601884.3	1623941.7	1608.4	µg/L	1608.4	ppb	13:59:59
1	Tl 190.801†	-87.2	-58.8	-18.405	µg/L	-18.405	ppb	14:00:25
1	U 409.014†	1012.5	659.5	32.074	µg/L	32.074	ppb	13:59:59
1	V 292.402†	756.8	852.8	9.0454	µg/L	9.0454	ppb	14:00:25
1	Zn 213.857†	6157.1	5949.8	113.26	µg/L	113.26	ppb	14:00:25
1	Si 251.611†	448169.6	453784.7	12400	µg/L	12400	ppb	14:01:37
2	Sc RADIAL	72000.0	72000.0	99.9	%			13:59:04
2	Al 396.153Radial†	58234.2	58275.7	10741	µg/L	10741	ppb	13:59:04
2	Ca 317.933Radial†	66925.0	66758.6	9837.0	µg/L	9837.0	ppb	13:59:04
2	Fe 238.204 Radial†	10029.4	10002.1	14059	µg/L	14059	ppb	13:59:24
2	K 766.490 Radial†	29125.7	28087.3	7670.6	µg/L	7670.6	ppb	13:59:04
2	Mg 279.077 IEC†	250.6	249.7	507.00	µg/L	507.00	ppb	13:59:24
2	Na 589.592 Radial†	51812.2	50696.8	5200.4	µg/L	5200.4	ppb	13:59:04
2	Sr 421.552†	2601.1	2600.0	6.2720	µg/L	6.2720	ppb	13:59:04
2	Sc 361.383	1501682.4	1501682.4	98.242	%			14:00:32
2	Y 371.029	1267525.2	1267525.2	149.53	%			14:00:32
2	Ag 328.068†	-1942.6	-1058.9	-2.7600	µg/L	-2.7600	ppb	14:00:37
2	As 188.979†	41.0	39.4	17.415	µg/L	17.415	ppb	14:00:58
2	B 249.677†	261.6	180.5	4.3225	µg/L	4.3225	ppb	14:00:58
2	Ba 233.527†	3092.7	3265.7	26.114	µg/L	26.114	ppb	14:00:58
2	Be 313.107†	7914.7	7693.3	3.9266	µg/L	3.9266	ppb	14:00:37
2	Cd 226.502†	4.6	37.4	-0.3544	µg/L	-0.3544	ppb	14:00:58
2	Co 228.616†	88.9	153.2	2.7095	µg/L	2.7095	ppb	14:00:58
2	Cr 267.716†	453.3	406.3	8.4874	µg/L	8.4874	ppb	14:00:58
2	Cu 324.752†	6939.8	3198.8	10.078	µg/L	10.078	ppb	14:00:37
2	Mn 257.610†	609870.3	620410.6	835.06	µg/L	835.06	ppb	14:00:32
2	Mo 202.031†	31.2	45.1	5.2420	µg/L	5.2420	ppb	14:00:58
2	Ni 231.604†	193.7	39.7	2.0643	µg/L	2.0643	ppb	14:00:58
2	P 214.914†	627.8	472.2	292.13	µg/L	292.13	ppb	14:00:58

2	Pb 220.353†	369.1	368.8	72.359 µg/L	72.359 ppb	14:00:58
2	S 181.975 Axial†	32.2	3.1	3.1900 µg/L	3.1900 ppb	14:00:58
2	Sb 206.836†	17.9	2.2	0.8143 µg/L	0.8143 ppb	14:00:58
2	Se 196.026†	-20.8	3.5	2.63 µg/L	2.63 ppb	14:00:58
2	SiO2 †	445945.4	453208.1	26434 µg/L	26434 ppb	14:00:32
2	Sn 189.927†	-29.3	-7.0	0.1095 µg/L	0.1095 ppb	14:00:58
2	Ti 334.940†	1597251.5	1625286.0	1609.7 µg/L	1609.7 ppb	14:00:32
2	Tl 190.801†	-90.0	-62.0	-19.422 µg/L	-19.422 ppb	14:00:58
2	U 409.014†	1129.0	781.9	38.018 µg/L	38.018 ppb	14:00:32
2	V 292.402†	747.5	846.1	8.9860 µg/L	8.9860 ppb	14:00:58
2	Zn 213.857†	6145.1	5960.9	113.51 µg/L	113.51 ppb	14:00:58
2	Si 251.611†	448152.3	455462.5	12500 µg/L	12500 ppb	14:01:43
3	Sc RADIAL	70117.5	70117.5	97.3 %		13:59:29
3	Al 396.153Radial†	56884.0	58453.1	10773 µg/L	10773 ppb	13:59:29
3	Ca 317.933Radial†	65248.6	66834.2	9848.1 µg/L	9848.1 ppb	13:59:29
3	Fe 238.204 Radial†	10055.9	10298.9	14476 µg/L	14476 ppb	13:59:49
3	K 766.490 Radial†	28481.2	28207.6	7703.5 µg/L	7703.5 ppb	13:59:29
3	Mg 279.077 IEC†	253.3	259.3	526.55 µg/L	526.55 ppb	13:59:49
3	Na 589.592 Radial†	50622.9	50866.8	5217.8 µg/L	5217.8 ppb	13:59:29
3	Sr 421.552†	2553.2	2620.6	6.3237 µg/L	6.3237 ppb	13:59:29
3	Sc 361.383	1508345.5	1508345.5	98.678 %		14:01:05
3	Y 371.029	1273798.9	1273798.9	150.27 %		14:01:05
3	Ag 328.068†	-1903.6	-1010.5	-2.3979 µg/L	-2.3979 ppb	14:01:10
3	As 188.979†	47.6	45.8	20.102 µg/L	20.102 ppb	14:01:31
3	B 249.677†	261.6	179.4	4.1467 µg/L	4.1467 ppb	14:01:31
3	Ba 233.527†	3104.7	3263.9	26.096 µg/L	26.096 ppb	14:01:31
3	Be 313.107†	7904.1	7646.9	3.9022 µg/L	3.9022 ppb	14:01:10
3	Cd 226.502†	-2.9	29.8	-0.6043 µg/L	-0.6043 ppb	14:01:31
3	Co 228.616†	89.1	153.0	2.6978 µg/L	2.6978 ppb	14:01:31
3	Cr 267.716†	441.0	391.8	8.1838 µg/L	8.1838 ppb	14:01:31
3	Cu 324.752†	6972.1	3200.3	10.104 µg/L	10.104 ppb	14:01:10
3	Mn 257.610†	613067.0	620907.7	835.77 µg/L	835.77 ppb	14:01:05
3	Mo 202.031†	42.3	56.2	6.4495 µg/L	6.4495 ppb	14:01:31
3	Ni 231.604†	194.3	39.4	2.0545 µg/L	2.0545 ppb	14:01:31
3	P 214.914†	620.8	462.3	285.24 µg/L	285.24 ppb	14:01:31
3	Pb 220.353†	376.8	374.9	73.552 µg/L	73.552 ppb	14:01:31
3	S 181.975 Axial†	37.3	8.2	12.122 µg/L	12.122 ppb	14:01:31
3	Sb 206.836†	9.9	-6.1	-2.2696 µg/L	-2.2696 ppb	14:01:31
3	Se 196.026†	-21.4	2.9	2.23 µg/L	2.23 ppb	14:01:31
3	SiO2 †	446606.5	451872.9	26356 µg/L	26356 ppb	14:01:05
3	Sn 189.927†	-38.5	-16.1	-1.8486 µg/L	-1.8486 ppb	14:01:31
3	Ti 334.940†	1606101.4	1627072.3	1611.5 µg/L	1611.5 ppb	14:01:05
3	Tl 190.801†	-98.0	-69.7	-21.903 µg/L	-21.903 ppb	14:01:31
3	U 409.014†	950.2	595.7	28.975 µg/L	28.975 ppb	14:01:05
3	V 292.402†	749.6	844.9	8.9730 µg/L	8.9730 ppb	14:01:31
3	Zn 213.857†	6178.0	5966.6	113.57 µg/L	113.57 ppb	14:01:31
3	Si 251.611†	450836.4	456167.4	12500 µg/L	12500 ppb	14:01:48

Mean Data: 157896005|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1505770.7	98.510	%	0.2342				0.24%
Sc RADIAL	71182.1	98.7	%	1.34				1.36%
Y 371.029	1271254.0	149.96	%	0.389				0.26%
Ag 328.068†	-1030.8	-2.5494	µg/L	0.18817	-2.5494	ppb	0.18817	7.38%
Al 396.153Radial†	58327.3	10750	µg/L	20.2	10750	ppb	20.2	0.19%
As 188.979†	45.0	19.782	µg/L	2.2242	19.782	ppb	2.2242	11.24%
B 249.677†	177.3	4.1021	µg/L	0.24589	4.1021	ppb	0.24589	5.99%
Ba 233.527†	3262.8	26.088	µg/L	0.0302	26.088	ppb	0.0302	0.12%
Be 313.107†	7695.3	3.9276	µg/L	0.02588	3.9276	ppb	0.02588	0.66%
Ca 317.933Radial†	66714.9	9830.6	µg/L	21.54	9830.6	ppb	21.54	0.22%
Cd 226.502†	32.1	-0.5251	µg/L	0.14796	-0.5251	ppb	0.14796	28.18%
Co 228.616†	152.3	2.6845	µg/L	0.03370	2.6845	ppb	0.03370	1.26%
Cr 267.716†	400.4	8.3638	µg/L	0.15948	8.3638	ppb	0.15948	1.91%
Cu 324.752†	3203.4	10.105	µg/L	0.0268	10.105	ppb	0.0268	0.27%
Fe 238.204 Radial†	10175.6	14303	µg/L	217.4	14303	ppb	217.4	1.52%
K 766.490 Radial†	28136.5	7684.1	µg/L	17.22	7684.1	ppb	17.22	0.22%
Mg 279.077 IEC†	256.7	521.38	µg/L	12.607	521.38	ppb	12.607	2.42%
Mn 257.610†	620317.5	834.96	µg/L	0.865	834.96	ppb	0.865	0.10%
Mo 202.031†	47.1	5.4571	µg/L	0.90430	5.4571	ppb	0.90430	16.57%

Na 589.592 Radial†	50734.9	5204.3	µg/L	12.06	5204.3	ppb	12.06	0.23%
Ni 231.604†	37.2	1.9429	µg/L	0.20192	1.9429	ppb	0.20192	10.39%
P 214.914†	465.2	287.33	µg/L	4.173	287.33	ppb	4.173	1.45%
Pb 220.353†	375.8	73.711	µg/L	1.4387	73.711	ppb	1.4387	1.95%
S 181.975 Axial†	4.6	5.7861	µg/L	5.51669	5.7861	ppb	5.51669	95.34%
Sb 206.836†	-1.4	-0.5197	µg/L	1.58348	-0.5197	ppb	1.58348	304.70%
Se 196.026†	1.6	1.30	µg/L	1.965	1.30	ppb	1.965	150.86%
SiO2 †	452702.0	26405	µg/L	42.2	26405	ppb	42.2	0.16%
Si 251.611†	455138.2	12500	µg/L	33.5	12500	ppb	33.5	0.27%
Sn 189.927†	-11.0	-0.7481	µg/L	1.00143	-0.7481	ppb	1.00143	133.87%
Sr 421.552†	2611.7	6.3018	µg/L	0.02673	6.3018	ppb	0.02673	0.42%
Ti 334.940†	1625433.3	1609.9	µg/L	1.56	1609.9	ppb	1.56	0.10%
Tl 190.801†	-63.5	-19.910	µg/L	1.7997	-19.910	ppb	1.7997	9.04%
U 409.014†	679.0	33.022	µg/L	4.5955	33.022	ppb	4.5955	13.92%
V 292.402†	847.9	9.0015	µg/L	0.03861	9.0015	ppb	0.03861	0.43%
Zn 213.857†	5959.1	113.45	µg/L	0.165	113.45	ppb	0.165	0.15%

Sequence No.: 24
Sample ID: 157896006|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 3/14/2006 14:03:57
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896006|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70225.4	70225.4	97.4	%			14:05:44
1	Al 396.153Radial†	44736.6	45892.3	8457.9	µg/L	8457.9	ppb	14:05:44
1	Ca 317.933Radial†	61588.6	62973.6	9279.3	µg/L	9279.3	ppb	14:05:44
1	Fe 238.204 Radial†	11466.4	11731.2	16489	µg/L	16489	ppb	14:06:04
1	K 766.490 Radial†	21865.2	21370.3	5836.2	µg/L	5836.2	ppb	14:05:44
1	Mg 279.077 IEC†	265.7	271.6	550.93	µg/L	550.93	ppb	14:06:04
1	Na 589.592 Radial†	39648.9	39520.6	4053.9	µg/L	4053.9	ppb	14:05:44
1	Sr 421.552†	1887.4	1933.1	4.6079	µg/L	4.6079	ppb	14:05:44
1	Sc 361.383	1498778.8	1498778.8	98.052	%			14:07:05
1	Y 371.029	1224478.2	1224478.2	144.45	%			14:07:05
1	Ag 328.068†	-1943.8	-1063.9	-2.2465	µg/L	-2.2465	ppb	14:07:10
1	As 188.979†	34.3	32.5	15.095	µg/L	15.095	ppb	14:07:30
1	B 249.677†	244.7	163.8	2.8746	µg/L	2.8746	ppb	14:07:30
1	Ba 233.527†	4638.1	4847.9	38.817	µg/L	38.817	ppb	14:07:30
1	Be 313.107†	7335.9	7118.6	3.6276	µg/L	3.6276	ppb	14:07:10
1	Cd 226.502†	-2.0	30.7	-0.7768	µg/L	-0.7768	ppb	14:07:30
1	Co 228.616†	112.5	177.5	3.2407	µg/L	3.2407	ppb	14:07:30
1	Cr 267.716†	925.2	888.5	18.601	µg/L	18.601	ppb	14:07:30
1	Cu 324.752†	6897.4	3169.3	10.054	µg/L	10.054	ppb	14:07:10
1	Mn 257.610†	695818.8	709269.0	954.70	µg/L	954.70	ppb	14:07:05
1	Mo 202.031†	117.7	133.3	14.863	µg/L	14.863	ppb	14:07:30
1	Ni 231.604†	204.4	51.0	2.6222	µg/L	2.6222	ppb	14:07:30
1	P 214.914†	632.0	477.8	293.04	µg/L	293.04	ppb	14:07:30
1	Pb 220.353†	369.4	369.8	72.358	µg/L	72.358	ppb	14:07:30
1	S 181.975 Axial†	45.2	16.4	27.134	µg/L	27.134	ppb	14:07:30
1	Sb 206.836†	17.3	1.5	0.6767	µg/L	0.6767	ppb	14:07:30
1	Se 196.026†	-18.8	5.5	4.05	µg/L	4.05	ppb	14:07:30
1	SiO2 †	356272.5	362633.4	21151	µg/L	21151	ppb	14:07:05
1	Sn 189.927†	-38.6	-16.5	-1.9459	µg/L	-1.9459	ppb	14:07:30
1	Ti 334.940†	1608572.8	1639981.8	1624.3	µg/L	1624.3	ppb	14:07:05
1	Tl 190.801†	-88.3	-60.4	-18.867	µg/L	-18.867	ppb	14:07:30
1	U 409.014†	896.5	547.1	26.601	µg/L	26.601	ppb	14:07:05
1	V 292.402†	763.9	864.4	9.2845	µg/L	9.2845	ppb	14:07:30
1	Zn 213.857†	6681.7	6520.2	124.08	µg/L	124.08	ppb	14:07:30
1	Si 251.611†	360687.4	367144.0	10100	µg/L	10100	ppb	14:08:42
2	Sc RADIAL	70562.2	70562.2	97.9	%			14:06:09
2	Al 396.153Radial†	44909.7	45849.9	8450.1	µg/L	8450.1	ppb	14:06:09
2	Ca 317.933Radial†	61641.4	62725.7	9242.8	µg/L	9242.8	ppb	14:06:09
2	Fe 238.204 Radial†	11477.0	11685.8	16425	µg/L	16425	ppb	14:06:29
2	K 766.490 Radial†	22099.7	21502.8	5872.4	µg/L	5872.4	ppb	14:06:09
2	Mg 279.077 IEC†	267.0	271.6	551.02	µg/L	551.02	ppb	14:06:29
2	Na 589.592 Radial†	39799.4	39480.0	4049.8	µg/L	4049.8	ppb	14:06:09
2	Sr 421.552†	1942.6	1980.2	4.7278	µg/L	4.7278	ppb	14:06:09
2	Sc 361.383	1509862.8	1509862.8	98.777	%			14:07:38
2	Y 371.029	1233846.1	1233846.1	145.55	%			14:07:38
2	Ag 328.068†	-1869.1	-973.7	-1.7581	µg/L	-1.7581	ppb	14:07:43
2	As 188.979†	30.4	28.4	13.380	µg/L	13.380	ppb	14:08:03
2	B 249.677†	249.9	167.2	3.0552	µg/L	3.0552	ppb	14:08:03
2	Ba 233.527†	4650.8	4825.9	38.641	µg/L	38.641	ppb	14:08:03
2	Be 313.107†	7355.4	7083.4	3.6092	µg/L	3.6092	ppb	14:07:43
2	Cd 226.502†	-4.7	28.0	-0.8460	µg/L	-0.8460	ppb	14:08:03
2	Co 228.616†	99.6	163.5	2.9132	µg/L	2.9132	ppb	14:08:03
2	Cr 267.716†	938.2	894.7	18.731	µg/L	18.731	ppb	14:08:03
2	Cu 324.752†	6938.0	3158.7	10.012	µg/L	10.012	ppb	14:07:43
2	Mn 257.610†	702158.6	710477.7	956.32	µg/L	956.32	ppb	14:07:38
2	Mo 202.031†	117.8	132.6	14.783	µg/L	14.783	ppb	14:08:03
2	Ni 231.604†	204.5	49.6	2.5517	µg/L	2.5517	ppb	14:08:03
2	P 214.914†	642.1	483.2	296.67	µg/L	296.67	ppb	14:08:03

2	Pb 220.353†	358.1	355.7	69.614 µg/L	69.614 ppb	14:08:03
2	S 181.975 Axial†	51.5	22.5	37.842 µg/L	37.842 ppb	14:08:03
2	Sb 206.836†	17.2	1.3	0.5836 µg/L	0.5836 ppb	14:08:03
2	Se 196.026†	-31.8	-7.5	-5.12 µg/L	-5.12 ppb	14:08:03
2	SiO2 †	360246.5	363989.2	21230 µg/L	21230 ppb	14:07:38
2	Sn 189.927†	-41.4	-19.1	-2.5124 µg/L	-2.5124 ppb	14:08:03
2	Ti 334.940†	1621446.4	1640971.5	1625.2 µg/L	1625.2 ppb	14:07:38
2	Tl 190.801†	-89.9	-61.4	-19.184 µg/L	-19.184 ppb	14:08:03
2	U 409.014†	1066.9	712.8	34.649 µg/L	34.649 ppb	14:07:38
2	V 292.402†	761.3	856.0	9.2029 µg/L	9.2029 ppb	14:08:03
2	Zn 213.857†	6712.5	6501.4	123.73 µg/L	123.73 ppb	14:08:03
2	Si 251.611†	354300.0	357977.1	9800 µg/L	9800 ppb	14:08:48
3	Sc RADIAL	70036.1	70036.1	97.1 %		14:06:34
3	Al 396.153Radial†	44486.9	45759.3	8433.4 µg/L	8433.4 ppb	14:06:34
3	Ca 317.933Radial†	61264.9	62811.3	9255.4 µg/L	9255.4 ppb	14:06:34
3	Fe 238.204 Radial†	11405.5	11700.3	16446 µg/L	16446 ppb	14:06:55
3	K 766.490 Radial†	21864.0	21429.8	5852.5 µg/L	5852.5 ppb	14:06:34
3	Mg 279.077 IEC†	273.2	280.0	568.42 µg/L	568.42 ppb	14:06:55
3	Na 589.592 Radial†	39512.4	39490.1	4050.8 µg/L	4050.8 ppb	14:06:34
3	Sr 421.552†	1927.7	1979.8	4.7262 µg/L	4.7262 ppb	14:06:34
3	Sc 361.383	1498473.6	1498473.6	98.032 %		14:08:11
3	Y 371.029	1222669.0	1222669.0	144.23 %		14:08:11
3	Ag 328.068†	-1877.8	-997.0	-1.8829 µg/L	-1.8829 ppb	14:08:16
3	As 188.979†	30.2	28.3	13.362 µg/L	13.362 ppb	14:08:36
3	B 249.677†	239.8	158.8	2.6575 µg/L	2.6575 ppb	14:08:36
3	Ba 233.527†	4645.8	4856.6	38.888 µg/L	38.888 ppb	14:08:36
3	Be 313.107†	7379.3	7164.3	3.6517 µg/L	3.6517 ppb	14:08:16
3	Cd 226.502†	-3.0	29.7	-0.8015 µg/L	-0.8015 ppb	14:08:36
3	Co 228.616†	96.9	161.6	2.8693 µg/L	2.8693 ppb	14:08:36
3	Cr 267.716†	935.3	899.0	18.822 µg/L	18.822 ppb	14:08:36
3	Cu 324.752†	6873.2	3146.0	9.9748 µg/L	9.9748 ppb	14:08:16
3	Mn 257.610†	694247.6	707810.8	952.74 µg/L	952.74 ppb	14:08:11
3	Mo 202.031†	117.3	133.0	14.825 µg/L	14.825 ppb	14:08:36
3	Ni 231.604†	219.9	66.8	3.3794 µg/L	3.3794 ppb	14:08:36
3	P 214.914†	628.1	473.9	290.55 µg/L	290.55 ppb	14:08:36
3	Pb 220.353†	360.7	361.0	70.648 µg/L	70.648 ppb	14:08:36
3	S 181.975 Axial†	45.7	17.0	28.198 µg/L	28.198 ppb	14:08:36
3	Sb 206.836†	6.2	-9.7	-3.5617 µg/L	-3.5617 ppb	14:08:36
3	Se 196.026†	-31.0	-7.0	-4.77 µg/L	-4.77 ppb	14:08:36
3	SiO2 †	355553.2	361973.7	21113 µg/L	21113 ppb	14:08:11
3	Sn 189.927†	-44.7	-22.7	-3.3031 µg/L	-3.3031 ppb	14:08:36
3	Ti 334.940†	1603305.4	1634942.9	1619.3 µg/L	1619.3 ppb	14:08:11
3	Tl 190.801†	-95.2	-67.4	-21.121 µg/L	-21.121 ppb	14:08:36
3	U 409.014†	1046.6	700.3	34.043 µg/L	34.043 ppb	14:08:11
3	V 292.402†	765.2	865.9	9.3097 µg/L	9.3097 ppb	14:08:36
3	Zn 213.857†	6671.5	6511.2	123.92 µg/L	123.92 ppb	14:08:36
3	Si 251.611†	355702.8	362134.3	9910 µg/L	9910 ppb	14:08:53

Mean Data: 157896006|510923|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1502371.7	98.287	%	0.4245				0.43%
Sc RADIAL	70274.5	97.5	%	0.37				0.38%
Y 371.029	1226997.8	144.74	%	0.708				0.49%
Ag 328.068†	-1011.5	-1.9625	µg/L	0.25378	-1.9625	ppb	0.25378	12.93%
Al 396.153Radial†	45833.8	8447.1	µg/L	12.52	8447.1	ppb	12.52	0.15%
As 188.979†	29.8	13.945	µg/L	0.9954	13.945	ppb	0.9954	7.14%
B 249.677†	163.3	2.8624	µg/L	0.19914	2.8624	ppb	0.19914	6.96%
Ba 233.527†	4843.5	38.782	µg/L	0.1271	38.782	ppb	0.1271	0.33%
Be 313.107†	7122.1	3.6295	µg/L	0.02133	3.6295	ppb	0.02133	0.59%
Ca 317.933Radial†	62836.9	9259.1	µg/L	18.55	9259.1	ppb	18.55	0.20%
Cd 226.502†	29.5	-0.8081	µg/L	0.03507	-0.8081	ppb	0.03507	4.34%
Co 228.616†	167.5	3.0078	µg/L	0.20293	3.0078	ppb	0.20293	6.75%
Cr 267.716†	894.0	18.718	µg/L	0.1109	18.718	ppb	0.1109	0.59%
Cu 324.752†	3158.0	10.014	µg/L	0.0398	10.014	ppb	0.0398	0.40%
Fe 238.204 Radial†	11705.7	16453	µg/L	32.6	16453	ppb	32.6	0.20%
K 766.490 Radial†	21434.3	5853.7	µg/L	18.12	5853.7	ppb	18.12	0.31%
Mg 279.077 IEC†	274.4	556.79	µg/L	10.070	556.79	ppb	10.070	1.81%
Mn 257.610†	709185.8	954.59	µg/L	1.793	954.59	ppb	1.793	0.19%
Mo 202.031†	133.0	14.824	µg/L	0.0398	14.824	ppb	0.0398	0.27%

Na 589.592 Radial†	39496.9	4051.5	µg/L	2.17	4051.5	ppb	2.17	0.05%
Ni 231.604†	55.8	2.8511	µg/L	0.45886	2.8511	ppb	0.45886	16.09%
P 214.914†	478.3	293.42	µg/L	3.079	293.42	ppb	3.079	1.05%
Pb 220.353†	362.2	70.874	µg/L	1.3859	70.874	ppb	1.3859	1.96%
S 181.975 Axial†	18.6	31.058	µg/L	5.8990	31.058	ppb	5.8990	18.99%
Sb 206.836†	-2.3	-0.7671	µg/L	2.42058	-0.7671	ppb	2.42058	315.54%
Se 196.026†	-3.0	-1.95	µg/L	5.196	-1.95	ppb	5.196	267.00%
SiO2 †	362865.4	21165	µg/L	59.9	21165	ppb	59.9	0.28%
Si 251.611†	362418.5	9920	µg/L	125.7	9920	ppb	125.7	1.27%
Sn 189.927†	-19.4	-2.5871	µg/L	0.68167	-2.5871	ppb	0.68167	26.35%
Sr 421.552†	1964.4	4.6873	µg/L	0.06874	4.6873	ppb	0.06874	1.47%
Ti 334.940†	1638632.1	1622.9	µg/L	3.20	1622.9	ppb	3.20	0.20%
Tl 190.801†	-63.1	-19.724	µg/L	1.2200	-19.724	ppb	1.2200	6.19%
U 409.014†	653.4	31.764	µg/L	4.4818	31.764	ppb	4.4818	14.11%
V 292.402†	862.1	9.2657	µg/L	0.05582	9.2657	ppb	0.05582	0.60%
Zn 213.857†	6511.0	123.91	µg/L	0.177	123.91	ppb	0.177	0.14%

Sequence No.: 25
Sample ID: 157896007|510923|1
Nebulizer Back Pressure: 233.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 3/14/2006 14:11:03
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157896007|510923|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70397.2	70397.2	97.6	%			14:12:49
1	Al 396.153Radial†	46882.9	47978.2	8842.4	µg/L	8842.4	ppb	14:12:49
1	Ca 317.933Radial†	63072.3	64338.8	9480.4	µg/L	9480.4	ppb	14:12:49
1	Fe 238.204 Radial†	10725.1	10943.2	15381	µg/L	15381	ppb	14:13:09
1	K 766.490 Radial†	23390.9	22878.1	6248.0	µg/L	6248.0	ppb	14:12:49
1	Mg 279.077 IEC†	366.2	373.8	763.41	µg/L	763.41	ppb	14:13:09
1	Na 589.592 Radial†	42482.6	42323.3	4341.4	µg/L	4341.4	ppb	14:12:49
1	Sr 421.552†	2425.5	2479.4	5.9783	µg/L	5.9783	ppb	14:12:49
1	Sc 361.383	1497180.2	1497180.2	97.948	%			14:14:10
1	Y 371.029	1250468.1	1250468.1	147.51	%			14:14:10
1	Ag 328.068†	-1946.0	-1068.3	-2.5174	µg/L	-2.5174	ppb	14:14:15
1	As 188.979†	41.6	40.0	18.040	µg/L	18.040	ppb	14:14:35
1	B 249.677†	250.7	170.2	3.5053	µg/L	3.5053	ppb	14:14:35
1	Ba 233.527†	4035.1	4237.2	33.917	µg/L	33.917	ppb	14:14:35
1	Be 313.107†	7943.0	7746.4	3.9455	µg/L	3.9455	ppb	14:14:15
1	Cd 226.502†	-5.1	27.5	-0.7564	µg/L	-0.7564	ppb	14:14:35
1	Co 228.616†	113.9	179.0	3.2271	µg/L	3.2271	ppb	14:14:35
1	Cr 267.716†	984.2	949.7	19.881	µg/L	19.881	ppb	14:14:35
1	Cu 324.752†	7062.9	3345.7	10.546	µg/L	10.546	ppb	14:14:15
1	Mn 257.610†	698696.4	712964.5	959.56	µg/L	959.56	ppb	14:14:10
1	Mo 202.031†	108.7	124.3	13.857	µg/L	13.857	ppb	14:14:35
1	Ni 231.604†	213.4	60.4	3.0736	µg/L	3.0736	ppb	14:14:35
1	P 214.914†	682.1	529.6	327.95	µg/L	327.95	ppb	14:14:35
1	Pb 220.353†	376.8	377.8	73.934	µg/L	73.934	ppb	14:14:35
1	S 181.975 Axial†	35.8	6.9	10.344	µg/L	10.344	ppb	14:14:35
1	Sb 206.836†	11.4	-4.5	-1.6015	µg/L	-1.6015	ppb	14:14:35
1	Se 196.026†	-22.2	1.9	1.58	µg/L	1.58	ppb	14:14:35
1	SiO2 †	430675.0	438982.8	25605	µg/L	25605	ppb	14:14:10
1	Sn 189.927†	-35.1	-12.9	-1.1894	µg/L	-1.1894	ppb	14:14:35
1	Ti 334.940†	1785060.3	1821918.9	1804.4	µg/L	1804.4	ppb	14:14:10
1	Tl 190.801†	-96.0	-68.4	-21.402	µg/L	-21.402	ppb	14:14:35
1	U 409.014†	1166.5	823.6	40.028	µg/L	40.028	ppb	14:14:10
1	V 292.402†	739.8	840.5	9.0129	µg/L	9.0129	ppb	14:14:35
1	Zn 213.857†	7140.3	6995.7	133.38	µg/L	133.38	ppb	14:14:35
1	Si 251.611†	428201.3	436465.2	11900	µg/L	11900	ppb	14:15:48
2	Sc RADIAL	70596.8	70596.8	97.9	%			14:13:14
2	Al 396.153Radial†	47277.5	48245.5	8891.6	µg/L	8891.6	ppb	14:13:14
2	Ca 317.933Radial†	63319.0	64408.0	9490.6	µg/L	9490.6	ppb	14:13:14
2	Fe 238.204 Radial†	10735.2	10922.5	15352	µg/L	15352	ppb	14:13:34
2	K 766.490 Radial†	23565.4	22988.5	6278.1	µg/L	6278.1	ppb	14:13:14
2	Mg 279.077 IEC†	373.4	380.1	776.52	µg/L	776.52	ppb	14:13:34
2	Na 589.592 Radial†	42821.1	42546.0	4364.3	µg/L	4364.3	ppb	14:13:14
2	Sr 421.552†	2416.4	2463.1	5.9369	µg/L	5.9369	ppb	14:13:14
2	Sc 361.383	1498082.6	1498082.6	98.007	%			14:14:43
2	Y 371.029	1251045.7	1251045.7	147.58	%			14:14:43
2	Ag 328.068†	-1934.1	-1054.9	-2.4494	µg/L	-2.4494	ppb	14:14:48
2	As 188.979†	38.5	36.8	16.715	µg/L	16.715	ppb	14:15:08
2	B 249.677†	217.5	136.2	1.9208	µg/L	1.9208	ppb	14:15:08
2	Ba 233.527†	4039.5	4239.3	33.934	µg/L	33.934	ppb	14:15:08
2	Be 313.107†	7950.0	7748.6	3.9466	µg/L	3.9466	ppb	14:14:48
2	Cd 226.502†	-4.1	28.5	-0.7260	µg/L	-0.7260	ppb	14:15:08
2	Co 228.616†	112.7	177.7	3.1978	µg/L	3.1978	ppb	14:15:08
2	Cr 267.716†	970.2	934.9	19.569	µg/L	19.569	ppb	14:15:08
2	Cu 324.752†	7045.6	3323.7	10.481	µg/L	10.481	ppb	14:14:48
2	Mn 257.610†	698382.5	712214.5	958.54	µg/L	958.54	ppb	14:14:43
2	Mo 202.031†	109.2	124.8	13.905	µg/L	13.905	ppb	14:15:08
2	Ni 231.604†	203.4	50.1	2.5795	µg/L	2.5795	ppb	14:15:08
2	P 214.914†	682.0	529.0	327.61	µg/L	327.61	ppb	14:15:08

2	Pb 220.353†	367.2	367.8	72.001 µg/L	72.001 ppb		14:15:08
2	S 181.975 Axial†	39.0	10.2	16.035 µg/L	16.035 ppb		14:15:08
2	Sb 206.836†	12.6	-3.3	-1.1433 µg/L	-1.1433 ppb		14:15:08
2	Se 196.026†	-31.6	-7.6	-5.15 µg/L	-5.15 ppb		14:15:08
2	SiO2 †	430363.2	438399.8	25571 µg/L	25571 ppb		14:14:43
2	Sn 189.927†	-32.2	-10.0	-0.5556 µg/L	-0.5556 ppb		14:15:08
2	Ti 334.940†	1785033.4	1820793.6	1803.3 µg/L	1803.3 ppb		14:14:43
2	Tl 190.801†	-97.5	-69.8	-21.868 µg/L	-21.868 ppb		14:15:08
2	U 409.014†	1109.6	764.9	37.178 µg/L	37.178 ppb		14:14:43
2	V 292.402†	748.4	848.9	9.0998 µg/L	9.0998 ppb		14:15:08
2	Zn 213.857†	7149.3	7000.5	133.48 µg/L	133.48 ppb		14:15:08
2	Si 251.611†	422363.5	430245.3	11800 µg/L	11800 ppb		14:15:54
3	Sc RADIAL	70538.5	70538.5	97.8 %			14:13:39
3	Al 396.153Radial†	47329.1	48338.1	8908.7 µg/L	8908.7 ppb		14:13:39
3	Ca 317.933Radial†	63396.5	64540.7	9510.2 µg/L	9510.2 ppb		14:13:39
3	Fe 238.204 Radial†	10699.5	10895.0	15314 µg/L	15314 ppb		14:14:00
3	K 766.490 Radial†	23625.1	23069.4	6300.2 µg/L	6300.2 ppb		14:13:39
3	Mg 279.077 IEC†	370.0	377.0	770.02 µg/L	770.02 ppb		14:14:00
3	Na 589.592 Radial†	42943.1	42706.8	4380.8 µg/L	4380.8 ppb		14:13:39
3	Sr 421.552†	2423.0	2471.8	5.9585 µg/L	5.9585 ppb		14:13:39
3	Sc 361.383	1498278.7	1498278.7	98.020 %			14:15:16
3	Y 371.029	1250982.3	1250982.3	147.57 %			14:15:16
3	Ag 328.068†	-1922.5	-1042.8	-2.3907 µg/L	-2.3907 ppb		14:15:21
3	As 188.979†	36.3	34.6	15.802 µg/L	15.802 ppb		14:15:41
3	B 249.677†	230.4	149.3	2.5446 µg/L	2.5446 ppb		14:15:41
3	Ba 233.527†	4056.9	4256.5	34.072 µg/L	34.072 ppb		14:15:41
3	Be 313.107†	8008.5	7807.3	3.9772 µg/L	3.9772 ppb		14:15:21
3	Cd 226.502†	3.6	36.4	-0.5040 µg/L	-0.5040 ppb		14:15:41
3	Co 228.616†	119.5	184.6	3.3611 µg/L	3.3611 ppb		14:15:41
3	Cr 267.716†	969.8	934.3	19.559 µg/L	19.559 ppb		14:15:41
3	Cu 324.752†	6987.1	3263.1	10.291 µg/L	10.291 ppb		14:15:21
3	Mn 257.610†	699347.6	713106.0	959.74 µg/L	959.74 ppb		14:15:16
3	Mo 202.031†	105.7	121.2	13.514 µg/L	13.514 ppb		14:15:41
3	Ni 231.604†	192.7	39.2	2.0529 µg/L	2.0529 ppb		14:15:41
3	P 214.914†	674.8	521.6	322.86 µg/L	322.86 ppb		14:15:41
3	Pb 220.353†	366.6	367.2	71.880 µg/L	71.880 ppb		14:15:41
3	S 181.975 Axial†	34.9	6.0	8.7408 µg/L	8.7408 ppb		14:15:41
3	Sb 206.836†	6.1	-9.8	-3.6165 µg/L	-3.6165 ppb		14:15:41
3	Se 196.026†	-30.9	-6.9	-4.63 µg/L	-4.63 ppb		14:15:41
3	SiO2 †	431982.6	439994.5	25664 µg/L	25664 ppb		14:15:16
3	Sn 189.927†	-40.1	-18.0	-2.2954 µg/L	-2.2954 ppb		14:15:41
3	Ti 334.940†	1786231.4	1821777.4	1804.3 µg/L	1804.3 ppb		14:15:16
3	Tl 190.801†	-95.4	-67.7	-21.178 µg/L	-21.178 ppb		14:15:41
3	U 409.014†	1187.7	844.4	41.040 µg/L	41.040 ppb		14:15:16
3	V 292.402†	738.9	839.1	8.9940 µg/L	8.9940 ppb		14:15:41
3	Zn 213.857†	7182.9	7033.8	134.13 µg/L	134.13 ppb		14:15:41
3	Si 251.611†	427544.2	435474.3	11900 µg/L	11900 ppb		14:16:00

Mean Data: 157896007|510923|1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1497847.1	97.991	%	0.0383				0.04%
Sc RADIAL	70510.8	97.8	%	0.14				0.15%
Y 371.029	1250832.0	147.56	%	0.037				0.03%
Ag 328.068†	-1055.3	-2.4525	µg/L	0.06342	-2.4525	ppb	0.06342	2.59%
Al 396.153Radial†	48187.2	8880.9	µg/L	34.44	8880.9	ppb	34.44	0.39%
As 188.979†	37.2	16.852	µg/L	1.1252	16.852	ppb	1.1252	6.68%
B 249.677†	151.9	2.6569	µg/L	0.79823	2.6569	ppb	0.79823	30.04%
Ba 233.527†	4244.3	33.974	µg/L	0.0852	33.974	ppb	0.0852	0.25%
Be 313.107†	7767.4	3.9564	µg/L	0.01797	3.9564	ppb	0.01797	0.45%
Ca 317.933Radial†	64429.2	9493.8	µg/L	15.12	9493.8	ppb	15.12	0.16%
Cd 226.502†	30.8	-0.6621	µg/L	0.13776	-0.6621	ppb	0.13776	20.81%
Co 228.616†	180.4	3.2620	µg/L	0.08710	3.2620	ppb	0.08710	2.67%
Cr 267.716†	939.6	19.670	µg/L	0.1831	19.670	ppb	0.1831	0.93%
Cu 324.752†	3310.8	10.439	µg/L	0.1327	10.439	ppb	0.1327	1.27%
Fe 238.204 Radial†	10920.2	15349	µg/L	34.0	15349	ppb	34.0	0.22%
K 766.490 Radial†	22978.7	6275.5	µg/L	26.23	6275.5	ppb	26.23	0.42%
Mg 279.077 IEC†	377.0	769.98	µg/L	6.552	769.98	ppb	6.552	0.85%
Mn 257.610†	712761.7	959.28	µg/L	0.643	959.28	ppb	0.643	0.07%
Mo 202.031†	123.4	13.759	µg/L	0.2132	13.759	ppb	0.2132	1.55%

Na 589.592 Radial†	42525.3	4362.1	µg/L	19.75	4362.1	ppb	19.75	0.45%
Ni 231.604†	49.9	2.5687	µg/L	0.51045	2.5687	ppb	0.51045	19.87%
P 214.914†	526.7	326.14	µg/L	2.841	326.14	ppb	2.841	0.87%
Pb 220.353†	370.9	72.605	µg/L	1.1521	72.605	ppb	1.1521	1.59%
S 181.975 Axial†	7.7	11.707	µg/L	3.8334	11.707	ppb	3.8334	32.75%
Sb 206.836†	-5.9	-2.1204	µg/L	1.31571	-2.1204	ppb	1.31571	62.05%
Se 196.026†	-4.2	-2.73	µg/L	3.745	-2.73	ppb	3.745	137.08%
SiO2 †	439125.7	25613	µg/L	47.1	25613	ppb	47.1	0.18%
Si 251.611†	434061.6	11900	µg/L	91.5	11900	ppb	91.5	0.77%
Sn 189.927†	-13.7	-1.3468	µg/L	0.88051	-1.3468	ppb	0.88051	65.38%
Sr 421.552†	2471.4	5.9579	µg/L	0.02072	5.9579	ppb	0.02072	0.35%
Ti 334.940†	1821496.6	1804.0	µg/L	0.61	1804.0	ppb	0.61	0.03%
Tl 190.801†	-68.6	-21.482	µg/L	0.3519	-21.482	ppb	0.3519	1.64%
U 409.014†	811.0	39.415	µg/L	2.0030	39.415	ppb	2.0030	5.08%
V 292.402†	842.8	9.0356	µg/L	0.05645	9.0356	ppb	0.05645	0.62%
Zn 213.857†	7010.0	133.66	µg/L	0.405	133.66	ppb	0.405	0.30%

Sequence No.: 26
Sample ID: CCV
Nebulizer Back Pressure: 233.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 14:18:09
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70225.8	70225.8	97.4	%			14:19:52
1	Al 396.153Radial†	26432.5	27100.4	4971.1	µg/L	4971.1	ppb	14:19:52
1	Ca 317.933Radial†	33822.5	34467.7	5078.9	µg/L	5078.9	ppb	14:20:12
1	Fe 238.204 Radial†	3601.0	3656.2	5139.1	µg/L	5139.1	ppb	14:20:12
1	K 766.490 Radial†	19025.7	18455.1	5040.1	µg/L	5040.1	ppb	14:19:52
1	Mg 279.077 IEC†	2380.5	2442.7	5072.6	µg/L	5072.6	ppb	14:20:12
1	Na 589.592 Radial†	96587.1	97974.9	10050	µg/L	10050	ppb	14:19:52
1	Sr 421.552†	194964.8	200152.5	503.98	µg/L	503.98	ppb	14:19:52
1	Sc 361.383	1500269.6	1500269.6	98.150	%			14:21:13
1	Y 371.029	824807.9	824807.9	97.299	%			14:21:13
1	Ag 328.068†	86963.1	89520.9	501.46	µg/L	501.46	ppb	14:21:19
1	As 188.979†	1161.3	1180.7	491.54	µg/L	491.54	ppb	14:21:39
1	B 249.677†	10233.4	10340.5	484.33	µg/L	484.33	ppb	14:21:19
1	Ba 233.527†	59472.7	60711.4	488.82	µg/L	488.82	ppb	14:21:19
1	Be 313.107†	923444.1	940488.0	490.31	µg/L	490.31	ppb	14:21:13
1	Cd 226.502†	17302.9	17661.7	486.01	µg/L	486.01	ppb	14:21:19
1	Co 228.616†	20416.7	20864.3	491.07	µg/L	491.07	ppb	14:21:19
1	Cr 267.716†	22848.7	23224.3	487.22	µg/L	487.22	ppb	14:21:19
1	Cu 324.752†	162462.9	161660.2	493.65	µg/L	493.65	ppb	14:21:13
1	Mn 257.610†	360041.9	366457.4	492.92	µg/L	492.92	ppb	14:21:13
1	Mo 202.031†	4626.4	4727.0	512.66	µg/L	512.66	ppb	14:21:39
1	Ni 231.604†	10227.9	10263.3	493.67	µg/L	493.67	ppb	14:21:19
1	P 214.914†	3919.9	3827.0	2485.8	µg/L	2485.8	ppb	14:21:39
1	Pb 220.353†	2530.1	2570.9	497.62	µg/L	497.62	ppb	14:21:39
1	S 181.975 Axial†	586.0	567.4	1000.1	µg/L	1000.1	ppb	14:21:39
1	Sb 206.836†	1324.6	1333.4	507.43	µg/L	507.43	ppb	14:21:39
1	Se 196.026†	651.0	687.8	488	µg/L	488	ppb	14:21:39
1	SiO2 †	91008.3	92007.9	5366.6	µg/L	5366.6	ppb	14:21:19
1	Sn 189.927†	2217.5	2282.2	496.53	µg/L	496.53	ppb	14:21:39
1	Ti 334.940†	497384.9	506217.8	501.02	µg/L	501.02	ppb	14:21:13
1	Tl 190.801†	1458.0	1515.1	486.78	µg/L	486.78	ppb	14:21:39
1	U 409.014†	10390.8	10219.4	498.96	µg/L	498.96	ppb	14:21:19
1	V 292.402†	44564.2	45489.5	495.44	µg/L	495.44	ppb	14:21:19
1	Zn 213.857†	25170.4	25350.7	488.53	µg/L	488.53	ppb	14:21:19
1	Si 251.611†	88770.9	89736.3	2460	µg/L	2460	ppb	14:22:50
2	Sc RADIAL	69911.4	69911.4	97.0	%			14:20:18
2	Al 396.153Radial†	26258.7	27043.2	4960.5	µg/L	4960.5	ppb	14:20:18
2	Ca 317.933Radial†	33771.9	34571.6	5094.2	µg/L	5094.2	ppb	14:20:38
2	Fe 238.204 Radial†	3600.4	3672.2	5161.6	µg/L	5161.6	ppb	14:20:38
2	K 766.490 Radial†	18842.9	18354.4	5012.6	µg/L	5012.6	ppb	14:20:18
2	Mg 279.077 IEC†	2391.6	2465.2	5119.2	µg/L	5119.2	ppb	14:20:38
2	Na 589.592 Radial†	95789.6	97598.3	10011	µg/L	10011	ppb	14:20:18
2	Sr 421.552†	193265.2	199299.8	501.83	µg/L	501.83	ppb	14:20:18
2	Sc 361.383	1498439.6	1498439.6	98.030	%			14:21:46
2	Y 371.029	823851.9	823851.9	97.187	%			14:21:46
2	Ag 328.068†	86836.1	89499.5	501.35	µg/L	501.35	ppb	14:21:51
2	As 188.979†	1159.4	1180.2	491.34	µg/L	491.34	ppb	14:22:12
2	B 249.677†	10273.2	10393.9	486.82	µg/L	486.82	ppb	14:21:51
2	Ba 233.527†	59507.9	60821.3	489.71	µg/L	489.71	ppb	14:21:51
2	Be 313.107†	919691.1	937808.7	488.92	µg/L	488.92	ppb	14:21:46
2	Cd 226.502†	17329.9	17710.8	487.36	µg/L	487.36	ppb	14:21:51
2	Co 228.616†	20370.4	20842.4	490.56	µg/L	490.56	ppb	14:21:51
2	Cr 267.716†	22810.0	23213.2	486.98	µg/L	486.98	ppb	14:21:51
2	Cu 324.752†	161630.3	161013.1	491.67	µg/L	491.67	ppb	14:21:46
2	Mn 257.610†	358431.0	365262.2	491.32	µg/L	491.32	ppb	14:21:46
2	Mo 202.031†	4630.8	4737.2	513.77	µg/L	513.77	ppb	14:22:12
2	Ni 231.604†	10231.6	10279.8	494.46	µg/L	494.46	ppb	14:21:51
2	P 214.914†	3932.0	3844.2	2496.9	µg/L	2496.9	ppb	14:22:12

2	Pb 220.353†	2529.8	2573.7	498.17	µg/L	498.17 ppb	14:22:12
2	S 181.975 Axial†	583.9	566.0	997.60	µg/L	997.60 ppb	14:22:12
2	Sb 206.836†	1320.9	1331.4	506.67	µg/L	506.67 ppb	14:22:12
2	Se 196.026†	640.3	677.7	481	µg/L	481 ppb	14:22:12
2	SiO2 †	91099.1	92213.8	5378.6	µg/L	5378.6 ppb	14:21:51
2	Sn 189.927†	2212.5	2279.8	496.02	µg/L	496.02 ppb	14:22:12
2	Ti 334.940†	494942.9	504345.6	499.16	µg/L	499.16 ppb	14:21:46
2	Tl 190.801†	1455.0	1513.9	486.37	µg/L	486.37 ppb	14:22:12
2	U 409.014†	10268.4	10107.5	493.53	µg/L	493.53 ppb	14:21:51
2	V 292.402†	44530.9	45511.0	495.68	µg/L	495.68 ppb	14:21:51
2	Zn 213.857†	25171.3	25382.9	489.16	µg/L	489.16 ppb	14:21:51
2	Si 251.611†	89856.7	90954.4	2490	µg/L	2490 ppb	14:22:55
3	Sc RADIAL	70489.6	70489.6	97.8	%		14:20:43
3	Al 396.153Radial†	26400.7	26966.3	4946.1	µg/L	4946.1 ppb	14:20:43
3	Ca 317.933Radial†	33701.9	34214.3	5041.5	µg/L	5041.5 ppb	14:21:03
3	Fe 238.204 Radial†	3588.6	3629.7	5101.8	µg/L	5101.8 ppb	14:21:03
3	K 766.490 Radial†	19036.4	18392.9	5023.1	µg/L	5023.1 ppb	14:20:43
3	Mg 279.077 IEC†	2381.9	2435.0	5056.9	µg/L	5056.9 ppb	14:21:03
3	Na 589.592 Radial†	96017.8	97021.4	9952.2	µg/L	9952.2 ppb	14:20:43
3	Sr 421.552†	194052.8	198470.5	499.75	µg/L	499.75 ppb	14:20:43
3	Sc 361.383	1478036.1	1478036.1	96.695	%		14:22:19
3	Y 371.029	812367.6	812367.6	95.832	%		14:22:19
3	Ag 328.068†	86795.3	90680.2	507.93	µg/L	507.93 ppb	14:22:24
3	As 188.979†	1152.4	1189.3	495.14	µg/L	495.14 ppb	14:22:44
3	B 249.677†	10302.9	10569.3	495.06	µg/L	495.06 ppb	14:22:24
3	Ba 233.527†	59511.3	61662.8	496.48	µg/L	496.48 ppb	14:22:24
3	Be 313.107†	916056.8	947001.2	493.71	µg/L	493.71 ppb	14:22:19
3	Cd 226.502†	17407.7	18035.4	496.30	µg/L	496.30 ppb	14:22:24
3	Co 228.616†	20325.4	21082.7	496.22	µg/L	496.22 ppb	14:22:24
3	Cr 267.716†	22755.9	23478.6	492.55	µg/L	492.55 ppb	14:22:24
3	Cu 324.752†	160484.3	162103.9	494.99	µg/L	494.99 ppb	14:22:19
3	Mn 257.610†	357140.5	368975.0	496.30	µg/L	496.30 ppb	14:22:19
3	Mo 202.031†	4624.5	4796.0	520.13	µg/L	520.13 ppb	14:22:44
3	Ni 231.604†	10205.8	10397.2	500.11	µg/L	500.11 ppb	14:22:24
3	P 214.914†	3935.0	3902.6	2535.0	µg/L	2535.0 ppb	14:22:44
3	Pb 220.353†	2525.2	2604.6	504.15	µg/L	504.15 ppb	14:22:44
3	S 181.975 Axial†	581.0	571.2	1006.9	µg/L	1006.9 ppb	14:22:44
3	Sb 206.836†	1333.2	1362.7	518.52	µg/L	518.52 ppb	14:22:44
3	Se 196.026†	649.5	696.3	494	µg/L	494 ppb	14:22:44
3	SiO2 †	91045.5	93441.2	5450.2	µg/L	5450.2 ppb	14:22:24
3	Sn 189.927†	2216.4	2315.0	503.65	µg/L	503.65 ppb	14:22:44
3	Ti 334.940†	492231.6	508511.4	503.28	µg/L	503.28 ppb	14:22:19
3	Tl 190.801†	1454.6	1534.0	492.84	µg/L	492.84 ppb	14:22:44
3	U 409.014†	10356.3	10343.0	505.00	µg/L	505.00 ppb	14:22:24
3	V 292.402†	44519.8	46126.6	502.38	µg/L	502.38 ppb	14:22:24
3	Zn 213.857†	25211.0	25778.4	496.81	µg/L	496.81 ppb	14:22:24
3	Si 251.611†	89285.3	91628.8	2510	µg/L	2510 ppb	14:23:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1492248.5	97.625	%	0.8074				0.83%
Sc RADIAL	70208.9	97.4	%	0.40				0.41%
Y 371.029	820342.5	96.773	%	0.8167				0.84%
Ag 328.068†	89900.2	503.58	µg/L	3.770	503.58	ppb	3.770	0.75%
QC value within limits for Ag 328.068 Recovery = 100.72%								
Al 396.153Radial†	27036.6	4959.2	µg/L	12.59	4959.2	ppb	12.59	0.25%
QC value within limits for Al 396.153Radial Recovery = 99.18%								
As 188.979†	1183.4	492.67	µg/L	2.138	492.67	ppb	2.138	0.43%
QC value within limits for As 188.979 Recovery = 98.53%								
B 249.677†	10434.6	488.74	µg/L	5.619	488.74	ppb	5.619	1.15%
QC value within limits for B 249.677 Recovery = 97.75%								
Ba 233.527†	61065.2	491.67	µg/L	4.191	491.67	ppb	4.191	0.85%
QC value within limits for Ba 233.527 Recovery = 98.33%								
Be 313.107†	941766.0	490.98	µg/L	2.465	490.98	ppb	2.465	0.50%
QC value within limits for Be 313.107 Recovery = 98.20%								
Ca 317.933Radial†	34417.9	5071.5	µg/L	27.08	5071.5	ppb	27.08	0.53%
QC value within limits for Ca 317.933Radial Recovery = 101.43%								
Cd 226.502†	17802.6	489.89	µg/L	5.596	489.89	ppb	5.596	1.14%
QC value within limits for Cd 226.502 Recovery = 97.98%								

Co 228.616†	20929.8	492.61 µg/L	3.130	492.61 ppb	3.130	0.64%
QC value within limits for Co 228.616 Recovery = 98.52%						
Cr 267.716†	23305.3	488.91 µg/L	3.148	488.91 ppb	3.148	0.64%
QC value within limits for Cr 267.716 Recovery = 97.78%						
Cu 324.752†	161592.4	493.44 µg/L	1.669	493.44 ppb	1.669	0.34%
QC value within limits for Cu 324.752 Recovery = 98.69%						
Fe 238.204 Radial†	3652.7	5134.2 µg/L	30.18	5134.2 ppb	30.18	0.59%
QC value within limits for Fe 238.204 Radial Recovery = 102.68%						
K 766.490 Radial†	18400.8	5025.2 µg/L	13.89	5025.2 ppb	13.89	0.28%
QC value within limits for K 766.490 Radial Recovery = 100.50%						
Mg 279.077 IEC†	2447.6	5082.9 µg/L	32.39	5082.9 ppb	32.39	0.64%
QC value within limits for Mg 279.077 IEC Recovery = 101.66%						
Mn 257.610†	366898.2	493.51 µg/L	2.543	493.51 ppb	2.543	0.52%
QC value within limits for Mn 257.610 Recovery = 98.70%						
Mo 202.031†	4753.4	515.52 µg/L	4.034	515.52 ppb	4.034	0.78%
QC value within limits for Mo 202.031 Recovery = 103.10%						
Na 589.592 Radial†	97531.5	10005 µg/L	49.3	10005 ppb	49.3	0.49%
QC value within limits for Na 589.592 Radial Recovery = 100.05%						
Ni 231.604†	10313.4	496.08 µg/L	3.512	496.08 ppb	3.512	0.71%
QC value within limits for Ni 231.604 Recovery = 99.22%						
P 214.914†	3857.9	2505.9 µg/L	25.80	2505.9 ppb	25.80	1.03%
QC value within limits for P 214.914 Recovery = 100.24%						
Pb 220.353†	2583.1	499.98 µg/L	3.624	499.98 ppb	3.624	0.72%
QC value within limits for Pb 220.353 Recovery = 100.00%						
S 181.975 Axial†	568.2	1001.5 µg/L	4.79	1001.5 ppb	4.79	0.48%
QC value within limits for S 181.975 Axial Recovery = 100.15%						
Sb 206.836†	1342.5	510.88 µg/L	6.636	510.88 ppb	6.636	1.30%
QC value within limits for Sb 206.836 Recovery = 102.18%						
Se 196.026†	687.3	487 µg/L	6.6	487 ppb	6.6	1.35%
QC value within limits for Se 196.026 Recovery = 97.49%						
SiO2 †	92554.3	5398.4 µg/L	45.20	5398.4 ppb	45.20	0.84%
QC value within limits for SiO2 Recovery = 100.95%						
Si 251.611†	90773.2	2490 µg/L	26.3	2490 ppb	26.3	1.06%
QC value within limits for Si 251.611 Recovery = 99.40%						
Sn 189.927†	2292.3	498.73 µg/L	4.264	498.73 ppb	4.264	0.86%
QC value within limits for Sn 189.927 Recovery = 99.75%						
Sr 421.552†	199307.6	501.86 µg/L	2.118	501.86 ppb	2.118	0.42%
QC value within limits for Sr 421.552 Recovery = 100.37%						
Ti 334.940†	506358.3	501.15 µg/L	2.063	501.15 ppb	2.063	0.41%
QC value within limits for Ti 334.940 Recovery = 100.23%						
Tl 190.801†	1521.0	488.66 µg/L	3.618	488.66 ppb	3.618	0.74%
QC value within limits for Tl 190.801 Recovery = 97.73%						
U 409.014†	10223.3	499.16 µg/L	5.740	499.16 ppb	5.740	1.15%
QC value within limits for U 409.014 Recovery = 99.83%						
V 292.402†	45709.1	497.83 µg/L	3.939	497.83 ppb	3.939	0.79%
QC value within limits for V 292.402 Recovery = 99.57%						
Zn 213.857†	25504.0	491.50 µg/L	4.608	491.50 ppb	4.608	0.94%
QC value within limits for Zn 213.857 Recovery = 98.30%						

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: CCB
Nebulizer Back Pressure: 234.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 14:25:08
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	70734.4	70734.4	98.1	%			14:26:52
1	Al 396.153Radial†	18.6	-17.1	-3.2087	µg/L	-3.2087	ppb	14:26:52
1	Ca 317.933Radial†	269.9	19.5	2.8736	µg/L	2.8736	ppb	14:27:12
1	Fe 238.204 Radial†	44.4	4.6	6.5190	µg/L	6.5190	ppb	14:27:12
1	K 766.490 Radial†	1100.6	44.5	12.149	µg/L	12.149	ppb	14:26:52
1	Mg 279.077 IEC†	3.9	2.8	5.8523	µg/L	5.8523	ppb	14:27:12
1	Na 589.592 Radial†	786.5	-382.9	-39.276	µg/L	-39.276	ppb	14:26:52
1	Sr 421.552†	43.1	39.3	0.0988	µg/L	0.0988	ppb	14:26:52
1	Sc 361.383	1505846.3	1505846.3	98.515	%			14:28:11
1	Y 371.029	834456.8	834456.8	98.438	%			14:28:11
1	Ag 328.068†	-851.9	53.8	0.3015	µg/L	0.3015	ppb	14:28:16
1	As 188.979†	-8.2	-10.8	-4.4298	µg/L	-4.4298	ppb	14:28:36
1	B 249.677†	172.9	89.8	4.1968	µg/L	4.1968	ppb	14:28:36
1	Ba 233.527†	-107.1	8.9	0.0723	µg/L	0.0723	ppb	14:28:36
1	Be 313.107†	385.5	28.3	0.0147	µg/L	0.0147	ppb	14:28:16
1	Cd 226.502†	-38.8	-6.6	-0.1831	µg/L	-0.1831	ppb	14:28:36
1	Co 228.616†	-61.1	0.7	0.0190	µg/L	0.0190	ppb	14:28:36
1	Cr 267.716†	55.9	1.7	0.0343	µg/L	0.0343	ppb	14:28:36
1	Cu 324.752†	3846.8	39.7	0.1237	µg/L	0.1237	ppb	14:28:16
1	Mn 257.610†	436.7	72.1	0.0975	µg/L	0.0975	ppb	14:28:36
1	Mo 202.031†	-0.4	13.0	1.4040	µg/L	1.4040	ppb	14:28:36
1	Ni 231.604†	151.5	-3.7	-0.1741	µg/L	-0.1741	ppb	14:28:36
1	P 214.914†	166.5	2.2	1.4198	µg/L	1.4198	ppb	14:28:36
1	Pb 220.353†	10.4	3.7	0.7194	µg/L	0.7194	ppb	14:28:36
1	S 181.975 Axial†	32.5	3.3	5.8738	µg/L	5.8738	ppb	14:28:36
1	Sb 206.836†	29.4	13.7	5.1836	µg/L	5.1836	ppb	14:28:36
1	Se 196.026†	-26.0	-1.7	-1.23	µg/L	-1.23	ppb	14:28:36
1	SiO2 †	853.7	150.7	8.7912	µg/L	8.7912	ppb	14:28:36
1	Sn 189.927†	-25.4	-2.9	-0.6348	µg/L	-0.6348	ppb	14:28:36
1	Ti 334.940†	554.7	20.2	0.0201	µg/L	0.0201	ppb	14:28:16
1	Tl 190.801†	-31.5	-2.3	-0.7351	µg/L	-0.7351	ppb	14:28:36
1	U 409.014†	296.7	-66.1	-3.2100	µg/L	-3.2100	ppb	14:28:16
1	V 292.402†	-89.6	-5.6	-0.0507	µg/L	-0.0507	ppb	14:28:16
1	Zn 213.857†	297.0	7.3	0.1393	µg/L	0.1393	ppb	14:28:36
1	Si 251.611†	826.7	131.2	3.59	µg/L	3.59	ppb	14:30:00
2	Sc RADIAL	71696.0	71696.0	99.4	%			14:27:17
2	Al 396.153Radial†	71.9	36.2	6.6734	µg/L	6.6734	ppb	14:27:17
2	Ca 317.933Radial†	256.8	2.6	0.3877	µg/L	0.3877	ppb	14:27:37
2	Fe 238.204 Radial†	43.1	2.7	3.8184	µg/L	3.8184	ppb	14:27:37
2	K 766.490 Radial†	1155.7	84.9	23.179	µg/L	23.179	ppb	14:27:17
2	Mg 279.077 IEC†	7.8	6.7	13.820	µg/L	13.820	ppb	14:27:37
2	Na 589.592 Radial†	846.2	-333.6	-34.219	µg/L	-34.219	ppb	14:27:17
2	Sr 421.552†	36.2	31.8	0.0801	µg/L	0.0801	ppb	14:27:17
2	Sc 361.383	1504226.5	1504226.5	98.409	%			14:28:42
2	Y 371.029	833946.7	833946.7	98.377	%			14:28:42
2	Ag 328.068†	-869.5	35.0	0.1967	µg/L	0.1967	ppb	14:28:47
2	As 188.979†	-5.2	-7.7	-3.1901	µg/L	-3.1901	ppb	14:29:08
2	B 249.677†	180.9	98.1	4.5810	µg/L	4.5810	ppb	14:29:08
2	Ba 233.527†	-113.7	2.1	0.0169	µg/L	0.0169	ppb	14:29:08
2	Be 313.107†	350.1	-7.3	-0.0038	µg/L	-0.0038	ppb	14:28:47
2	Cd 226.502†	-34.6	-2.4	-0.0676	µg/L	-0.0676	ppb	14:29:08
2	Co 228.616†	-53.3	8.5	0.2002	µg/L	0.2002	ppb	14:29:08
2	Cr 267.716†	52.0	-2.3	-0.0484	µg/L	-0.0484	ppb	14:29:08
2	Cu 324.752†	3877.6	75.2	0.2321	µg/L	0.2321	ppb	14:28:47
2	Mn 257.610†	423.6	59.2	0.0799	µg/L	0.0799	ppb	14:29:08
2	Mo 202.031†	-13.4	-0.2	-0.0255	µg/L	-0.0255	ppb	14:29:08
2	Ni 231.604†	155.2	0.2	0.0111	µg/L	0.0111	ppb	14:29:08
2	P 214.914†	170.0	5.9	3.8671	µg/L	3.8671	ppb	14:29:08

2	Pb 220.353†	10.6	3.9	0.7463	µg/L	0.7463 ppb	14:29:08
2	S 181.975 Axial†	32.9	3.8	6.7025	µg/L	6.7025 ppb	14:29:08
2	Sb 206.836†	27.2	11.6	4.3614	µg/L	4.3614 ppb	14:29:08
2	Se 196.026†	-18.6	5.7	4.04	µg/L	4.04 ppb	14:29:08
2	SiO2 †	828.5	126.0	7.3493	µg/L	7.3493 ppb	14:29:08
2	Sn 189.927†	-27.1	-4.7	-1.0130	µg/L	-1.0130 ppb	14:29:08
2	Ti 334.940†	576.6	43.0	0.0425	µg/L	0.0425 ppb	14:28:47
2	Tl 190.801†	-29.4	-0.2	-0.0623	µg/L	-0.0623 ppb	14:29:08
2	U 409.014†	318.3	-43.8	-2.1246	µg/L	-2.1246 ppb	14:28:47
2	V 292.402†	-56.8	27.5	0.2929	µg/L	0.2929 ppb	14:28:47
2	Zn 213.857†	311.9	22.7	0.4382	µg/L	0.4382 ppb	14:29:08
2	Si 251.611†	832.9	138.5	3.79	µg/L	3.79 ppb	14:30:20
3	Sc RADIAL	71461.6	71461.6	99.1	%		14:27:42
3	Al 396.153Radial†	66.2	30.8	5.6339	µg/L	5.6339 ppb	14:27:42
3	Ca 317.933Radial†	256.2	2.9	0.4222	µg/L	0.4222 ppb	14:28:02
3	Fe 238.204 Radial†	42.3	2.0	2.8691	µg/L	2.8691 ppb	14:28:02
3	K 766.490 Radial†	1131.5	64.2	17.545	µg/L	17.545 ppb	14:27:42
3	Mg 279.077 IEC†	0.2	-1.0	-2.0764	µg/L	-2.0764 ppb	14:28:02
3	Na 589.592 Radial†	888.5	-288.1	-29.555	µg/L	-29.555 ppb	14:27:42
3	Sr 421.552†	-1.7	-6.3	-0.0159	µg/L	-0.0159 ppb	14:27:42
3	Sc 361.383	1503494.8	1503494.8	98.361	%		14:29:13
3	Y 371.029	833633.1	833633.1	98.340	%		14:29:13
3	Ag 328.068†	-853.4	50.9	0.2851	µg/L	0.2851 ppb	14:29:19
3	As 188.979†	-2.8	-5.2	-2.1563	µg/L	-2.1563 ppb	14:29:39
3	B 249.677†	165.5	82.5	3.8560	µg/L	3.8560 ppb	14:29:39
3	Ba 233.527†	-110.0	5.7	0.0466	µg/L	0.0466 ppb	14:29:39
3	Be 313.107†	390.3	33.8	0.0176	µg/L	0.0176 ppb	14:29:19
3	Cd 226.502†	-28.0	4.2	0.1163	µg/L	0.1163 ppb	14:29:39
3	Co 228.616†	-63.8	-2.2	-0.0497	µg/L	-0.0497 ppb	14:29:39
3	Cr 267.716†	49.0	-5.3	-0.1108	µg/L	-0.1108 ppb	14:29:39
3	Cu 324.752†	3779.1	-23.1	-0.0722	µg/L	-0.0722 ppb	14:29:19
3	Mn 257.610†	429.8	65.7	0.0886	µg/L	0.0886 ppb	14:29:39
3	Mo 202.031†	-6.3	7.0	0.7571	µg/L	0.7571 ppb	14:29:39
3	Ni 231.604†	149.1	-5.9	-0.2800	µg/L	-0.2800 ppb	14:29:39
3	P 214.914†	168.2	4.1	2.6870	µg/L	2.6870 ppb	14:29:39
3	Pb 220.353†	9.2	2.4	0.4710	µg/L	0.4710 ppb	14:29:39
3	S 181.975 Axial†	30.4	1.3	2.2506	µg/L	2.2506 ppb	14:29:39
3	Sb 206.836†	30.9	15.3	5.7682	µg/L	5.7682 ppb	14:29:39
3	Se 196.026†	-24.8	-0.6	-0.440	µg/L	-0.440 ppb	14:29:39
3	SiO2 †	819.2	117.0	6.8215	µg/L	6.8215 ppb	14:29:39
3	Sn 189.927†	-24.4	-1.9	-0.4147	µg/L	-0.4147 ppb	14:29:39
3	Ti 334.940†	565.7	32.2	0.0318	µg/L	0.0318 ppb	14:29:19
3	Tl 190.801†	-28.6	0.6	0.1892	µg/L	0.1892 ppb	14:29:39
3	U 409.014†	386.8	26.0	1.2650	µg/L	1.2650 ppb	14:29:19
3	V 292.402†	-58.8	25.5	0.2824	µg/L	0.2824 ppb	14:29:19
3	Zn 213.857†	303.9	14.8	0.2864	µg/L	0.2864 ppb	14:29:39
3	Si 251.611†	799.0	104.4	2.86	µg/L	2.86 ppb	14:30:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1504522.5	98.428	%	0.0787				0.08%
Sc RADIAL	71297.3	98.9	%	0.70				0.70%
Y 371.029	834012.2	98.385	%	0.0490				0.05%
Ag 328.068†	46.6	0.2611	µg/L	0.05640	0.2611	ppb	0.05640	21.60%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	16.6	3.0329	µg/L	5.43027	3.0329	ppb	5.43027	179.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-7.9	-3.2587	µg/L	1.13832	-3.2587	ppb	1.13832	34.93%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	90.1	4.2113	µg/L	0.36270	4.2113	ppb	0.36270	8.61%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	5.6	0.0453	µg/L	0.02772	0.0453	ppb	0.02772	61.24%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	18.3	0.0095	µg/L	0.01162	0.0095	ppb	0.01162	122.16%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	8.3	1.2279	µg/L	1.42536	1.2279	ppb	1.42536	116.09%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-1.6	-0.0448	µg/L	0.15101	-0.0448	ppb	0.15101	337.15%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	2.4	0.0565 µg/L	0.12911	0.0565 ppb	0.12911	228.39%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-2.0	-0.0417 µg/L	0.07277	-0.0417 ppb	0.07277	174.69%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	30.6	0.0946 µg/L	0.15425	0.0946 ppb	0.15425	163.14%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	3.1	4.4022 µg/L	1.89373	4.4022 ppb	1.89373	43.02%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	64.5	17.625 µg/L	5.5156	17.625 ppb	5.5156	31.29%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.8	5.8653 µg/L	7.94821	5.8653 ppb	7.94821	135.51%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	65.7	0.0887 µg/L	0.00879	0.0887 ppb	0.00879	9.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.6	0.7118 µg/L	0.71582	0.7118 ppb	0.71582	100.56%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-334.9	-34.350 µg/L	4.8618	-34.350 ppb	4.8618	14.15%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-3.1	-0.1477 µg/L	0.14735	-0.1477 ppb	0.14735	99.79%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.1	2.6580 µg/L	1.22388	2.6580 ppb	1.22388	46.05%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.3	0.6456 µg/L	0.15180	0.6456 ppb	0.15180	23.51%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.8	4.9423 µg/L	2.36763	4.9423 ppb	2.36763	47.91%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	13.5	5.1044 µg/L	0.70673	5.1044 ppb	0.70673	13.85%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.1	0.789 µg/L	2.8424	0.789 ppb	2.8424	360.07%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	131.2	7.6540 µg/L	1.01963	7.6540 ppb	1.01963	13.32%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	124.7	3.41 µg/L	0.491	3.41 ppb	0.491	14.39%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-3.2	-0.6875 µg/L	0.30260	-0.6875 ppb	0.30260	44.02%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	21.6	0.0543 µg/L	0.06156	0.0543 ppb	0.06156	113.29%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	31.8	0.0315 µg/L	0.01118	0.0315 ppb	0.01118	35.51%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.6	-0.2027 µg/L	0.47793	-0.2027 ppb	0.47793	235.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-28.0	-1.3565 µg/L	2.33428	-1.3565 ppb	2.33428	172.08%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	15.8	0.1749 µg/L	0.19537	0.1749 ppb	0.19537	111.73%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	14.9	0.2880 µg/L	0.14946	0.2880 ppb	0.14946	51.90%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Analytical Sequence
Method: General Eng.2AZ

Seq.	Loc.	ID	Status
1	7	CCV	QC Passed
2	8	CCB	QC Passed
3	34	157590001|509896|20	Analyzed
4	35	157590001|509896|50	Analyzed
5	36	157590001|509896|100	Analyzed
6	37	157590001|509896|200	Analyzed
7	7	CCV	QC Passed
8	8	CCB	QC Passed
9	47	1201049243|510923|1	Analyzed
10	48	1201049244|510923|2	Analyzed
11	49	157896001|510923|1	Analyzed
12	50	1201049245|510923|1	Analyzed
13	51	1201049246|510923|1	Analyzed
14	52	1201049248|510923|1	Analyzed
15	53	1201049247|510923|5	Analyzed
16	54	157894001|510923|1	Analyzed
17	55	157894002|510923|1	Analyzed
18	7	CCV	QC Passed
19	8	CCB	QC Passed
20	56	157896002|510923|1	Analyzed
21	57	157896003|510923|1	Analyzed
22	58	157896004|510923|1	Int Std Check Failed
23	59	157896005|510923|1	Analyzed
24	60	157896006|510923|1	Analyzed
25	61	157896007|510923|1	Analyzed
26	7	CCV	QC Passed
27	8	CCB	QC Passed

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	598	2070	0.578
Be	9.0	9.0	2066	2090	0.559
Mg	24.0	24.0	5686	2100	0.528
Mg	25.0	25.0	5954	2080	0.583
Mg	26.0	26.0	6159	2100	0.586
Co	58.9	58.9	14188	2125	0.549
Rh	102.9	102.9	24871	2175	0.560
In	114.9	114.9	27788	2205	0.537
Ce	139.9	139.9	33871	2215	0.573
Pb	206.0	206.0	49948	2290	0.623
Pb	207.0	207.0	50171	2300	0.575
Pb	208.0	208.0	50451	2300	0.582
U	238.1	238.1	57738	2340	0.591

✓ GDP 3/16/06

ICPMS #5 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Thursday, March 16, 2006 09:59:02
Sample Description:
Method File: c:\elandata\Method\Daily2.mth
Dataset File: c:\elandata\Dataset\default\Sample.1359
Tuning File: c:\elandata\Tuning\default2.tun
Optimization File: c:\elandata\Optimize\default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35
Current Dead Time (ns): 35

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	5518.1	5518.066	74.039	1.3
	Mg	24.0	49106.9	49106.867	582.348	1.2
	Co	58.9	104826.5	104826.451	1423.620	1.4
	Rh	102.9	211716.2	211716.171	3198.421	1.5
	In	114.9	224094.6	224094.614	3017.263	1.3
	Pb	208.0	174835.9	174835.855	1872.829	1.1
[>	Ba	137.9	243694.9	243694.851	2516.441	1.0
[	Ba++	69.0	5449.1	0.022	0.000	2.0
[>	Ce	139.9	317719.5	317719.515	4983.696	1.6
[	CeO	155.9	6447.2	0.020	0.000	1.5
	Bkgd	220.0	16.7	16.700	5.729	34.3

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
8.75	Lens Voltage
1400.00	ICP RF Power
-1606.25	Analog Stage Voltage
1100.00	Pulse Stage Voltage
250.00	Discriminator Threshold
-6.00	AC Rod Offset

✓ EAQ 3/16/06

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	9.3	7137.1
Co	59	13	10.0	119248.6
In	115	13	11.0	324219.9

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Thursday, March 16, 2006 14:35:49
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\Blank.145

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9		ug/L		32	
>	Sc	45		ug/L		1016083	
	Ni	60		ug/L		140	
	Ag	107		ug/L		213	
>	In	115		ug/L		305409	
	Sb	121		ug/L		830	
	Sb	123		ug/L		665	
>	Ta	181		ug/L		508309	
	Tl	205		ug/L		2206	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Linear Thru Zero	
Ni	60	Simple Linear	
Ag	107	Simple Linear	
In	115	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Ta	181	Simple Linear	
Tl	205	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Ni	60					
	Ag	107					
>	In	115					
	Sb	121					
	Sb	123					
>	Ta	181					
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Thursday, March 16, 2006 14:38:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\MethodNani.mth
Dataset File: c:\elandata\Dataset\060316\Standard 1.146

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	10.000	ug/L	1.796	5607	0.006
>	Sc	45		ug/L		1006858	1006857.587
	Ni	60	10.000	ug/L	2.133	20891	0.021
	Ag	107	10.000	ug/L	1.382	82015	0.260
>	In	115		ug/L		314460	314460.425
	Sb	121	10.000	ug/L	3.690	57957	0.182
	Sb	123		ug/L		45661	0.143
>	Ta	181		ug/L		517784	517784.355
	Tl	205	10.000	ug/L	3.014	250298	0.479

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Ni	60					
	Ag	107					
>	In	115					
	Sb	121					
	Sb	123					
>	Ta	181					
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Thursday, March 16, 2006 14:41:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\Standard 2.147

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	99.974	ug/L	2.276	53208	0.054
>	Sc	45		ug/L		985011	985011.261
	Ni	60	99.984	ug/L	1.606	199947	0.203
	Ag	107	99.948	ug/L	4.196	757927	2.472
>	In	115		ug/L		306648	306647.973
	Sb	121	100.019	ug/L	4.942	568286	1.852
	Sb	123		ug/L		455135	1.483
>	Ta	181		ug/L		523593	523593.363
	Tl	205	99.811	ug/L	2.031	2109037	4.024

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45					
	Ni	60					
	Ag	107					
>	In	115					
	Sb	121					
	Sb	123					
>	Ta	181					
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, March 16, 2006 14:44:51
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 1.148

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**49.480**	**ug/L**	3.231	27654	0.027
|>	Sc	45		**ug/L**		1034145	1034144.684
⌊	Ni	60	**50.448**	**ug/L**	3.130	105968	0.102
⌈	Ag	107	**52.855**	**ug/L**	1.169	408469	1.307
|>	In	115		**ug/L**		312265	312265.085
|	Sb	121	**51.584**	**ug/L**	2.252	299017	0.955
⌊	Sb	123		**ug/L**		235512	0.752
⌈>	Ta	181		**ug/L**		519512	519512.047
⌊	Tl	205	**53.896**	**ug/L**	1.713	1131079	2.173

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov/Dilution % Di/Duplicate Rel. % Difference
	Be	9	98.959		
>	Sc	45		101.8	
	Ni	60	100.895		
	Ag	107	105.709		
>	In	115		102.2	
	Sb	121	103.168		
	Sb	123			
>	Ta	181		102.2	
	Tl	205	107.791		

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Thursday, March 16, 2006 14:47:53
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\MethodNanl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 2.149

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.007	ug/L	73.387	37	0.000
>	Sc	45		ug/L		1038863	1038862.991
	Ni	60	-0.004	ug/L	161.358	134	-0.000
	Ag	107	0.002	ug/L	157.805	234	0.000
>	In	115		ug/L		315995	315994.984
	Sb	121	0.573	ug/L	8.988	4205	0.011
	Sb	123		ug/L		3433	0.009
>	Ta	181		ug/L		538007	538006.857
	Tl	205	0.083	ug/L	13.567	4148	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		102.2			
	Ni	60					
	Ag	107					
>	In	115		103.5			
	Sb	121					
	Sb	123					
>	Ta	181		105.8			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, March 16, 2006 14:50:56
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\MethodNani.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 3.150

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**0.469**	**ug/L**	5.643	292	0.000
>	Sc	45		**ug/L**		1026545	1026545.445
	Ni	60	**2.091**	**ug/L**	2.646	4497	0.004
	Ag	107	**1.061**	**ug/L**	1.554	8430	0.026
>	In	115		**ug/L**		313073	313072.982
	Sb	121	**2.131**	**ug/L**	5.466	13189	0.039
	Sb	123		**ug/L**		10327	0.031
>	Ta	181		**ug/L**		526305	526305.496
	Tl	205	**1.152**	**ug/L**	1.454	26734	0.046

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	93.708				
>	Sc	45		101.0			
	Ni	60	104.540				
	Ag	107	106.061				
>	In	115		102.5			
	Sb	121	106.528				
	Sb	123					
>	Ta	181		103.5			
	Tl	205	115.228				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 16, 2006 14:53:57
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 4.151

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	-0.019	ug/L	49.865	21	-0.000
>	Sc	45		ug/L		988279	988278.696
	Ni	60	2.460	ug/L	2.108	5071	0.005
	Ag	107	0.079	ug/L	1.817	754	0.002
>	In	115		ug/L		284444	284444.022
	Sb	121	0.563	ug/L	2.811	3736	0.010
	Sb	123		ug/L		2913	0.008
>	Ta	181		ug/L		494490	494489.606
	Tl	205	-0.029	ug/L	3.897	1561	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		97.3			
	Ni	60	102.515				
	Ag	107					
>	In	115		93.1			
	Sb	121	112.522				
	Sb	123					
>	Ta	181		97.3			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Thursday, March 16, 2006 14:56:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 5.152

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	18.337	ug/L	3.586	9578	0.010
>	Sc	45		ug/L		965020	965020.148
	Ni	60	20.971	ug/L	2.794	41184	0.043
	Ag	107	19.927	ug/L	1.199	139368	0.493
>	In	115		ug/L		282356	282355.736
	Sb	121	22.397	ug/L	0.696	117844	0.415
	Sb	123		ug/L		93879	0.330
>	Ta	181		ug/L		496338	496337.661
	Tl	205	19.910	ug/L	2.346	400580	0.803

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	91.686				
>	Sc	45		95.0			
	Ni	60	93.620				
	Ag	107	99.635				
>	In	115		92.5			
	Sb	121	109.252				
	Sb	123					
>	Ta	181		97.6			
	Tl	205	99.549				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 16, 2006 15:00:00
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 6.153

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**50.702**	**ug/L**	2.695	28056	0.027
>	Sc	45		**ug/L**		1023596	1023596.131
	Ni	60	**50.927**	**ug/L**	2.107	105883	0.103
	Ag	107	**53.470**	**ug/L**	2.244	411252	1.323
>	In	115		**ug/L**		310855	310855.423
	Sb	121	**51.578**	**ug/L**	4.042	297532	0.955
	Sb	123		**ug/L**		231905	0.744
>	Ta	181		**ug/L**		526442	526442.070
	Tl	205	**53.531**	**ug/L**	2.158	1138266	2.158

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈	Be	9	101.403				
|>	Sc	45		100.7			
⌊	Ni	60	101.853				
⌈	Ag	107	106.941				
|>	In	115		101.8			
|	Sb	121	103.156				
⌊	Sb	123					
⌈>	Ta	181		103.6			
⌊	Tl	205	107.062				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Thursday, March 16, 2006 15:03:03
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\Ani.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 7.154

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	-0.001	ug/L	1013.399	33	-0.000
|>	Sc	45		ug/L		1065217	1065216.535
⌊	Ni	60	-0.000	ug/L	1281.159	146	-0.000
⌈	Ag	107	0.002	ug/L	147.250	237	0.000
|>	In	115		ug/L		322790	322790.426
|	Sb	121	0.441	ug/L	10.124	3510	0.008
⌊	Sb	123		ug/L		2783	0.006
⌈>	Ta	181		ug/L		514705	514705.005
⌊	Tl	205	0.120	ug/L	6.739	4726	0.005

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		104.8			
	Ni	60					
	Ag	107					
>	In	115		105.7			
	Sb	121					
	Sb	123					
>	Ta	181		101.3			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 11
Sample Date/Time: Thursday, March 16, 2006 15:09:05
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\Ianl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 11.156

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**50.930**	**ug/L**	3.552	27822	0.028
| >	Sc	45		**ug/L**		1010910	1010909.921
⌊	Ni	60	**51.225**	**ug/L**	1.555	105198	0.104
⌈	Ag	107	**52.354**	**ug/L**	2.171	405041	1.295
| >	In	115		**ug/L**		312680	312680.253
|	Sb	121	**52.937**	**ug/L**	3.391	307164	0.980
⌊	Sb	123		**ug/L**		244073	0.778
⌈>	Ta	181		**ug/L**		514146	514146.210
⌊	Tl	205	**53.842**	**ug/L**	1.175	1118191	2.171

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	101.861				
>	Sc	45		99.5			
	Ni	60	102.450				
	Ag	107	104.709				
>	In	115		102.4			
	Sb	121	105.875				
	Sb	123					
>	Ta	181		101.1			
	Tl	205	107.683				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 12
Sample Date/Time: Thursday, March 16, 2006 15:12:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\lani.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 12.157

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.015	ug/L	88.306	42	0.000
|>	Sc	45		ug/L		1039113	1039112.731
⌊	Ni	60	0.008	ug/L	54.053	160	0.000
⌈	Ag	107	0.006	ug/L	21.661	267	0.000
|>	In	115		ug/L		320031	320031.213
|	Sb	121	0.985	ug/L	2.513	6708	0.018
⌊	Sb	123		ug/L		5251	0.014
⌈>	Ta	181		ug/L		526628	526628.460
⌊	Tl	205	0.135	ug/L	9.487	5146	0.005

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		102.3			
	Ni	60					
	Ag	107					
>	In	115		104.8			
	Sb	121					
	Sb	123					
>	Ta	181		103.6			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049313
Sample Date/Time: Thursday, March 16, 2006 15:15:13
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049313.158

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	-0.020	ug/L	36.235	24	-0.000
>	Sc	45		ug/L		1136657	1136657.114
	Ni	60	0.010	ug/L	25.937	180	0.000
	Ag	107	-0.008	ug/L	26.215	174	-0.000
>	In	115		ug/L		347002	347002.034
	Sb	121	0.258	ug/L	1.527	2600	0.005
	Sb	123		ug/L		2059	0.004
>	Ta	181		ug/L		579083	579082.783
	Tl	205	0.014	ug/L	38.418	2840	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		111.9			
	Ni	60					
	Ag	107					
>	In	115		113.6			
	Sb	121					
	Sb	123					
>	Ta	181		113.9			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049314
Sample Date/Time: Thursday, March 16, 2006 15:18:18
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 510962|40|baj
Method File: c:\elandata\MethodNanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049314.159

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**22.319**	**ug/L**	2.012	13003	0.012
>	Sc	45		**ug/L**		1076119	1076118.886
	Ni	60	**26.581**	**ug/L**	3.720	58161	0.054
	Ag	107	**7.425**	**ug/L**	1.945	60084	0.184
>	In	115		**ug/L**		325921	325921.142
	Sb	121	**8.251**	**ug/L**	3.370	50665	0.153
	Sb	123		**ug/L**		39806	0.120
>	Ta	181		**ug/L**		517361	517360.836
	Tl	205	**54.703**	**ug/L**	2.094	1143134	2.205

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		105.9			
	Ni	60					
	Ag	107					
>	In	115		106.7			
	Sb	121					
	Sb	123					
>	Ta	181		101.8			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896001
Sample Date/Time: Thursday, March 16, 2006 15:27:37
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896001.162

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.636	ug/L	5.474	413	0.000
>	Sc	45		ug/L		1098842	1098842.277
	Ni	60	1.583	ug/L	4.766	3676	0.003
	Ag	107	0.160	ug/L	3.735	1596	0.004
>	In	115		ug/L		342414	342414.489
	Sb	121	-0.003	ug/L	223.253	914	-0.000
	Sb	123		ug/L		744	-0.000
>	Ta	181		ug/L		658732	658732.153
	Tl	205	0.009	ug/L	25.428	3094	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		108.1			
	Ni	60					
	Ag	107					
>	In	115		112.1			
	Sb	121					
	Sb	123					
>	Ta	181		129.6			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1201049315
Sample Date/Time: Thursday, March 16, 2006 15:30:44
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049315.163

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.607	ug/L	4.030	401	0.000
|>	Sc	45		ug/L		1114056	1114055.621
⌊	Ni	60	1.548	ug/L	3.911	3649	0.003
⌈	Ag	107	0.145	ug/L	0.673	1448	0.004
|>	In	115		ug/L		338492	338491.937
|	Sb	121	-0.009	ug/L	117.936	865	-0.000
⌊	Sb	123		ug/L		657	-0.000
⌈>	Ta	181		ug/L		648520	648520.114
⌊	Tl	205	-0.007	ug/L	18.897	2629	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		109.6			
	Ni	60					
	Ag	107					
>	In	115		110.8			
	Sb	121					
	Sb	123					
>	Ta	181		127.6			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1201049316
Sample Date/Time: Thursday, March 16, 2006 15:33:51
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049316.164

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**24.123**	**ug/L**	11.300	14327	0.013
>	Sc	45		**ug/L**		1103608	1103608.153
	Ni	60	**25.079**	**ug/L**	9.995	56023	0.051
	Ag	107	**24.520**	**ug/L**	7.133	199347	0.607
>	In	115		**ug/L**		329153	329152.981
	Sb	121	**45.483**	**ug/L**	4.873	277566	0.842
	Sb	123		**ug/L**		220650	0.670
>	Ta	181		**ug/L**		610105	610105.318
	Tl	205	**23.222**	**ug/L**	4.954	573201	0.936

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		108.6			
	Ni	60					
	Ag	107					
>	In	115		107.8			
	Sb	121					
	Sb	123					
>	Ta	181		120.0			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1201049319
Sample Date/Time: Thursday, March 16, 2006 15:36:56
Sample Type:
Sample Description: LANL 6020 MSD
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049319.165

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**23.065**	ug/L	1.567	14282	0.012
|>	Sc	45		ug/L		1143718	1143718.223
⌊	Ni	60	**23.549**	ug/L	2.396	54814	0.048
⌈	Ag	107	**22.658**	ug/L	2.678	194096	0.560
|>	In	115		ug/L		345912	345912.389
|	Sb	121	**42.799**	ug/L	1.243	274987	0.792
⌊	Sb	123		ug/L		218149	0.628
⌈>	Ta	181		ug/L		616321	616320.800
⌊	Tl	205	**22.766**	ug/L	1.514	568290	0.918

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		112.6			
	Ni	60					
	Ag	107					
>	In	115		113.3			
	Sb	121					
	Sb	123					
>	Ta	181		121.2			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1201049317
Sample Date/Time: Thursday, March 16, 2006 15:40:02
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\1201049317.166

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.131	ug/L	6.648	110	0.000
|>	Sc	45		ug/L		1073452	1073452.017
⌊	Ni	60	0.319	ug/L	7.532	843	0.001
⌈	Ag	107	0.014	ug/L	24.610	343	0.000
|>	In	115		ug/L		329012	329012.274
|	Sb	121	0.051	ug/L	22.001	1203	0.001
⌊	Sb	123		ug/L		967	0.001
⌈>	Ta	181		ug/L		558144	558144.287
⌊	Tl	205	0.161	ug/L	12.378	6036	0.006

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		105.6			
	Ni	60					
	Ag	107					
>	In	115		107.7			
	Sb	121					
	Sb	123					
>	Ta	181		109.8			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Thursday, March 16, 2006 15:43:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\Ianl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 8.167

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**51.108**	**ug/L**	4.120	28508	0.028
|>	Sc	45		**ug/L**		1032574	1032574.234
⌊	Ni	60	**51.775**	**ug/L**	2.577	108576	0.105
⌈	Ag	107	**52.348**	**ug/L**	0.305	411211	1.295
|>	In	115		**ug/L**		317394	317394.206
|	Sb	121	**50.631**	**ug/L**	0.935	298376	0.937
⌊	Sb	123		**ug/L**		233969	0.735
⌈>	Ta	181		**ug/L**		523000	523000.390
⌊	Tl	205	**53.067**	**ug/L**	3.892	1120351	2.139

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	102.217				
>	Sc	45		101.6			
	Ni	60	103.549				
	Ag	107	104.696				
>	In	115		103.9			
	Sb	121	101.262				
	Sb	123					
>	Ta	181		102.9			
	Tl	205	106.134				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Thursday, March 16, 2006 15:46:10
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 9.168

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**0.010**	**ug/L**	186.347	39	0.000
|>	Sc	45		**ug/L**		1042193	1042192.861
⌊	Ni	60	**0.001**	**ug/L**	794.024	144	0.000
⌈	Ag	107	**0.006**	**ug/L**	3.336	271	0.000
|>	In	115		**ug/L**		318474	318473.939
|	Sb	121	**0.426**	**ug/L**	9.452	3375	0.008
⌊	Sb	123		**ug/L**		2616	0.006
⌈>	Ta	181		**ug/L**		521677	521676.861
⌊	Tl	205	**0.078**	**ug/L**	7.701	3906	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈	Be	9					
|>	Sc	45		102.6			
⌊	Ni	60					
⌈	Ag	107					
|>	In	115		104.3			
|	Sb	121					
⌊	Sb	123					
⌈>	Ta	181		102.6			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896002
Sample Date/Time: Thursday, March 16, 2006 15:49:16
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896002.169

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	**1.092**	**ug/L**	6.465	722	0.001
>	Sc	45		**ug/L**		1163561	1163560.681
	Ni	60	**2.461**	**ug/L**	5.992	5959	0.005
	Ag	107	**0.186**	**ug/L**	0.291	1819	0.005
>	In	115		**ug/L**		343928	343927.503
	Sb	121	**0.114**	**ug/L**	3.121	1661	0.002
	Sb	123		**ug/L**		1320	0.002
>	Ta	181		**ug/L**		667392	667391.835
	Tl	205	**0.002**	**ug/L**	297.128	2951	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		114.5			
	Ni	60					
	Ag	107					
>	In	115		112.6			
	Sb	121					
	Sb	123					
>	Ta	181		131.3			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 157896003
Sample Date/Time: Thursday, March 16, 2006 15:52:23
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\MethodNanl.mth
Dataset File: c:\elandata\Dataset\060316\157896003.170

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.534	ug/L	7.414	365	0.000
|>	Sc	45		ug/L		1139315	1139315.064
⌊	Ni	60	1.086	ug/L	1.005	2667	0.002
⌈	Ag	107	0.151	ug/L	2.089	1518	0.004
|>	In	115		ug/L		342550	342550.389
|	Sb	121	-0.001	ug/L	565.601	924	-0.000
⌊	Sb	123		ug/L		719	-0.000
⌈>	Ta	181		ug/L		666014	666014.184
⌊	Tl	205	-0.025	ug/L	5.267	2230	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Ti	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		112.1			
	Ni	60					
	Ag	107					
>	In	115		112.2			
	Sb	121					
	Sb	123					
>	Ta	181		131.0			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 157896004
Sample Date/Time: Thursday, March 16, 2006 15:55:31
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896004.171

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.692	ug/L	4.473	451	0.000
|>	Sc	45		ug/L		1110922	1110921.975
⌊	Ni	60	1.253	ug/L	4.897	2976	0.003
⌈	Ag	107	0.171	ug/L	5.465	1721	0.004
|>	In	115		ug/L		348717	348716.682
|	Sb	121	-0.025	ug/L	21.962	785	-0.000
⌊	Sb	123		ug/L		614	-0.000
⌈>	Ta	181		ug/L		685794	685794.259
⌊	Tl	205	-0.023	ug/L	11.709	2330	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		109.3			
	Ni	60					
	Ag	107					
>	In	115		114.2			
	Sb	121					
	Sb	123					
>	Ta	181		134.9			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 157896005
Sample Date/Time: Thursday, March 16, 2006 15:58:39
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896005.172

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	0.775	ug/L	4.680	504	0.000
|>	Sc	45		ug/L		1118991	1118990.964
⌊	Ni	60	0.644	ug/L	3.680	1616	0.001
⌈	Ag	107	0.174	ug/L	0.667	1734	0.004
|>	In	115		ug/L		346036	346036.157
|	Sb	121	-0.047	ug/L	8.824	639	-0.001
⌊	Sb	123		ug/L		534	-0.001
⌈>	Ta	181		ug/L		676367	676367.488
⌊	Tl	205	-0.040	ug/L	2.087	1831	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		110.1			
	Ni	60					
	Ag	107					
>	In	115		113.3			
	Sb	121					
	Sb	123					
>	Ta	181		133.1			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 157896006
Sample Date/Time: Thursday, March 16, 2006 16:01:46
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896006.173

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**0.642**	**ug/L**	8.548	427	0.000
|>	Sc	45		**ug/L**		1130732	1130731.729
⌊	Ni	60	**0.846**	**ug/L**	4.893	2094	0.002
⌈	Ag	107	**0.132**	**ug/L**	2.141	1370	0.003
|>	In	115		**ug/L**		345191	345191.038
|	Sb	121	**-0.069**	**ug/L**	2.334	499	-0.001
⌊	Sb	123		**ug/L**		394	-0.001
⌈>	Ta	181		**ug/L**		671320	671320.028
⌊	Tl	205	**-0.047**	**ug/L**	6.622	1638	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		111.3			
	Ni	60					
	Ag	107					
>	In	115		113.0			
	Sb	121					
	Sb	123					
>	Ta	181		132.1			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 157896007
Sample Date/Time: Thursday, March 16, 2006 16:04:52
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\lanl.mth
Dataset File: c:\elandata\Dataset\060316\157896007.174

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**0.715**	**ug/L**	10.381	463	0.000
|>	Sc	45		**ug/L**		1110631	1110630.612
⌊	Ni	60	**0.816**	**ug/L**	2.311	1991	0.002
⌈	Ag	107	**0.142**	**ug/L**	7.826	1422	0.004
|>	In	115		**ug/L**		338390	338389.796
|	Sb	121	**-0.077**	**ug/L**	4.133	435	-0.001
⌊	Sb	123		**ug/L**		349	-0.001
⌈>	Ta	181		**ug/L**		706530	706529.844
⌊	Tl	205	**-0.054**	**ug/L**	2.324	1530	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		109.3			
	Ni	60					
	Ag	107					
>	In	115		110.8			
	Sb	121					
	Sb	123					
>	Ta	181		139.0			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ta 181 Int Std for sa	Ta	181	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 16, 2006 16:07:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\MethodNanl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 6.175

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈	Be	9	**50.674**	**ug/L**	2.130	28310	0.027
|>	Sc	45		**ug/L**		1033604	1033603.580
⌊	Ni	60	**49.937**	**ug/L**	2.879	104828	0.101
⌈	Ag	107	**50.939**	**ug/L**	2.309	401117	1.260
|>	In	115		**ug/L**		318239	318238.551
|	Sb	121	**50.030**	**ug/L**	3.228	295526	0.926
⌊	Sb	123		**ug/L**		232191	0.728
⌈>	Ta	181		**ug/L**		529806	529806.401
⌊	Tl	205	**52.123**	**ug/L**	1.731	1115499	2.101

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9	101.349				
>	Sc	45		101.7			
	Ni	60	99.874				
	Ag	107	101.878				
>	In	115		104.2			
	Sb	121	100.060				
	Sb	123					
>	Ta	181		104.2			
	Tl	205	104.245				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Thursday, March 16, 2006 16:10:58
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\anl.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 7.176

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Be	9	0.009	ug/L	121.960	39	0.000
>	Sc	45		ug/L		1067791	1067791.238
	Ni	60	0.005	ug/L	32.526	159	0.000
	Ag	107	0.004	ug/L	45.428	252	0.000
>	In	115		ug/L		319297	319296.841
	Sb	121	0.352	ug/L	12.537	2949	0.007
	Sb	123		ug/L		2281	0.005
>	Ta	181		ug/L		528766	528765.843
	Tl	205	0.057	ug/L	23.713	3499	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Be	9					
>	Sc	45		105.1			
	Ni	60					
	Ag	107					
>	In	115		104.5			
	Sb	121					
	Sb	123					
>	Ta	181		104.0			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Thursday, March 16, 2006 16:47:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\Blank.194

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		523683	
	Tl	205		ug/L		2835	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Simple Linear	
Tl	205	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Ta	181					
Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Thursday, March 16, 2006 16:50:17
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\Standard 1.195

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		526193	526193.272
[	Tl	205	10.000	ug/L	0.864	242582	0.456

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Ta	181					
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Thursday, March 16, 2006 16:52:48
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\Standard 2.196

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		525705	525704.860
	Tl	205	99.805	ug/L	1.837	2003015	3.806

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
> Ta	181					
Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Thursday, March 16, 2006 16:55:21
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 1.197

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		524646	524645.699
⌊	Tl	205	54.996	ug/L	1.099	1103227	2.097

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Ta	181		100.2			
	Tl	205	109.993				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Thursday, March 16, 2006 16:57:55
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 2.198

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		516780	516780.002
	Tl	205	0.083	ug/L	2.612	4443	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		98.7			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Thursday, March 16, 2006 17:00:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 3.199

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		523444	523443.921
[	Tl	205	1.165	ug/L	2.370	26085	0.044

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		100.0			
⌊	Tl	205	116.503				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Thursday, March 16, 2006 17:03:04
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 4.200

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		497416	497415.542
[	Tl	205	-0.057	ug/L	0.716	1617	-0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		95.0			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Thursday, March 16, 2006 17:05:38
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 5.201

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		497092	497091.800
⌊	Tl	205	20.038	ug/L	0.506	382534	0.764

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		94.9			
⌊	Tl	205	100.189				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 16, 2006 17:08:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 6.202

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		519530	519529.692
⌊	Tl	205	54.800	ug/L	0.924	1088539	2.090

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Ta	181		99.2			
	Tl	205	109.599				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Thursday, March 16, 2006 17:10:45
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 7.203

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		536162	536161.937
	Tl	205	0.121	ug/L	2.090	5370	0.005

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		102.4			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049313
Sample Date/Time: Thursday, March 16, 2006 17:13:22
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 510962|2|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049313.204

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		565486	565486.487
⌊	Tl	205	-0.007	ug/L	7.918	2908	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
> Ta	181		108.0			
Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049314
Sample Date/Time: Thursday, March 16, 2006 17:16:00
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 510962|40|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049314.205

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		526044	526044.091
⌊	Tl	205	56.220	ug/L	2.349	1130488	2.144

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		100.5			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896001
Sample Date/Time: Thursday, March 16, 2006 17:29:20
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896001.209

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		563722	563722.436
[	Tl	205	-0.067	ug/L	2.023	1605	-0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		107.6			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049315
Sample Date/Time: Thursday, March 16, 2006 17:32:00
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049315.210

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		564633	564632.881
[	Tl	205	-0.077	ug/L	1.206	1406	-0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		107.8			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049316
Sample Date/Time: Thursday, March 16, 2006 17:34:38
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049316.211

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		547648	547647.831
⌊	Tl	205	5.369	ug/L	1.675	115099	0.205

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		104.6			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049319
Sample Date/Time: Thursday, March 16, 2006 17:37:16
Sample Type:
Sample Description: LANL 6020 MSD
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049319.212

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		543555	543555.379
	Tl	205	5.251	ug/L	0.151	111784	0.200

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		103.8			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049317
Sample Date/Time: Thursday, March 16, 2006 17:39:54
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 510962|50|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\1201049317.213

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		529395	529394.841
[	Tl	205	0.000	ug/L	2359.072	2869	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		101.1			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Thursday, March 16, 2006 17:42:30
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 8.214

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		530430	530430.171
	Tl	205	54.875	ug/L	1.663	1113079	2.093

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		101.3			
[	Tl	205	109.750				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Thursday, March 16, 2006 17:45:06
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 9.215

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		522440	522440.333
⌊	Tl	205	0.110	ug/L	3.641	5026	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		99.8			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896002
Sample Date/Time: Thursday, March 16, 2006 17:47:44
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896002.216

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		555350	555349.633
	Tl	205	-0.035	ug/L	10.550	2256	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		106.0			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896003
Sample Date/Time: Thursday, March 16, 2006 17:50:23
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896003.217

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		559495	559495.382
	Tl	205	-0.065	ug/L	3.475	1648	-0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Ta	181		106.8			
	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896004
Sample Date/Time: Thursday, March 16, 2006 17:53:03
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896004.218

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		543170	543169.992
[	Tl	205	-0.073	ug/L	4.094	1438	-0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Ta	181		103.7			
[	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896005
Sample Date/Time: Thursday, March 16, 2006 17:55:43
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896005.219

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ta	181		ug/L		562987	562987.102
[	Tl	205	-0.083	ug/L	3.496	1255	-0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		107.5			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896006
Sample Date/Time: Thursday, March 16, 2006 17:58:23
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896006.220

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		563532	563531.943
	Tl	205	-0.089	ug/L	2.017	1131	-0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		107.6			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157896007
Sample Date/Time: Thursday, March 16, 2006 18:01:01
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510962|10|baj
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\157896007.221

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		564962	564962.008
⌊	Tl	205	-0.091	ug/L	1.360	1102	-0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		107.9			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Thursday, March 16, 2006 18:03:36
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 6.222

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
⌈>	Ta	181		ug/L		537597	537597.430
⌊	Tl	205	**54.078**	ug/L	2.471	1111340	2.062

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Ta	181		102.7			
	Tl	205	108.156				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Thursday, March 16, 2006 18:06:11
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\tl only.mth
Dataset File: c:\elandata\Dataset\060316\QC Std 7.223

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Ta	181		ug/L		531677	531676.714
	Tl	205	0.171	ug/L	5.259	6348	0.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
⌈>	Ta	181		101.5			
⌊	Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

==========
Method Name: SOIL1
Method Description: 7471A, ILM04 ANALYST NAR
Element: Hg

Date: 03/15/2006
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 031506S1.SIF Results Data Set Name: 031506S1

==========
Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 03/15/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0002	0.0002	10:53:58	No
2			0.0003	0.0003	10:54:32	No
Mean:			0.0003			
SD :			0.0000			
%RSD:			15.2868			

Auto-zero performed.

==========
Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 03/15/2006
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0023	0.0026	10:55:56	No
2			0.0024	0.0026	10:56:31	No
Mean:			0.0023			
SD :			0.0000			
%RSD:			1.6852			

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.01167

==========
Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 03/15/2006
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0054	0.0056	10:57:55	No
2			0.0057	0.0059	10:58:30	No
Mean:			0.0055			
SD :			0.0002			
%RSD:			4.0160			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99879 Slope: 0.01114

==========
Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 03/15/2006
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0220	0.0223	10:59:55	No
2			0.0221	0.0224	11:00:29	No
Mean:			0.0221			
SD :			0.0001			
%RSD:			0.3070			

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99996 Slope: 0.01104

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 03/15/2006
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0552	0.0554	11:01:54	No
2			0.0552	0.0555	11:02:29	No
Mean:			0.0552			
SD :			0.0000			
%RSD:						

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 1.00000 Slope: 0.01104

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 03/15/2006
Sample ID: S10

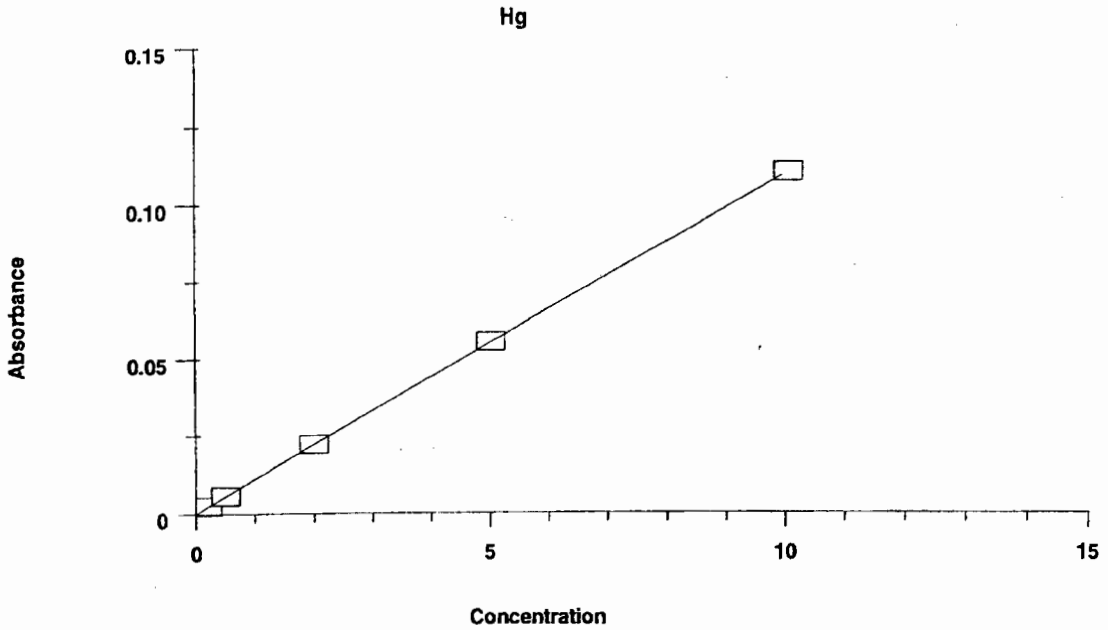
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.1080	0.1083	11:03:56	No
2			0.1118	0.1120	11:04:30	No
Mean:			0.1099			
SD :			0.0026			
%RSD:			2.3879			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 1.00000 Slope: 0.01100

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0003	---	----	----	----
S0.2	0.0023	0.200	0.212	0.0000	1.7
S0.5	0.0055	0.500	0.502	0.0002	4.0
S2.0	0.0221	2.000	2.006	0.0001	0.3
S5.0	0.0552	5.000	5.018	0.0000	----
S10	0.1099	10.000	9.990	0.0026	2.4

Correlation Coefficient: 1.00000 Slope: 0.01100 ----



==========

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 03/15/2006

Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.977	4.977	0.0548	0.0550	11:06:00	No
2	5.124	5.124	0.0564	0.0566	11:06:35	No
Mean:	5.050	5.050	0.0556			
SD :	0.1039	0.1039	0.0011			
%RSD:	2.1	2.1	2.0568			

QC value within specified limits.

==========

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 03/15/2006

Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0003	11:07:57	No
2	0.002	0.002	0.0000	0.0003	11:08:32	No
Mean:	0.003	0.003	0.0000			
SD :	0.0008	0.0008	0.0000			
%RSD:	30.4	30.4	30.4471			

QC value within specified limits.

==========

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 03/15/2006

Sample ID: CRDL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.208	0.208	0.0023	0.0025	11:09:55	No
2	0.212	0.212	0.0023	0.0026	11:10:30	No
Mean:	0.210	0.210	0.0023			
SD :	0.0030	0.0030	0.0000			
%RSD:	1.4	1.4	1.4376			

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.004	5.004	0.0551	0.0553	11:11:55	No
2	5.242	5.242	0.0577	0.0579	11:12:30	No
Mean:	5.123	5.123	0.0564			
SD :	0.1681	0.1681	0.0018			
%RSD:	3.3	3.3	3.2816			

QC value within specified limits.

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0003	11:13:58	No
2	-0.003	-0.003	0.0000	0.0002	11:14:33	No
Mean:	0.000	0.000	0.0000			
SD :	0.0036	0.0036	0.0000			
%RSD:	1179	1179	1179.3382			

QC value within specified limits.

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 03/15/2006
Sample ID: 1201042139|i||507768|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.014	0.014	0.0002	0.0004	11:16:00	No
2	0.011	0.011	0.0001	0.0004	11:16:35	No
Mean:	0.012	0.012	0.0001			
SD :	0.0026	0.0026	0.0000			
%RSD:	21.0	21.0	20.9914			

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 03/15/2006
Sample ID: 1201042140|i|10||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	3.582	3.582	0.0394	0.0397	11:18:01	No
2	3.366	3.366	0.0370	0.0373	11:18:36	No
Mean:	3.474	3.474	0.0382			
SD :	0.1528	0.1528	0.0017			
%RSD:	4.4	4.4	4.3981			

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 03/15/2006
Sample ID: 156978001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.020	0.020	0.0002	0.0005	11:20:02	No
2	0.019	0.019	0.0002	0.0005	11:20:37	No
Mean:	0.019	0.019	0.0002			
SD :	0.0008	0.0008	0.0000			
%RSD:	4.3	4.3	4.2951			

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 03/15/2006
Sample ID: 156983001|i|||

%RSD: 746.4 746.4 746.3862

==========

Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 03/15/2006
Sample ID: 156983003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0001	0.0004	11:33:54	No
2	0.015	0.015	0.0002	0.0004	11:34:29	No
Mean:	0.013	0.013	0.0001			
SD :	0.0022	0.0022	0.0000			
%RSD:	16.2	16.2	16.2254			

==========

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.912	4.912	0.0540	0.0543	11:35:53	No
2	4.892	4.892	0.0538	0.0541	11:36:28	No
Mean:	4.902	4.902	0.0539			
SD :	0.0142	0.0142	0.0002			
%RSD:	0.3	0.3	0.2893			

QC value within specified limits.

==========

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	0.0003	11:37:56	No
2	-0.008	-0.008	-0.0001 -	0.0002	11:38:31	No
Mean:	0.000	0.000	0.0000			
SD :	0.0115	0.0115	0.0001			
%RSD:	5620	5620	5619.5056			

QC value within specified limits.

==========

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 03/15/2006
Sample ID: 1201049446|i||511024|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	0.0003	11:39:57	No
2	0.015	0.015	0.0002	0.0004	11:40:32	No
Mean:	0.011	0.011	0.0001			
SD :	0.0056	0.0056	0.0001			
%RSD:	52.4	52.4	52.3767			

==========

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 03/15/2006
Sample ID: 1201049447|i|10||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.913	2.913	0.0320	0.0323	11:41:56	No
2	2.876	2.876	0.0316	0.0319	11:42:31	No
Mean:	2.894	2.894	0.0318			
SD :	0.0265	0.0265	0.0003			
%RSD:	0.9	0.9	0.9171			

==========

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 03/15/2006
Sample ID: 157896001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.082	0.082	0.0009	0.0012	11:43:55	No
2	0.081	0.081	0.0009	0.0011	11:44:30	No
Mean:	0.081	0.081	0.0009			
SD :	0.0010	0.0010	0.0000			
%RSD:	1.2	1.2	1.2486			

Element: Hg Seq. No.: 27 AS Loc.: 25 Date: 03/15/2006
Sample ID: 1201049448|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.109	0.109	0.0012	0.0015	11:45:54	No
2	0.109	0.109	0.0012	0.0014	11:46:29	No
Mean:	0.109	0.109	0.0012			
SD :	0.0002	0.0002	0.0000			
%RSD:	0.2	0.2	0.2225			

Element: Hg Seq. No.: 28 AS Loc.: 26 Date: 03/15/2006
Sample ID: 1201049449|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.059	2.059	0.0227	0.0229	11:47:54	No
2	2.083	2.083	0.0229	0.0232	11:48:29	No
Mean:	2.071	2.071	0.0228			
SD :	0.0169	0.0169	0.0002			
%RSD:	0.8	0.8	0.8159			

Element: Hg Seq. No.: 29 AS Loc.: 27 Date: 03/15/2006
Sample ID: 1201049455|i|||MSD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.053	2.053	0.0226	0.0228	11:49:55	No
2	2.081	2.081	0.0229	0.0231	11:50:31	No
Mean:	2.067	2.067	0.0227			
SD :	0.0198	0.0198	0.0002			
%RSD:	1.0	1.0	0.9586			

Element: Hg Seq. No.: 30 AS Loc.: 28 Date: 03/15/2006
Sample ID: 1201049454|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0002	0.0004	11:51:57	No
2	0.014	0.014	0.0002	0.0004	11:52:32	No
Mean:	0.016	0.016	0.0002			
SD :	0.0024	0.0024	0.0000			
%RSD:	14.9	14.9	14.8517			

Element: Hg Seq. No.: 31 AS Loc.: 29 Date: 03/15/2006
Sample ID: 157896002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.034	0.034	0.0004	0.0006	11:53:58	No
2	0.033	0.033	0.0004	0.0006	11:54:33	No
Mean:	0.034	0.034	0.0004			
SD :	0.0004	0.0004	0.0000			

%RSD: 1.3 1.3 1.3351

==========

Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 03/15/2006
Sample ID: 157896003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0005	0.0008	11:56:00	No
2	0.046	0.046	0.0005	0.0008	11:56:35	No
Mean:	0.046	0.046	0.0005			
SD :	0.0002	0.0002	0.0000			
%RSD:	0.5	0.5	0.5157			

==========

Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 03/15/2006
Sample ID: 157896004|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0003	11:58:03	No
2	0.007	0.007	0.0001	0.0003	11:58:37	No
Mean:	0.006	0.006	0.0001			
SD :	0.0016	0.0016	0.0000			
%RSD:	25.1	25.1	25.1059			

==========

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.907	4.907	0.0540	0.0542	12:00:05	No
2	4.985	4.985	0.0548	0.0551	12:00:39	No
Mean:	4.946	4.946	0.0544			
SD :	0.0551	0.0551	0.0006			
%RSD:	1.1	1.1	1.1150			

QC value within specified limits.

==========

Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.009	-0.009	-0.0001 -	0.0002	12:02:08	No
2	0.002	0.002	0.0000	0.0003	12:02:42	No
Mean:	-0.004	-0.004	0.0000			
SD :	0.0077	0.0077	0.0001			
%RSD:	211.5	211.5	211.4756			

QC value within specified limits.

==========

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 03/15/2006
Sample ID: 157896005|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	0.0003	12:04:07	No
2	0.007	0.007	0.0001	0.0003	12:04:42	No
Mean:	0.006	0.006	0.0001			
SD :	0.0023	0.0023	0.0000			
%RSD:	40.8	40.8	40.8172			

==========

Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 03/15/2006
Sample ID: 157896006|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0003	12:06:02	No
2	0.020	0.020	0.0002	0.0005	12:06:37	No
Mean:	0.013	0.013	0.0001			
SD :	0.0103	0.0103	0.0001			
%RSD:	81.0	81.0	80.9710			

Element: Hg Seq. No.: 38 AS Loc.: 34 Date: 03/15/2006
Sample ID: 157896007|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.019	0.019	0.0002	0.0005	12:07:58	No
2	0.022	0.022	0.0002	0.0005	12:08:33	No
Mean:	0.020	0.020	0.0002			
SD :	0.0018	0.0018	0.0000			
%RSD:	8.9	8.9	8.8581			

Element: Hg Seq. No.: 39 AS Loc.: 35 Date: 03/15/2006
Sample ID: 1201039174|i||506592|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.007	-0.007	-0.0001	0.0002	12:09:55	No
2	0.002	0.002	0.0000	0.0003	12:10:30	No
Mean:	-0.003	-0.003	0.0000			
SD :	0.0069	0.0069	0.0001			
%RSD:	265.2	265.2	265.1737			

Element: Hg Seq. No.: 40 AS Loc.: 36 Date: 03/15/2006
Sample ID: 1201039175|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.987	1.987	0.0219	0.0221	12:11:52	No
2	2.043	2.043	0.0225	0.0227	12:12:26	No
Mean:	2.015	2.015	0.0222			
SD :	0.0399	0.0399	0.0004			
%RSD:	2.0	2.0	1.9799			

Element: Hg Seq. No.: 41 AS Loc.: 37 Date: 03/15/2006
Sample ID: 156734001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.404	1.404	0.0154	0.0157	12:13:49	No
2	1.414	1.414	0.0156	0.0158	12:14:23	No
Mean:	1.409	1.409	0.0155			
SD :	0.0073	0.0073	0.0001			
%RSD:	0.5	0.5	0.5169			

Element: Hg Seq. No.: 42 AS Loc.: 38 Date: 03/15/2006
Sample ID: 156734002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.020	1.020	0.0112	0.0115	12:15:45	No
2	1.015	1.015	0.0112	0.0114	12:16:21	No
Mean:	1.018	1.018	0.0112			
SD :	0.0032	0.0032	0.0000			

%RSD: 0.3 0.3 0.3119

==========

Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 03/15/2006
Sample ID: 156734003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.711	0.711	0.0078	0.0081	12:17:45	No
2	0.695	0.695	0.0077	0.0079	12:18:20	No
Mean:	0.703	0.703	0.0077			
SD :	0.0111	0.0111	0.0001			
%RSD:	1.6	1.6	1.5745			

==========

Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 03/15/2006
Sample ID: 156734004|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	1.042	1.042	0.0115	0.0117	12:19:44	No
2	1.034	1.034	0.0114	0.0116	12:20:19	No
Mean:	1.038	1.038	0.0114			
SD :	0.0059	0.0059	0.0001			
%RSD:	0.6	0.6	0.5678			

==========

Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 03/15/2006
Sample ID: 156739001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.260	0.260	0.0029	0.0031	12:21:43	No
2	0.264	0.264	0.0029	0.0032	12:22:17	No
Mean:	0.262	0.262	0.0029			
SD :	0.0026	0.0026	0.0000			
%RSD:	1.0	1.0	1.0058			

==========

Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.950	4.950	0.0545	0.0547	12:23:43	No
2	5.072	5.072	0.0558	0.0561	12:24:17	No
Mean:	5.011	5.011	0.0551			
SD :	0.0862	0.0862	0.0009			
%RSD:	1.7	1.7	1.7200			

QC value within specified limits.

==========

Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.002	-0.002	0.0000	0.0002	12:25:45	No
2	-0.008	-0.008	-0.0001	0.0002	12:26:21	No
Mean:	-0.005	-0.005	-0.0001			
SD :	0.0041	0.0041	0.0000			
%RSD:	82.2	82.2	82.1807			

QC value within specified limits.

==========

Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 03/15/2006
Sample ID: 1201039176|i|||MS

Miscellaneous

Prep LogBook

Analyst: CQH1 CQH 3/13/06 Verified by: CQH 3/13/06

Batch: 510922

Lab SOP: GL-MA-E-009 REV# 13

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049244	UI343788	.508	g
MS	1201049246	UI491301-01	.25	mL
MS	1201049246	UI491303-06	.25	mL
MSD	1201049248	UI491301-01	.25	mL
MSD	1201049248	UI491303-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049243		SW846 3050B	13-MAR-2006 18:47	0.5 g	50 mL	100	SOIL
LCS	1201049244		SW846 3050B	13-MAR-2006 18:47	0.508 g	50 mL	98.4252	SOIL
SAMPLE	157894001		SW846 3050B	13-MAR-2006 18:47	0.516 g	50 mL	96.89922	SOIL
SAMPLE	157894002		SW846 3050B	13-MAR-2006 18:47	0.519 g	50 mL	96.33911	SOIL
SAMPLE	157896001		SW846 3050B	13-MAR-2006 18:47	0.52 g	50 mL	96.15385	SOIL
DUP	1201049245	157896001	SW846 3050B	13-MAR-2006 18:47	0.506 g	50 mL	98.81423	SOIL
MS	1201049246	157896001	SW846 3050B	13-MAR-2006 18:47	0.516 g	50 mL	96.89922	SOIL
MSD	1201049248	157894001	SW846 3050B	13-MAR-2006 18:47	0.523 g	50 mL	95.60229	SOIL
SDILT	1201049247	157896001	SW846 3050B	13-MAR-2006 18:47	0.52 g	50 mL	96.15385	SOIL
SAMPLE	157896002		SW846 3050B	13-MAR-2006 18:47	0.504 g	50 mL	99.20635	SOIL
SAMPLE	157896003		SW846 3050B	13-MAR-2006 18:47	0.509 g	50 mL	98.23183	SOIL
SAMPLE	157896004		SW846 3050B	13-MAR-2006 18:47	0.51 g	50 mL	98.03922	SOIL
SAMPLE	157896005		SW846 3050B	13-MAR-2006 18:47	0.525 g	50 mL	95.2381	SOIL
SAMPLE	157896006		SW846 3050B	13-MAR-2006 18:47	0.511 g	50 mL	97.84736	SOIL
SAMPLE	157896007		SW846 3050B	13-MAR-2006 18:47	0.513 g	50 mL	97.46589	SOIL

Reagent/Solvent Lot ID	Amount	Description
060119-02	1.5 mL	Hydrogen Peroxide 30%
502174	5 mL	HYDROCHLORIC ACID
502162	5 mL	Nitric Acid CONC.

Comments: Medium brown dry grandular soil

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Prep LogBook

Analyst: CQH1 CQH 3/13/06 Verified by: CQH 3/13/06

Batch: 510960

Lab SOP: GL-MA-E-009 REV# 13

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049314	UI343881-01	.513	g
MS	1201049316	UI051205-02	.5	mL
MSD	1201049319	UI051205-02	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049313		SW846 3050B	13-MAR-2006 18:13	0.5 g	50 mL	100	SOIL
LCS	1201049314		SW846 3050B	13-MAR-2006 18:13	0.513 g	50 mL	97.46589	SOIL
SAMPLE	157894001		SW846 3050B	13-MAR-2006 18:13	0.504 g	50 mL	99.20635	SOIL
SAMPLE	157894002		SW846 3050B	13-MAR-2006 18:13	0.509 g	50 mL	98.23183	SOIL
SAMPLE	157896001		SW846 3050B	13-MAR-2006 18:13	0.5 g	50 mL	100	SOIL
DUP	1201049315	157896001	SW846 3050B	13-MAR-2006 18:13	0.506 g	50 mL	98.81423	SOIL
MS	1201049316	157896001	SW846 3050B	13-MAR-2006 18:13	0.508 g	50 mL	98.4252	SOIL
MSD	1201049319	157894001	SW846 3050B	13-MAR-2006 18:13	0.521 g	50 mL	95.96929	SOIL
SDILT	1201049317	157896001	SW846 3050B	13-MAR-2006 18:13	0.5 g	50 mL	100	SOIL
SAMPLE	157896002		SW846 3050B	13-MAR-2006 18:13	0.512 g	50 mL	97.65625	SOIL
SAMPLE	157896003		SW846 3050B	13-MAR-2006 18:13	0.502 g	50 mL	99.60159	SOIL
SAMPLE	157896004		SW846 3050B	13-MAR-2006 18:13	0.521 g	50 mL	95.96929	SOIL
SAMPLE	157896005		SW846 3050B	13-MAR-2006 18:13	0.512 g	50 mL	97.65625	SOIL
SAMPLE	157896006		SW846 3050B	13-MAR-2006 18:13	0.51 g	50 mL	98.03922	SOIL
SAMPLE	157896007		SW846 3050B	13-MAR-2006 18:13	0.525 g	50 mL	95.2381	SOIL

Reagent/Solvent Lot ID	Amount	Description
060119-02	1.5 mL	Hydrogen Peroxide 30%
502162	5 mL	Nitric Acid CONC.

Comments: Medium brown dry grandular soil

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Prep LogBook

Analyst: ETL ER Verified by: NKe 3/15/06
Batch: 511022 3/14/06
Lab SOP: GL-MA-E-010 REV# 16

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049447	UI343788	.206	g
MS	1201049449	WHG060314-14	.3	mL
MSD	1201049455	WHG060314-14	.3	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049446		SW846 7471A Prep	14-MAR-2006 11:00	0.6 g	30 mL	50	SOIL
LCS	1201049447		SW846 7471A Prep	14-MAR-2006 11:00	0.206 g	30 mL	145.63107	SOIL
SAMPLE	157896001		SW846 7471A Prep	14-MAR-2006 11:00	0.608 g	30 mL	49.34211	SOIL
DUP	1201049448	157896001	SW846 7471A Prep	14-MAR-2006 11:00	0.611 g	30 mL	49.09984	SOIL
MS	1201049449	157896001	SW846 7471A Prep	14-MAR-2006 11:00	0.601 g	30 mL	49.91681	SOIL
MSD	1201049455	157896001	SW846 7471A Prep	14-MAR-2006 11:00	0.621 g	30 mL	48.30918	SOIL
SDILT	1201049454	157896001	SW846 7471A Prep	14-MAR-2006 11:00	0.608 g	30 mL	49.34211	SOIL
SAMPLE	157896002		SW846 7471A Prep	14-MAR-2006 11:00	0.609 g	30 mL	49.26108	SOIL
SAMPLE	157896003		SW846 7471A Prep	14-MAR-2006 11:00	0.64 g	30 mL	46.875	SOIL
SAMPLE	157896004		SW846 7471A Prep	14-MAR-2006 11:00	0.615 g	30 mL	48.78049	SOIL
SAMPLE	157896005		SW846 7471A Prep	14-MAR-2006 11:00	0.622 g	30 mL	48.23151	SOIL
SAMPLE	157896006		SW846 7471A Prep	14-MAR-2006 11:00	0.613 g	30 mL	48.93964	SOIL
SAMPLE	157896007		SW846 7471A Prep	14-MAR-2006 11:00	0.623 g	30 mL	48.15409	SOIL

Reagent/Solvent Lot ID	Amount	Description
501976-A	1.125 mL	Hydrochloric Acid Conc.
500399-1	.375 mL	NITRIC ACID
504339-C	7.5 mL	5% KMnO4 solution
504346-C	2 mL	Hg reducing agent
WHG060314-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG060314-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG060314-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG060314-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG060314-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
WHG060314-12	750 uL	Mercury Working 2nd Source S 5.0/ICV

Comments: Digestion Start Date: 14-MAR-06 11:00
Digestion End Date: 14-MAR-06 11:30
Sample 157896001 is a light tan soil.

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General Engineering Laboratories
Form GEL-NCR
Rev. 06/05

NCR Report No.: 300181
Revision No.: 1

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
17-MAR-06	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
ICP/MS	SW846 3050B/6020	Solid	LANL
Batch ID:	**Sample Numbers:**		
510962	See Below		

Potentially affected work order(s)(SDG): 157894(4724S),157896(4726S)

Application Issues:

Failed Recovery for MS/PS

Failed Recovery for LCS/LCSD

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. Failed Recovery for LCS/LCSD: QC 1201049314LCS 2. Failed Recovery for MSD	Silver did not meet the recovery acceptance criteria for the LCS. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures. The MSD failed for Ni. Matrix interferences are suspected. Data is qualified and reported as is.

Originator's Name:

Elizabeth Janssen 17-MAR-06

Quality Review:

Director:

Data Validator/Group Leader:

Kristan M. Murray
4-6-06

General Engineering Laboratories
Form GEL-NCR
Rev. 06/05

NCR Report No.: 299850
Revision No.:

COMPANY - WIDE NONCONFORMANCE REPORT

Mo.Day Yr.	Division:	Quality Criteria:	Type:
16-MAR-06	Federal	Specifications	Process
Instrument Type:	**Test / Method:**	**Matrix Type:**	**Client Code:**
ICP	SW846 3050B/6010B	Solid	LANL
Batch ID:	**Sample Numbers:**		
510923	See Below		

Potentially affected work order(s)(SDG): 157894(4724S),157896(4726S)

Application Issues:

Failed Recovery for MS/PS

Specification and Requirements Nonconformance Description:	NRG Disposition:
1. Failed Recovery for MS/PS: QC 1201049246MS	1. The matrix spike and matrix spike duplicate recoveries failed for aluminum,calcium,potassium and sodium due to possible matrix interference. Sample #157896001 was a medium brown dry granular soil. Data are qualified and reported.

Originator's Name:

Helen Camello 16-MAR-06

Quality Review:

Director:

Data Validator/Group Leader:

Kristen M. Murray
4-6-06

Metals Analysis

Case Narrative

Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 4726S-1

Method/Analysis Information

Analytical Batch:	510930, 510975, 511046
Prep Batch:	510928, 510974, 511045
Standard Operating Procedures:	GL-MA-E-013 REV# 14, GL-MA-E-014 REV# 10, GL-MA-E-010 REV# 16, GL-MA-E-006 REV# 9
Analytical Method:	SW846 6010B, SW846 6020, SW846 7470A
Prep Method:	SW846 3005A, SW846 7470A

Sample Analysis

Sample ID	Client ID
157897001	RE19-06-67514
1201049254	Method Blank (MB) **ICP**
1201049255	Laboratory Control Sample (LCS)
1201049258	157897001(RE19-06-67514L) Serial Dilution (SD)
1201049256	157897001(RE19-06-67514D) Sample Duplicate (DUP)
1201049257	157897001(RE19-06-67514S) Matrix Spike (MS)
1201049341	Method Blank (MB) **ICP-MS**
1201049342	Laboratory Control Sample (LCS)
1201049345	157897001(RE19-06-67514L) Serial Dilution (SD)
1201049343	157897001(RE19-06-67514D) Sample Duplicate (DUP)
1201049344	157897001(RE19-06-67514S) Matrix Spike (MS)
1201049514	Method Blank (MB) **CVAA**
1201049515	Laboratory Control Sample (LCS)
1201049522	157897001(RE19-06-67514L) Serial Dilution (SD)
1201049516	157897001(RE19-06-67514D) Sample Duplicate (DUP)
1201049517	157897001(RE19-06-67514S) Matrix Spike (MS)

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by General Engineering Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The ICP analysis was performed on a P E 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The ICP-MS analysis was performed on a Perkin Elmer ICP-MS ELAN 9000. The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, and tantalum were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 3607 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Mercury analysis was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 254 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80mL/min.

Calibration Information

Instrument Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL Requirements
All CRDL standard(s) met the referenced advisory control limits.

Continuing Calibration Blank (CCB) Requirements
All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements
All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

ICSA/ICSAB statement
All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement
The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement
The following sample was selected as the quality control (QC) sample for this SDG: 157897001 (RE19-06-67514) for CVAA, ICP and ICP-MS.

Matrix Spike (MS) Recovery Statement
The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement
The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement
The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL for CVAA, 50X the IDL for ICP, and 100X the IDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information

Holding Time Specifications
GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG did not require dilutions.

Preparation Information
The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information

Nonconformance Documentation
Nonconformance reports (NCRs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. An NCR was not required for this SDG.

Additional Comments
Additional comments were not required for this SDG.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Kristen M. Murray **Date:** 4-6-06

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 4726S-1 **METHOD TYPE:** SW846

SAMPLE ID: 157897001 **CLIENT ID:** RE19-06-67514

CONTRACT: LANL00600

MATRIX: W **DATE RECEIVED** 11-MAR-06 **LEVEL:** Low **%SOLIDS:**

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7429-90-5	Aluminum	88.1	ug/L	B		P	68	1	OPTIMA2	031406a-2
7440-36-0	Antimony	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
7440-38-2	Arsenic	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
7440-39-3	Barium	2.5	ug/L	B		P	1	1	OPTIMA2	031406a-2
7440-41-7	Beryllium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
7440-43-9	Cadmium	0.10	ug/L	U		MS	0.1	1	ICPMS5	060315-3
7440-70-2	Calcium	2660	ug/L			P	36	1	OPTIMA2	031406a-2
7440-47-3	Chromium	1.8	ug/L	B		P	1	1	OPTIMA2	031406a-2
7440-48-4	Cobalt	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-50-8	Copper	3	ug/L	U		P	3	1	OPTIMA2	031406a-2
7439-89-6	Iron	81.3	ug/L	B		P	18	1	OPTIMA2	031406a-2
7439-92-1	Lead	0.50	ug/L	U		MS	0.5	1	ICPMS5	060315-3
7439-95-4	Magnesium	166	ug/L	B		P	85	1	OPTIMA2	031406a-2
7439-96-5	Manganese	2.3	ug/L	B		MS	1	1	ICPMS5	060315-3
7439-97-6	Mercury	0.050	ug/L	U		AV	0.05	1	MER536	031506W1-1
7440-02-0	Nickel	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-09-7	Potassium	83.2	ug/L	B		P	50	1	OPTIMA2	031406a-2
7782-49-2	Selenium	6	ug/L	U		P	6	1	OPTIMA2	031406a-2
7440-22-4	Silver	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-23-5	Sodium	6640	ug/L			P	45	1	OPTIMA2	031406a-2
7440-28-0	Thallium	0.40	ug/L	U		MS	0.4	1	ICPMS5	060315-3
7440-62-2	Vanadium	1	ug/L	U		P	1	1	OPTIMA2	031406a-2
7440-66-6	Zinc	3.9	ug/L	B		P	2	1	OPTIMA2	031406a-2

Comments:

Quality Control Summary

METALS
–2a–
Initial and Continuing Calibration Verification

SDG No: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
ICV01										
	Aluminum	4961.4	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Arsenic	502.86	ug/L	500	ug/L	100.6	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Barium	488.06	ug/L	500	ug/L	97.6	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Calcium	5024.3	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Chromium	481.21	ug/L	500	ug/L	96.2	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Cobalt	485.54	ug/L	500	ug/L	97.1	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Copper	491.72	ug/L	500	ug/L	98.3	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Iron	5122.9	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Magnesium	5286.9	ug/L	5000	ug/L	105.7	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Nickel	522.15	ug/L	500	ug/L	104.4	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Potassium	2456.8	ug/L	2500	ug/L	98.3	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Selenium	2420	ug/L	2500	ug/L	96.8	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Silver	243.26	ug/L	250	ug/L	97.3	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Sodium	2462.1	ug/L	2500	ug/L	98.5	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Vanadium	502.27	ug/L	500	ug/L	100.5	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Zinc	492.28	ug/L	500	ug/L	98.5	90.0 – 110.0	P	14–MAR–06 07:24	031406A–2
	Mercury	5.2	ug/L	5	ug/L	104	90.0 – 110.0	AV	15–MAR–06 12:39	031506W1–1
	Antimony	51.42	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
	Beryllium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
	Cadmium	50.13	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
	Lead	53.17	ug/L	50	ug/L	106.4	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
	Manganese	52.62	ug/L	50	ug/L	105.2	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
	Thallium	53.12	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	15–MAR–06 14:23	060315–3
CCV01										
	Aluminum	4994.6	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2
	Arsenic	531.94	ug/L	500	ug/L	106.4	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2
	Barium	495.82	ug/L	500	ug/L	99.2	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2
	Calcium	5144	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2
	Chromium	495.5	ug/L	500	ug/L	99.1	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2
	Cobalt	497.05	ug/L	500	ug/L	99.4	90.0 – 110.0	P	14–MAR–06 08:12	031406A–2

METALS
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Initial and Continuing Calibration Verification

SDG No: 4726S-1

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER536,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Copper	497.62	ug/L	500	ug/L	99.5	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Iron	5171.6	ug/L	5000	ug/L	103.4	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Magnesium	5145.2	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Nickel	500.67	ug/L	500	ug/L	100.1	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Potassium	5009.8	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Selenium	501	ug/L	500	ug/L	100.2	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Silver	507.65	ug/L	500	ug/L	101.5	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Sodium	10071	ug/L	10000	ug/L	100.7	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Vanadium	501.74	ug/L	500	ug/L	100.4	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Zinc	497.83	ug/L	500	ug/L	99.6	90.0 - 110.0	P	14-MAR-06 08:12	031406A-2
	Mercury	4.76	ug/L	5	ug/L	95.3	80.0 - 120.0	AV	15-MAR-06 12:45	031506W1-1
	Antimony	50.5	ug/L	50	ug/L	101	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
	Beryllium	52.16	ug/L	50	ug/L	104.3	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
	Cadmium	50.65	ug/L	50	ug/L	101.3	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
	Lead	52.81	ug/L	50	ug/L	105.6	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
	Manganese	52.41	ug/L	50	ug/L	104.8	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
	Thallium	52.91	ug/L	50	ug/L	105.8	90.0 - 110.0	MS	15-MAR-06 14:49	060315-3
CCV02										
	Aluminum	4923.1	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Arsenic	493.34	ug/L	500	ug/L	98.7	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Barium	488.24	ug/L	500	ug/L	97.7	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Calcium	5081.5	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Chromium	487.16	ug/L	500	ug/L	97.4	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Cobalt	489.21	ug/L	500	ug/L	97.8	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Copper	492.61	ug/L	500	ug/L	98.5	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Iron	5128.9	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Magnesium	5083.1	ug/L	5000	ug/L	101.7	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Nickel	492.57	ug/L	500	ug/L	98.5	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Potassium	4916.7	ug/L	5000	ug/L	98.3	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Selenium	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 4726S-1

Contract: LANL00600 **Lab Code:** GEL

Initial Calibration Source:

Continuing Calibration Source:

Instrument ID: ICPMS5,MER536,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
	Silver	500.63	ug/L	500	ug/L	100.1	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Sodium	10033	ug/L	10000	ug/L	100.3	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Vanadium	493.64	ug/L	500	ug/L	98.7	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Zinc	488.51	ug/L	500	ug/L	97.7	90.0 - 110.0	P	14-MAR-06 09:43	031406A-2
	Mercury	4.71	ug/L	5	ug/L	94.1	80.0 - 120.0	AV	15-MAR-06 13:09	031506W1-1
	Antimony	51.86	ug/L	50	ug/L	103.7	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
	Beryllium	50.22	ug/L	50	ug/L	100.4	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
	Cadmium	50.02	ug/L	50	ug/L	100	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
	Lead	53.29	ug/L	50	ug/L	106.6	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
	Manganese	50.03	ug/L	50	ug/L	100.1	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
	Thallium	53.02	ug/L	50	ug/L	106	90.0 - 110.0	MS	15-MAR-06 15:04	060315-3
CCV03										
	Mercury	4.75	ug/L	5	ug/L	94.9	80.0 - 120.0	AV	15-MAR-06 13:32	031506W1-1
	Antimony	51.1	ug/L	50	ug/L	102.2	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
	Beryllium	51.92	ug/L	50	ug/L	103.8	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
	Cadmium	49.75	ug/L	50	ug/L	99.5	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
	Lead	52.81	ug/L	50	ug/L	105.6	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
	Manganese	50.59	ug/L	50	ug/L	101.2	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
	Thallium	51.3	ug/L	50	ug/L	102.6	90.0 - 110.0	MS	15-MAR-06 15:57	060315-3
CCV04										
	Mercury	4.73	ug/L	5	ug/L	94.6	80.0 - 120.0	AV	15-MAR-06 13:57	031506W1-1

METALS
–2b–
CRDL Standard for AA & ICP

SDG No: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS5,MER536,OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Advisory Limits (%R)	M	Analysis Date/Time	Run Number
CRDL01										
	Mercury	.2347	ug/L	.2	ug/L	117.33	70.0 – 130.0	AV	15–MAR–06 12:43	031506W1–1
	Lead	2.15	ug/L	2	ug/L	107.5	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
	Manganese	5.39	ug/L	5	ug/L	107.72	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
	Thallium	1.11	ug/L	1	ug/L	110.6	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
	Cadmium	1.01	ug/L	1	ug/L	100.5	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
	Beryllium	.45	ug/L	.5	ug/L	90	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
	Antimony	2.12	ug/L	2	ug/L	105.95	70.0 – 130.0	MS	15–MAR–06 14:34	060315–3
PQL01										
	Cobalt	5.27	ug/L	5	ug/L	105.38	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Copper	10.05	ug/L	10	ug/L	100.51	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Vanadium	4.74	ug/L	5	ug/L	94.73	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Zinc	10.32	ug/L	10	ug/L	103.23	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Calcium	105.88	ug/L	100	ug/L	105.88	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Selenium	16.1	ug/L	15	ug/L	107.33	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Aluminum	203.17	ug/L	200	ug/L	101.59	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Iron	107.8	ug/L	100	ug/L	107.8	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Magnesium	334.18	ug/L	300	ug/L	111.39	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Nickel	5.04	ug/L	5	ug/L	100.74	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Potassium	153.57	ug/L	150	ug/L	102.38	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Silver	5.23	ug/L	5	ug/L	104.5	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Sodium	141.68	ug/L	150	ug/L	94.45	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Arsenic	13.73	ug/L	15	ug/L	91.51	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Barium	5.14	ug/L	5	ug/L	102.85	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2
	Chromium	5.04	ug/L	5	ug/L	100.71	70.0 – 130.0	P	14–MAR–06 07:38	031406A–2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S-1

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
ICB01									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 07:31	031406A-2
	Arsenic	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 07:31	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 07:31	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Cobalt	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 07:31	031406A-2
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 07:31	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 07:31	031406A-2
	Nickel	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Potassium	50.0	+/-150	U	50.0	150	P	14-MAR-06 07:31	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 07:31	031406A-2
	Silver	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 07:31	031406A-2
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 07:31	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 07:31	031406A-2
	Mercury	0.05	+/-.2	U	0.05	0.2	AV	15-MAR-06 12:41	031506W1-1
	Antimony	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 14:28	060315-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	MS	15-MAR-06 14:28	060315-3
	Cadmium	0.1	+/-1	U	0.1	1.0	MS	15-MAR-06 14:28	060315-3
	Lead	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 14:28	060315-3
	Manganese	1.0	+/-5	U	1.0	5.0	MS	15-MAR-06 14:28	060315-3
	Thallium	0.4	+/-1	U	0.4	1.0	MS	15-MAR-06 14:28	060315-3
CCB01									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 08:20	031406A-2
	Arsenic	10.15	+/-15	B	6.0	15.0	P	14-MAR-06 08:20	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 08:20	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Cobalt	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 08:20	031406A-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 4726S-1

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 08:20	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 08:20	031406A-2
	Nickel	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Potassium	50.0	+/-150	U	50.0	150	P	14-MAR-06 08:20	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 08:20	031406A-2
	Silver	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 08:20	031406A-2
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 08:20	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 08:20	031406A-2
	Mercury	0.06	+/-.2	B	0.05	0.2	AV	15-MAR-06 12:47	031506W1-1
	Antimony	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 14:54	060315-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	MS	15-MAR-06 14:54	060315-3
	Cadmium	0.1	+/-1	U	0.1	1.0	MS	15-MAR-06 14:54	060315-3
	Lead	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 14:54	060315-3
	Manganese	1.0	+/-5	U	1.0	5.0	MS	15-MAR-06 14:54	060315-3
	Thallium	0.4	+/-1	U	0.4	1.0	MS	15-MAR-06 14:54	060315-3
CCB02									
	Aluminum	68.0	+/-200	U	68.0	200	P	14-MAR-06 09:50	031406A-2
	Arsenic	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 09:50	031406A-2
	Barium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Calcium	36.0	+/-100	U	36.0	100	P	14-MAR-06 09:50	031406A-2
	Chromium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Cobalt	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Copper	3.0	+/-10	U	3.0	10.0	P	14-MAR-06 09:50	031406A-2
	Iron	18.0	+/-100	U	18.0	100	P	14-MAR-06 09:50	031406A-2
	Magnesium	85.0	+/-300	U	85.0	300	P	14-MAR-06 09:50	031406A-2
	Nickel	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Potassium	50.0	+/-150	U	50.0	150	P	14-MAR-06 09:50	031406A-2
	Selenium	6.0	+/-15	U	6.0	15.0	P	14-MAR-06 09:50	031406A-2
	Silver	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Sodium	45.0	+/-150	U	45.0	150	P	14-MAR-06 09:50	031406A-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 4726S-1

Contract: LANL00600 **Lab Code: GEL**

Sample ID	Analyte	Result	Acceptance ug/L	Conc Qual	MDL	RDL	M	Analysis Date/Time	Run
	Vanadium	1.0	+/-5	U	1.0	5.0	P	14-MAR-06 09:50	031406A-2
	Zinc	2.0	+/-10	U	2.0	10.0	P	14-MAR-06 09:50	031406A-2
	Mercury	0.067	+/-.2	B	0.05	0.2	AV	15-MAR-06 13:11	031506W1-1
	Antimony	0.81	+/-2	B	0.5	2.0	MS	15-MAR-06 15:10	060315-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	MS	15-MAR-06 15:10	060315-3
	Cadmium	0.1	+/-1	U	0.1	1.0	MS	15-MAR-06 15:10	060315-3
	Lead	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 15:10	060315-3
	Manganese	1.0	+/-5	U	1.0	5.0	MS	15-MAR-06 15:10	060315-3
	Thallium	0.4	+/-1	U	0.4	1.0	MS	15-MAR-06 15:10	060315-3
CCB03									
	Mercury	0.087	+/-.2	B	0.05	0.2	AV	15-MAR-06 13:35	031506W1-1
	Antimony	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 16:02	060315-3
	Beryllium	0.1	+/-.5	U	0.1	0.5	MS	15-MAR-06 16:02	060315-3
	Cadmium	0.1	+/-1	U	0.1	1.0	MS	15-MAR-06 16:02	060315-3
	Lead	0.5	+/-2	U	0.5	2.0	MS	15-MAR-06 16:02	060315-3
	Manganese	1.0	+/-5	U	1.0	5.0	MS	15-MAR-06 16:02	060315-3
	Thallium	0.803	+/-1	B	0.4	1.0	MS	15-MAR-06 16:02	060315-3
CCB04									
	Mercury	0.088	+/-.2	B	0.05	0.2	AV	15-MAR-06 13:59	031506W1-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 4726S-1

Contract: LANL00600

Matrix: WATER

Sample ID	Analyte	Result	Units	Acceptance Window	Conc Qual	M	MDL	RDL
1201049254								
	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	6	ug/L	+/-15.0	U	P	6	15
	Barium	1	ug/L	+/-5.0	U	P	1	5
	Calcium	36	ug/L	+/-100	U	P	36	100
	Chromium	1	ug/L	+/-5.0	U	P	1	5
	Cobalt	1	ug/L	+/-5.0	U	P	1	5
	Copper	3	ug/L	+/-10.0	U	P	3	10
	Iron	18	ug/L	+/-100	U	P	18	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1	ug/L	+/-5.0	U	P	1	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	6	ug/L	+/-15.0	U	P	6	15
	Silver	1	ug/L	+/-5.0	U	P	1	5
	Sodium	-50.633	ug/L	+/-150	B	P	45	150
	Vanadium	1	ug/L	+/-5.0	U	P	1	5
	Zinc	2.1148	ug/L	+/-10.0	B	P	2	10
1201049341								
	Antimony	0.5	ug/L	+/-2.0	U	MS	0.5	2
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.1	ug/L	+/-1.0	U	MS	0.1	1
	Lead	0.5	ug/L	+/-2.0	U	MS	0.5	2
	Manganese	1	ug/L	+/-5.0	U	MS	1	5
	Thallium	0.4	ug/L	+/-1.0	U	MS	0.4	1
1201049514								
	Mercury	0.05	ug/L	+/-0.2	U	AV	0.05	0.2

METALS
-4-
Interference Check Sample

SDG No: 4726S-1

Contract: LANL00600 **Lab Code:** GEL

ICS: O2Si

Instrument: OPTIMA2

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Aluminum	520110	ug/L	500000	ug/L	104	80.0 – 120.0	14-MAR-06 07:45	031406A-2
	Arsenic	6.08	ug/L					14-MAR-06 07:45	031406A-2
	Barium	0.354	ug/L					14-MAR-06 07:45	031406A-2
	Calcium	481570	ug/L	500000	ug/L	96.3	80.0 – 120.0	14-MAR-06 07:45	031406A-2
	Chromium	-0.384	ug/L					14-MAR-06 07:45	031406A-2
	Cobalt	-0.099	ug/L					14-MAR-06 07:45	031406A-2
	Copper	-1.05	ug/L					14-MAR-06 07:45	031406A-2
	Iron	190410	ug/L	200000	ug/L	95.2	80.0 – 120.0	14-MAR-06 07:45	031406A-2
	Magnesium	513900	ug/L	500000	ug/L	103	80.0 – 120.0	14-MAR-06 07:45	031406A-2
	Nickel	5.36	ug/L					14-MAR-06 07:45	031406A-2
	Potassium	18.63	ug/L					14-MAR-06 07:45	031406A-2
	Selenium	-5.88	ug/L					14-MAR-06 07:45	031406A-2
	Silver	7.76	ug/L					14-MAR-06 07:45	031406A-2
	Sodium	48.26	ug/L					14-MAR-06 07:45	031406A-2
	Vanadium	-4.51	ug/L					14-MAR-06 07:45	031406A-2
	Zinc	11.99	ug/L					14-MAR-06 07:45	031406A-2
ICSAB01									
	Aluminum	519030	ug/L	500000	ug/L	104	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Arsenic	514.51	ug/L	500	ug/L	103	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Barium	485.13	ug/L	500	ug/L	97	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Calcium	478380	ug/L	500000	ug/L	95.7	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Chromium	485.67	ug/L	500	ug/L	97.1	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Cobalt	448.99	ug/L	500	ug/L	89.8	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Copper	531.15	ug/L	500	ug/L	106	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Iron	189180	ug/L	200000	ug/L	94.6	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Magnesium	509590	ug/L	500000	ug/L	102	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Nickel	446.39	ug/L	500	ug/L	89.3	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Potassium	5945.5	ug/L	5000	ug/L	119	80.0 – 120.0	14-MAR-06 07:51	031406A-2
	Selenium	2430	ug/L	2500	ug/L	97.2	80.0 – 120.0	14-MAR-06 07:51	031406A-2

METALS
-4-
Interference Check Sample

SDG No: 4726S-1

Contract: LANL00600 **Lab Code:** GEL

ICS:

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
	Silver	262.72	ug/L	250	ug/L	105	80.0 - 120.0	14-MAR-06 07:51	031406A-2
	Sodium	5656.2	ug/L	5000	ug/L	113	80.0 - 120.0	14-MAR-06 07:51	031406A-2
	Vanadium	487.32	ug/L	500	ug/L	97.5	80.0 - 120.0	14-MAR-06 07:51	031406A-2
	Zinc	506.86	ug/L	500	ug/L	101	80.0 - 120.0	14-MAR-06 07:51	031406A-2

METALS
–4–
Interference Check Sample

SDG No: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

ICS: O2Si

Instrument: ICPMS5

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	Analysis Date/Time	Run Number
ICSA01									
	Antimony	0.552	ug/L					15–MAR–06 14:39	060315–3
	Beryllium	–0.007	ug/L					15–MAR–06 14:39	060315–3
	Cadmium	0.181	ug/L					15–MAR–06 14:39	060315–3
	Lead	0.353	ug/L					15–MAR–06 14:39	060315–3
	Manganese	2.9	ug/L					15–MAR–06 14:39	060315–3
	Thallium	–0.026	ug/L					15–MAR–06 14:39	060315–3
ICSAB01									
	Antimony	22.6	ug/L	20.5	ug/L	110	80.0 – 120.0	15–MAR–06 14:44	060315–3
	Beryllium	20.44	ug/L	20	ug/L	102	80.0 – 120.0	15–MAR–06 14:44	060315–3
	Cadmium	20.33	ug/L	20.2	ug/L	101	80.0 – 120.0	15–MAR–06 14:44	060315–3
	Lead	20.53	ug/L	20	ug/L	103	80.0 – 120.0	15–MAR–06 14:44	060315–3
	Manganese	23.49	ug/L	22.7	ug/L	103	80.0 – 120.0	15–MAR–06 14:44	060315–3
	Thallium	20.19	ug/L	20	ug/L	101	80.0 – 120.0	15–MAR–06 14:44	060315–3

METALS
–5a–
Matrix Spike Summary

SDG NO. 4726S–1 **Client ID** RE19–06–67514S

Contract: LANL00600 **Level:** Low

Matrix: WATER **% Solids:**

Sample ID: 157897001 **Spike ID:** 1201049257

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75–125	5400		88.1	B	5000	106		P
Arsenic	ug/L	75–125	536		6	U	500	107		P
Barium	ug/L	75–125	537		2.47	B	500	107		P
Calcium	ug/L	75–125	7950		2660		5000	106		P
Chromium	ug/L	75–125	515		1.78	B	500	103		P
Cobalt	ug/L	75–125	523		1	U	500	105		P
Copper	ug/L	75–125	532		3	U	500	106		P
Iron	ug/L	75–125	5600		81.3	B	5000	110		P
Magnesium	ug/L	75–125	5630		166	B	5000	109		P
Nickel	ug/L	75–125	517		1	U	500	103		P
Potassium	ug/L	75–125	5480		83.2	B	5000	108		P
Selenium	ug/L	75–125	506		6	U	500	101		P
Silver	ug/L	75–125	515		1	U	500	103		P
Sodium	ug/L	75–125	12100		6640		5000	109		P
Vanadium	ug/L	75–125	525		1	U	500	105		P
Zinc	ug/L	75–125	508		3.86	B	500	101		P

METALS
-5a-

Matrix Spike Summary

SDG NO. 4726S-1 **Client ID** RE19-06-67514S

Contract: LANL00600 **Level:** Low

Matrix: WATER **% Solids:**

Sample ID: 157897001 **Spike ID:** 1201049344

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75-125	111		0.5	U	100	111		MS
Beryllium	ug/L	75-125	62.3		0.1	U	50	125		MS
Cadmium	ug/L	75-125	6.05		0.1	U	5	121		MS
Lead	ug/L	75-125	23.3		0.5	U	20	115		MS
Manganese	ug/L	75-125	53.6		2.3	B	50	103		MS
Thallium	ug/L	75-125	47.5		0.4	U	50	94.9		MS

METALS
-5a-
Matrix Spike Summary

SDG NO. 4726S-1 **Client ID** RE19-06-67514S

Contract: LANL00600 **Level:** Low

Matrix: WATER **% Solids:**

Sample ID: 157897001 **Spike ID:** 1201049517

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75-125	2.22		0.05	U	2	110		AV

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** RE19–06–67514D

Sample ID: 157897001 **Duplicate ID:** 1201049256 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	+/–200	88.1	B	87.7	B	.477		P
Arsenic	ug/L		6	U	6	U			P
Barium	ug/L	+/–5	2.47	B	2.38	B	3.96		P
Calcium	ug/L	+/–20%	2660		2620		1.56		P
Chromium	ug/L	+/–5	1.78	B	1.53	B	15		P
Cobalt	ug/L		1	U	1	U			P
Copper	ug/L		3	U	3	U			P
Iron	ug/L	+/–100	81.3	B	80.8	B	.561		P
Magnesium	ug/L	+/–300	166	B	162	B	2.14		P
Nickel	ug/L		1	U	1	U			P
Potassium	ug/L	+/–150	83.2	B	90.8	B	8.74		P
Selenium	ug/L		6	U	6	U			P
Silver	ug/L		1	U	1	U			P
Sodium	ug/L	+/–20%	6640		6570		1.09		P
Vanadium	ug/L		1	U	1	U			P
Zinc	ug/L	+/–10	3.86	B	3.46	B	11.1		P

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** RE19–06–67514D

Sample ID: 157897001 **Duplicate ID:** 1201049343 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		0.5	U	0.5	U			MS
Beryllium	ug/L		0.1	U	0.1	U			MS
Cadmium	ug/L		0.1	U	0.1	U			MS
Lead	ug/L		0.5	U	0.5	U			MS
Manganese	ug/L	+/–5	2.3	B	2.41	B	4.88		MS
Thallium	ug/L		0.4	U	0.4	U			MS

Metals
–6–
Duplicate Sample Summary

SDG No.: 4726S–1

Contract: LANL00600 **Lab Code:** GEL

Matrix: LIQUID **Level:** Low **Client ID:** RE19–06–67514D

Sample ID: 157897001 **Duplicate ID:** 1201049516 **Percent Solids for Dup:** N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.05	U	0.05	U			AV

METALS
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Laboratory Control Sample Summary

SDG NO. 4726S-1

Contract: LANL00600

Aqueous LCS Source: OS2I **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049255								
	Aluminum	ug/L	5000	5460		109	80–120	P
	Arsenic	ug/L	500	554		111	80–120	P
	Barium	ug/L	500	553		111	80–120	P
	Calcium	ug/L	5000	5560		111	80–120	P
	Chromium	ug/L	500	530		106	80–120	P
	Cobalt	ug/L	500	541		108	80–120	P
	Copper	ug/L	500	539		108	80–120	P
	Iron	ug/L	5000	5600		112	80–120	P
	Magnesium	ug/L	5000	5580		112	80–120	P
	Nickel	ug/L	500	534		107	80–120	P
	Potassium	ug/L	5000	5490		110	80–120	P
	Selenium	ug/L	500	521		104	80–120	P
	Silver	ug/L	500	533		107	80–120	P
	Sodium	ug/L	5000	5510		110	80–120	P
	Vanadium	ug/L	500	542		108	80–120	P
	Zinc	ug/L	500	524		105	80–120	P

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 4726S-1

Contract: LANL00600

Aqueous LCS Source: o2si **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049342								
	Antimony	ug/L	50	56.4		113	80-120	MS
	Beryllium	ug/L	50	54		108	80-120	MS
	Cadmium	ug/L	50	52.6		105	80-120	MS
	Lead	ug/L	50	54.1		108	80-120	MS
	Manganese	ug/L	50	50.9		102	80-120	MS
	Thallium	ug/L	50	52.6		105	80-120	MS

METALS
-7-
Laboratory Control Sample Summary

SDG NO. 4726S-1

Contract: LANL00600

Aqueous LCS Source: GEL **Solid LCS Source:**

Sample ID	Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limit	M
1201049515								
	Mercury	ug/L	2	2.19		110	80-120	AV

METALS
–9–
Serial Dilution Sample Summary

SDG NO. 4726S–1 **Client ID** RE19–06–67514L

Contract: LANL00600

Matrix: LIQUID **Level:** Low

Sample ID: 157897001 **Serial Dilution ID:** 1201049258

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	88.1	B	340	U	100			P
Arsenic	6	U	30	U				P
Barium	2.47	B	5	U	100			P
Calcium	2660		2745		3.2		10	P
Chromium	1.78	B	5	U	100			P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	81.3	B	90	U	100			P
Magnesium	166	B	425	U	100			P
Nickel	1	U	5	U				P
Potassium	83.2	B	250	U	100			P
Selenium	6	U	30	U				P
Silver	1	U	5	U				P
Sodium	6640		6550		1.36		10	P
Vanadium	1	U	5	U				P
Zinc	3.86	B	10	U	100			P

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 4726S-1 **Client ID** RE19-06-67514L

Contract: LANL00600

Matrix: LIQUID **Level:** Low

Sample ID: 157897001 **Serial Dilution ID:** 1201049345

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Antimony	.5	U	2.5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.1	U	.5	U				MS
Lead	.5	U	2.5	U				MS
Manganese	2.3	B	5	U	100			MS
Thallium	.4	U	9.7					MS

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 4726S-1 **Client ID** RE19-06-67514L

Contract: LANL00600

Matrix: LIQUID **Level:** Low

Sample ID: 157897001 **Serial Dilution ID:** 1201049522

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.05	U	.25	U				AV

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 4726S-1 **Method Type:** P

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	510928						
1201049254	MB for batch 510928	MB	WATER	13-MAR-06	50mL	50mL	
1201049255	LCS for batch 510928	LCS	WATER	13-MAR-06	50mL	50mL	
1201049257	RE19-06-67514S	MS	WATER	13-MAR-06	50mL	50mL	
1201049256	RE19-06-67514D	DUP	WATER	13-MAR-06	50mL	50mL	
157897001	RE19-06-67514	SAMPLE	WATER	13-MAR-06	50mL	50mL	

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 4726S-1 **Method Type:** MS

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	510974						
1201049341	MB for batch 510974	MB	WATER	13-MAR-06	50mL	50mL	
1201049342	LCS for batch 510974	LCS	WATER	13-MAR-06	50mL	50mL	
1201049344	RE19-06-67514S	MS	WATER	13-MAR-06	50mL	50mL	
1201049343	RE19-06-67514D	DUP	WATER	13-MAR-06	50mL	50mL	
157897001	RE19-06-67514	SAMPLE	WATER	13-MAR-06	50mL	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 4726S-1 **Method Type:** AV

Contract: LANL00600 **Lab Code:** GEL

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size	Final Sample Volume	Percent Solids
Batch Number	511045						
1201049514	MB for batch 511045	MB	WATER	14-MAR-06	20mL	20mL	
1201049515	LCS for batch 511045	LCS	WATER	14-MAR-06	20mL	20mL	
1201049517	RE19-06-67514S	MS	WATER	14-MAR-06	20mL	20mL	
1201049516	RE19-06-67514D	DUP	WATER	14-MAR-06	20mL	20mL	
157897001	RE19-06-67514	SAMPLE	WATER	14-MAR-06	20mL	20mL	

Metals
-14-
Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: OPTIMA2
Start Date: 14-MAR-06 **End Date:** 14-MAR-06

Client Sdg: 4726S-1
Method P
Data File: 031406a-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0	1	06:52	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
S0.1	1	07:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
S0.5	1	07:06	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
SCAL	1	07:13	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
S10	1	07:19	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ICV01	1	07:24	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ICB01	1	07:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
PQL01	1	07:38	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ICSA01	1	07:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ICSAB01	1	07:51	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ZZZZZZ	1	07:57																							
ZZZZZZ	1	08:04																							
CCV01	1	08:12	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
CCB01	1	08:20	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
1201049254	1	08:40	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
1201049255	1	08:47	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
157897001	1	08:54	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
1201049256	1	09:01	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
1201049257	1	09:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
1201049258	5	09:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
ZZZZZZ	1	09:22																							
ZZZZZZ	1	09:29																							
ZZZZZZ	1	09:36																							
CCV02	1	09:43	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X
CCB02	1	09:50	X		X	X			X	X	X	X	X		X			X	X	X	X	X		X	X

Metals
-14-
Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: ICPMS5
Start Date: 15-MAR-06 **End Date:** 15-MAR-06

Client Sdg: 4726S-1
Method MS
Data File: 060315-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
Blank	1	14:08:00		X			X	X						X		X							X		
Standard 1	1	14:13:00		X			X	X						X		X							X		
Standard 2	1	14:18:00		X			X	X						X		X							X		
ICV01	1	14:23:00		X			X	X						X		X							X		
ICB01	1	14:28:00		X			X	X						X		X							X		
CRDL01	1	14:34:00		X			X	X						X		X							X		
ICSA01	1	14:39:00		X			X	X						X		X							X		
ICSAB01	1	14:44:00		X			X	X						X		X							X		
CCV01	1	14:49:00		X			X	X						X		X							X		
CCB01	1	14:54:00		X			X	X						X		X							X		
ZZZZZZ	1	14:59:00																							
CCV02	1	15:04:00		X			X	X						X		X							X		
CCB02	1	15:10:00		X			X	X						X		X							X		
1201049341	1	15:15:00		X			X	X						X		X							X		
1201049342	1	15:20:00		X			X	X						X		X							X		
ZZZZZZ	1	15:25:00																							
ZZZZZZ	1	15:31:00																							
157897001	1	15:36:00		X			X	X						X		X							X		
1201049343	1	15:41:00		X			X	X						X		X							X		
1201049344	1	15:46:00		X			X	X						X		X							X		
1201049345	5	15:51:00		X			X	X						X		X							X		
CCV03	1	15:57:00		X			X	X						X		X							X		
CCB03	1	16:02:00		X			X	X						X		X							X		

Metals
-14-
Analysis Run Log

Contract: LANL00600
Lab Code: GEL
Inst Name: MER536
Start Date: 15-MAR-06 **End Date:** 15-MAR-06

Client Sdg: 4726S-1
Method AV
Data File: 031506W1-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
SCalib Blank	1	12:27															X								
S0.2	1	12:29															X								
S0.5	1	12:31															X								
S2.0	1	12:33															X								
S5.0	1	12:35															X								
S10	1	12:37															X								
ICV01	1	12:39															X								
ICB01	1	12:41															X								
CRDL01	1	12:43															X								
CCV01	1	12:45															X								
CCB01	1	12:47															X								
ZZZZZZ	1	12:49																							
ZZZZZZ	1	12:51																							
ZZZZZZ	1	12:53																							
ZZZZZZ	1	12:55																							
ZZZZZZ	1	12:57																							
ZZZZZZ	1	12:59																							
ZZZZZZ	1	13:01																							
ZZZZZZ	5	13:03																							
ZZZZZZ	1	13:05																							
ZZZZZZ	1	13:07																							
CCV02	1	13:09															X								
CCB02	1	13:11															X								
ZZZZZZ	1	13:13																							
ZZZZZZ	1	13:15																							
ZZZZZZ	1	13:17																							
ZZZZZZ	1	13:19																							
ZZZZZZ	1	13:21																							
ZZZZZZ	5	13:23																							
ZZZZZZ	1	13:25																							
ZZZZZZ	1	13:27																							
ZZZZZZ	1	13:29																							
ZZZZZZ	1	13:31																							
CCV03	1	13:32															X								
CCB03	1	13:35															X								
ZZZZZZ	1	13:37																							
ZZZZZZ	1	13:39																							
ZZZZZZ	5	13:41																							
1201049514	1	13:43															X								
1201049515	1	13:44															X								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time														X								
157897001	1	13:47														X								
1201049516	1	13:49														X								
1201049517	1	13:51														X								
1201049522	5	13:53														X								
ZZZZZZ	1	13:55																						
CCV04	1	13:57														X								
CCB04	1	13:59														X								

Standards

METALS
–10–
Instrument Detection Limits

SDG NO. 4726S–1

Contract: LANL00600 Lab Code: GEL MDL Effective Date: 01–APR–05

	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
ICP/MS	Aluminum		5.0	15
	Antimony		0.5	2
	Arsenic		1.5	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		20.0	100
	Chromium		1.0	3
	Cobalt		0.1	1
	Copper		0.2	1
	Iron		10.0	25
	Lead		0.5	2
	Magnesium		5.0	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.4	1
	Vanadium		2.0	30
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 4726S-1

Contract: LANL00600 **Lab Code: GEL** **MDL Effective Date:** 01-APR-05

	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
MERCURY	Mercury		0.05	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 4726S-1

Contract: LANL00600 **Lab Code: GEL** **MDL Effective Date:** 01-APR-05

ICP	Analyte	Wavelength (nm)	MDL ug/L	RDL ug/L
	Aluminum	308.215	68.0	200
	Antimony	206.838	4.0	10
	Arsenic	193.696	6.0	15
	Barium	493.409	1.0	5
	Beryllium	313.042	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	36.0	100
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.754	3.0	10
	Iron	259.94	18.0	100
	Lead	220.353	2.5	10
	Magnesium	279.078	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.0	5
	Potassium	766.491	50.0	150
	Selenium	196.026	6.0	15
	Silver	328.068	1.0	5
	Sodium	588.995	45.0	150
	Thallium	190.864	5.0	20
	Vanadium	292.402	1.0	5
	Zinc	213.856	2.0	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1

Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.09589	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.40018	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.09677	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.03066	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.21605	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	-0.03816	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1

Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Boron	Cadmium	Calcium	Chromium	Cobalt
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-0.59504	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	-11.0358	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	-0.13503	0.00000
	313.107	0.00000	0.00000	0.00000	-0.13621	0.00000
Boron	249.677	0.00000	0.00000	0.00000	-3.12463	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.14904	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	-12.0418
Lead	220.353	0.00000	0.00000	0.00000	-0.29929	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	-0.01513	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	-0.04127	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.02812	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	-0.07613	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	-0.02020	0.28042	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	1.33267	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-2.48760	0.00000
Zinc	213.857	0.00000	0.00000	0.02717	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Copper	Iron	Lead	Lithium	Magnesium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	-0.11463	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.01172	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.29522	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.06198	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.01884	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.76627	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.73488	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	-0.10250	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.02463	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-14.2887	1.07574	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.02882
Silica	251.611	0.00000	-0.11584	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	-0.11584	0.00000	0.00000	0.00000
Silver	328.068	0.00000	-0.16743	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-0.00268	0.00000	0.00000	0.00000
Tin	189.927	0.00000	-0.07040	0.00000	0.00000	-0.04068
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	2.11242	0.10406	0.00000	0.00000	0.02178

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Manganese	Molybdenum	Nickel	Phosphorous	Potassium
Aluminum	396.153	0.00000	46.4981	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-8.50943	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	-0.37094	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.29182	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	-2.08692	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.79197	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.22433	0.00000	0.14490	0.00000
Cobalt	228.616	0.00000	-1.56632	0.00000	0.00000	0.00000
Copper	324.752	0.11682	0.61635	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	-1.47225	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	-33.4879	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	-2.24961	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	10.0812	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	32.0230	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	37.9357	0.00000	0.00000	0.00000
Silver	328.068	0.00000	-0.17079	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	2.95521	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	-8.03630	0.00000	0.00000	0.00000
Thallium	190.801	-0.35043	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00512	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	-9.62026	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Selenium	Silica	Silicon	Silver	Sodium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Strontium	Sulfur	Thallium	Tin	Titanium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000	0.00000	0.05288
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Calcium	317.933	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.38922
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	2.68640	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	2.68640	0.00000
Silver	328.068	0.00000	0.00000	-2.31806	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	-0.09624
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.13445
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL
Contract: LANL00600
Instrument: OPTIMA2
Interelement Correction Factors (apparent ppb analyte/ppm interferent)

GEL Job No: 4726S-1
Effective Dates: 01-AUG-05,01-NOV-05,01-FEB-06

Parmname	Wavelength	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-0.96132	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.67410	0.00000
Beryllium	233.527	-0.18887	0.00000	0.00000
	313.107	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000
Cadmium	226.502	-0.22683	0.00000	0.00000
Calcium	317.933	-5.57052	0.00000	0.00000
Chromium	267.716	0.00000	-0.83702	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.752	0.97899	-0.25575	0.00000
Iron	238.204	0.00000	0.00000	0.00000
Lead	220.353	0.00000	1.26086	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000
Selenium	196.026	-3.66566	1.64408	0.00000
Silica	251.611	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	-0.26656	0.00000
Thallium	190.801	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.52742	0.00000
Uranium	409.014	0.00000	-6.78198	0.00000
Vanadium	292.402	-1.10111	0.00000	0.00000
Zinc	213.857	-0.11998	-0.20118	0.00000

METALS
-12-
Linear Ranges

SDG NO. 4726S-1

Contract: LANL00600 **Lab Code: GEL**

Instrument ID ICPMS5

Analyte	Integration Time	LDR	Units	Effective Date
Sodium		50000	ug/L	20-OCT-05
Thallium		5000	ug/L	20-OCT-05
Vanadium		5000	ug/L	01-FEB-06
Zinc		5000	ug/L	20-OCT-05
Aluminum		50000	ug/L	01-FEB-06
Antimony		2500	ug/L	20-OCT-05
Arsenic		500	ug/L	20-OCT-05
Barium		5000	ug/L	20-OCT-05
Beryllium		1000	ug/L	01-FEB-06
Cadnium		1000	ug/L	20-OCT-05
Calcium		50000	ug/L	01-FEB-06
Chromium		5000	ug/L	20-OCT-05
Cobalt		2500	ug/L	01-FEB-06
Copper		5000	ug/L	20-OCT-05
Iron		50000	ug/L	20-OCT-05
Lead		5000	ug/L	20-OCT-05
Magnesium		50000	ug/L	01-FEB-06
Manganese		5000	ug/L	20-OCT-05
Nickel		5000	ug/L	20-OCT-05
Potassium		50000	ug/L	20-OCT-05
Selenium		500	ug/L	01-FEB-06
Silver		250	ug/L	01-FEB-06

METALS
-12-
Linear Ranges

SDG NO. 4726S-1

Contract: LANL00600 **Lab Code: GEL**

Instrument ID OPTIMA2

Analyte	Integration Time	LDR	Units	Effective Date
Aluminum		500000	ug/L	01-FEB-06
Antimony		50000	ug/L	01-NOV-05
Arsenic		50000	ug/L	01-NOV-05
Barium		15000	ug/L	01-NOV-05
Beryllium		3000	ug/L	01-FEB-06
Cadmium		25000	ug/L	01-NOV-05
Calcium		500000	ug/L	01-FEB-06
Chromium		25000	ug/L	01-FEB-06
Cobalt		10000	ug/L	01-FEB-06
Copper		25000	ug/L	01-NOV-05
Iron		500000	ug/L	01-NOV-05
Lead		50000	ug/L	01-NOV-05
Magnesium		500000	ug/L	01-FEB-06
Manganese		10000	ug/L	01-NOV-05
Nickel		50000	ug/L	01-NOV-05
Potassium		500000	ug/L	01-NOV-05
Selenium		10000	ug/L	01-FEB-06
Silver		1000	ug/L	01-FEB-06
Sodium		300000	ug/L	01-NOV-05
Thallium		10000	ug/L	01-FEB-06
Vanadium		10000	ug/L	01-FEB-06
Zinc		5000	ug/L	01-FEB-06

Raw Data

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3/14/2006 06:50:56 Hg ReAlign... Actual peak offset (nm): -0.004
Drift (nm): -0.001 Slit adjustment: -2

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Analysis Begun

Start Time: 3/14/2006 06:52:24 **Plasma On Time: 3/13/2006 03:58:47**
Logged In Analyst: Administrator **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N2061001Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

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Method Loaded
Method Name: General Eng.2AZ **Method Last Saved: 3/2/2006 21:57:10**
IEC File: 010406IEC.iec **MSF File:**
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: S0 **Date Collected: 3/14/2006 06:52:25**
Nebulizer Back Pressure: 233.0 kPa **Nebulizer Flow: 0.65 L/min**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: S0

	Net	Corrected	Calib.	Analysis

Repl#	Analyte	Intensity	Intensity	Conc.	Units	Time
1	Sc RADIAL	71649.3	71649.3	99.4	%	06:54:08
1	Al 396.153Radial†	26.0	26.1	[0.00]	µg/L	06:54:08
1	Ca 317.933Radial†	256.0	257.6	[0.00]	µg/L	06:54:28
1	Fe 238.204 Radial†	42.1	42.4	[0.00]	µg/L	06:54:28
1	K 766.490 Radial†	1049.5	1056.0	[0.00]	µg/L	06:54:08
1	Mg 279.077 IEC†	3.6	3.7	[0.00]	µg/L	06:54:28
1	Na 589.592 Radial†	1120.0	1126.9	[0.00]	µg/L	06:54:08
1	Sr 421.552†	13.4	13.5	[0.00]	µg/L	06:54:08
1	Sc 361.383	1528227.2	1528227.2	99.979	%	06:55:27
1	Y 371.029	847406.3	847406.3	99.965	%	06:55:27
1	Ag 328.068†	-906.7	-906.9	[0.00]	µg/L	06:55:32
1	As 188.979†	3.2	3.2	[0.00]	µg/L	06:55:52
1	B 249.677†	82.2	82.3	[0.00]	µg/L	06:55:52
1	Ba 233.527†	-115.2	-115.2	[0.00]	µg/L	06:55:52
1	Be 313.107†	365.1	365.1	[0.00]	µg/L	06:55:32
1	Cd 226.502†	-31.7	-31.7	[0.00]	µg/L	06:55:52
1	Co 228.616†	-56.2	-56.2	[0.00]	µg/L	06:55:52
1	Cr 267.716†	57.7	57.7	[0.00]	µg/L	06:55:52
1	Cu 324.752†	3869.9	3870.7	[0.00]	µg/L	06:55:32
1	Mn 257.610†	366.2	366.3	[0.00]	µg/L	06:55:52
1	Mo 202.031†	-13.9	-13.9	[0.00]	µg/L	06:55:52
1	Ni 231.604†	160.5	160.5	[0.00]	µg/L	06:55:52
1	P 214.914†	168.7	168.8	[0.00]	µg/L	06:55:52
1	Pb 220.353†	12.1	12.1	[0.00]	µg/L	06:55:52
1	S 181.975 Axial†	28.0	28.0	[0.00]	µg/L	06:55:52
1	Sb 206.836†	16.4	16.4	[0.00]	µg/L	06:55:52
1	Se 196.026†	-19.5	-19.5	[0.00]	µg/L	06:55:52
1	SiO2 †	709.8	709.9	[0.00]	µg/L	06:55:52
1	Sn 189.927†	-25.1	-25.1	[0.00]	µg/L	06:55:52
1	Ti 334.940†	538.6	538.7	[0.00]	µg/L	06:55:32
1	Tl 190.801†	-31.5	-31.5	[0.00]	µg/L	06:55:52
1	U 409.014†	423.1	423.2	[0.00]	µg/L	06:55:32
1	V 292.402†	-83.5	-83.5	[0.00]	µg/L	06:55:32
1	Zn 213.857†	290.5	290.6	[0.00]	µg/L	06:55:52
1	Si 251.611†	700.7	700.9	[0.00]	µg/L	06:57:15
2	Sc RADIAL	72005.9	72005.9	99.9	%	06:54:33
2	Al 396.153Radial†	26.4	26.4	[0.00]	µg/L	06:54:33
2	Ca 317.933Radial†	252.7	253.0	[0.00]	µg/L	06:54:54
2	Fe 238.204 Radial†	40.2	40.3	[0.00]	µg/L	06:54:54
2	K 766.490 Radial†	1093.0	1094.4	[0.00]	µg/L	06:54:33
2	Mg 279.077 IEC†	1.1	1.1	[0.00]	µg/L	06:54:54
2	Na 589.592 Radial†	1245.4	1246.9	[0.00]	µg/L	06:54:33
2	Sr 421.552†	-11.0	-11.1	[0.00]	µg/L	06:54:33
2	Sc 361.383	1524203.1	1524203.1	99.716	%	06:55:58
2	Y 371.029	845300.5	845300.5	99.717	%	06:55:58
2	Ag 328.068†	-878.9	-881.4	[0.00]	µg/L	06:56:03
2	As 188.979†	0.9	0.9	[0.00]	µg/L	06:56:23
2	B 249.677†	91.1	91.3	[0.00]	µg/L	06:56:23
2	Ba 233.527†	-119.6	-119.9	[0.00]	µg/L	06:56:23
2	Be 313.107†	324.0	325.0	[0.00]	µg/L	06:56:03
2	Cd 226.502†	-30.6	-30.7	[0.00]	µg/L	06:56:23
2	Co 228.616†	-67.4	-67.6	[0.00]	µg/L	06:56:23
2	Cr 267.716†	50.6	50.7	[0.00]	µg/L	06:56:23
2	Cu 324.752†	3896.3	3907.4	[0.00]	µg/L	06:56:03
2	Mn 257.610†	383.7	384.8	[0.00]	µg/L	06:56:23
2	Mo 202.031†	-11.5	-11.6	[0.00]	µg/L	06:56:23
2	Ni 231.604†	152.7	153.2	[0.00]	µg/L	06:56:23
2	P 214.914†	170.4	170.9	[0.00]	µg/L	06:56:23
2	Pb 220.353†	5.2	5.3	[0.00]	µg/L	06:56:23
2	S 181.975 Axial†	30.7	30.8	[0.00]	µg/L	06:56:23
2	Sb 206.836†	15.3	15.3	[0.00]	µg/L	06:56:23
2	Se 196.026†	-25.2	-25.2	[0.00]	µg/L	06:56:23
2	SiO2 †	734.1	736.2	[0.00]	µg/L	06:56:23
2	Sn 189.927†	-20.3	-20.4	[0.00]	µg/L	06:56:23
2	Ti 334.940†	520.8	522.2	[0.00]	µg/L	06:56:03
2	Tl 190.801†	-29.0	-29.1	[0.00]	µg/L	06:56:23
2	U 409.014†	366.9	367.9	[0.00]	µg/L	06:56:03
2	V 292.402†	-95.1	-95.4	[0.00]	µg/L	06:56:03
2	Zn 213.857†	299.7	300.6	[0.00]	µg/L	06:56:23
2	Si 251.611†	711.8	713.9	[0.00]	µg/L	06:57:35

3	Sc RADIAL	72632.9	72632.9	101	%	06:54:59
3	Al 396.153Radial†	56.0	55.6	[0.00]	µg/L	06:54:59
3	Ca 317.933Radial†	258.0	256.1	[0.00]	µg/L	06:55:19
3	Fe 238.204 Radial†	39.6	39.3	[0.00]	µg/L	06:55:19
3	K 766.490 Radial†	1089.6	1081.5	[0.00]	µg/L	06:54:59
3	Mg 279.077 IEC†	-1.2	-1.2	[0.00]	µg/L	06:55:19
3	Na 589.592 Radial†	1188.4	1179.7	[0.00]	µg/L	06:54:59
3	Sr 421.552†	11.5	11.4	[0.00]	µg/L	06:54:59
3	Sc 361.383	1533219.1	1533219.1	100.31	%	06:56:29
3	Y 371.029	850395.8	850395.8	100.32	%	06:56:29
3	Ag 328.068†	-970.2	-967.3	[0.00]	µg/L	06:56:34
3	As 188.979†	3.2	3.2	[0.00]	µg/L	06:56:54
3	B 249.677†	83.9	83.6	[0.00]	µg/L	06:56:54
3	Ba 233.527†	-118.1	-117.7	[0.00]	µg/L	06:56:54
3	Be 313.107†	400.2	399.0	[0.00]	µg/L	06:56:34
3	Cd 226.502†	-35.8	-35.7	[0.00]	µg/L	06:56:54
3	Co 228.616†	-64.6	-64.4	[0.00]	µg/L	06:56:54
3	Cr 267.716†	57.0	56.9	[0.00]	µg/L	06:56:54
3	Cu 324.752†	3829.0	3817.3	[0.00]	µg/L	06:56:34
3	Mn 257.610†	363.8	362.7	[0.00]	µg/L	06:56:54
3	Mo 202.031†	-14.7	-14.6	[0.00]	µg/L	06:56:54
3	Ni 231.604†	159.1	158.7	[0.00]	µg/L	06:56:54
3	P 214.914†	161.4	160.9	[0.00]	µg/L	06:56:54
3	Pb 220.353†	3.3	3.3	[0.00]	µg/L	06:56:54
3	S 181.975 Axial†	30.2	30.1	[0.00]	µg/L	06:56:54
3	Sb 206.836†	16.5	16.5	[0.00]	µg/L	06:56:54
3	Se 196.026†	-29.2	-29.1	[0.00]	µg/L	06:56:54
3	SiO2 †	703.6	701.5	[0.00]	µg/L	06:56:54
3	Sn 189.927†	-23.2	-23.1	[0.00]	µg/L	06:56:54
3	Ti 334.940†	569.4	567.7	[0.00]	µg/L	06:56:34
3	Tl 190.801†	-28.4	-28.3	[0.00]	µg/L	06:56:54
3	U 409.014†	311.7	310.8	[0.00]	µg/L	06:56:34
3	V 292.402†	-77.1	-76.9	[0.00]	µg/L	06:56:34
3	Zn 213.857†	292.3	291.4	[0.00]	µg/L	06:56:54
3	Si 251.611†	711.2	709.1	[0.00]	µg/L	06:57:55

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	1528549.8	4516.62	0.30%	100.00	%
Sc RADIAL	72096.0	497.96	0.69%	100	%
Y 371.029	847700.9	2560.43	0.30%	100.00	%
Ag 328.068†	-918.5	44.08	4.80%	[0.00]	µg/L
Al 396.153Radial†	36.1	16.93	46.95%	[0.00]	µg/L
As 188.979†	2.4	1.32	54.54%	[0.00]	µg/L
B 249.677†	85.7	4.89	5.70%	[0.00]	µg/L
Ba 233.527†	-117.6	2.37	2.02%	[0.00]	µg/L
Be 313.107†	363.0	37.07	10.21%	[0.00]	µg/L
Ca 317.933Radial†	255.6	2.36	0.92%	[0.00]	µg/L
Cd 226.502†	-32.7	2.66	8.13%	[0.00]	µg/L
Co 228.616†	-62.7	5.86	9.34%	[0.00]	µg/L
Cr 267.716†	55.1	3.80	6.90%	[0.00]	µg/L
Cu 324.752†	3865.1	45.30	1.17%	[0.00]	µg/L
Fe 238.204 Radial†	40.7	1.57	3.86%	[0.00]	µg/L
K 766.490 Radial†	1077.3	19.53	1.81%	[0.00]	µg/L
Mg 279.077 IEC†	1.2	2.41	200.85%	[0.00]	µg/L
Mn 257.610†	371.2	11.83	3.19%	[0.00]	µg/L
Mo 202.031†	-13.4	1.59	11.92%	[0.00]	µg/L
Na 589.592 Radial†	1184.5	60.14	5.08%	[0.00]	µg/L
Ni 231.604†	157.4	3.81	2.42%	[0.00]	µg/L
P 214.914†	166.8	5.27	3.16%	[0.00]	µg/L
Pb 220.353†	6.9	4.63	67.22%	[0.00]	µg/L
S 181.975 Axial†	29.6	1.44	4.86%	[0.00]	µg/L
Sb 206.836†	16.1	0.64	4.00%	[0.00]	µg/L
Se 196.026†	-24.6	4.81	19.52%	[0.00]	µg/L
SiO2 †	715.9	18.12	2.53%	[0.00]	µg/L
Si 251.611†	707.9	6.56	0.93%	[0.00]	µg/L
Sn 189.927†	-22.9	2.40	10.49%	[0.00]	µg/L
Sr 421.552†	4.6	13.60	294.98%	[0.00]	µg/L
Ti 334.940†	542.9	23.00	4.24%	[0.00]	µg/L

Tl 190.801†	-29.6	1.65	5.55%	[0.00] µg/L
U 409.014†	367.3	56.18	15.30%	[0.00] µg/L
V 292.402†	-85.3	9.40	11.02%	[0.00] µg/L
Zn 213.857†	294.2	5.54	1.88%	[0.00] µg/L

Sequence No.: 2
Sample ID: S0.1
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 3/14/2006 07:00:04
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	70050.0	70050.0	97.2	%	07:01:48
1	K 766.490 Radial†	4603.4	3660.5	[1000]	µg/L	07:01:48
1	Sr 421.552†	39839.0	40998.0	[100]	µg/L	07:01:48
1	Sc 361.383	1516449.1	1516449.1	99.208	%	07:02:07
1	Y 371.029	838171.1	838171.1	98.876	%	07:02:07
1	Ag 328.068†	16760.2	17812.5	[100]	µg/L	07:02:12
1	As 188.979†	236.0	235.5	[100]	µg/L	07:02:32
1	B 249.677†	2155.6	2087.0	[100]	µg/L	07:02:12
1	Ba 233.527†	12156.1	12370.7	[100]	µg/L	07:02:12
1	Be 313.107†	187989.7	189126.7	[100]	µg/L	07:02:07
1	Cd 226.502†	3581.6	3642.9	[100]	µg/L	07:02:12
1	Co 228.616†	4144.2	4239.9	[100]	µg/L	07:02:12
1	Cr 267.716†	4761.5	4744.4	[100]	µg/L	07:02:12
1	Cu 324.752†	36932.6	33362.2	[100]	µg/L	07:02:12
1	Mn 257.610†	75008.3	75235.6	[100]	µg/L	07:02:07
1	Mo 202.031†	902.4	923.0	[100]	µg/L	07:02:32
1	Ni 231.604†	2312.5	2173.5	[100]	µg/L	07:02:32
1	P 214.914†	935.8	776.4	[500]	µg/L	07:02:32
1	Pb 220.353†	522.9	520.1	[100]	µg/L	07:02:32
1	S 181.975 Axial†	142.3	113.8	[200]	µg/L	07:02:32
1	Sb 206.836†	273.4	259.5	[100]	µg/L	07:02:32
1	Se 196.026†	117.1	142.7	[100]	µg/L	07:02:32
1	SiO2 †	18997.2	18433.0	[1069.5]	µg/L	07:02:12
1	Sn 189.927†	423.0	449.2	[100]	µg/L	07:02:32
1	Ti 334.940†	98942.6	99189.2	[100]	µg/L	07:02:07
1	Tl 190.801†	274.2	306.0	[100]	µg/L	07:02:32
1	U 409.014†	2390.0	2041.7	[100]	µg/L	07:02:12
1	V 292.402†	8971.0	9127.8	[100]	µg/L	07:02:12
1	Zn 213.857†	5434.8	5184.0	[100]	µg/L	07:02:12
1	Si 251.611†	18737.8	18179.4	[500]	µg/L	07:03:41
2	Sc RADIAL	71029.8	71029.8	98.5	%	07:01:53
2	K 766.490 Radial†	4725.9	3719.5	[1000]	µg/L	07:01:53
2	Sr 421.552†	40177.4	40775.9	[100]	µg/L	07:01:53
2	Sc 361.383	1508120.3	1508120.3	98.663	%	07:02:38
2	Y 371.029	833754.4	833754.4	98.355	%	07:02:38
2	Ag 328.068†	16769.3	17915.0	[100]	µg/L	07:02:43
2	As 188.979†	234.8	235.6	[100]	µg/L	07:03:04
2	B 249.677†	2140.1	2083.3	[100]	µg/L	07:02:43
2	Ba 233.527†	12210.7	12493.7	[100]	µg/L	07:02:43
2	Be 313.107†	187764.6	189945.1	[100]	µg/L	07:02:38
2	Cd 226.502†	3608.1	3689.7	[100]	µg/L	07:02:43
2	Co 228.616†	4185.8	4305.2	[100]	µg/L	07:02:43
2	Cr 267.716†	4766.2	4775.7	[100]	µg/L	07:02:43
2	Cu 324.752†	36970.3	33605.9	[100]	µg/L	07:02:43
2	Mn 257.610†	74860.8	75503.7	[100]	µg/L	07:02:38
2	Mo 202.031†	911.5	937.2	[100]	µg/L	07:03:04
2	Ni 231.604†	2309.2	2183.0	[100]	µg/L	07:03:04
2	P 214.914†	927.3	773.1	[500]	µg/L	07:03:04
2	Pb 220.353†	522.6	522.7	[100]	µg/L	07:03:04
2	S 181.975 Axial†	141.0	113.3	[200]	µg/L	07:03:04
2	Sb 206.836†	274.2	261.8	[100]	µg/L	07:03:04
2	Se 196.026†	117.7	143.9	[100]	µg/L	07:03:04
2	SiO2 †	18998.4	18539.9	[1069.5]	µg/L	07:02:43
2	Sn 189.927†	416.5	445.0	[100]	µg/L	07:03:04
2	Ti 334.940†	99090.4	99889.8	[100]	µg/L	07:02:38
2	Tl 190.801†	275.5	308.9	[100]	µg/L	07:03:04
2	U 409.014†	2443.7	2109.5	[100]	µg/L	07:02:43
2	V 292.402†	9008.5	9215.8	[100]	µg/L	07:02:43

2	Zn 213.857†	5447.5	5227.1	[100]	µg/L	07:02:43
2	Si 251.611†	18772.4	18318.8	[500]	µg/L	07:03:46
3	Sc RADIAL	70734.8	70734.8	98.1	%	07:01:58
3	K 766.490 Radial†	4691.2	3704.2	[1000]	µg/L	07:01:58
3	Sr 421.552†	39930.9	40694.8	[100]	µg/L	07:01:58
3	Sc 361.383	1522562.2	1522562.2	99.608	%	07:03:09
3	Y 371.029	841477.7	841477.7	99.266	%	07:03:09
3	Ag 328.068†	16850.2	17835.1	[100]	µg/L	07:03:15
3	As 188.979†	235.3	233.8	[100]	µg/L	07:03:35
3	B 249.677†	2150.6	2073.4	[100]	µg/L	07:03:15
3	Ba 233.527†	12234.6	12400.3	[100]	µg/L	07:03:15
3	Be 313.107†	188440.8	188818.8	[100]	µg/L	07:03:09
3	Cd 226.502†	3580.1	3626.9	[100]	µg/L	07:03:15
3	Co 228.616†	4209.4	4288.6	[100]	µg/L	07:03:15
3	Cr 267.716†	4771.9	4735.6	[100]	µg/L	07:03:15
3	Cu 324.752†	37042.0	33322.5	[100]	µg/L	07:03:15
3	Mn 257.610†	74975.8	74899.4	[100]	µg/L	07:03:09
3	Mo 202.031†	911.4	928.3	[100]	µg/L	07:03:35
3	Ni 231.604†	2316.6	2168.2	[100]	µg/L	07:03:35
3	P 214.914†	931.0	767.9	[500]	µg/L	07:03:35
3	Pb 220.353†	529.2	524.4	[100]	µg/L	07:03:35
3	S 181.975 Axial†	138.1	109.0	[200]	µg/L	07:03:35
3	Sb 206.836†	285.7	270.8	[100]	µg/L	07:03:35
3	Se 196.026†	115.0	140.1	[100]	µg/L	07:03:35
3	SiO2 †	19005.4	18364.3	[1069.5]	µg/L	07:03:15
3	Sn 189.927†	426.2	450.7	[100]	µg/L	07:03:35
3	Ti 334.940†	99114.9	98961.8	[100]	µg/L	07:03:09
3	Tl 190.801†	280.9	311.6	[100]	µg/L	07:03:35
3	U 409.014†	2442.6	2085.0	[100]	µg/L	07:03:15
3	V 292.402†	9034.6	9155.4	[100]	µg/L	07:03:15
3	Zn 213.857†	5444.8	5172.0	[100]	µg/L	07:03:15
3	Si 251.611†	18678.5	18044.0	[500]	µg/L	07:03:51

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1515710.5	7249.21	0.48%	99.160	%
Sc RADIAL	70604.9	502.66	0.71%	97.9	%
Y 371.029	837801.1	3874.92	0.46%	98.832	%
Ag 328.068†	17854.2	53.84	0.30%	[100]	µg/L
As 188.979†	235.0	0.98	0.42%	[100]	µg/L
B 249.677†	2081.2	7.07	0.34%	[100]	µg/L
Ba 233.527†	12421.6	64.20	0.52%	[100]	µg/L
Be 313.107†	189296.9	582.11	0.31%	[100]	µg/L
Cd 226.502†	3653.2	32.66	0.89%	[100]	µg/L
Co 228.616†	4277.9	33.93	0.79%	[100]	µg/L
Cr 267.716†	4751.9	21.08	0.44%	[100]	µg/L
Cu 324.752†	33430.2	153.47	0.46%	[100]	µg/L
K 766.490 Radial†	3694.7	30.59	0.83%	[1000]	µg/L
Mn 257.610†	75212.9	302.77	0.40%	[100]	µg/L
Mo 202.031†	929.5	7.16	0.77%	[100]	µg/L
Ni 231.604†	2174.9	7.49	0.34%	[100]	µg/L
P 214.914†	772.5	4.31	0.56%	[500]	µg/L
Pb 220.353†	522.4	2.17	0.41%	[100]	µg/L
S 181.975 Axial†	112.1	2.63	2.35%	[200]	µg/L
Sb 206.836†	264.0	5.95	2.25%	[100]	µg/L
Se 196.026†	142.2	1.99	1.40%	[100]	µg/L
SiO2 †	18445.7	88.48	0.48%	[1069.5]	µg/L
Si 251.611†	18180.7	137.37	0.76%	[500]	µg/L
Sn 189.927†	448.3	2.98	0.66%	[100]	µg/L
Sr 421.552†	40822.9	157.00	0.38%	[100]	µg/L
Ti 334.940†	99346.9	483.70	0.49%	[100]	µg/L
Tl 190.801†	308.8	2.82	0.91%	[100]	µg/L
U 409.014†	2078.7	34.30	1.65%	[100]	µg/L
V 292.402†	9166.3	44.98	0.49%	[100]	µg/L
Zn 213.857†	5194.3	28.96	0.56%	[100]	µg/L

Sequence No.: 3
Sample ID: S0.5
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 3/14/2006 07:06:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	71475.0	71475.0	99.1	%	07:07:48
1	Al 396.153Radial†	26042.0	26232.2	[5000]	µg/L	07:07:48
1	Ca 317.933Radial†	33633.1	33669.8	[5000]	µg/L	07:08:08
1	K 766.490 Radial†	18522.7	17606.3	[5000]	µg/L	07:07:48
1	Mg 279.077 IEC†	2383.0	2402.5	[5000]	µg/L	07:08:08
1	Sr 421.552†	192919.2	194590.9	[500]	µg/L	07:07:48
1	Sc 361.383	1517643.3	1517643.3	99.286	%	07:09:09
1	Y 371.029	832477.8	832477.8	98.204	%	07:09:09
1	Ag 328.068†	87064.9	88609.2	[500]	µg/L	07:09:14
1	As 188.979†	1166.9	1172.8	[500]	µg/L	07:09:35
1	B 249.677†	10328.9	10317.4	[500]	µg/L	07:09:14
1	Ba 233.527†	59684.3	60230.9	[500]	µg/L	07:09:14
1	Be 313.107†	919804.5	926051.6	[500]	µg/L	07:09:09
1	Cd 226.502†	17482.1	17640.5	[500]	µg/L	07:09:14
1	Co 228.616†	20438.4	20648.0	[500]	µg/L	07:09:14
1	Cr 267.716†	22903.5	23013.0	[500]	µg/L	07:09:14
1	Cu 324.752†	160795.8	158086.2	[500]	µg/L	07:09:09
1	Mn 257.610†	357930.8	360131.9	[500]	µg/L	07:09:09
1	Mo 202.031†	4614.9	4661.4	[500]	µg/L	07:09:35
1	Ni 231.604†	10216.9	10132.8	[500]	µg/L	07:09:14
1	P 214.914†	3927.7	3789.1	[2500]	µg/L	07:09:35
1	Pb 220.353†	2501.9	2513.0	[500]	µg/L	07:09:35
1	S 181.975 Axial†	590.3	564.9	[1000]	µg/L	07:09:35
1	Sb 206.836†	1302.7	1296.0	[500]	µg/L	07:09:35
1	Se 196.026†	665.5	694.9	[500]	µg/L	07:09:35
1	SiO2 †	90875.1	90812.3	[5347.5]	µg/L	07:09:14
1	Sn 189.927†	2218.8	2257.6	[500]	µg/L	07:09:35
1	Ti 334.940†	492921.7	495921.3	[500]	µg/L	07:09:09
1	Tl 190.801†	1476.4	1516.7	[500]	µg/L	07:09:35
1	U 409.014†	10314.6	10021.4	[500]	µg/L	07:09:14
1	V 292.402†	44475.8	44880.7	[500]	µg/L	07:09:14
1	Zn 213.857†	25256.1	25143.4	[500]	µg/L	07:09:14
1	Si 251.611†	88846.0	88776.5	[2500]	µg/L	07:10:46
2	Sc RADIAL	70661.6	70661.6	98.0	%	07:08:13
2	Al 396.153Radial†	25850.4	26339.1	[5000]	µg/L	07:08:13
2	Ca 317.933Radial†	33879.1	34311.3	[5000]	µg/L	07:08:34
2	K 766.490 Radial†	18412.2	17708.7	[5000]	µg/L	07:08:13
2	Mg 279.077 IEC†	2395.6	2443.1	[5000]	µg/L	07:08:34
2	Sr 421.552†	191180.2	195056.5	[500]	µg/L	07:08:13
2	Sc 361.383	1518130.4	1518130.4	99.318	%	07:09:42
2	Y 371.029	833161.0	833161.0	98.285	%	07:09:42
2	Ag 328.068†	87329.6	88847.5	[500]	µg/L	07:09:47
2	As 188.979†	1157.7	1163.2	[500]	µg/L	07:10:07
2	B 249.677†	10374.5	10360.0	[500]	µg/L	07:09:47
2	Ba 233.527†	59640.8	60167.7	[500]	µg/L	07:09:47
2	Be 313.107†	921080.5	927039.1	[500]	µg/L	07:09:42
2	Cd 226.502†	17459.7	17612.2	[500]	µg/L	07:09:47
2	Co 228.616†	20449.6	20652.6	[500]	µg/L	07:09:47
2	Cr 267.716†	22934.0	23036.3	[500]	µg/L	07:09:47
2	Cu 324.752†	161061.2	158301.5	[500]	µg/L	07:09:42
2	Mn 257.610†	358440.0	360528.8	[500]	µg/L	07:09:42
2	Mo 202.031†	4614.0	4659.0	[500]	µg/L	07:10:07
2	Ni 231.604†	10251.9	10164.8	[500]	µg/L	07:09:47
2	P 214.914†	3919.7	3779.7	[2500]	µg/L	07:10:07
2	Pb 220.353†	2492.1	2502.3	[500]	µg/L	07:10:07
2	S 181.975 Axial†	588.5	562.9	[1000]	µg/L	07:10:07
2	Sb 206.836†	1302.5	1295.3	[500]	µg/L	07:10:07
2	Se 196.026†	656.8	685.9	[500]	µg/L	07:10:07

2	SiO2 †	91224.2	91134.4	[5347.5]	µg/L	07:09:47
2	Sn 189.927†	2213.5	2251.6	[500]	µg/L	07:10:07
2	Ti 334.940†	493822.2	496668.6	[500]	µg/L	07:09:42
2	Tl 190.801†	1472.6	1512.3	[500]	µg/L	07:10:07
2	U 409.014†	10336.7	10040.3	[500]	µg/L	07:09:47
2	V 292.402†	44433.3	44823.5	[500]	µg/L	07:09:47
2	Zn 213.857†	25276.7	25156.0	[500]	µg/L	07:09:47
2	Si 251.611†	89492.4	89398.7	[2500]	µg/L	07:10:51
3	Sc RADIAL	71462.7	71462.7	99.1	%	07:08:39
3	Al 396.153Radial†	26028.0	26222.6	[5000]	µg/L	07:08:39
3	Ca 317.933Radial†	33653.5	33696.2	[5000]	µg/L	07:08:59
3	K 766.490 Radial†	18691.7	17780.0	[5000]	µg/L	07:08:39
3	Mg 279.077 IEC†	2385.3	2405.2	[5000]	µg/L	07:08:59
3	Sr 421.552†	192717.6	194421.0	[500]	µg/L	07:08:39
3	Sc 361.383	1514663.1	1514663.1	99.092	%	07:10:14
3	Y 371.029	831433.0	831433.0	98.081	%	07:10:14
3	Ag 328.068†	86947.5	88663.2	[500]	µg/L	07:10:20
3	As 188.979†	1167.7	1176.0	[500]	µg/L	07:10:40
3	B 249.677†	10319.3	10328.1	[500]	µg/L	07:10:20
3	Ba 233.527†	59654.0	60318.6	[500]	µg/L	07:10:20
3	Be 313.107†	923111.6	931211.8	[500]	µg/L	07:10:14
3	Cd 226.502†	17496.5	17689.6	[500]	µg/L	07:10:20
3	Co 228.616†	20440.5	20690.7	[500]	µg/L	07:10:20
3	Cr 267.716†	22893.0	23047.8	[500]	µg/L	07:10:20
3	Cu 324.752†	161353.7	158967.9	[500]	µg/L	07:10:14
3	Mn 257.610†	358935.1	361854.6	[500]	µg/L	07:10:14
3	Mo 202.031†	4612.6	4668.3	[500]	µg/L	07:10:40
3	Ni 231.604†	10265.3	10202.0	[500]	µg/L	07:10:20
3	P 214.914†	3903.9	3772.8	[2500]	µg/L	07:10:40
3	Pb 220.353†	2510.4	2526.5	[500]	µg/L	07:10:40
3	S 181.975 Axial†	591.2	567.0	[1000]	µg/L	07:10:40
3	Sb 206.836†	1312.2	1308.2	[500]	µg/L	07:10:40
3	Se 196.026†	659.5	690.2	[500]	µg/L	07:10:40
3	SiO2 †	90742.0	90858.0	[5347.5]	µg/L	07:10:20
3	Sn 189.927†	2204.7	2247.8	[500]	µg/L	07:10:40
3	Ti 334.940†	494426.8	498417.0	[500]	µg/L	07:10:14
3	Tl 190.801†	1469.0	1512.2	[500]	µg/L	07:10:40
3	U 409.014†	10326.6	10054.0	[500]	µg/L	07:10:20
3	V 292.402†	44513.7	45007.1	[500]	µg/L	07:10:20
3	Zn 213.857†	25291.4	25229.1	[500]	µg/L	07:10:20
3	Si 251.611†	89234.0	89344.2	[2500]	µg/L	07:10:56

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Sc 361.383	1516812.3	1877.09	0.12%	99.232	%
Sc RADIAL	71199.7	466.08	0.65%	98.8	%
Y 371.029	832357.2	870.26	0.10%	98.190	%
Ag 328.068†	88706.6	124.99	0.14%	[500]	µg/L
Al 396.153Radial†	26264.6	64.67	0.25%	[5000]	µg/L
As 188.979†	1170.7	6.66	0.57%	[500]	µg/L
B 249.677†	10335.2	22.17	0.21%	[500]	µg/L
Ba 233.527†	60239.1	75.75	0.13%	[500]	µg/L
Be 313.107†	928100.8	2739.02	0.30%	[500]	µg/L
Ca 317.933Radial†	33892.4	362.96	1.07%	[5000]	µg/L
Cd 226.502†	17647.4	39.15	0.22%	[500]	µg/L
Co 228.616†	20663.8	23.40	0.11%	[500]	µg/L
Cr 267.716†	23032.4	17.73	0.08%	[500]	µg/L
Cu 324.752†	158451.8	459.67	0.29%	[500]	µg/L
K 766.490 Radial†	17698.3	87.31	0.49%	[5000]	µg/L
Mg 279.077 IEC†	2416.9	22.68	0.94%	[5000]	µg/L
Mn 257.610†	360838.4	902.16	0.25%	[500]	µg/L
Mo 202.031†	4662.9	4.83	0.10%	[500]	µg/L
Ni 231.604†	10166.6	34.61	0.34%	[500]	µg/L
P 214.914†	3780.6	8.18	0.22%	[2500]	µg/L
Pb 220.353†	2514.0	12.14	0.48%	[500]	µg/L
S 181.975 Axial†	564.9	2.03	0.36%	[1000]	µg/L
Sb 206.836†	1299.8	7.23	0.56%	[500]	µg/L
Se 196.026†	690.3	4.51	0.65%	[500]	µg/L
SiO2 †	90934.9	174.24	0.19%	[5347.5]	µg/L

Si 251.611†	89173.1	344.55	0.39%	[2500] µg/L
Sn 189.927†	2252.3	4.91	0.22%	[500] µg/L
Sr 421.552†	194689.5	329.03	0.17%	[500] µg/L
Ti 334.940†	497002.3	1280.88	0.26%	[500] µg/L
Tl 190.801†	1513.7	2.57	0.17%	[500] µg/L
U 409.014†	10038.6	16.38	0.16%	[500] µg/L
V 292.402†	44903.8	93.95	0.21%	[500] µg/L
Zn 213.857†	25176.2	46.26	0.18%	[500] µg/L

Sequence No.: 4
Sample ID: SCAL
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 3/14/2006 07:13:08
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	71137.6	71137.6	98.7	%	07:14:58
1	Al 396.153Radial†	53558.2	54243.8	[10000]	µg/L	07:14:52
1	Ca 317.933Radial†	68802.4	69473.9	[10000]	µg/L	07:14:58
1	Fe 238.204 Radial†	7224.2	7280.9	[10000]	µg/L	07:14:58
1	K 766.490 Radial†	37667.1	37097.3	[10000]	µg/L	07:14:52
1	Mg 279.077 IEC†	4863.4	4927.7	[10000]	µg/L	07:14:58
1	Na 589.592 Radial†	98245.5	98384.7	[10000]	µg/L	07:14:52
1	Sr 421.552†	394998.8	400316.0	[1000]	µg/L	07:14:52
1	Sc 361.383	1484674.9	1484674.9	97.130	%	07:15:29
1	Y 371.029	813274.1	813274.1	95.939	%	07:15:29
1	Ag 328.068†	174424.3	180497.4	[1000]	µg/L	07:15:35
1	As 188.979†	2391.2	2459.4	[1000]	µg/L	07:15:55
1	B 249.677†	21092.5	21630.0	[1000]	µg/L	07:15:35
1	Ba 233.527†	122064.9	125789.7	[1000]	µg/L	07:15:35
1	Be 313.107†	1879942.3	1935135.0	[1000]	µg/L	07:15:29
1	Cd 226.502†	35572.8	36656.7	[1000]	µg/L	07:15:35
1	Co 228.616†	41668.6	42962.7	[1000]	µg/L	07:15:35
1	Cr 267.716†	46891.2	48221.8	[1000]	µg/L	07:15:35
1	Cu 324.752†	324069.9	329781.6	[1000]	µg/L	07:15:29
1	Mn 257.610†	729047.9	750221.4	[1000]	µg/L	07:15:29
1	Mo 202.031†	8957.0	9235.1	[1000]	µg/L	07:15:35
1	Ni 231.604†	20601.8	21053.2	[1000]	µg/L	07:15:35
1	P 214.914†	7688.3	7748.6	[5000]	µg/L	07:15:35
1	Pb 220.353†	5071.8	5214.8	[1000]	µg/L	07:15:55
1	S 181.975 Axial†	1143.7	1147.9	[2000]	µg/L	07:15:55
1	Sb 206.836†	2613.4	2674.6	[1000]	µg/L	07:15:55
1	Se 196.026†	1362.8	1427.7	[1000]	µg/L	07:15:55
1	SiO2 †	179334.5	183918.3	[10695]	µg/L	07:15:29
1	Sn 189.927†	4471.8	4626.8	[1000]	µg/L	07:15:55
1	Ti 334.940†	985830.1	1014420.3	[1000]	µg/L	07:15:29
1	Tl 190.801†	3018.8	3137.6	[1000]	µg/L	07:15:55
1	U 409.014†	20623.7	20865.8	[1000]	µg/L	07:15:35
1	V 292.402†	91429.4	94216.6	[1000]	µg/L	07:15:35
1	Zn 213.857†	51010.6	52223.8	[1000]	µg/L	07:15:35
1	Si 251.611†	179440.6	184035.4	[5000]	µg/L	07:17:07
2	Sc RADIAL	71326.5	71326.5	98.9	%	07:15:08
2	Al 396.153Radial†	53410.7	53950.9	[10000]	µg/L	07:15:03
2	Ca 317.933Radial†	68890.8	69378.5	[10000]	µg/L	07:15:08
2	Fe 238.204 Radial†	7248.6	7286.1	[10000]	µg/L	07:15:08
2	K 766.490 Radial†	37595.7	36924.0	[10000]	µg/L	07:15:03
2	Mg 279.077 IEC†	4879.7	4931.2	[10000]	µg/L	07:15:08
2	Na 589.592 Radial†	98234.3	98109.6	[10000]	µg/L	07:15:03
2	Sr 421.552†	394480.0	398731.3	[1000]	µg/L	07:15:03
2	Sc 361.383	1488449.0	1488449.0	97.377	%	07:16:02
2	Y 371.029	815103.1	815103.1	96.155	%	07:16:02
2	Ag 328.068†	172742.5	178315.0	[1000]	µg/L	07:16:08
2	As 188.979†	2393.0	2455.1	[1000]	µg/L	07:16:28
2	B 249.677†	20889.2	21366.3	[1000]	µg/L	07:16:08
2	Ba 233.527†	120756.4	124127.3	[1000]	µg/L	07:16:08
2	Be 313.107†	1882115.4	1932459.0	[1000]	µg/L	07:16:02
2	Cd 226.502†	35334.4	36319.1	[1000]	µg/L	07:16:08
2	Co 228.616†	41294.7	42470.0	[1000]	µg/L	07:16:08
2	Cr 267.716†	46491.2	47688.6	[1000]	µg/L	07:16:08
2	Cu 324.752†	324188.7	329057.6	[1000]	µg/L	07:16:02
2	Mn 257.610†	729787.5	749077.7	[1000]	µg/L	07:16:02
2	Mo 202.031†	8876.3	9128.7	[1000]	µg/L	07:16:08
2	Ni 231.604†	20441.8	20835.1	[1000]	µg/L	07:16:08
2	P 214.914†	7613.1	7651.4	[5000]	µg/L	07:16:08

2	Pb 220.353†	5072.8	5202.6	[1000]	µg/L	07:16:28
2	S 181.975 Axial†	1136.2	1137.2	[2000]	µg/L	07:16:28
2	Sb 206.836†	2607.0	2661.1	[1000]	µg/L	07:16:28
2	Se 196.026†	1354.0	1415.1	[1000]	µg/L	07:16:28
2	SiO2 †	179273.2	183387.2	[10695]	µg/L	07:16:02
2	Sn 189.927†	4485.4	4629.1	[1000]	µg/L	07:16:28
2	Ti 334.940†	986627.6	1012665.8	[1000]	µg/L	07:16:02
2	Tl 190.801†	3023.8	3134.9	[1000]	µg/L	07:16:28
2	U 409.014†	20225.9	20403.5	[1000]	µg/L	07:16:08
2	V 292.402†	90555.0	93079.9	[1000]	µg/L	07:16:08
2	Zn 213.857†	50581.4	51650.0	[1000]	µg/L	07:16:08
2	Si 251.611†	179233.5	183354.4	[5000]	µg/L	07:17:12
3	Sc RADIAL	71833.3	71833.3	99.6	%	07:15:19
3	Al 396.153Radial†	53702.8	53863.2	[10000]	µg/L	07:15:14
3	Ca 317.933Radial†	69362.7	69360.8	[10000]	µg/L	07:15:19
3	Fe 238.204 Radial†	7318.0	7304.1	[10000]	µg/L	07:15:19
3	K 766.490 Radial†	37673.5	36734.0	[10000]	µg/L	07:15:14
3	Mg 279.077 IEC†	4902.4	4919.1	[10000]	µg/L	07:15:19
3	Na 589.592 Radial†	98624.6	97800.7	[10000]	µg/L	07:15:14
3	Sr 421.552†	395996.7	397440.3	[1000]	µg/L	07:15:14
3	Sc 361.383	1487823.1	1487823.1	97.336	%	07:16:35
3	Y 371.029	814753.3	814753.3	96.113	%	07:16:35
3	Ag 328.068†	175060.9	180771.4	[1000]	µg/L	07:16:41
3	As 188.979†	2377.5	2440.1	[1000]	µg/L	07:17:01
3	B 249.677†	21263.7	21760.0	[1000]	µg/L	07:16:41
3	Ba 233.527†	122406.1	125874.4	[1000]	µg/L	07:16:41
3	Be 313.107†	1883403.3	1934595.3	[1000]	µg/L	07:16:35
3	Cd 226.502†	35672.5	36681.7	[1000]	µg/L	07:16:41
3	Co 228.616†	41810.4	43017.6	[1000]	µg/L	07:16:41
3	Cr 267.716†	47041.0	48273.5	[1000]	µg/L	07:16:41
3	Cu 324.752†	324863.1	329890.6	[1000]	µg/L	07:16:35
3	Mn 257.610†	730476.9	750101.3	[1000]	µg/L	07:16:35
3	Mo 202.031†	8975.1	9234.1	[1000]	µg/L	07:16:41
3	Ni 231.604†	20585.2	20991.3	[1000]	µg/L	07:16:41
3	P 214.914†	7708.0	7752.1	[5000]	µg/L	07:16:41
3	Pb 220.353†	5067.0	5198.8	[1000]	µg/L	07:17:01
3	S 181.975 Axial†	1134.8	1136.2	[2000]	µg/L	07:17:01
3	Sb 206.836†	2613.8	2669.2	[1000]	µg/L	07:17:01
3	Se 196.026†	1357.4	1419.1	[1000]	µg/L	07:17:01
3	SiO2 †	179665.2	183867.4	[10695]	µg/L	07:16:35
3	Sn 189.927†	4490.0	4635.8	[1000]	µg/L	07:17:01
3	Ti 334.940†	988118.1	1014623.4	[1000]	µg/L	07:16:35
3	Tl 190.801†	3023.0	3135.4	[1000]	µg/L	07:17:01
3	U 409.014†	20685.0	20883.9	[1000]	µg/L	07:16:41
3	V 292.402†	91766.7	94363.9	[1000]	µg/L	07:16:41
3	Zn 213.857†	51179.3	52286.0	[1000]	µg/L	07:16:41
3	Si 251.611†	179549.1	183756.0	[5000]	µg/L	07:17:18

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1486982.3	2022.63	0.14%	97.281	%
Sc RADIAL	71432.5	359.77	0.50%	99.1	%
Y 371.029	814376.8	970.90	0.12%	96.069	%
Ag 328.068†	179861.3	1346.13	0.75%	[1000]	µg/L
Al 396.153Radial†	54019.3	199.31	0.37%	[10000]	µg/L
As 188.979†	2451.6	10.11	0.41%	[1000]	µg/L
B 249.677†	21585.4	200.62	0.93%	[1000]	µg/L
Ba 233.527†	125263.8	985.15	0.79%	[1000]	µg/L
Be 313.107†	1934063.1	1415.16	0.07%	[1000]	µg/L
Ca 317.933Radial†	69404.4	60.82	0.09%	[10000]	µg/L
Cd 226.502†	36552.5	202.54	0.55%	[1000]	µg/L
Co 228.616†	42816.8	301.57	0.70%	[1000]	µg/L
Cr 267.716†	48061.3	323.81	0.67%	[1000]	µg/L
Cu 324.752†	329576.6	452.75	0.14%	[1000]	µg/L
Fe 238.204 Radial†	7290.4	12.19	0.17%	[10000]	µg/L
K 766.490 Radial†	36918.4	181.69	0.49%	[10000]	µg/L
Mg 279.077 IEC†	4926.0	6.21	0.13%	[10000]	µg/L
Mn 257.610†	749800.1	628.53	0.08%	[1000]	µg/L
Mo 202.031†	9199.3	61.12	0.66%	[1000]	µg/L

Na 589.592 Radial†	98098.3	292.13	0.30%	[10000]	µg/L
Ni 231.604†	20959.9	112.36	0.54%	[1000]	µg/L
P 214.914†	7717.4	57.16	0.74%	[5000]	µg/L
Pb 220.353†	5205.4	8.35	0.16%	[1000]	µg/L
S 181.975 Axial†	1140.4	6.47	0.57%	[2000]	µg/L
Sb 206.836†	2668.3	6.79	0.25%	[1000]	µg/L
Se 196.026†	1420.6	6.44	0.45%	[1000]	µg/L
SiO2 †	183724.3	293.04	0.16%	[10695]	µg/L
Si 251.611†	183715.3	342.36	0.19%	[5000]	µg/L
Sn 189.927†	4630.6	4.70	0.10%	[1000]	µg/L
Sr 421.552†	398829.2	1440.36	0.36%	[1000]	µg/L
Ti 334.940†	1013903.2	1076.40	0.11%	[1000]	µg/L
Tl 190.801†	3136.0	1.43	0.05%	[1000]	µg/L
U 409.014†	20717.8	272.28	1.31%	[1000]	µg/L
V 292.402†	93886.8	702.66	0.75%	[1000]	µg/L
Zn 213.857†	52053.3	350.66	0.67%	[1000]	µg/L

Sequence No.: 5
Sample ID: S10
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 3/14/2006 07:19:30
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	70665.1	70665.1	98.0	%	07:21:24
1	Al 396.153Radial†	262572.2	267853.0	[50000]	µg/L	07:21:19
1	Ca 317.933Radial†	328140.9	334529.9	[50000]	µg/L	07:21:19
1	Fe 238.204 Radial†	13898.7	14139.4	[20000]	µg/L	07:21:24
1	Mg 279.077 IEC†	23628.9	24106.1	[50000]	µg/L	07:21:24
1	Na 589.592 Radial†	189491.4	192144.0	[20000]	µg/L	07:21:19
1	Sc 361.383	1439459.2	1439459.2	94.172	%	07:21:55
1	Y 371.029	786071.3	786071.3	92.730	%	07:21:55
2	Sc RADIAL	70004.6	70004.6	97.1	%	07:21:34
2	Al 396.153Radial†	264974.1	272854.3	[50000]	µg/L	07:21:29
2	Ca 317.933Radial†	331297.4	340939.5	[50000]	µg/L	07:21:29
2	Fe 238.204 Radial†	13734.1	14103.8	[20000]	µg/L	07:21:34
2	Mg 279.077 IEC†	23361.8	24058.5	[50000]	µg/L	07:21:34
2	Na 589.592 Radial†	191134.4	195660.2	[20000]	µg/L	07:21:29
2	Sc 361.383	1441237.1	1441237.1	94.288	%	07:22:02
2	Y 371.029	787259.6	787259.6	92.870	%	07:22:02
3	Sc RADIAL	69491.0	69491.0	96.4	%	07:21:45
3	Al 396.153Radial†	263677.3	273525.6	[50000]	µg/L	07:21:40
3	Ca 317.933Radial†	329493.5	341589.6	[50000]	µg/L	07:21:40
3	Fe 238.204 Radial†	13707.2	14180.4	[20000]	µg/L	07:21:45
3	Mg 279.077 IEC†	23325.6	24198.8	[50000]	µg/L	07:21:45
3	Na 589.592 Radial†	190254.6	196202.1	[20000]	µg/L	07:21:40
3	Sc 361.383	1447401.3	1447401.3	94.691	%	07:22:10
3	Y 371.029	790399.7	790399.7	93.240	%	07:22:10

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1442699.2	4168.01	0.29%	94.384	%
Sc RADIAL	70053.6	588.58	0.84%	97.2	%
Y 371.029	787910.2	2236.32	0.28%	92.947	%
Al 396.153Radial†	271411.0	3099.54	1.14%	[50000]	µg/L
Ca 317.933Radial†	339019.7	3901.82	1.15%	[50000]	µg/L
Fe 238.204 Radial†	14141.2	38.32	0.27%	[20000]	µg/L
Mg 279.077 IEC†	24121.2	71.35	0.30%	[50000]	µg/L
Na 589.592 Radial†	194668.7	2203.25	1.13%	[20000]	µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	179.4	0.00000	0.999985	
Al 396.153Radial	3	Lin Thru 0	0.0	5.426	0.00000	0.999995	
As 188.979	3	Lin Thru 0	0.0	2.429	0.00000	0.999832	
B 249.677	3	Lin Thru 0	0.0	21.40	0.00000	0.999852	
Ba 233.527	3	Lin Thru 0	0.0	124.3	0.00000	0.999882	
Be 313.107	3	Lin Thru 0	0.0	1918	0.00000	0.999869	
Ca 317.933Radial	3	Lin Thru 0	0.0	6.786	0.00000	0.999990	
Cd 226.502	3	Lin Thru 0	0.0	36.30	0.00000	0.999905	
Co 228.616	3	Lin Thru 0	0.0	42.52	0.00000	0.999903	
Cr 267.716	3	Lin Thru 0	0.0	47.66	0.00000	0.999861	
Cu 324.752	3	Lin Thru 0	0.0	327.1	0.00000	0.999879	
Fe 238.204 Radial	2	Lin Thru 0	0.0	0.7115	0.00000	0.999924	
K 766.490 Radial	3	Lin Thru 0	0.0	3.662	0.00000	0.999863	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.4828	0.00000	0.999992	
Mn 257.610	3	Lin Thru 0	0.0	744.2	0.00000	0.999886	
Mo 202.031	3	Lin Thru 0	0.0	9.225	0.00000	0.999985	

Na 589.592 Radial	2	Lin Thru 0	0.0	9.749	0.00000	0.999995
Ni 231.604	3	Lin Thru 0	0.0	20.84	0.00000	0.999921
P 214.914	3	Lin Thru 0	0.0	1.537	0.00000	0.999967
Pb 220.353	3	Lin Thru 0	0.0	5.170	0.00000	0.999906
S 181.975 Axial	3	Lin Thru 0	0.0	0.5691	0.00000	0.999992
Sb 206.836	3	Lin Thru 0	0.0	2.654	0.00000	0.999947
Se 196.026	3	Lin Thru 0	0.0	1.413	0.00000	0.999936
SiO2	3	Lin Thru 0	0.0	17.14	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	36.53	0.00000	0.999931
Sn 189.927	3	Lin Thru 0	0.0	4.604	0.00000	0.999938
Sr 421.552	3	Lin Thru 0	0.0	397.0	0.00000	0.999952
Ti 334.940	3	Lin Thru 0	0.0	1010	0.00000	0.999968
Tl 190.801	3	Lin Thru 0	0.0	3.114	0.00000	0.999903
U 409.014	3	Lin Thru 0	0.0	20.59	0.00000	0.999923
V 292.402	3	Lin Thru 0	0.0	93.06	0.00000	0.999847
Zn 213.857	3	Lin Thru 0	0.0	51.71	0.00000	0.999914

Sequence No.: 6
Sample ID: ICV
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 3/14/2006 07:24:20
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70485.3	70485.3	97.8	%			07:26:06
1	Al 396.153Radial†	26593.2	27164.9	4982.9	µg/L	4982.9	ppb	07:26:06
1	Ca 317.933Radial†	33818.6	34335.8	5059.5	µg/L	5059.5	ppb	07:26:26
1	Fe 238.204 Radial†	3625.6	3667.8	5155.3	µg/L	5155.3	ppb	07:26:26
1	K 766.490 Radial†	9824.7	8971.9	2450.2	µg/L	2450.2	ppb	07:26:06
1	Mg 279.077 IEC†	2505.6	2561.6	5319.0	µg/L	5319.0	ppb	07:26:26
1	Na 589.592 Radial†	24737.3	24118.1	2474.0	µg/L	2474.0	ppb	07:26:06
1	Sr 421.552†	196232.5	200712.2	505.39	µg/L	505.39	ppb	07:26:06
1	Sc 361.383	1518233.6	1518233.6	99.325	%			07:27:27
1	Y 371.029	835352.7	835352.7	98.543	%			07:27:27
1	Ag 328.068†	42384.2	43590.7	245.42	µg/L	245.42	ppb	07:27:27
1	As 188.979†	1212.1	1217.9	506.83	µg/L	506.83	ppb	07:27:48
1	B 249.677†	10750.5	10737.8	502.89	µg/L	502.89	ppb	07:27:27
1	Ba 233.527†	60616.7	61146.2	492.33	µg/L	492.33	ppb	07:27:27
1	Be 313.107†	490688.1	493659.3	257.38	µg/L	257.38	ppb	07:27:27
1	Cd 226.502†	17322.6	17473.0	480.80	µg/L	480.80	ppb	07:27:27
1	Co 228.616†	20584.6	20787.2	489.26	µg/L	489.26	ppb	07:27:27
1	Cr 267.716†	23021.7	23123.0	485.11	µg/L	485.11	ppb	07:27:27
1	Cu 324.752†	165312.6	162570.8	496.40	µg/L	496.40	ppb	07:27:27
1	Mn 257.610†	387814.9	390078.8	524.66	µg/L	524.66	ppb	07:27:27
1	Mo 202.031†	4713.5	4758.9	516.12	µg/L	516.12	ppb	07:27:48
1	Ni 231.604†	10977.9	10895.0	523.99	µg/L	523.99	ppb	07:27:48
1	P 214.914†	3836.3	3695.5	2400.3	µg/L	2400.3	ppb	07:27:48
1	Pb 220.353†	2527.8	2538.1	491.28	µg/L	491.28	ppb	07:27:48
1	S 181.975 Axial†	1426.6	1406.7	2474.9	µg/L	2474.9	ppb	07:27:48
1	Sb 206.836†	1313.5	1306.4	497.27	µg/L	497.27	ppb	07:27:48
1	Se 196.026†	3381.5	3429.1	2430	µg/L	2430	ppb	07:27:48
1	SiO2 †	179569.7	180073.9	10503	µg/L	10503	ppb	07:27:27
1	Sn 189.927†	2234.8	2272.9	494.52	µg/L	494.52	ppb	07:27:48
1	Ti 334.940†	504120.5	507003.1	501.79	µg/L	501.79	ppb	07:27:27
1	Tl 190.801†	1571.9	1612.3	517.98	µg/L	517.98	ppb	07:27:48
1	U 409.014†	11169.3	10877.9	531.02	µg/L	531.02	ppb	07:27:27
1	V 292.402†	46129.2	46527.9	506.66	µg/L	506.66	ppb	07:27:27
1	Zn 213.857†	25923.9	25805.9	497.33	µg/L	497.33	ppb	07:27:27
1	Si 251.611†	178877.8	179385.3	4910	µg/L	4910	ppb	07:28:49
2	Sc RADIAL	71655.6	71655.6	99.4	%			07:26:32
2	Al 396.153Radial†	26817.0	26945.8	4942.6	µg/L	4942.6	ppb	07:26:32
2	Ca 317.933Radial†	33933.8	33886.8	4993.3	µg/L	4993.3	ppb	07:26:52
2	Fe 238.204 Radial†	3636.6	3618.3	5085.8	µg/L	5085.8	ppb	07:26:52
2	K 766.490 Radial†	10025.7	9010.1	2460.6	µg/L	2460.6	ppb	07:26:32
2	Mg 279.077 IEC†	2520.3	2534.6	5263.0	µg/L	5263.0	ppb	07:26:52
2	Na 589.592 Radial†	24948.2	23917.1	2453.4	µg/L	2453.4	ppb	07:26:32
2	Sr 421.552†	198059.5	199272.3	501.77	µg/L	501.77	ppb	07:26:32
2	Sc 361.383	1524128.3	1524128.3	99.711	%			07:27:55
2	Y 371.029	838678.2	838678.2	98.936	%			07:27:55
2	Ag 328.068†	42198.2	43239.1	243.43	µg/L	243.43	ppb	07:27:55
2	As 188.979†	1205.9	1206.9	502.27	µg/L	502.27	ppb	07:28:15
2	B 249.677†	10748.6	10694.0	500.85	µg/L	500.85	ppb	07:27:55
2	Ba 233.527†	60389.8	60682.6	488.60	µg/L	488.60	ppb	07:27:55
2	Be 313.107†	488563.5	489617.8	255.28	µg/L	255.28	ppb	07:27:55
2	Cd 226.502†	17254.9	17337.7	477.08	µg/L	477.08	ppb	07:27:55
2	Co 228.616†	20530.0	20652.2	486.09	µg/L	486.09	ppb	07:27:55
2	Cr 267.716†	22955.5	22967.0	481.84	µg/L	481.84	ppb	07:27:55
2	Cu 324.752†	164660.6	161273.1	492.44	µg/L	492.44	ppb	07:27:55
2	Mn 257.610†	386539.9	387290.0	520.91	µg/L	520.91	ppb	07:27:55
2	Mo 202.031†	4712.4	4739.4	514.00	µg/L	514.00	ppb	07:28:15
2	Ni 231.604†	10970.0	10844.4	521.55	µg/L	521.55	ppb	07:28:15
2	P 214.914†	3849.9	3694.2	2399.5	µg/L	2399.5	ppb	07:28:15

2	Pb 220.353†	2536.5	2537.0	491.06 µg/L	491.06 ppb	07:28:15
2	S 181.975 Axial†	1420.2	1394.7	2453.9 µg/L	2453.9 ppb	07:28:15
2	Sb 206.836†	1317.6	1305.3	496.86 µg/L	496.86 ppb	07:28:15
2	Se 196.026†	3379.8	3414.2	2420 µg/L	2420 ppb	07:28:15
2	SiO2 †	179057.5	178861.0	10432 µg/L	10432 ppb	07:27:55
2	Sn 189.927†	2231.7	2261.0	491.93 µg/L	491.93 ppb	07:28:15
2	Ti 334.940†	501989.0	502902.4	497.73 µg/L	497.73 ppb	07:27:55
2	Tl 190.801†	1572.0	1606.2	516.05 µg/L	516.05 ppb	07:28:15
2	U 409.014†	11051.5	10716.3	523.15 µg/L	523.15 ppb	07:27:55
2	V 292.402†	45959.0	46177.6	502.86 µg/L	502.86 ppb	07:27:55
2	Zn 213.857†	25792.2	25572.8	492.84 µg/L	492.84 ppb	07:27:55
2	Si 251.611†	178741.1	178551.7	4890 µg/L	4890 ppb	07:28:54
3	Sc RADIAL	71523.8	71523.8	99.2 %		07:26:57
3	Al 396.153Radial†	26854.4	27033.2	4958.8 µg/L	4958.8 ppb	07:26:57
3	Ca 317.933Radial†	34051.9	34068.7	5020.1 µg/L	5020.1 ppb	07:27:17
3	Fe 238.204 Radial†	3659.3	3648.0	5127.5 µg/L	5127.5 ppb	07:27:17
3	K 766.490 Radial†	10003.1	9005.8	2459.5 µg/L	2459.5 ppb	07:26:57
3	Mg 279.077 IEC†	2523.2	2542.2	5278.6 µg/L	5278.6 ppb	07:27:17
3	Na 589.592 Radial†	24957.0	23972.2	2459.0 µg/L	2459.0 ppb	07:26:57
3	Sr 421.552†	198591.8	200176.1	504.04 µg/L	504.04 ppb	07:26:57
3	Sc 361.383	1526569.8	1526569.8	99.870 %		07:28:22
3	Y 371.029	840017.5	840017.5	99.094 %		07:28:22
3	Ag 328.068†	41815.8	42788.6	240.92 µg/L	240.92 ppb	07:28:22
3	As 188.979†	1201.2	1200.3	499.49 µg/L	499.49 ppb	07:28:43
3	B 249.677†	10615.7	10543.7	493.79 µg/L	493.79 ppb	07:28:22
3	Ba 233.527†	59823.8	60019.0	483.25 µg/L	483.25 ppb	07:28:22
3	Be 313.107†	483664.9	483929.2	252.31 µg/L	252.31 ppb	07:28:22
3	Cd 226.502†	17116.2	17171.1	472.49 µg/L	472.49 ppb	07:28:22
3	Co 228.616†	20357.9	20447.0	481.26 µg/L	481.26 ppb	07:28:22
3	Cr 267.716†	22746.7	22721.1	476.67 µg/L	476.67 ppb	07:28:22
3	Cu 324.752†	162921.6	159267.7	486.31 µg/L	486.31 ppb	07:28:22
3	Mn 257.610†	382689.2	382814.3	514.90 µg/L	514.90 ppb	07:28:22
3	Mo 202.031†	4698.7	4718.1	511.70 µg/L	511.70 ppb	07:28:43
3	Ni 231.604†	10974.3	10831.1	520.91 µg/L	520.91 ppb	07:28:43
3	P 214.914†	3825.1	3663.2	2379.2 µg/L	2379.2 ppb	07:28:43
3	Pb 220.353†	2517.9	2514.3	486.67 µg/L	486.67 ppb	07:28:43
3	S 181.975 Axial†	1427.8	1400.0	2463.1 µg/L	2463.1 ppb	07:28:43
3	Sb 206.836†	1322.1	1307.7	497.74 µg/L	497.74 ppb	07:28:43
3	Se 196.026†	3372.7	3401.7	2410 µg/L	2410 ppb	07:28:43
3	SiO2 †	177107.7	176621.5	10302 µg/L	10302 ppb	07:28:22
3	Sn 189.927†	2220.9	2246.6	488.82 µg/L	488.82 ppb	07:28:43
3	Ti 334.940†	496661.0	496762.3	491.65 µg/L	491.65 ppb	07:28:22
3	Tl 190.801†	1563.4	1595.0	512.44 µg/L	512.44 ppb	07:28:43
3	U 409.014†	10945.0	10591.9	517.08 µg/L	517.08 ppb	07:28:22
3	V 292.402†	45518.9	45663.2	497.29 µg/L	497.29 ppb	07:28:22
3	Zn 213.857†	25514.2	25253.1	486.66 µg/L	486.66 ppb	07:28:22
3	Si 251.611†	178055.6	177578.6	4860 µg/L	4860 ppb	07:29:00

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1522977.2	99.635	%	0.2804				0.28%
Sc RADIAL	71221.5	98.8	%	0.89				0.90%
Y 371.029	838016.1	98.858	%	0.2833				0.29%
Ag 328.068†	43206.1	243.26	µg/L	2.256	243.26	ppb	2.256	0.93%
QC value within limits for Ag 328.068 Recovery = 97.30%								
Al 396.153Radial†	27047.9	4961.4	µg/L	20.27	4961.4	ppb	20.27	0.41%
QC value within limits for Al 396.153Radial Recovery = 99.23%								
As 188.979†	1208.4	502.86	µg/L	3.703	502.86	ppb	3.703	0.74%
QC value within limits for As 188.979 Recovery = 100.57%								
B 249.677†	10658.5	499.18	µg/L	4.773	499.18	ppb	4.773	0.96%
QC value within limits for B 249.677 Recovery = 99.84%								
Ba 233.527†	60615.9	488.06	µg/L	4.562	488.06	ppb	4.562	0.93%
QC value within limits for Ba 233.527 Recovery = 97.61%								
Be 313.107†	489068.7	254.99	µg/L	2.549	254.99	ppb	2.549	1.00%
QC value within limits for Be 313.107 Recovery = 102.00%								
Ca 317.933Radial†	34097.1	5024.3	µg/L	33.28	5024.3	ppb	33.28	0.66%
QC value within limits for Ca 317.933Radial Recovery = 100.49%								
Cd 226.502†	17327.3	476.79	µg/L	4.164	476.79	ppb	4.164	0.87%
QC value within limits for Cd 226.502 Recovery = 95.36%								

Co 228.616†	20628.8	485.54 µg/L	4.028	485.54 ppb	4.028	0.83%
QC value within limits for Co 228.616 Recovery = 97.11%						
Cr 267.716†	22937.0	481.21 µg/L	4.253	481.21 ppb	4.253	0.88%
QC value within limits for Cr 267.716 Recovery = 96.24%						
Cu 324.752†	161037.2	491.72 µg/L	5.080	491.72 ppb	5.080	1.03%
QC value within limits for Cu 324.752 Recovery = 98.34%						
Fe 238.204 Radial†	3644.7	5122.9 µg/L	34.97	5122.9 ppb	34.97	0.68%
QC value within limits for Fe 238.204 Radial Recovery = 102.46%						
K 766.490 Radial†	8995.9	2456.8 µg/L	5.71	2456.8 ppb	5.71	0.23%
QC value within limits for K 766.490 Radial Recovery = 98.27%						
Mg 279.077 IEC†	2546.1	5286.9 µg/L	28.91	5286.9 ppb	28.91	0.55%
QC value within limits for Mg 279.077 IEC Recovery = 105.74%						
Mn 257.610†	386727.7	520.15 µg/L	4.925	520.15 ppb	4.925	0.95%
QC value within limits for Mn 257.610 Recovery = 104.03%						
Mo 202.031†	4738.8	513.94 µg/L	2.213	513.94 ppb	2.213	0.43%
QC value within limits for Mo 202.031 Recovery = 102.79%						
Na 589.592 Radial†	24002.5	2462.1 µg/L	10.65	2462.1 ppb	10.65	0.43%
QC value within limits for Na 589.592 Radial Recovery = 98.48%						
Ni 231.604†	10856.8	522.15 µg/L	1.624	522.15 ppb	1.624	0.31%
QC value within limits for Ni 231.604 Recovery = 104.43%						
P 214.914†	3684.3	2393.0 µg/L	11.94	2393.0 ppb	11.94	0.50%
QC value within limits for P 214.914 Recovery = 95.72%						
Pb 220.353†	2529.8	489.67 µg/L	2.598	489.67 ppb	2.598	0.53%
QC value within limits for Pb 220.353 Recovery = 97.93%						
S 181.975 Axial†	1400.5	2463.9 µg/L	10.54	2463.9 ppb	10.54	0.43%
QC value within limits for S 181.975 Axial Recovery = 98.56%						
Sb 206.836†	1306.5	497.29 µg/L	0.440	497.29 ppb	0.440	0.09%
QC value within limits for Sb 206.836 Recovery = 99.46%						
Se 196.026†	3415.0	2420 µg/L	9.7	2420 ppb	9.7	0.40%
QC value within limits for Se 196.026 Recovery = 96.73%						
SiO2 †	178518.8	10413 µg/L	102.2	10413 ppb	102.2	0.98%
QC value within limits for SiO2 Recovery = 97.36%						
Si 251.611†	178505.2	4890 µg/L	24.8	4890 ppb	24.8	0.51%
QC value within limits for Si 251.611 Recovery = 97.74%						
Sn 189.927†	2260.2	491.75 µg/L	2.855	491.75 ppb	2.855	0.58%
QC value within limits for Sn 189.927 Recovery = 98.35%						
Sr 421.552†	200053.5	503.74 µg/L	1.832	503.74 ppb	1.832	0.36%
QC value within limits for Sr 421.552 Recovery = 100.75%						
Ti 334.940†	502222.6	497.06 µg/L	5.101	497.06 ppb	5.101	1.03%
QC value within limits for Ti 334.940 Recovery = 99.41%						
Tl 190.801†	1604.5	515.49 µg/L	2.810	515.49 ppb	2.810	0.55%
QC value within limits for Tl 190.801 Recovery = 103.10%						
U 409.014†	10728.7	523.75 µg/L	6.991	523.75 ppb	6.991	1.33%
QC value within limits for U 409.014 Recovery = 104.75%						
V 292.402†	46122.9	502.27 µg/L	4.712	502.27 ppb	4.712	0.94%
QC value within limits for V 292.402 Recovery = 100.45%						
Zn 213.857†	25543.9	492.28 µg/L	5.355	492.28 ppb	5.355	1.09%
QC value within limits for Zn 213.857 Recovery = 98.46%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 3/14/2006 07:31:09
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72519.6	72519.6	101	%			07:32:56
1	Al 396.153Radial†	97.2	60.5	11.093	µg/L	11.093	ppb	07:32:56
1	Ca 317.933Radial†	265.6	8.5	1.2471	µg/L	1.2471	ppb	07:33:16
1	Fe 238.204 Radial†	42.7	1.7	2.4403	µg/L	2.4403	ppb	07:33:16
1	K 766.490 Radial†	1116.9	33.1	9.0406	µg/L	9.0406	ppb	07:32:56
1	Mg 279.077 IEC†	1.7	0.5	1.0236	µg/L	1.0236	ppb	07:33:16
1	Na 589.592 Radial†	1077.5	-113.3	-11.624	µg/L	-11.624	ppb	07:32:56
1	Sr 421.552†	3.7	-0.9	-0.0023	µg/L	-0.0023	ppb	07:32:56
1	Sc 361.383	1533925.3	1533925.3	100.35	%			07:34:14
1	Y 371.029	849342.8	849342.8	100.19	%			07:34:14
1	Ag 328.068†	-849.7	71.8	0.4011	µg/L	0.4011	ppb	07:34:20
1	As 188.979†	-4.5	-6.9	-2.8536	µg/L	-2.8536	ppb	07:34:40
1	B 249.677†	212.0	125.5	5.8677	µg/L	5.8677	ppb	07:34:40
1	Ba 233.527†	-107.9	10.1	0.0812	µg/L	0.0812	ppb	07:34:40
1	Be 313.107†	396.3	31.8	0.0166	µg/L	0.0166	ppb	07:34:20
1	Cd 226.502†	-33.6	-0.8	-0.0223	µg/L	-0.0223	ppb	07:34:40
1	Co 228.616†	-62.5	0.5	0.0130	µg/L	0.0130	ppb	07:34:40
1	Cr 267.716†	46.6	-8.7	-0.1823	µg/L	-0.1823	ppb	07:34:40
1	Cu 324.752†	3879.8	1.1	0.0013	µg/L	0.0013	ppb	07:34:20
1	Mn 257.610†	393.0	20.4	0.0277	µg/L	0.0277	ppb	07:34:40
1	Mo 202.031†	-0.3	13.1	1.4193	µg/L	1.4193	ppb	07:34:40
1	Ni 231.604†	154.9	-3.1	-0.1434	µg/L	-0.1434	ppb	07:34:40
1	P 214.914†	169.3	1.9	1.1884	µg/L	1.1884	ppb	07:34:40
1	Pb 220.353†	5.2	-1.7	-0.3232	µg/L	-0.3232	ppb	07:34:40
1	S 181.975 Axial†	28.2	-1.5	-2.6673	µg/L	-2.6673	ppb	07:34:40
1	Sb 206.836†	29.6	13.4	5.0531	µg/L	5.0531	ppb	07:34:40
1	Se 196.026†	-16.6	8.1	5.73	µg/L	5.73	ppb	07:34:40
1	SiO2 †	816.6	97.8	5.7068	µg/L	5.7068	ppb	07:34:40
1	Sn 189.927†	-22.6	0.3	0.0668	µg/L	0.0668	ppb	07:34:40
1	Ti 334.940†	646.6	101.4	0.1006	µg/L	0.1006	ppb	07:34:20
1	Tl 190.801†	-29.3	0.4	0.1297	µg/L	0.1297	ppb	07:34:40
1	U 409.014†	393.7	25.1	1.2169	µg/L	1.2169	ppb	07:34:20
1	V 292.402†	-89.2	-3.6	-0.0246	µg/L	-0.0246	ppb	07:34:20
1	Zn 213.857†	313.9	18.6	0.3603	µg/L	0.3603	ppb	07:34:40
1	Si 251.611†	784.6	73.9	2.02	µg/L	2.02	ppb	07:36:02
2	Sc RADIAL	72242.6	72242.6	100	%			07:33:21
2	Al 396.153Radial†	42.3	6.1	1.1008	µg/L	1.1008	ppb	07:33:21
2	Ca 317.933Radial†	271.4	15.3	2.2583	µg/L	2.2583	ppb	07:33:41
2	Fe 238.204 Radial†	41.1	0.4	0.5476	µg/L	0.5476	ppb	07:33:41
2	K 766.490 Radial†	1050.1	-29.4	-8.0178	µg/L	-8.0178	ppb	07:33:21
2	Mg 279.077 IEC†	8.1	6.9	14.280	µg/L	14.280	ppb	07:33:41
2	Na 589.592 Radial†	1000.8	-185.7	-19.053	µg/L	-19.053	ppb	07:33:21
2	Sr 421.552†	16.3	11.6	0.0292	µg/L	0.0292	ppb	07:33:21
2	Sc 361.383	1541658.7	1541658.7	100.86	%			07:34:45
2	Y 371.029	854001.6	854001.6	100.74	%			07:34:45
2	Ag 328.068†	-868.4	57.6	0.3216	µg/L	0.3216	ppb	07:34:50
2	As 188.979†	4.4	1.9	0.7915	µg/L	0.7915	ppb	07:35:11
2	B 249.677†	208.0	120.5	5.6336	µg/L	5.6336	ppb	07:35:11
2	Ba 233.527†	-122.4	-3.7	-0.0294	µg/L	-0.0294	ppb	07:35:11
2	Be 313.107†	356.0	-10.0	-0.0053	µg/L	-0.0053	ppb	07:34:50
2	Cd 226.502†	-34.6	-1.5	-0.0426	µg/L	-0.0426	ppb	07:35:11
2	Co 228.616†	-60.5	2.7	0.0644	µg/L	0.0644	ppb	07:35:11
2	Cr 267.716†	48.1	-7.4	-0.1556	µg/L	-0.1556	ppb	07:35:11
2	Cu 324.752†	3784.1	-113.2	-0.3471	µg/L	-0.3471	ppb	07:34:50
2	Mn 257.610†	412.6	37.8	0.0509	µg/L	0.0509	ppb	07:35:11
2	Mo 202.031†	-7.7	5.7	0.6190	µg/L	0.6190	ppb	07:35:11
2	Ni 231.604†	163.6	4.7	0.2293	µg/L	0.2293	ppb	07:35:11
2	P 214.914†	168.1	-0.1	-0.0862	µg/L	-0.0862	ppb	07:35:11

2	Pb 220.353†	10.4	3.4	0.6602 µg/L	0.6602 ppb	07:35:11
2	S 181.975 Axial†	30.0	0.1	0.1644 µg/L	0.1644 ppb	07:35:11
2	Sb 206.836†	24.5	8.2	3.1029 µg/L	3.1029 ppb	07:35:11
2	Se 196.026†	-23.0	1.8	1.28 µg/L	1.28 ppb	07:35:11
2	SiO2 †	794.9	72.2	4.2135 µg/L	4.2135 ppb	07:35:11
2	Sn 189.927†	-26.6	-3.5	-0.7548 µg/L	-0.7548 ppb	07:35:11
2	Ti 334.940†	641.7	93.4	0.0924 µg/L	0.0924 ppb	07:34:50
2	Tl 190.801†	-20.0	9.8	3.1468 µg/L	3.1468 ppb	07:35:11
2	U 409.014†	385.5	14.9	0.7263 µg/L	0.7263 ppb	07:34:50
2	V 292.402†	-66.6	19.3	0.2136 µg/L	0.2136 ppb	07:34:50
2	Zn 213.857†	315.3	18.5	0.3577 µg/L	0.3577 ppb	07:35:11
2	Si 251.611†	780.1	65.5	1.79 µg/L	1.79 ppb	07:36:23
3	Sc RADIAL	72039.1	72039.1	99.9 %		07:33:46
3	Al 396.153Radial†	30.8	-5.2	-0.9789 µg/L	-0.9789 ppb	07:33:46
3	Ca 317.933Radial†	260.6	5.3	0.7752 µg/L	0.7752 ppb	07:34:06
3	Fe 238.204 Radial†	40.9	0.3	0.3628 µg/L	0.3628 ppb	07:34:06
3	K 766.490 Radial†	1064.2	-12.2	-3.3403 µg/L	-3.3403 ppb	07:33:46
3	Mg 279.077 IEC†	5.1	3.9	8.0309 µg/L	8.0309 ppb	07:34:06
3	Na 589.592 Radial†	957.6	-226.1	-23.194 µg/L	-23.194 ppb	07:33:46
3	Sr 421.552†	-22.0	-26.6	-0.0670 µg/L	-0.0670 ppb	07:33:46
3	Sc 361.383	1537221.8	1537221.8	100.57 %		07:35:16
3	Y 371.029	851283.5	851283.5	100.42 %		07:35:16
3	Ag 328.068†	-823.9	99.3	0.5532 µg/L	0.5532 ppb	07:35:21
3	As 188.979†	-1.8	-4.2	-1.7142 µg/L	-1.7142 ppb	07:35:42
3	B 249.677†	209.5	122.6	5.7305 µg/L	5.7305 ppb	07:35:42
3	Ba 233.527†	-111.7	6.5	0.0525 µg/L	0.0525 ppb	07:35:42
3	Be 313.107†	373.9	8.8	0.0046 µg/L	0.0046 ppb	07:35:21
3	Cd 226.502†	-34.7	-1.7	-0.0479 µg/L	-0.0479 ppb	07:35:42
3	Co 228.616†	-52.3	10.7	0.2528 µg/L	0.2528 ppb	07:35:42
3	Cr 267.716†	55.3	-0.1	-0.0017 µg/L	-0.0017 ppb	07:35:42
3	Cu 324.752†	3841.3	-45.5	-0.1374 µg/L	-0.1374 ppb	07:35:21
3	Mn 257.610†	380.4	7.0	0.0094 µg/L	0.0094 ppb	07:35:42
3	Mo 202.031†	-9.3	4.1	0.4437 µg/L	0.4437 ppb	07:35:42
3	Ni 231.604†	156.3	-2.0	-0.0951 µg/L	-0.0951 ppb	07:35:42
3	P 214.914†	164.2	-3.6	-2.3440 µg/L	-2.3440 ppb	07:35:42
3	Pb 220.353†	8.6	1.7	0.3284 µg/L	0.3284 ppb	07:35:42
3	S 181.975 Axial†	26.6	-3.2	-5.6076 µg/L	-5.6076 ppb	07:35:42
3	Sb 206.836†	32.2	15.9	5.9933 µg/L	5.9933 ppb	07:35:42
3	Se 196.026†	-20.9	3.8	2.71 µg/L	2.71 ppb	07:35:42
3	SiO2 †	791.2	70.8	4.1316 µg/L	4.1316 ppb	07:35:42
3	Sn 189.927†	-25.0	-2.0	-0.4345 µg/L	-0.4345 ppb	07:35:42
3	Ti 334.940†	597.6	51.3	0.0509 µg/L	0.0509 ppb	07:35:21
3	Tl 190.801†	-25.7	4.1	1.3013 µg/L	1.3013 ppb	07:35:42
3	U 409.014†	325.8	-43.3	-2.1037 µg/L	-2.1037 ppb	07:35:21
3	V 292.402†	-98.1	-12.3	-0.1297 µg/L	-0.1297 ppb	07:35:21
3	Zn 213.857†	303.2	7.3	0.1403 µg/L	0.1403 ppb	07:35:42
3	Si 251.611†	770.1	57.8	1.58 µg/L	1.58 ppb	07:36:43

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1537601.9	100.59	%	0.254				0.25%
Sc RADIAL	72267.1	100	%	0.3				0.33%
Y 371.029	851542.6	100.45	%	0.276				0.27%
Ag 328.068†	76.2	0.4253	µg/L	0.11770	0.4253	ppb	0.11770	27.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	20.5	3.7384	µg/L	6.45379	3.7384	ppb	6.45379	172.64%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.1	-1.2587	µg/L	1.86471	-1.2587	ppb	1.86471	148.14%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	122.9	5.7440	µg/L	0.11761	5.7440	ppb	0.11761	2.05%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.3	0.0348	µg/L	0.05740	0.0348	ppb	0.05740	165.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	10.2	0.0053	µg/L	0.01093	0.0053	ppb	0.01093	206.45%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	9.7	1.4269	µg/L	0.75776	1.4269	ppb	0.75776	53.11%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	-1.4	-0.0376	µg/L	0.01351	-0.0376	ppb	0.01351	35.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								

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Co 228.616†                 4.6      0.1101 µg/L       0.12628      0.1101 ppb        0.12628 114.72%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†                -5.4     -0.1132 µg/L       0.09748     -0.1132 ppb        0.09748  86.13%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               -52.6     -0.1611 µg/L       0.17540     -0.1611 ppb        0.17540 108.88%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204 Radial†          0.8      1.1169 µg/L       1.14981      1.1169 ppb        1.14981 102.95%
   QC value within limits for Fe 238.204 Radial  Recovery = Not calculated
K 766.490 Radial†          -2.8     -0.7725 µg/L       8.81432     -0.7725 ppb        8.81432 >999.9%
   QC value within limits for K 766.490 Radial  Recovery = Not calculated
Mg 279.077 IEC†             3.7      7.7782 µg/L       6.63180      7.7782 ppb        6.63180  85.26%
   QC value within limits for Mg 279.077 IEC  Recovery = Not calculated
Mn 257.610†                21.7      0.0293 µg/L       0.02080      0.0293 ppb        0.02080  70.92%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                 7.6      0.8274 µg/L       0.52011      0.8274 ppb        0.52011  62.86%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592 Radial†       -175.1     -17.957 µg/L        5.8623     -17.957 ppb         5.8623  32.65%
   QC value within limits for Na 589.592 Radial  Recovery = Not calculated
Ni 231.604†                -0.1     -0.0030 µg/L       0.20265     -0.0030 ppb        0.20265 >999.9%
   QC value within limits for Ni 231.604  Recovery = Not calculated
P 214.914†                 -0.6     -0.4139 µg/L       1.78889     -0.4139 ppb        1.78889 432.17%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†                 1.1      0.2218 µg/L       0.50031      0.2218 ppb        0.50031 225.58%
   QC value within limits for Pb 220.353  Recovery = Not calculated
S 181.975 Axial†           -1.5     -2.7035 µg/L       2.88613     -2.7035 ppb        2.88613 106.76%
   QC value within limits for S 181.975 Axial  Recovery = Not calculated
Sb 206.836†                12.5      4.7164 µg/L       1.47429      4.7164 ppb        1.47429  31.26%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                 4.6        3.24 µg/L         2.274        3.24 ppb          2.274  70.19%
   QC value within limits for Se 196.026  Recovery = Not calculated
SiO2 †                     80.3      4.6840 µg/L       0.88674      4.6840 ppb        0.88674  18.93%
   QC value within limits for SiO2   Recovery = Not calculated
Si 251.611†                65.7        1.80 µg/L         0.220        1.80 ppb          0.220  12.24%
   QC value within limits for Si 251.611  Recovery = Not calculated
Sn 189.927†                -1.7     -0.3741 µg/L       0.41411     -0.3741 ppb        0.41411 110.68%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 421.552†                -5.3     -0.0134 µg/L       0.04904     -0.0134 ppb        0.04904 367.02%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Ti 334.940†                82.1      0.0813 µg/L       0.02662      0.0813 ppb        0.02662  32.74%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Tl 190.801†                 4.8      1.5260 µg/L       1.52102      1.5260 ppb        1.52102  99.68%
   QC value within limits for Tl 190.801  Recovery = Not calculated
U 409.014†                 -1.1     -0.0535 µg/L       1.79240     -0.0535 ppb        1.79240 >999.9%
   QC value within limits for U 409.014  Recovery = Not calculated
V 292.402†                  1.1      0.0197 µg/L       0.17589      0.0197 ppb        0.17589 891.48%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†                14.8      0.2861 µg/L       0.12625      0.2861 ppb        0.12625  44.13%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analyte(s) passed QC.
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Sequence No.: 8
Sample ID: PQL
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 3/14/2006 07:38:51
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71701.8	71701.8	99.5	%			07:40:38
1	Al 396.153Radial†	1147.3	1117.6	205.47	µg/L	205.47	ppb	07:40:38
1	Ca 317.933Radial†	971.5	721.3	106.28	µg/L	106.28	ppb	07:40:58
1	Fe 238.204 Radial†	118.6	78.5	110.40	µg/L	110.40	ppb	07:40:58
1	K 766.490 Radial†	1580.8	512.2	139.88	µg/L	139.88	ppb	07:40:38
1	Mg 279.077 IEC†	165.0	164.7	341.43	µg/L	341.43	ppb	07:40:58
1	Na 589.592 Radial†	2523.6	1353.0	138.79	µg/L	138.79	ppb	07:40:38
1	Sr 421.552†	1965.7	1971.9	4.9638	µg/L	4.9638	ppb	07:40:38
1	Sc 361.383	1522566.0	1522566.0	99.609	%			07:41:56
1	Y 371.029	843293.9	843293.9	99.480	%			07:41:56
1	Ag 328.068†	52.0	970.7	5.4488	µg/L	5.4488	ppb	07:42:02
1	As 188.979†	36.6	34.4	14.213	µg/L	14.213	ppb	07:42:22
1	B 249.677†	1215.8	1134.8	53.042	µg/L	53.042	ppb	07:42:02
1	Ba 233.527†	518.7	638.3	5.1399	µg/L	5.1399	ppb	07:42:22
1	Be 313.107†	9713.5	9388.7	4.8947	µg/L	4.8947	ppb	07:42:02
1	Cd 226.502†	149.3	182.6	5.0193	µg/L	5.0193	ppb	07:42:22
1	Co 228.616†	162.5	225.9	5.3249	µg/L	5.3249	ppb	07:42:22
1	Cr 267.716†	300.4	246.5	5.1530	µg/L	5.1530	ppb	07:42:22
1	Cu 324.752†	7261.4	3424.8	10.416	µg/L	10.416	ppb	07:42:02
1	Mn 257.610†	8204.2	7865.2	10.579	µg/L	10.579	ppb	07:42:02
1	Mo 202.031†	88.7	102.4	11.108	µg/L	11.108	ppb	07:42:22
1	Ni 231.604†	265.8	109.4	5.2741	µg/L	5.2741	ppb	07:42:22
1	P 214.914†	385.6	220.3	143.25	µg/L	143.25	ppb	07:42:22
1	Pb 220.353†	60.1	53.4	10.362	µg/L	10.362	ppb	07:42:22
1	S 181.975 Axial†	84.1	54.8	96.354	µg/L	96.354	ppb	07:42:22
1	Sb 206.836†	51.0	35.1	13.317	µg/L	13.317	ppb	07:42:22
1	Se 196.026†	-2.8	21.8	15.6	µg/L	15.6	ppb	07:42:22
1	SiO2 †	4364.3	3665.6	213.80	µg/L	213.80	ppb	07:42:02
1	Sn 189.927†	23.7	46.7	10.172	µg/L	10.172	ppb	07:42:22
1	Ti 334.940†	5601.8	5081.0	5.0301	µg/L	5.0301	ppb	07:42:02
1	Tl 190.801†	33.7	63.4	20.374	µg/L	20.374	ppb	07:42:22
1	U 409.014†	1423.8	1062.1	51.605	µg/L	51.605	ppb	07:42:02
1	V 292.402†	328.0	414.6	4.6306	µg/L	4.6306	ppb	07:42:02
1	Zn 213.857†	836.4	545.5	10.511	µg/L	10.511	ppb	07:42:22
1	Si 251.611†	4320.0	3629.0	99.4	µg/L	99.4	ppb	07:43:29
2	Sc RADIAL	71587.5	71587.5	99.3	%			07:41:03
2	Al 396.153Radial†	1133.4	1105.4	203.26	µg/L	203.26	ppb	07:41:03
2	Ca 317.933Radial†	964.8	716.0	105.51	µg/L	105.51	ppb	07:41:23
2	Fe 238.204 Radial†	114.9	75.0	105.44	µg/L	105.44	ppb	07:41:23
2	K 766.490 Radial†	1665.9	600.4	163.97	µg/L	163.97	ppb	07:41:03
2	Mg 279.077 IEC†	158.7	158.6	328.77	µg/L	328.77	ppb	07:41:23
2	Na 589.592 Radial†	2544.9	1378.5	141.40	µg/L	141.40	ppb	07:41:03
2	Sr 421.552†	2013.1	2022.7	5.0917	µg/L	5.0917	ppb	07:41:03
2	Sc 361.383	1566405.5	1566405.5	102.48	%			07:42:27
2	Y 371.029	867520.4	867520.4	102.34	%			07:42:27
2	Ag 328.068†	-55.3	864.6	4.8558	µg/L	4.8558	ppb	07:42:33
2	As 188.979†	39.4	36.1	14.908	µg/L	14.908	ppb	07:42:53
2	B 249.677†	1226.6	1111.2	51.939	µg/L	51.939	ppb	07:42:33
2	Ba 233.527†	534.2	638.9	5.1447	µg/L	5.1447	ppb	07:42:53
2	Be 313.107†	9641.4	9045.4	4.7158	µg/L	4.7158	ppb	07:42:33
2	Cd 226.502†	143.9	173.1	4.7581	µg/L	4.7581	ppb	07:42:53
2	Co 228.616†	159.1	218.0	5.1368	µg/L	5.1368	ppb	07:42:53
2	Cr 267.716†	298.1	235.8	4.9286	µg/L	4.9286	ppb	07:42:53
2	Cu 324.752†	7233.5	3193.5	9.7127	µg/L	9.7127	ppb	07:42:33
2	Mn 257.610†	8083.7	7517.1	10.111	µg/L	10.111	ppb	07:42:33
2	Mo 202.031†	82.9	94.3	10.224	µg/L	10.224	ppb	07:42:53
2	Ni 231.604†	266.4	102.6	4.9454	µg/L	4.9454	ppb	07:42:53
2	P 214.914†	394.5	218.1	141.80	µg/L	141.80	ppb	07:42:53

2	Pb 220.353†	62.3	53.9	10.453 µg/L	10.453 ppb	07:42:53
2	S 181.975 Axial†	88.5	56.8	99.800 µg/L	99.800 ppb	07:42:53
2	Sb 206.836†	55.2	37.8	14.330 µg/L	14.330 ppb	07:42:53
2	Se 196.026†	2.5	27.0	19.3 µg/L	19.3 ppb	07:42:53
2	SiO2 †	4364.2	3542.8	206.64 µg/L	206.64 ppb	07:42:33
2	Sn 189.927†	17.3	39.7	8.6600 µg/L	8.6600 ppb	07:42:53
2	Ti 334.940†	5566.5	4889.2	4.8402 µg/L	4.8402 ppb	07:42:33
2	Tl 190.801†	38.0	66.7	21.435 µg/L	21.435 ppb	07:42:53
2	U 409.014†	1398.1	997.0	48.444 µg/L	48.444 ppb	07:42:33
2	V 292.402†	333.5	410.7	4.5764 µg/L	4.5764 ppb	07:42:33
2	Zn 213.857†	842.4	527.8	10.172 µg/L	10.172 ppb	07:42:53
2	Si 251.611†	4327.7	3515.2	96.2 µg/L	96.2 ppb	07:43:35
3	Sc RADIAL	72143.7	72143.7	100 %		07:41:28
3	Al 396.153Radial†	1128.9	1092.1	200.78 µg/L	200.78 ppb	07:41:28
3	Ca 317.933Radial†	974.5	718.3	105.84 µg/L	105.84 ppb	07:41:48
3	Fe 238.204 Radial†	117.3	76.5	107.56 µg/L	107.56 ppb	07:41:48
3	K 766.490 Radial†	1652.8	574.4	156.87 µg/L	156.87 ppb	07:41:28
3	Mg 279.077 IEC†	161.6	160.3	332.33 µg/L	332.33 ppb	07:41:48
3	Na 589.592 Radial†	2598.3	1412.1	144.85 µg/L	144.85 ppb	07:41:28
3	Sr 421.552†	1990.2	1984.2	4.9948 µg/L	4.9948 ppb	07:41:28
3	Sc 361.383	1544067.4	1544067.4	101.02 %		07:42:58
3	Y 371.029	855179.9	855179.9	100.88 %		07:42:58
3	Ag 328.068†	38.5	956.6	5.3702 µg/L	5.3702 ppb	07:43:03
3	As 188.979†	31.9	29.1	12.056 µg/L	12.056 ppb	07:43:24
3	B 249.677†	1223.9	1125.9	52.624 µg/L	52.624 ppb	07:43:03
3	Ba 233.527†	526.2	638.6	5.1422 µg/L	5.1422 ppb	07:43:24
3	Be 313.107†	9723.1	9262.3	4.8289 µg/L	4.8289 ppb	07:43:03
3	Cd 226.502†	151.2	182.4	5.0129 µg/L	5.0129 ppb	07:43:24
3	Co 228.616†	165.7	226.8	5.3452 µg/L	5.3452 ppb	07:43:24
3	Cr 267.716†	298.5	240.4	5.0252 µg/L	5.0252 ppb	07:43:24
3	Cu 324.752†	7234.5	3296.7	10.024 µg/L	10.024 ppb	07:43:03
3	Mn 257.610†	8222.0	7768.1	10.449 µg/L	10.449 ppb	07:43:03
3	Mo 202.031†	86.5	99.0	10.733 µg/L	10.733 ppb	07:43:24
3	Ni 231.604†	261.5	101.4	4.8919 µg/L	4.8919 ppb	07:43:24
3	P 214.914†	389.2	218.5	142.04 µg/L	142.04 ppb	07:43:24
3	Pb 220.353†	60.1	52.6	10.197 µg/L	10.197 ppb	07:43:24
3	S 181.975 Axial†	83.0	52.6	92.410 µg/L	92.410 ppb	07:43:24
3	Sb 206.836†	49.7	33.1	12.585 µg/L	12.585 ppb	07:43:24
3	Se 196.026†	-6.0	18.7	13.4 µg/L	13.4 ppb	07:43:24
3	SiO2 †	4373.3	3613.5	210.76 µg/L	210.76 ppb	07:43:03
3	Sn 189.927†	19.9	42.6	9.2707 µg/L	9.2707 ppb	07:43:24
3	Ti 334.940†	5611.6	5012.3	4.9619 µg/L	4.9619 ppb	07:43:03
3	Tl 190.801†	37.2	66.4	21.336 µg/L	21.336 ppb	07:43:24
3	U 409.014†	1452.6	1070.7	52.024 µg/L	52.024 ppb	07:43:03
3	V 292.402†	367.9	449.5	5.0025 µg/L	5.0025 ppb	07:43:03
3	Zn 213.857†	836.4	533.8	10.287 µg/L	10.287 ppb	07:43:24
3	Si 251.611†	4321.9	3570.5	97.7 µg/L	97.7 ppb	07:43:40

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1544346.3	101.03	%	1.434				1.42%
Sc RADIAL	71811.0	99.6	%	0.41				0.41%
Y 371.029	855331.4	100.90	%	1.429				1.42%
Ag 328.068†	930.7	5.2250	µg/L	0.32207	5.2250	ppb	0.32207	6.16%
QC value within limits for Ag 328.068 Recovery = 104.50%								
Al 396.153Radial†	1105.0	203.17	µg/L	2.346	203.17	ppb	2.346	1.15%
QC value within limits for Al 396.153Radial Recovery = 101.59%								
As 188.979†	33.2	13.726	µg/L	1.4869	13.726	ppb	1.4869	10.83%
QC value within limits for As 188.979 Recovery = 91.51%								
B 249.677†	1124.0	52.535	µg/L	0.5570	52.535	ppb	0.5570	1.06%
QC value within limits for B 249.677 Recovery = 105.07%								
Ba 233.527†	638.6	5.1423	µg/L	0.00238	5.1423	ppb	0.00238	0.05%
QC value within limits for Ba 233.527 Recovery = 102.85%								
Be 313.107†	9232.1	4.8131	µg/L	0.09052	4.8131	ppb	0.09052	1.88%
QC value within limits for Be 313.107 Recovery = 96.26%								
Ca 317.933Radial†	718.5	105.88	µg/L	0.388	105.88	ppb	0.388	0.37%
QC value within limits for Ca 317.933Radial Recovery = 105.88%								
Cd 226.502†	179.4	4.9301	µg/L	0.14895	4.9301	ppb	0.14895	3.02%
QC value within limits for Cd 226.502 Recovery = 98.60%								

Co 228.616†	223.6	5.2690 µg/L	0.11489	5.2690 ppb	0.11489	2.18%
QC value within limits for Co 228.616 Recovery = 105.38%						
Cr 267.716†	240.9	5.0356 µg/L	0.11256	5.0356 ppb	0.11256	2.24%
QC value within limits for Cr 267.716 Recovery = 100.71%						
Cu 324.752†	3305.0	10.051 µg/L	0.3525	10.051 ppb	0.3525	3.51%
QC value within limits for Cu 324.752 Recovery = 100.51%						
Fe 238.204 Radial†	76.7	107.80 µg/L	2.489	107.80 ppb	2.489	2.31%
QC value within limits for Fe 238.204 Radial Recovery = 107.80%						
K 766.490 Radial†	562.3	153.57 µg/L	12.379	153.57 ppb	12.379	8.06%
QC value within limits for K 766.490 Radial Recovery = 102.38%						
Mg 279.077 IEC†	161.2	334.18 µg/L	6.529	334.18 ppb	6.529	1.95%
QC value within limits for Mg 279.077 IEC Recovery = 111.39%						
Mn 257.610†	7716.8	10.380 µg/L	0.2416	10.380 ppb	0.2416	2.33%
QC value within limits for Mn 257.610 Recovery = 103.80%						
Mo 202.031†	98.6	10.689 µg/L	0.4438	10.689 ppb	0.4438	4.15%
QC value within limits for Mo 202.031 Recovery = 106.89%						
Na 589.592 Radial†	1381.2	141.68 µg/L	3.041	141.68 ppb	3.041	2.15%
QC value within limits for Na 589.592 Radial Recovery = 94.45%						
Ni 231.604†	104.4	5.0371 µg/L	0.20694	5.0371 ppb	0.20694	4.11%
QC value within limits for Ni 231.604 Recovery = 100.74%						
P 214.914†	219.0	142.36 µg/L	0.776	142.36 ppb	0.776	0.54%
QC value within limits for P 214.914 Recovery = 94.91%						
Pb 220.353†	53.3	10.337 µg/L	0.1299	10.337 ppb	0.1299	1.26%
QC value within limits for Pb 220.353 Recovery = 103.37%						
S 181.975 Axial†	54.7	96.188 µg/L	3.6981	96.188 ppb	3.6981	3.84%
QC value within limits for S 181.975 Axial Recovery = 96.19%						
Sb 206.836†	35.3	13.411 µg/L	0.8764	13.411 ppb	0.8764	6.54%
QC value greater than the upper limit for Sb 206.836 Recovery = 134.11%						
Se 196.026†	22.5	16.1 µg/L	2.99	16.1 ppb	2.99	18.58%
QC value within limits for Se 196.026 Recovery = 107.21%						
SiO2 †	3607.3	210.40 µg/L	3.593	210.40 ppb	3.593	1.71%
QC value within limits for SiO2 Recovery = 98.78%						
Si 251.611†	3571.6	97.8 µg/L	1.56	97.8 ppb	1.56	1.59%
QC value within limits for Si 251.611 Recovery = 97.78%						
Sn 189.927†	43.0	9.3675 µg/L	0.76052	9.3675 ppb	0.76052	8.12%
QC value within limits for Sn 189.927 Recovery = 93.68%						
Sr 421.552†	1993.0	5.0167 µg/L	0.06676	5.0167 ppb	0.06676	1.33%
QC value within limits for Sr 421.552 Recovery = 100.33%						
Ti 334.940†	4994.2	4.9440 µg/L	0.09621	4.9440 ppb	0.09621	1.95%
QC value within limits for Ti 334.940 Recovery = 98.88%						
Tl 190.801†	65.5	21.048 µg/L	0.5861	21.048 ppb	0.5861	2.78%
QC value within limits for Tl 190.801 Recovery = 105.24%						
U 409.014†	1043.3	50.691 µg/L	1.9573	50.691 ppb	1.9573	3.86%
QC value within limits for U 409.014 Recovery = 101.38%						
V 292.402†	424.9	4.7365 µg/L	0.23199	4.7365 ppb	0.23199	4.90%
QC value within limits for V 292.402 Recovery = 94.73%						
Zn 213.857†	535.7	10.323 µg/L	0.1725	10.323 ppb	0.1725	1.67%
QC value within limits for Zn 213.857 Recovery = 103.23%						

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: ICSA
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 3/14/2006 07:45:48
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	63748.8	63748.8	88.4	%			07:47:41
1	Al 396.153Radial†	2489981.5	2815982.7	519020	µg/L	519020	ppb	07:47:36
1	Ca 317.933Radial†	2883568.7	3260886.5	480500	µg/L	480500	ppb	07:47:36
1	Fe 238.204 Radial†	119803.7	135450.1	190380	µg/L	190380	ppb	07:47:41
1	K 766.490 Radial†	1032.8	90.7	24.780	µg/L	24.780	ppb	07:47:41
1	Mg 279.077 IEC†	219564.5	248313.0	514160	µg/L	514160	ppb	07:47:41
1	Na 589.592 Radial†	1485.0	494.9	50.764	µg/L	50.764	ppb	07:47:41
1	Sr 421.552†	5372.0	6070.8	1.7811	µg/L	1.7811	ppb	07:47:41
1	Sc 361.383	1295968.5	1295968.5	84.784	%			07:48:14
1	Y 371.029	705279.5	705279.5	83.199	%			07:48:14
1	Ag 328.068†	-6054.1	-6222.1	7.5688	µg/L	7.5688	ppb	07:48:14
1	As 188.979†	23.9	25.8	9.1391	µg/L	9.1391	ppb	07:48:34
1	B 249.677†	893.1	967.7	-11.009	µg/L	-11.009	ppb	07:48:14
1	Ba 233.527†	163.7	310.7	0.2626	µg/L	0.2626	ppb	07:48:34
1	Be 313.107†	-1275.4	-1867.4	-0.9729	µg/L	-0.9729	ppb	07:48:14
1	Cd 226.502†	353.8	450.0	-6.3460	µg/L	-6.3460	ppb	07:48:34
1	Co 228.616†	75.0	151.2	-0.0457	µg/L	-0.0457	ppb	07:48:34
1	Cr 267.716†	38.8	-9.3	-0.2060	µg/L	-0.2060	ppb	07:48:34
1	Cu 324.752†	1360.6	-2260.4	-1.0313	µg/L	-1.0313	ppb	07:48:14
1	Mn 257.610†	-8328.1	-10193.9	5.8178	µg/L	5.8178	ppb	07:48:14
1	Mo 202.031†	-105.5	-111.1	-7.3586	µg/L	-7.3586	ppb	07:48:34
1	Ni 231.604†	96.1	-44.1	5.1267	µg/L	5.1267	ppb	07:48:34
1	P 214.914†	227.1	101.0	-139.06	µg/L	-139.06	ppb	07:48:34
1	Pb 220.353†	-240.6	-290.7	-5.9966	µg/L	-5.9966	ppb	07:48:34
1	S 181.975 Axial†	33.5	9.9	-94.919	µg/L	-94.919	ppb	07:48:34
1	Sb 206.836†	20.1	7.6	0.1473	µg/L	0.1473	ppb	07:48:34
1	Se 196.026†	-15.9	5.9	-6.72	µg/L	-6.72	ppb	07:48:34
1	SiO2 †	562.3	-52.6	-3.0689	µg/L	-3.0689	ppb	07:48:34
1	Sn 189.927†	-273.8	-300.1	7.0876	µg/L	7.0876	ppb	07:48:34
1	Ti 334.940†	-8985.1	-11140.5	-1.3231	µg/L	-1.3231	ppb	07:48:14
1	Tl 190.801†	-56.9	-37.5	-11.540	µg/L	-11.540	ppb	07:48:34
1	U 409.014†	445.7	158.4	7.6601	µg/L	7.6601	ppb	07:48:14
1	V 292.402†	-427.8	-419.3	-4.6121	µg/L	-4.6121	ppb	07:48:34
1	Zn 213.857†	2699.9	2890.2	11.837	µg/L	11.837	ppb	07:48:34
1	Si 251.611†	497.5	-121.1	-3.32	µg/L	-3.32	ppb	07:49:34
2	Sc RADIAL	63910.8	63910.8	88.6	%			07:47:53
2	Al 396.153Radial†	2510433.3	2831912.7	521960	µg/L	521960	ppb	07:47:48
2	Ca 317.933Radial†	2906053.6	3277981.2	483020	µg/L	483020	ppb	07:47:48
2	Fe 238.204 Radial†	120005.0	135333.6	190220	µg/L	190220	ppb	07:47:53
2	K 766.490 Radial†	1007.4	59.1	16.147	µg/L	16.147	ppb	07:47:53
2	Mg 279.077 IEC†	219690.9	247825.9	513150	µg/L	513150	ppb	07:47:53
2	Na 589.592 Radial†	1429.0	427.5	43.855	µg/L	43.855	ppb	07:47:53
2	Sr 421.552†	5337.6	6016.6	1.5737	µg/L	1.5737	ppb	07:47:53
2	Sc 361.383	1290879.7	1290879.7	84.451	%			07:48:41
2	Y 371.029	702245.7	702245.7	82.841	%			07:48:41
2	Ag 328.068†	-5969.0	-6149.4	7.9377	µg/L	7.9377	ppb	07:48:41
2	As 188.979†	12.8	12.7	3.6157	µg/L	3.6157	ppb	07:49:01
2	B 249.677†	886.4	963.8	-11.140	µg/L	-11.140	ppb	07:48:41
2	Ba 233.527†	177.5	327.8	0.4017	µg/L	0.4017	ppb	07:49:01
2	Be 313.107†	-1204.8	-1789.6	-0.9324	µg/L	-0.9324	ppb	07:48:41
2	Cd 226.502†	323.8	416.1	-7.2648	µg/L	-7.2648	ppb	07:49:01
2	Co 228.616†	85.0	163.3	0.2413	µg/L	0.2413	ppb	07:49:01
2	Cr 267.716†	37.4	-10.8	-0.2388	µg/L	-0.2388	ppb	07:49:01
2	Cu 324.752†	1410.0	-2195.6	-0.8368	µg/L	-0.8368	ppb	07:48:41
2	Mn 257.610†	-8269.7	-10163.5	5.8419	µg/L	5.8419	ppb	07:48:41
2	Mo 202.031†	-106.4	-112.6	-7.5221	µg/L	-7.5221	ppb	07:49:01
2	Ni 231.604†	109.9	-27.3	5.9730	µg/L	5.9730	ppb	07:49:01
2	P 214.914†	241.0	118.5	-127.52	µg/L	-127.52	ppb	07:49:01

2	Pb 220.353†	-245.5	-297.5	-7.0440 µg/L	-7.0440 ppb	07:49:01
2	S 181.975 Axial†	31.9	8.2	-98.483 µg/L	-98.483 ppb	07:49:01
2	Sb 206.836†	18.1	5.3	-0.7291 µg/L	-0.7291 ppb	07:49:01
2	Se 196.026†	-17.2	4.3	-7.79 µg/L	-7.79 ppb	07:49:01
2	SiO2 †	542.0	-74.1	-4.3227 µg/L	-4.3227 ppb	07:49:01
2	Sn 189.927†	-289.7	-320.2	2.9456 µg/L	2.9456 ppb	07:49:01
2	Ti 334.940†	-9299.8	-11554.9	-1.6826 µg/L	-1.6826 ppb	07:48:41
2	Tl 190.801†	-47.9	-27.1	-8.1936 µg/L	-8.1936 ppb	07:49:01
2	U 409.014†	419.5	129.4	6.2569 µg/L	6.2569 ppb	07:48:41
2	V 292.402†	-421.1	-413.4	-4.5520 µg/L	-4.5520 ppb	07:49:01
2	Zn 213.857†	2701.0	2904.0	12.074 µg/L	12.074 ppb	07:49:01
2	Si 251.611†	489.8	-127.9	-3.50 µg/L	-3.50 ppb	07:49:39
3	Sc RADIAL	63545.1	63545.1	88.1 %		07:48:05
3	Al 396.153Radial†	2483512.6	2817671.5	519330 µg/L	519330 ppb	07:48:00
3	Ca 317.933Radial†	2878532.6	3265628.0	481200 µg/L	481200 ppb	07:48:00
3	Fe 238.204 Radial†	119579.5	135630.1	190640 µg/L	190640 ppb	07:48:05
3	K 766.490 Radial†	997.8	54.8	14.966 µg/L	14.966 ppb	07:48:05
3	Mg 279.077 IEC†	218963.4	248427.1	514390 µg/L	514390 ppb	07:48:05
3	Na 589.592 Radial†	1474.9	488.9	50.150 µg/L	50.150 ppb	07:48:05
3	Sr 421.552†	5339.7	6053.7	1.7183 µg/L	1.7183 ppb	07:48:05
3	Sc 361.383	1301258.0	1301258.0	85.130 %		07:49:08
3	Y 371.029	708488.7	708488.7	83.578 %		07:49:08
3	Ag 328.068†	-6056.5	-6195.8	7.7719 µg/L	7.7719 ppb	07:49:08
3	As 188.979†	16.5	16.9	5.4984 µg/L	5.4984 ppb	07:49:28
3	B 249.677†	911.3	984.7	-10.290 µg/L	-10.290 ppb	07:49:08
3	Ba 233.527†	179.1	328.0	0.3982 µg/L	0.3982 ppb	07:49:28
3	Be 313.107†	-1283.9	-1871.3	-0.9750 µg/L	-0.9750 ppb	07:49:08
3	Cd 226.502†	327.2	417.1	-7.2779 µg/L	-7.2779 ppb	07:49:28
3	Co 228.616†	59.4	132.5	-0.4914 µg/L	-0.4914 ppb	07:49:28
3	Cr 267.716†	18.6	-33.2	-0.7080 µg/L	-0.7080 ppb	07:49:28
3	Cu 324.752†	1296.3	-2342.4	-1.2789 µg/L	-1.2789 ppb	07:49:08
3	Mn 257.610†	-8425.1	-10268.0	5.7443 µg/L	5.7443 ppb	07:49:08
3	Mo 202.031†	-111.4	-117.5	-8.0397 µg/L	-8.0397 ppb	07:49:28
3	Ni 231.604†	93.9	-47.2	4.9896 µg/L	4.9896 ppb	07:49:28
3	P 214.914†	238.0	112.8	-131.67 µg/L	-131.67 ppb	07:49:28
3	Pb 220.353†	-259.0	-311.1	-9.9170 µg/L	-9.9170 ppb	07:49:28
3	S 181.975 Axial†	28.8	4.2	-104.98 µg/L	-104.98 ppb	07:49:28
3	Sb 206.836†	0.4	-15.7	-8.6354 µg/L	-8.6354 ppb	07:49:28
3	Se 196.026†	-11.7	10.9	-3.13 µg/L	-3.13 ppb	07:49:28
3	SiO2 †	532.3	-90.6	-5.2845 µg/L	-5.2845 ppb	07:49:28
3	Sn 189.927†	-293.0	-321.3	2.5654 µg/L	2.5654 ppb	07:49:28
3	Ti 334.940†	-9248.3	-11406.6	-1.5725 µg/L	-1.5725 ppb	07:49:08
3	Tl 190.801†	-52.5	-32.0	-9.7840 µg/L	-9.7840 ppb	07:49:28
3	U 409.014†	540.4	267.5	12.965 µg/L	12.965 ppb	07:49:08
3	V 292.402†	-409.2	-395.4	-4.3571 µg/L	-4.3571 ppb	07:49:28
3	Zn 213.857†	2722.7	2904.1	12.055 µg/L	12.055 ppb	07:49:28
3	Si 251.611†	677.0	87.3	2.39 µg/L	2.39 ppb	07:49:44

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1296035.4	84.789	%	0.3395				0.40%
Sc RADIAL	63734.9	88.4	%	0.25				0.29%
Y 371.029	705338.0	83.206	%	0.3683				0.44%
Ag 328.068†	-6189.1	7.7595	µg/L	0.18473	7.7595	ppb	0.18473	2.38%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	2821855.6	520110	µg/L	1612.8	520110	ppb	1612.8	0.31%
QC value within limits for Al 396.153Radial Recovery = 104.02%								
As 188.979†	18.5	6.0844	µg/L	2.80794	6.0844	ppb	2.80794	46.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	972.1	-10.813	µg/L	0.4578	-10.813	ppb	0.4578	4.23%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	322.2	0.3542	µg/L	0.07934	0.3542	ppb	0.07934	22.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1842.7	-0.9601	µg/L	0.02403	-0.9601	ppb	0.02403	2.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	3268165.2	481570	µg/L	1300.4	481570	ppb	1300.4	0.27%
QC value within limits for Ca 317.933Radial Recovery = 96.31%								
Cd 226.502†	427.8	-6.9629	µg/L	0.53432	-6.9629	ppb	0.53432	7.67%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	149.0	-0.0986 µg/L	0.36917	-0.0986 ppb	0.36917	374.41%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-17.8	-0.3843 µg/L	0.28086	-0.3843 ppb	0.28086	73.09%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2266.1	-1.0490 µg/L	0.22158	-1.0490 ppb	0.22158	21.12%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	135471.2	190410 µg/L	210.0	190410 ppb	210.0	0.11%
QC value within limits for Fe 238.204 Radial Recovery = 95.21%						
K 766.490 Radial†	68.2	18.631 µg/L	5.3580	18.631 ppb	5.3580	28.76%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	248188.7	513900 µg/L	661.2	513900 ppb	661.2	0.13%
QC value within limits for Mg 279.077 IEC Recovery = 102.78%						
Mn 257.610†	-10208.5	5.8013 µg/L	0.05084	5.8013 ppb	0.05084	0.88%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-113.7	-7.6402 µg/L	0.35557	-7.6402 ppb	0.35557	4.65%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	470.4	48.256 µg/L	3.8236	48.256 ppb	3.8236	7.92%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-39.5	5.3631 µg/L	0.53261	5.3631 ppb	0.53261	9.93%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	110.8	-132.75 µg/L	5.843	-132.75 ppb	5.843	4.40%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-299.8	-7.6525 µg/L	2.02980	-7.6525 ppb	2.02980	26.52%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	7.4	-99.461 µg/L	5.1022	-99.461 ppb	5.1022	5.13%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-0.9	-3.0724 µg/L	4.83756	-3.0724 ppb	4.83756	157.45%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.0	-5.88 µg/L	2.441	-5.88 ppb	2.441	41.50%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	-72.4	-4.2254 µg/L	1.11097	-4.2254 ppb	1.11097	26.29%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-53.9	-1.48 µg/L	3.349	-1.48 ppb	3.349	226.94%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-313.9	4.1995 µg/L	2.50834	4.1995 ppb	2.50834	59.73%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	6047.0	1.6910 µg/L	0.10637	1.6910 ppb	0.10637	6.29%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-11367.3	-1.5261 µg/L	0.18422	-1.5261 ppb	0.18422	12.07%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-32.2	-9.8391 µg/L	1.67379	-9.8391 ppb	1.67379	17.01%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	185.1	8.9605 µg/L	3.53798	8.9605 ppb	3.53798	39.48%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-409.4	-4.5071 µg/L	0.13335	-4.5071 ppb	0.13335	2.96%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2899.5	11.988 µg/L	0.1319	11.988 ppb	0.1319	1.10%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 3/14/2006 07:51:54
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	63656.4	63656.4	88.3	%			07:53:46
1	Al 396.153Radial†	2476693.2	2805018.7	516980	µg/L	516980	ppb	07:53:40
1	Ca 317.933Radial†	2857770.0	3236399.4	476890	µg/L	476890	ppb	07:53:40
1	Fe 238.204 Radial†	118876.7	134596.7	189190	µg/L	189190	ppb	07:53:46
1	K 766.490 Radial†	20148.8	21742.8	5938.0	µg/L	5938.0	ppb	07:53:46
1	Mg 279.077 IEC†	217603.5	246452.3	510320	µg/L	510320	ppb	07:53:46
1	Na 589.592 Radial†	49703.8	55109.1	5653.0	µg/L	5653.0	ppb	07:53:46
1	Sr 421.552†	190055.4	215248.5	528.74	µg/L	528.74	ppb	07:53:46
1	Sc 361.383	1297768.3	1297768.3	84.902	%			07:54:19
1	Y 371.029	707008.2	707008.2	83.403	%			07:54:19
1	Ag 328.068†	32596.4	39311.5	262.37	µg/L	262.37	ppb	07:54:19
1	As 188.979†	1053.4	1238.3	513.24	µg/L	513.24	ppb	07:54:40
1	B 249.677†	10289.7	12033.8	509.02	µg/L	509.02	ppb	07:54:19
1	Ba 233.527†	51230.1	60457.9	484.61	µg/L	484.61	ppb	07:54:19
1	Be 313.107†	390930.6	460086.5	239.88	µg/L	239.88	ppb	07:54:19
1	Cd 226.502†	14451.2	17053.8	451.14	µg/L	451.14	ppb	07:54:40
1	Co 228.616†	16197.2	19140.2	446.99	µg/L	446.99	ppb	07:54:40
1	Cr 267.716†	19598.2	23028.3	483.09	µg/L	483.09	ppb	07:54:40
1	Cu 324.752†	149018.0	171652.7	529.92	µg/L	529.92	ppb	07:54:19
1	Mn 257.610†	292718.3	344400.9	482.15	µg/L	482.15	ppb	07:54:19
1	Mo 202.031†	3644.6	4306.1	471.56	µg/L	471.56	ppb	07:54:40
1	Ni 231.604†	7860.5	9100.9	444.93	µg/L	444.93	ppb	07:54:40
1	P 214.914†	3562.8	4029.5	2420.4	µg/L	2420.4	ppb	07:54:40
1	Pb 220.353†	1764.3	2071.1	450.43	µg/L	450.43	ppb	07:54:40
1	S 181.975 Axial†	1240.9	1431.9	2408.2	µg/L	2408.2	ppb	07:54:40
1	Sb 206.836†	1160.6	1350.9	511.04	µg/L	511.04	ppb	07:54:40
1	Se 196.026†	2888.8	3427.1	2420	µg/L	2420	ppb	07:54:40
1	SiO2 †	162965.1	191229.2	11154	µg/L	11154	ppb	07:54:19
1	Sn 189.927†	1479.7	1765.7	455.27	µg/L	455.27	ppb	07:54:40
1	Ti 334.940†	416632.4	490179.0	494.67	µg/L	494.67	ppb	07:54:19
1	Tl 190.801†	1097.8	1322.7	425.47	µg/L	425.47	ppb	07:54:40
1	U 409.014†	8842.9	10048.1	490.60	µg/L	490.60	ppb	07:54:19
1	V 292.402†	37903.6	44729.2	486.82	µg/L	486.82	ppb	07:54:19
1	Zn 213.857†	24382.1	28423.7	504.91	µg/L	504.91	ppb	07:54:40
1	Si 251.611†	162531.8	190726.8	5220	µg/L	5220	ppb	07:55:40
2	Sc RADIAL	64146.5	64146.5	89.0	%			07:53:58
2	Al 396.153Radial†	2490382.1	2798973.6	515870	µg/L	515870	ppb	07:53:52
2	Ca 317.933Radial†	2870433.7	3225904.8	475340	µg/L	475340	ppb	07:53:52
2	Fe 238.204 Radial†	119487.4	134254.6	188700	µg/L	188700	ppb	07:53:58
2	K 766.490 Radial†	20363.5	21809.8	5956.2	µg/L	5956.2	ppb	07:53:58
2	Mg 279.077 IEC†	218070.2	245094.0	507510	µg/L	507510	ppb	07:53:58
2	Na 589.592 Radial†	50082.1	55104.1	5652.5	µg/L	5652.5	ppb	07:53:58
2	Sr 421.552†	191732.7	215489.1	529.39	µg/L	529.39	ppb	07:53:58
2	Sc 361.383	1284929.7	1284929.7	84.062	%			07:54:46
2	Y 371.029	699934.6	699934.6	82.569	%			07:54:46
2	Ag 328.068†	32523.7	39608.6	263.93	µg/L	263.93	ppb	07:54:46
2	As 188.979†	1051.5	1248.4	517.47	µg/L	517.47	ppb	07:55:07
2	B 249.677†	10275.6	12138.1	514.07	µg/L	514.07	ppb	07:54:46
2	Ba 233.527†	51071.1	60871.7	487.95	µg/L	487.95	ppb	07:54:46
2	Be 313.107†	389582.7	463083.7	241.45	µg/L	241.45	ppb	07:54:46
2	Cd 226.502†	14420.2	17187.0	454.86	µg/L	454.86	ppb	07:55:07
2	Co 228.616†	16197.4	19331.1	451.50	µg/L	451.50	ppb	07:55:07
2	Cr 267.716†	19631.2	23298.2	488.75	µg/L	488.75	ppb	07:55:07
2	Cu 324.752†	148781.3	173124.8	534.40	µg/L	534.40	ppb	07:54:46
2	Mn 257.610†	291819.6	346776.8	485.29	µg/L	485.29	ppb	07:54:46
2	Mo 202.031†	3663.8	4371.7	478.67	µg/L	478.67	ppb	07:55:07
2	Ni 231.604†	7846.8	9177.1	448.58	µg/L	448.58	ppb	07:55:07
2	P 214.914†	3535.2	4038.6	2426.9	µg/L	2426.9	ppb	07:55:07

2	Pb 220.353†	1742.3	2065.7	449.28 µg/L	449.28	ppb	07:55:07
2	S 181.975 Axial†	1242.3	1448.1	2437.0 µg/L	2437.0	ppb	07:55:07
2	Sb 206.836†	1137.7	1337.3	505.98 µg/L	505.98	ppb	07:55:07
2	Se 196.026†	2905.7	3481.2	2450 µg/L	2450	ppb	07:55:07
2	SiO2 †	162536.9	192637.7	11236 µg/L	11236	ppb	07:54:46
2	Sn 189.927†	1454.9	1753.6	452.41 µg/L	452.41	ppb	07:55:07
2	Ti 334.940†	415654.1	493918.4	498.34 µg/L	498.34	ppb	07:54:46
2	Tl 190.801†	1100.1	1338.4	430.50 µg/L	430.50	ppb	07:55:07
2	U 409.014†	8809.6	10112.6	493.74 µg/L	493.74	ppb	07:54:46
2	V 292.402†	37767.3	45013.2	489.95 µg/L	489.95	ppb	07:54:46
2	Zn 213.857†	24360.3	28684.7	510.10 µg/L	510.10	ppb	07:55:07
2	Si 251.611†	162231.4	192282.2	5260 µg/L	5260	ppb	07:55:46
3	Sc RADIAL	63180.0	63180.0	87.6 %			07:54:10
3	Al 396.153Radial†	2492689.8	2844425.8	524240 µg/L	524240	ppb	07:54:04
3	Ca 317.933Radial†	2872155.2	3277222.4	482910 µg/L	482910	ppb	07:54:04
3	Fe 238.204 Radial†	118269.4	134919.1	189640 µg/L	189640	ppb	07:54:10
3	K 766.490 Radial†	20012.4	21759.2	5942.4 µg/L	5942.4	ppb	07:54:10
3	Mg 279.077 IEC†	216236.3	246750.6	510940 µg/L	510940	ppb	07:54:10
3	Na 589.592 Radial†	49420.4	55210.2	5663.3 µg/L	5663.3	ppb	07:54:10
3	Sr 421.552†	188610.2	215222.5	528.51 µg/L	528.51	ppb	07:54:10
3	Sc 361.383	1294498.9	1294498.9	84.688 %			07:55:14
3	Y 371.029	705551.6	705551.6	83.231 %			07:55:14
3	Ag 328.068†	32421.2	39201.7	261.85 µg/L	261.85	ppb	07:55:14
3	As 188.979†	1050.4	1237.8	512.82 µg/L	512.82	ppb	07:55:34
3	B 249.677†	10300.0	12076.6	510.90 µg/L	510.90	ppb	07:55:14
3	Ba 233.527†	50913.6	60236.7	482.82 µg/L	482.82	ppb	07:55:14
3	Be 313.107†	388547.5	458435.5	239.02 µg/L	239.02	ppb	07:55:14
3	Cd 226.502†	14434.1	17076.6	451.72 µg/L	451.72	ppb	07:55:34
3	Co 228.616†	16210.0	19203.5	448.48 µg/L	448.48	ppb	07:55:34
3	Cr 267.716†	19633.3	23128.0	485.18 µg/L	485.18	ppb	07:55:34
3	Cu 324.752†	148423.2	171393.6	529.13 µg/L	529.13	ppb	07:55:14
3	Mn 257.610†	291243.5	343530.3	481.02 µg/L	481.02	ppb	07:55:14
3	Mo 202.031†	3670.9	4347.9	476.11 µg/L	476.11	ppb	07:55:34
3	Ni 231.604†	7851.5	9113.6	445.65 µg/L	445.65	ppb	07:55:34
3	P 214.914†	3538.9	4012.0	2408.5 µg/L	2408.5	ppb	07:55:34
3	Pb 220.353†	1755.7	2066.3	450.21 µg/L	450.21	ppb	07:55:34
3	S 181.975 Axial†	1247.2	1443.1	2426.3 µg/L	2426.3	ppb	07:55:34
3	Sb 206.836†	1150.4	1342.4	507.81 µg/L	507.81	ppb	07:55:34
3	Se 196.026†	2901.7	3450.9	2430 µg/L	2430	ppb	07:55:34
3	SiO2 †	162160.3	190763.8	11127 µg/L	11127	ppb	07:55:14
3	Sn 189.927†	1469.3	1757.8	454.21 µg/L	454.21	ppb	07:55:34
3	Ti 334.940†	414565.4	488977.7	493.60 µg/L	493.60	ppb	07:55:14
3	Tl 190.801†	1117.3	1349.0	433.90 µg/L	433.90	ppb	07:55:34
3	U 409.014†	8894.2	10135.1	494.80 µg/L	494.80	ppb	07:55:14
3	V 292.402†	37675.4	44572.6	485.19 µg/L	485.19	ppb	07:55:14
3	Zn 213.857†	24359.0	28469.0	505.57 µg/L	505.57	ppb	07:55:34
3	Si 251.611†	161012.8	189416.7	5190 µg/L	5190	ppb	07:55:51

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1292399.0	84.551	%	0.4365				0.52%
Sc RADIAL	63661.0	88.3	%	0.67				0.76%
Y 371.029	704164.8	83.068	%	0.4406				0.53%
Ag 328.068†	39373.9	262.72	µg/L	1.079	262.72	ppb	1.079	0.41%
QC value within limits for Ag 328.068 Recovery = 105.09%								
Al 396.153Radial†	2816139.4	519030	µg/L	4549.3	519030	ppb	4549.3	0.88%
QC value within limits for Al 396.153Radial Recovery = 103.81%								
As 188.979†	1241.5	514.51	µg/L	2.572	514.51	ppb	2.572	0.50%
QC value within limits for As 188.979 Recovery = 102.90%								
B 249.677†	12082.9	511.33	µg/L	2.552	511.33	ppb	2.552	0.50%
QC value within limits for B 249.677 Recovery = 102.27%								
Ba 233.527†	60522.1	485.13	µg/L	2.601	485.13	ppb	2.601	0.54%
QC value within limits for Ba 233.527 Recovery = 97.03%								
Be 313.107†	460535.2	240.12	µg/L	1.229	240.12	ppb	1.229	0.51%
QC value within limits for Be 313.107 Recovery = 96.05%								
Ca 317.933Radial†	3246508.9	478380	µg/L	3994.9	478380	ppb	3994.9	0.84%
QC value within limits for Ca 317.933Radial Recovery = 95.68%								
Cd 226.502†	17105.8	452.57	µg/L	1.998	452.57	ppb	1.998	0.44%
QC value within limits for Cd 226.502 Recovery = 90.51%								

Co 228.616†	19224.9	448.99 µg/L	2.297	448.99 ppb	2.297	0.51%
QC value within limits for Co 228.616 Recovery = 89.80%						
Cr 267.716†	23151.5	485.67 µg/L	2.863	485.67 ppb	2.863	0.59%
QC value within limits for Cr 267.716 Recovery = 97.13%						
Cu 324.752†	172057.0	531.15 µg/L	2.840	531.15 ppb	2.840	0.53%
QC value within limits for Cu 324.752 Recovery = 106.23%						
Fe 238.204 Radial†	134590.2	189180 µg/L	467.1	189180 ppb	467.1	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 94.59%						
K 766.490 Radial†	21770.6	5945.5 µg/L	9.53	5945.5 ppb	9.53	0.16%
QC value within limits for K 766.490 Radial Recovery = 118.91%						
Mg 279.077 IEC†	246099.0	509590 µg/L	1828.5	509590 ppb	1828.5	0.36%
QC value within limits for Mg 279.077 IEC Recovery = 101.92%						
Mn 257.610†	344902.7	482.82 µg/L	2.211	482.82 ppb	2.211	0.46%
QC value within limits for Mn 257.610 Recovery = 96.56%						
Mo 202.031†	4341.9	475.45 µg/L	3.599	475.45 ppb	3.599	0.76%
QC value within limits for Mo 202.031 Recovery = 95.09%						
Na 589.592 Radial†	55141.1	5656.2 µg/L	6.14	5656.2 ppb	6.14	0.11%
QC value within limits for Na 589.592 Radial Recovery = 113.12%						
Ni 231.604†	9130.5	446.39 µg/L	1.935	446.39 ppb	1.935	0.43%
QC value within limits for Ni 231.604 Recovery = 89.28%						
P 214.914†	4026.7	2418.6 µg/L	9.32	2418.6 ppb	9.32	0.39%
QC value within limits for P 214.914 Recovery = 96.74%						
Pb 220.353†	2067.7	449.97 µg/L	0.612	449.97 ppb	0.612	0.14%
QC value within limits for Pb 220.353 Recovery = 89.99%						
S 181.975 Axial†	1441.0	2423.8 µg/L	14.57	2423.8 ppb	14.57	0.60%
QC value within limits for S 181.975 Axial Recovery = 96.95%						
Sb 206.836†	1343.5	508.28 µg/L	2.561	508.28 ppb	2.561	0.50%
QC value within limits for Sb 206.836 Recovery = 101.66%						
Se 196.026†	3453.1	2430 µg/L	19.2	2430 ppb	19.2	0.79%
QC value within limits for Se 196.026 Recovery = 97.38%						
SiO2 †	191543.5	11172 µg/L	56.9	11172 ppb	56.9	0.51%
QC value within limits for SiO2 Recovery = 104.46%						
Si 251.611†	190808.6	5220 µg/L	39.3	5220 ppb	39.3	0.75%
QC value within limits for Si 251.611 Recovery = 104.48%						
Sn 189.927†	1759.0	453.96 µg/L	1.446	453.96 ppb	1.446	0.32%
QC value within limits for Sn 189.927 Recovery = 90.79%						
Sr 421.552†	215320.1	528.88 µg/L	0.458	528.88 ppb	0.458	0.09%
QC value within limits for Sr 421.552 Recovery = 105.78%						
Ti 334.940†	491025.0	495.54 µg/L	2.484	495.54 ppb	2.484	0.50%
QC value within limits for Ti 334.940 Recovery = 99.11%						
Tl 190.801†	1336.7	429.96 µg/L	4.240	429.96 ppb	4.240	0.99%
QC value within limits for Tl 190.801 Recovery = 85.99%						
U 409.014†	10098.6	493.05 µg/L	2.188	493.05 ppb	2.188	0.44%
QC value within limits for U 409.014 Recovery = 98.61%						
V 292.402†	44771.7	487.32 µg/L	2.423	487.32 ppb	2.423	0.50%
QC value within limits for V 292.402 Recovery = 97.46%						
Zn 213.857†	28525.8	506.86 µg/L	2.828	506.86 ppb	2.828	0.56%
QC value within limits for Zn 213.857 Recovery = 101.37%						

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: CCV
Nebulizer Back Pressure: 231.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 08:12:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	70089.9	70089.9	97.2	%			08:13:44
1	Al 396.153Radial†	26451.4	27172.4	4983.7	µg/L	4983.7	ppb	08:13:44
1	Ca 317.933Radial†	34300.0	35026.2	5161.2	µg/L	5161.2	ppb	08:14:04
1	Fe 238.204 Radial†	3630.7	3693.9	5192.1	µg/L	5192.1	ppb	08:14:04
1	K 766.490 Radial†	18809.4	18270.4	4989.6	µg/L	4989.6	ppb	08:13:44
1	Mg 279.077 IEC†	2417.3	2485.3	5161.3	µg/L	5161.3	ppb	08:14:04
1	Na 589.592 Radial†	96518.0	98096.0	10062	µg/L	10062	ppb	08:13:44
1	Sr 421.552†	194352.0	199910.1	503.37	µg/L	503.37	ppb	08:13:44
1	Sc 361.383	1485079.7	1485079.7	97.156	%			08:15:05
1	Y 371.029	816070.5	816070.5	96.269	%			08:15:05
1	Ag 328.068†	87734.2	91220.8	510.97	µg/L	510.97	ppb	08:15:10
1	As 188.979†	1264.9	1299.6	540.58	µg/L	540.58	ppb	08:15:31
1	B 249.677†	11108.2	11347.6	531.45	µg/L	531.45	ppb	08:15:10
1	Ba 233.527†	60159.7	62038.2	499.51	µg/L	499.51	ppb	08:15:10
1	Be 313.107†	927294.9	954074.9	497.40	µg/L	497.40	ppb	08:15:05
1	Cd 226.502†	17663.9	18213.6	501.20	µg/L	501.20	ppb	08:15:10
1	Co 228.616†	20601.0	21266.8	500.56	µg/L	500.56	ppb	08:15:10
1	Cr 267.716†	23130.7	23752.6	498.29	µg/L	498.29	ppb	08:15:10
1	Cu 324.752†	162240.3	163124.1	498.11	µg/L	498.11	ppb	08:15:05
1	Mn 257.610†	360650.7	370836.2	498.81	µg/L	498.81	ppb	08:15:05
1	Mo 202.031†	4725.1	4876.7	528.89	µg/L	528.89	ppb	08:15:31
1	Ni 231.604†	10347.0	10492.4	504.70	µg/L	504.70	ppb	08:15:10
1	P 214.914†	3994.4	3944.5	2562.1	µg/L	2562.1	ppb	08:15:31
1	Pb 220.353†	2575.3	2643.8	511.75	µg/L	511.75	ppb	08:15:31
1	S 181.975 Axial†	609.5	597.7	1053.5	µg/L	1053.5	ppb	08:15:31
1	Sb 206.836†	1367.7	1391.7	529.53	µg/L	529.53	ppb	08:15:31
1	Se 196.026†	675.7	720.1	511	µg/L	511	ppb	08:15:31
1	SiO2 †	92419.6	94408.9	5506.6	µg/L	5506.6	ppb	08:15:10
1	Sn 189.927†	2259.5	2348.5	510.95	µg/L	510.95	ppb	08:15:31
1	Ti 334.940†	496822.0	510821.8	505.57	µg/L	505.57	ppb	08:15:05
1	Tl 190.801†	1499.5	1573.0	505.38	µg/L	505.38	ppb	08:15:31
1	U 409.014†	10489.7	10429.5	509.21	µg/L	509.21	ppb	08:15:10
1	V 292.402†	44916.9	46316.9	504.53	µg/L	504.53	ppb	08:15:10
1	Zn 213.857†	25554.8	26008.6	501.24	µg/L	501.24	ppb	08:15:10
1	Si 251.611†	90732.0	92679.9	2540	µg/L	2540	ppb	08:16:42
2	Sc RADIAL	71219.1	71219.1	98.8	%			08:14:09
2	Al 396.153Radial†	26970.1	27266.1	5001.3	µg/L	5001.3	ppb	08:14:09
2	Ca 317.933Radial†	34313.3	34480.2	5080.7	µg/L	5080.7	ppb	08:14:30
2	Fe 238.204 Radial†	3626.6	3630.6	5103.1	µg/L	5103.1	ppb	08:14:30
2	K 766.490 Radial†	19228.7	18388.1	5021.8	µg/L	5021.8	ppb	08:14:09
2	Mg 279.077 IEC†	2423.6	2452.2	5092.7	µg/L	5092.7	ppb	08:14:30
2	Na 589.592 Radial†	98257.5	98282.8	10082	µg/L	10082	ppb	08:14:09
2	Sr 421.552†	198046.7	200480.6	504.81	µg/L	504.81	ppb	08:14:09
2	Sc 361.383	1497837.2	1497837.2	97.991	%			08:15:38
2	Y 371.029	822589.7	822589.7	97.038	%			08:15:38
2	Ag 328.068†	88079.6	90804.2	508.63	µg/L	508.63	ppb	08:15:43
2	As 188.979†	1250.8	1274.0	530.02	µg/L	530.02	ppb	08:16:03
2	B 249.677†	11122.5	11264.8	527.58	µg/L	527.58	ppb	08:15:43
2	Ba 233.527†	60335.1	61689.9	496.70	µg/L	496.70	ppb	08:15:43
2	Be 313.107†	934530.5	953329.7	497.01	µg/L	497.01	ppb	08:15:38
2	Cd 226.502†	17704.9	18100.6	498.10	µg/L	498.10	ppb	08:15:43
2	Co 228.616†	20654.7	21140.9	497.59	µg/L	497.59	ppb	08:15:43
2	Cr 267.716†	23272.5	23694.6	497.08	µg/L	497.08	ppb	08:15:43
2	Cu 324.752†	163589.8	163079.0	497.97	µg/L	497.97	ppb	08:15:38
2	Mn 257.610†	363884.4	370974.5	498.98	µg/L	498.98	ppb	08:15:38
2	Mo 202.031†	4700.1	4809.9	521.64	µg/L	521.64	ppb	08:16:03
2	Ni 231.604†	10364.3	10419.4	501.18	µg/L	501.18	ppb	08:15:43
2	P 214.914†	3963.4	3877.9	2518.9	µg/L	2518.9	ppb	08:16:03

2	Pb 220.353†	2572.4	2618.3	506.80 µg/L	506.80 ppb	08:16:03
2	S 181.975 Axial†	602.8	585.5	1031.9 µg/L	1031.9 ppb	08:16:03
2	Sb 206.836†	1358.5	1370.2	521.39 µg/L	521.39 ppb	08:16:03
2	Se 196.026†	663.9	702.1	498 µg/L	498 ppb	08:16:03
2	SiO2 †	92936.8	94126.5	5490.1 µg/L	5490.1 ppb	08:15:43
2	Sn 189.927†	2246.7	2315.7	503.80 µg/L	503.80 ppb	08:16:03
2	Ti 334.940†	501396.1	511134.2	505.88 µg/L	505.88 ppb	08:15:38
2	Tl 190.801†	1484.9	1545.0	496.37 µg/L	496.37 ppb	08:16:03
2	U 409.014†	10526.7	10375.2	506.57 µg/L	506.57 ppb	08:15:43
2	V 292.402†	45180.6	46192.2	503.11 µg/L	503.11 ppb	08:15:43
2	Zn 213.857†	25646.5	25878.2	498.73 µg/L	498.73 ppb	08:15:43
2	Si 251.611†	90438.4	91584.9	2510 µg/L	2510 ppb	08:16:47
3	Sc RADIAL	69838.0	69838.0	96.9 %		08:14:35
3	Al 396.153Radial†	26434.3	27252.9	4999.0 µg/L	4999.0 ppb	08:14:35
3	Ca 317.933Radial†	34367.3	35222.9	5190.2 µg/L	5190.2 ppb	08:14:55
3	Fe 238.204 Radial†	3636.6	3713.5	5219.6 µg/L	5219.6 ppb	08:14:55
3	K 766.490 Radial†	18842.0	18373.9	5017.9 µg/L	5017.9 ppb	08:14:35
3	Mg 279.077 IEC†	2418.3	2495.3	5181.7 µg/L	5181.7 ppb	08:14:55
3	Na 589.592 Radial†	96222.5	98149.1	10068 µg/L	10068 ppb	08:14:35
3	Sr 421.552†	193809.3	200071.0	503.77 µg/L	503.77 ppb	08:14:35
3	Sc 361.383	1508026.1	1508026.1	98.657 %		08:16:10
3	Y 371.029	828624.3	828624.3	97.750 %		08:16:10
3	Ag 328.068†	87742.9	89855.6	503.35 µg/L	503.35 ppb	08:16:16
3	As 188.979†	1247.9	1262.4	525.23 µg/L	525.23 ppb	08:16:36
3	B 249.677†	11003.1	11067.2	518.29 µg/L	518.29 ppb	08:16:16
3	Ba 233.527†	60077.4	61012.6	491.25 µg/L	491.25 ppb	08:16:16
3	Be 313.107†	937800.8	950200.9	495.38 µg/L	495.38 ppb	08:16:10
3	Cd 226.502†	17653.2	17926.2	493.28 µg/L	493.28 ppb	08:16:16
3	Co 228.616†	20603.3	20946.5	493.01 µg/L	493.01 ppb	08:16:16
3	Cr 267.716†	23150.6	23410.6	491.12 µg/L	491.12 ppb	08:16:16
3	Cu 324.752†	164312.7	162683.8	496.77 µg/L	496.77 ppb	08:16:10
3	Mn 257.610†	365000.1	369596.4	497.15 µg/L	497.15 ppb	08:16:10
3	Mo 202.031†	4701.1	4778.4	518.24 µg/L	518.24 ppb	08:16:36
3	Ni 231.604†	10331.3	10314.4	496.14 µg/L	496.14 ppb	08:16:16
3	P 214.914†	3961.8	3848.9	2499.9 µg/L	2499.9 ppb	08:16:36
3	Pb 220.353†	2567.8	2595.9	502.46 µg/L	502.46 ppb	08:16:36
3	S 181.975 Axial†	606.6	585.2	1031.4 µg/L	1031.4 ppb	08:16:36
3	Sb 206.836†	1350.3	1352.6	514.71 µg/L	514.71 ppb	08:16:36
3	Se 196.026†	664.1	697.7	495 µg/L	495 ppb	08:16:36
3	SiO2 †	92418.0	92959.9	5422.1 µg/L	5422.1 ppb	08:16:16
3	Sn 189.927†	2242.4	2295.8	499.50 µg/L	499.50 ppb	08:16:36
3	Ti 334.940†	503105.0	509409.2	504.18 µg/L	504.18 ppb	08:16:10
3	Tl 190.801†	1497.9	1547.9	497.32 µg/L	497.32 ppb	08:16:36
3	U 409.014†	10476.6	10251.9	500.55 µg/L	500.55 ppb	08:16:16
3	V 292.402†	44984.3	45681.8	497.57 µg/L	497.57 ppb	08:16:16
3	Zn 213.857†	25555.7	25609.3	493.51 µg/L	493.51 ppb	08:16:16
3	Si 251.611†	90615.1	91140.5	2500 µg/L	2500 ppb	08:16:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1496981.0	97.935	%	0.7522				0.77%
Sc RADIAL	70382.3	97.6	%	1.02				1.05%
Y 371.029	822428.2	97.019	%	0.7406				0.76%
Ag 328.068†	90626.9	507.65	µg/L	3.904	507.65	ppb	3.904	0.77%
QC value within limits for Ag 328.068 Recovery = 101.53%								
Al 396.153Radial†	27230.5	4994.6	µg/L	9.57	4994.6	ppb	9.57	0.19%
QC value within limits for Al 396.153Radial Recovery = 99.89%								
As 188.979†	1278.7	531.94	µg/L	7.857	531.94	ppb	7.857	1.48%
QC value within limits for As 188.979 Recovery = 106.39%								
B 249.677†	11226.5	525.77	µg/L	6.765	525.77	ppb	6.765	1.29%
QC value within limits for B 249.677 Recovery = 105.15%								
Ba 233.527†	61580.2	495.82	µg/L	4.200	495.82	ppb	4.200	0.85%
QC value within limits for Ba 233.527 Recovery = 99.16%								
Be 313.107†	952535.2	496.60	µg/L	1.072	496.60	ppb	1.072	0.22%
QC value within limits for Be 313.107 Recovery = 99.32%								
Ca 317.933Radial†	34909.8	5144.0	µg/L	56.70	5144.0	ppb	56.70	1.10%
QC value within limits for Ca 317.933Radial Recovery = 102.88%								
Cd 226.502†	18080.1	497.53	µg/L	3.991	497.53	ppb	3.991	0.80%
QC value within limits for Cd 226.502 Recovery = 99.51%								

Co 228.616†	21118.1	497.05 µg/L	3.802	497.05 ppb	3.802	0.76%
QC value within limits for Co 228.616 Recovery = 99.41%						
Cr 267.716†	23619.3	495.50 µg/L	3.839	495.50 ppb	3.839	0.77%
QC value within limits for Cr 267.716 Recovery = 99.10%						
Cu 324.752†	162962.3	497.62 µg/L	0.733	497.62 ppb	0.733	0.15%
QC value within limits for Cu 324.752 Recovery = 99.52%						
Fe 238.204 Radial†	3679.4	5171.6 µg/L	60.93	5171.6 ppb	60.93	1.18%
QC value within limits for Fe 238.204 Radial Recovery = 103.43%						
K 766.490 Radial†	18344.1	5009.8 µg/L	17.54	5009.8 ppb	17.54	0.35%
QC value within limits for K 766.490 Radial Recovery = 100.20%						
Mg 279.077 IEC†	2477.6	5145.2 µg/L	46.64	5145.2 ppb	46.64	0.91%
QC value within limits for Mg 279.077 IEC Recovery = 102.90%						
Mn 257.610†	370469.0	498.31 µg/L	1.015	498.31 ppb	1.015	0.20%
QC value within limits for Mn 257.610 Recovery = 99.66%						
Mo 202.031†	4821.7	522.92 µg/L	5.442	522.92 ppb	5.442	1.04%
QC value within limits for Mo 202.031 Recovery = 104.58%						
Na 589.592 Radial†	98176.0	10071 µg/L	9.9	10071 ppb	9.9	0.10%
QC value within limits for Na 589.592 Radial Recovery = 100.71%						
Ni 231.604†	10408.7	500.67 µg/L	4.305	500.67 ppb	4.305	0.86%
QC value within limits for Ni 231.604 Recovery = 100.13%						
P 214.914†	3890.4	2527.0 µg/L	31.86	2527.0 ppb	31.86	1.26%
QC value within limits for P 214.914 Recovery = 101.08%						
Pb 220.353†	2619.3	507.00 µg/L	4.644	507.00 ppb	4.644	0.92%
QC value within limits for Pb 220.353 Recovery = 101.40%						
S 181.975 Axial†	589.5	1038.9 µg/L	12.61	1038.9 ppb	12.61	1.21%
QC value within limits for S 181.975 Axial Recovery = 103.89%						
Sb 206.836†	1371.5	521.88 µg/L	7.418	521.88 ppb	7.418	1.42%
QC value within limits for Sb 206.836 Recovery = 104.38%						
Se 196.026†	706.6	501 µg/L	8.4	501 ppb	8.4	1.67%
QC value within limits for Se 196.026 Recovery = 100.23%						
SiO2 †	93831.8	5472.9 µg/L	44.81	5472.9 ppb	44.81	0.82%
QC value within limits for SiO2 Recovery = 102.35%						
Si 251.611†	91801.8	2510 µg/L	21.7	2510 ppb	21.7	0.86%
QC value within limits for Si 251.611 Recovery = 100.53%						
Sn 189.927†	2320.0	504.75 µg/L	5.782	504.75 ppb	5.782	1.15%
QC value within limits for Sn 189.927 Recovery = 100.95%						
Sr 421.552†	200153.9	503.98 µg/L	0.742	503.98 ppb	0.742	0.15%
QC value within limits for Sr 421.552 Recovery = 100.80%						
Ti 334.940†	510455.0	505.21 µg/L	0.906	505.21 ppb	0.906	0.18%
QC value within limits for Ti 334.940 Recovery = 101.04%						
Tl 190.801†	1555.3	499.69 µg/L	4.948	499.69 ppb	4.948	0.99%
QC value within limits for Tl 190.801 Recovery = 99.94%						
U 409.014†	10352.2	505.44 µg/L	4.439	505.44 ppb	4.439	0.88%
QC value within limits for U 409.014 Recovery = 101.09%						
V 292.402†	46063.6	501.74 µg/L	3.675	501.74 ppb	3.675	0.73%
QC value within limits for V 292.402 Recovery = 100.35%						
Zn 213.857†	25832.1	497.83 µg/L	3.940	497.83 ppb	3.940	0.79%
QC value within limits for Zn 213.857 Recovery = 99.57%						

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:
User canceled analysis.

Autosampler Location: 8
Date Collected: 3/14/2006 08:19:00
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Analysis Begun

Start Time: 3/14/2006 08:20:38
Logged In Analyst: Administrator
Spectrometer Model: Optima 4300 DV, S/N 077N2061001

Plasma On Time: 3/13/2006 03:58:47
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

Sequence No.: 14
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 08:20:38
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71939.9	71939.9	99.8	%			08:22:22
1	Al 396.153Radial†	38.9	2.9	0.4593	µg/L	0.4593	ppb	08:22:22
1	Ca 317.933Radial†	281.6	26.6	3.9252	µg/L	3.9252	ppb	08:22:42
1	Fe 238.204 Radial†	45.0	4.5	6.2817	µg/L	6.2817	ppb	08:22:42
1	K 766.490 Radial†	1092.1	17.1	4.6761	µg/L	4.6761	ppb	08:22:22
1	Mg 279.077 IEC†	-1.6	-2.8	-5.8112	µg/L	-5.8112	ppb	08:22:42
1	Na 589.592 Radial†	789.2	-393.6	-40.376	µg/L	-40.376	ppb	08:22:22
1	Sr 421.552†	41.2	36.7	0.0923	µg/L	0.0923	ppb	08:22:22
1	Sc 361.383	1523298.7	1523298.7	99.656	%			08:23:40
1	Y 371.029	844784.4	844784.4	99.656	%			08:23:40
1	Ag 328.068†	-911.9	3.5	0.0205	µg/L	0.0205	ppb	08:23:46
1	As 188.979†	27.1	24.8	10.220	µg/L	10.220	ppb	08:24:06
1	B 249.677†	492.6	408.6	19.098	µg/L	19.098	ppb	08:24:06
1	Ba 233.527†	-80.6	36.8	0.2960	µg/L	0.2960	ppb	08:24:06
1	Be 313.107†	384.4	22.7	0.0119	µg/L	0.0119	ppb	08:23:46
1	Cd 226.502†	-18.8	13.9	0.3816	µg/L	0.3816	ppb	08:24:06
1	Co 228.616†	-55.4	7.1	0.1691	µg/L	0.1691	ppb	08:24:06
1	Cr 267.716†	81.6	26.8	0.5625	µg/L	0.5625	ppb	08:24:06
1	Cu 324.752†	4018.8	167.5	0.5122	µg/L	0.5122	ppb	08:23:46
1	Mn 257.610†	493.4	123.8	0.1670	µg/L	0.1670	ppb	08:24:06
1	Mo 202.031†	1.5	14.8	1.6079	µg/L	1.6079	ppb	08:24:06
1	Ni 231.604†	160.0	3.1	0.1509	µg/L	0.1509	ppb	08:24:06
1	P 214.914†	160.9	-5.3	-3.4940	µg/L	-3.4940	ppb	08:24:06
1	Pb 220.353†	30.0	23.2	4.4959	µg/L	4.4959	ppb	08:24:06
1	S 181.975 Axial†	34.5	4.9	8.6870	µg/L	8.6870	ppb	08:24:06
1	Sb 206.836†	31.4	15.4	5.8192	µg/L	5.8192	ppb	08:24:06
1	Se 196.026†	-20.2	4.3	3.04	µg/L	3.04	ppb	08:24:06
1	SiO2 †	1028.2	315.9	18.424	µg/L	18.424	ppb	08:24:06
1	Sn 189.927†	-18.4	4.4	0.9552	µg/L	0.9552	ppb	08:24:06
1	Ti 334.940†	728.7	188.3	0.1866	µg/L	0.1866	ppb	08:23:46
1	Tl 190.801†	-14.6	15.0	4.8104	µg/L	4.8104	ppb	08:24:06
1	U 409.014†	343.6	-22.5	-1.0981	µg/L	-1.0981	ppb	08:23:46
1	V 292.402†	-115.5	-30.7	-0.3138	µg/L	-0.3138	ppb	08:23:46
1	Zn 213.857†	334.1	41.0	0.7914	µg/L	0.7914	ppb	08:24:06
1	Si 251.611†	972.6	268.0	7.34	µg/L	7.34	ppb	08:25:28
2	Sc RADIAL	72380.3	72380.3	100	%			08:22:47
2	Al 396.153Radial†	82.1	45.7	8.3614	µg/L	8.3614	ppb	08:22:47

2	Ca 317.933Radial†	292.3	35.6	5.2479 µg/L	5.2479 ppb	08:23:07
2	Fe 238.204 Radial†	42.1	1.3	1.7618 µg/L	1.7618 ppb	08:23:07
2	K 766.490 Radial†	1097.5	15.9	4.3413 µg/L	4.3413 ppb	08:22:47
2	Mg 279.077 IEC†	8.6	7.3	15.267 µg/L	15.267 ppb	08:23:07
2	Na 589.592 Radial†	804.4	-383.3	-39.317 µg/L	-39.317 ppb	08:22:47
2	Sr 421.552†	73.9	69.0	0.1737 µg/L	0.1737 ppb	08:22:47
2	Sc 361.383	1534841.4	1534841.4	100.41 %		08:24:11
2	Y 371.029	850912.4	850912.4	100.38 %		08:24:11
2	Ag 328.068†	-847.2	74.8	0.4188 µg/L	0.4188 ppb	08:24:16
2	As 188.979†	26.6	24.0	9.9083 µg/L	9.9083 ppb	08:24:37
2	B 249.677†	479.8	392.1	18.329 µg/L	18.329 ppb	08:24:37
2	Ba 233.527†	-71.9	46.0	0.3708 µg/L	0.3708 ppb	08:24:37
2	Be 313.107†	515.5	150.4	0.0785 µg/L	0.0785 ppb	08:24:16
2	Cd 226.502†	-16.9	15.9	0.4380 µg/L	0.4380 ppb	08:24:37
2	Co 228.616†	-53.2	9.8	0.2318 µg/L	0.2318 ppb	08:24:37
2	Cr 267.716†	92.0	36.5	0.7657 µg/L	0.7657 ppb	08:24:37
2	Cu 324.752†	4089.4	207.5	0.6296 µg/L	0.6296 ppb	08:24:16
2	Mn 257.610†	581.3	207.7	0.2792 µg/L	0.2792 ppb	08:24:37
2	Mo 202.031†	-0.8	12.6	1.3629 µg/L	1.3629 ppb	08:24:37
2	Ni 231.604†	168.3	10.2	0.4934 µg/L	0.4934 ppb	08:24:37
2	P 214.914†	166.3	-1.2	-0.7882 µg/L	-0.7882 ppb	08:24:37
2	Pb 220.353†	32.1	25.1	4.8560 µg/L	4.8560 ppb	08:24:37
2	S 181.975 Axial†	43.0	13.2	23.189 µg/L	23.189 ppb	08:24:37
2	Sb 206.836†	30.1	13.9	5.2406 µg/L	5.2406 ppb	08:24:37
2	Se 196.026†	-26.5	-1.8	-1.26 µg/L	-1.26 ppb	08:24:37
2	SiO2 †	1061.1	340.9	19.881 µg/L	19.881 ppb	08:24:37
2	Sn 189.927†	-11.2	11.8	2.5540 µg/L	2.5540 ppb	08:24:37
2	Ti 334.940†	628.8	83.4	0.0823 µg/L	0.0823 ppb	08:24:16
2	Tl 190.801†	-22.0	7.8	2.4898 µg/L	2.4898 ppb	08:24:37
2	U 409.014†	452.6	83.5	4.0558 µg/L	4.0558 ppb	08:24:16
2	V 292.402†	-48.8	36.6	0.4130 µg/L	0.4130 ppb	08:24:16
2	Zn 213.857†	332.1	36.5	0.7046 µg/L	0.7046 ppb	08:24:37
2	Si 251.611†	995.2	283.2	7.75 µg/L	7.75 ppb	08:25:49
3	Sc RADIAL	72401.4	72401.4	100 %		08:23:12
3	Al 396.153Radial†	57.1	20.8	3.7471 µg/L	3.7471 ppb	08:23:12
3	Ca 317.933Radial†	295.5	38.7	5.7026 µg/L	5.7026 ppb	08:23:32
3	Fe 238.204 Radial†	42.8	2.0	2.7712 µg/L	2.7712 ppb	08:23:32
3	K 766.490 Radial†	1028.4	-53.3	-14.552 µg/L	-14.552 ppb	08:23:12
3	Mg 279.077 IEC†	2.3	1.1	2.3522 µg/L	2.3522 ppb	08:23:32
3	Na 589.592 Radial†	729.4	-458.2	-46.999 µg/L	-46.999 ppb	08:23:12
3	Sr 421.552†	100.0	95.0	0.2391 µg/L	0.2391 ppb	08:23:12
3	Sc 361.383	1533606.0	1533606.0	100.33 %		08:24:42
3	Y 371.029	849635.1	849635.1	100.23 %		08:24:42
3	Ag 328.068†	-884.4	37.1	0.2070 µg/L	0.2070 ppb	08:24:47
3	As 188.979†	27.6	25.1	10.329 µg/L	10.329 ppb	08:25:08
3	B 249.677†	472.0	384.7	17.982 µg/L	17.982 ppb	08:25:08
3	Ba 233.527†	-83.8	34.1	0.2744 µg/L	0.2744 ppb	08:25:08
3	Be 313.107†	409.7	45.3	0.0236 µg/L	0.0236 ppb	08:24:47
3	Cd 226.502†	-18.8	14.0	0.3845 µg/L	0.3845 ppb	08:25:08
3	Co 228.616†	-51.4	11.5	0.2734 µg/L	0.2734 ppb	08:25:08
3	Cr 267.716†	66.2	10.9	0.2273 µg/L	0.2273 ppb	08:25:08
3	Cu 324.752†	4025.3	146.9	0.4467 µg/L	0.4467 ppb	08:24:47
3	Mn 257.610†	520.4	147.4	0.1984 µg/L	0.1984 ppb	08:25:08
3	Mo 202.031†	2.4	15.7	1.7023 µg/L	1.7023 ppb	08:25:08
3	Ni 231.604†	151.1	-6.8	-0.3231 µg/L	-0.3231 ppb	08:25:08
3	P 214.914†	175.9	8.5	5.5125 µg/L	5.5125 ppb	08:25:08
3	Pb 220.353†	28.9	21.9	4.2336 µg/L	4.2336 ppb	08:25:08
3	S 181.975 Axial†	38.9	9.1	16.021 µg/L	16.021 ppb	08:25:08
3	Sb 206.836†	39.7	23.5	8.8701 µg/L	8.8701 ppb	08:25:08
3	Se 196.026†	-20.6	4.0	2.87 µg/L	2.87 ppb	08:25:08
3	SiO2 †	1020.1	300.9	17.551 µg/L	17.551 ppb	08:25:08
3	Sn 189.927†	-15.3	7.6	1.6553 µg/L	1.6553 ppb	08:25:08
3	Ti 334.940†	718.5	173.2	0.1717 µg/L	0.1717 ppb	08:24:47
3	Tl 190.801†	-25.4	4.3	1.3785 µg/L	1.3785 ppb	08:25:08
3	U 409.014†	395.0	26.5	1.2825 µg/L	1.2825 ppb	08:24:47
3	V 292.402†	-109.0	-23.4	-0.2332 µg/L	-0.2332 ppb	08:24:47
3	Zn 213.857†	333.2	37.9	0.7320 µg/L	0.7320 ppb	08:25:08
3	Si 251.611†	1007.6	296.4	8.11 µg/L	8.11 ppb	08:26:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1530582.1	100.13	%	0.415				0.41%
Sc RADIAL	72240.5	100	%	0.4				0.36%
Y 371.029	848444.0	100.09	%	0.381				0.38%
Ag 328.068†	38.5	0.2155	µg/L	0.19930	0.2155	ppb	0.19930	92.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	23.1	4.1893	µg/L	3.96955	4.1893	ppb	3.96955	94.76%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	24.6	10.152	µg/L	0.2182	10.152	ppb	0.2182	2.15%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	395.1	18.470	µg/L	0.5711	18.470	ppb	0.5711	3.09%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	39.0	0.3137	µg/L	0.05063	0.3137	ppb	0.05063	16.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	72.8	0.0380	µg/L	0.03554	0.0380	ppb	0.03554	93.50%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	33.7	4.9586	µg/L	0.92333	4.9586	ppb	0.92333	18.62%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	14.6	0.4014	µg/L	0.03175	0.4014	ppb	0.03175	7.91%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	9.5	0.2248	µg/L	0.05250	0.2248	ppb	0.05250	23.36%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	24.7	0.5185	µg/L	0.27192	0.5185	ppb	0.27192	52.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	173.9	0.5295	µg/L	0.09269	0.5295	ppb	0.09269	17.51%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204 Radial†	2.6	3.6049	µg/L	2.37248	3.6049	ppb	2.37248	65.81%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated								
K 766.490 Radial†	-6.8	-1.8450	µg/L	11.00616	-1.8450	ppb	11.00616	596.55%
QC value within limits for K 766.490 Radial Recovery = Not calculated								
Mg 279.077 IEC†	1.9	3.9359	µg/L	10.62786	3.9359	ppb	10.62786	270.02%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated								
Mn 257.610†	159.7	0.2149	µg/L	0.05789	0.2149	ppb	0.05789	26.94%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	14.4	1.5577	µg/L	0.17522	1.5577	ppb	0.17522	11.25%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592 Radial†	-411.7	-42.231	µg/L	4.1632	-42.231	ppb	4.1632	9.86%
QC value within limits for Na 589.592 Radial Recovery = Not calculated								
Ni 231.604†	2.2	0.1071	µg/L	0.40998	0.1071	ppb	0.40998	382.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	0.6	0.4101	µg/L	4.62128	0.4101	ppb	4.62128	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	23.4	4.5285	µg/L	0.31250	4.5285	ppb	0.31250	6.90%
QC value within limits for Pb 220.353 Recovery = Not calculated								
S 181.975 Axial†	9.1	15.966	µg/L	7.2513	15.966	ppb	7.2513	45.42%
QC value within limits for S 181.975 Axial Recovery = Not calculated								
Sb 206.836†	17.6	6.6433	µg/L	1.95000	6.6433	ppb	1.95000	29.35%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.2	1.55	µg/L	2.432	1.55	ppb	2.432	156.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
SiO2 †	319.2	18.619	µg/L	1.1772	18.619	ppb	1.1772	6.32%
QC value within limits for SiO2 Recovery = Not calculated								
Si 251.611†	282.5	7.73	µg/L	0.388	7.73	ppb	0.388	5.02%
QC value within limits for Si 251.611 Recovery = Not calculated								
Sn 189.927†	7.9	1.7215	µg/L	0.80148	1.7215	ppb	0.80148	46.56%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 421.552†	66.9	0.1684	µg/L	0.07357	0.1684	ppb	0.07357	43.69%
QC value within limits for Sr 421.552 Recovery = Not calculated								
Ti 334.940†	148.3	0.1469	µg/L	0.05644	0.1469	ppb	0.05644	38.43%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	9.0	2.8929	µg/L	1.75106	2.8929	ppb	1.75106	60.53%
QC value within limits for Tl 190.801 Recovery = Not calculated								
U 409.014†	29.1	1.4134	µg/L	2.57944	1.4134	ppb	2.57944	182.50%
QC value within limits for U 409.014 Recovery = Not calculated								
V 292.402†	-5.8	-0.0447	µg/L	0.39841	-0.0447	ppb	0.39841	892.21%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	38.5	0.7427	µg/L	0.04438	0.7427	ppb	0.04438	5.98%
QC value within limits for Zn 213.857 Recovery = Not calculated								

All analyte(s) passed QC.

Analytical Sequence
Method: General Eng.2AZ

Seq.	Loc.	ID	Status
1	8	S0	Applied
2	2	S0.1	Applied
3	3	S0.5	Applied
4	4	SCAL	Applied
5	5	S10	Applied
6	9	ICV	QC Passed
7	10	ICB	QC Passed
8	11	PQL	QC Failed
9	13	ICSA	QC Passed
10	14	ICSAB	QC Passed
11	15	LR1	QC Passed
12	18	LR2	QC Failed
13	7	CCV	QC Passed
14	8	CCB	QC Passed

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Analysis Begun

Start Time: 3/14/2006 08:40:03
Logged In Analyst: Administrator
Spectrometer Model: Optima 4300 DV, S/N 077N2061001

Plasma On Time: 3/13/2006 03:58:47
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Sample Information\031406A.sif
Batch ID:
Results Data Set: 031406A
Results Library: C:\pe\Results\Results.mdb

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Method Loaded
Method Name: General Eng.2AZ
IEC File: 010406IEC.iec
Method Description:

Method Last Saved: 3/2/2006 21:57:10
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1
Sample ID: 1201049254|510930|1
Nebulizer Back Pressure: 232.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 3/14/2006 08:40:03
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049254|510930|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	72953.1	72953.1	101	%			08:41:50
1	Al 396.153Radial†	82.6	45.6	8.3932	µg/L	8.3932	ppb	08:41:50
1	Ca 317.933Radial†	402.1	141.8	20.895	µg/L	20.895	ppb	08:42:10

1	Fe 238.204 Radial†	43.4	2.2	3.0942 µg/L	3.0942 ppb	08:42:10
1	K 766.490 Radial†	1041.4	-48.1	-13.135 µg/L	-13.135 ppb	08:41:50
1	Mg 279.077 IEC†	9.4	8.1	16.760 µg/L	16.760 ppb	08:42:10
1	Na 589.592 Radial†	701.3	-491.4	-50.410 µg/L	-50.410 ppb	08:41:50
1	Sr 421.552†	57.6	52.3	0.1312 µg/L	0.1312 ppb	08:41:50
1	Sc 361.383	1545281.2	1545281.2	101.09 %		08:43:08
1	Y 371.029	855132.0	855132.0	100.88 %		08:43:08
1	Ag 328.068†	-838.2	89.4	0.4990 µg/L	0.4990 ppb	08:43:14
1	As 188.979†	12.5	9.9	4.0984 µg/L	4.0984 ppb	08:43:34
1	B 249.677†	330.8	241.5	11.286 µg/L	11.286 ppb	08:43:34
1	Ba 233.527†	-107.0	11.7	0.0943 µg/L	0.0943 ppb	08:43:34
1	Be 313.107†	333.0	-33.6	-0.0175 µg/L	-0.0175 ppb	08:43:14
1	Cd 226.502†	-26.6	6.4	0.1759 µg/L	0.1759 ppb	08:43:34
1	Co 228.616†	-64.1	-0.7	-0.0169 µg/L	-0.0169 ppb	08:43:34
1	Cr 267.716†	75.4	19.5	0.4092 µg/L	0.4092 ppb	08:43:34
1	Cu 324.752†	3993.2	84.9	0.2592 µg/L	0.2592 ppb	08:43:14
1	Mn 257.610†	441.7	65.7	0.0886 µg/L	0.0886 ppb	08:43:34
1	Mo 202.031†	-11.0	2.5	0.2722 µg/L	0.2722 ppb	08:43:34
1	Ni 231.604†	170.2	10.9	0.5224 µg/L	0.5224 ppb	08:43:34
1	P 214.914†	172.3	3.6	2.3713 µg/L	2.3713 ppb	08:43:34
1	Pb 220.353†	22.2	15.0	2.9078 µg/L	2.9078 ppb	08:43:34
1	S 181.975 Axial†	40.0	9.9	17.420 µg/L	17.420 ppb	08:43:34
1	Sb 206.836†	38.1	21.6	8.1464 µg/L	8.1464 ppb	08:43:34
1	Se 196.026†	-21.0	3.8	2.69 µg/L	2.69 ppb	08:43:34
1	SiO2 †	1110.3	382.4	22.306 µg/L	22.306 ppb	08:43:34
1	Sn 189.927†	-21.5	1.6	0.3419 µg/L	0.3419 ppb	08:43:34
1	Ti 334.940†	691.2	140.9	0.1399 µg/L	0.1399 ppb	08:43:14
1	Tl 190.801†	-33.2	-3.2	-1.0388 µg/L	-1.0388 ppb	08:43:34
1	U 409.014†	372.8	1.4	0.0680 µg/L	0.0680 ppb	08:43:14
1	V 292.402†	-100.1	-13.7	-0.1440 µg/L	-0.1440 ppb	08:43:14
1	Zn 213.857†	408.2	109.6	2.1174 µg/L	2.1174 ppb	08:43:34
1	Si 251.611†	1126.8	406.7	11.1 µg/L	11.1 ppb	08:44:57
2	Sc RADIAL	72815.5	72815.5	101 %		08:42:15
2	Al 396.153Radial†	101.2	64.2	11.802 µg/L	11.802 ppb	08:42:15
2	Ca 317.933Radial†	398.4	138.9	20.463 µg/L	20.463 ppb	08:42:35
2	Fe 238.204 Radial†	43.4	2.3	3.2056 µg/L	3.2056 ppb	08:42:35
2	K 766.490 Radial†	981.3	-105.7	-28.871 µg/L	-28.871 ppb	08:42:15
2	Mg 279.077 IEC†	6.9	5.6	11.637 µg/L	11.637 ppb	08:42:35
2	Na 589.592 Radial†	702.9	-488.5	-50.111 µg/L	-50.111 ppb	08:42:15
2	Sr 421.552†	10.7	6.0	0.0145 µg/L	0.0145 ppb	08:42:15
2	Sc 361.383	1544638.4	1544638.4	101.05 %		08:43:39
2	Y 371.029	854996.1	854996.1	100.86 %		08:43:39
2	Ag 328.068†	-879.1	48.6	0.2723 µg/L	0.2723 ppb	08:43:45
2	As 188.979†	15.4	12.8	5.2860 µg/L	5.2860 ppb	08:44:05
2	B 249.677†	334.9	245.7	11.485 µg/L	11.485 ppb	08:44:05
2	Ba 233.527†	-97.3	21.3	0.1719 µg/L	0.1719 ppb	08:44:05
2	Be 313.107†	362.7	-4.2	-0.0021 µg/L	-0.0021 ppb	08:43:45
2	Cd 226.502†	-30.8	2.2	0.0613 µg/L	0.0613 ppb	08:44:05
2	Co 228.616†	-54.8	8.5	0.2011 µg/L	0.2011 ppb	08:44:05
2	Cr 267.716†	74.6	18.7	0.3930 µg/L	0.3930 ppb	08:44:05
2	Cu 324.752†	3986.8	80.1	0.2459 µg/L	0.2459 ppb	08:43:45
2	Mn 257.610†	450.4	74.5	0.1004 µg/L	0.1004 ppb	08:44:05
2	Mo 202.031†	-7.7	5.7	0.6231 µg/L	0.6231 ppb	08:44:05
2	Ni 231.604†	160.6	1.5	0.0753 µg/L	0.0753 ppb	08:44:05
2	P 214.914†	160.6	-7.9	-5.1584 µg/L	-5.1584 ppb	08:44:05
2	Pb 220.353†	13.2	6.2	1.1927 µg/L	1.1927 ppb	08:44:05
2	S 181.975 Axial†	33.2	3.3	5.7216 µg/L	5.7216 ppb	08:44:05
2	Sb 206.836†	25.6	9.2	3.4747 µg/L	3.4747 ppb	08:44:05
2	Se 196.026†	-22.2	2.7	1.88 µg/L	1.88 ppb	08:44:05
2	SiO2 †	1139.0	411.3	23.988 µg/L	23.988 ppb	08:44:05
2	Sn 189.927†	-22.8	0.3	0.0721 µg/L	0.0721 ppb	08:44:05
2	Ti 334.940†	652.4	102.7	0.1019 µg/L	0.1019 ppb	08:43:45
2	Tl 190.801†	-32.3	-2.3	-0.7328 µg/L	-0.7328 ppb	08:44:05
2	U 409.014†	343.5	-27.4	-1.3299 µg/L	-1.3299 ppb	08:43:45
2	V 292.402†	-69.2	16.8	0.1863 µg/L	0.1863 ppb	08:43:45
2	Zn 213.857†	405.1	106.7	2.0619 µg/L	2.0619 ppb	08:44:05
2	Si 251.611†	1107.2	387.7	10.6 µg/L	10.6 ppb	08:45:17
3	Sc RADIAL	73016.4	73016.4	101 %		08:42:40
3	Al 396.153Radial†	76.8	39.8	7.3021 µg/L	7.3021 ppb	08:42:40
3	Ca 317.933Radial†	406.8	146.1	21.532 µg/L	21.532 ppb	08:43:00
3	Fe 238.204 Radial†	41.2	0.1	0.0808 µg/L	0.0808 ppb	08:43:00

3	K 766.490 Radial†	1062.2	-28.5	-7.7806 µg/L	-7.7806 ppb	08:42:40
3	Mg 279.077 IEC†	5.4	4.1	8.5800 µg/L	8.5800 ppb	08:43:00
3	Na 589.592 Radial†	692.4	-500.9	-51.380 µg/L	-51.380 ppb	08:42:40
3	Sr 421.552†	41.3	36.1	0.0904 µg/L	0.0904 ppb	08:42:40
3	Sc 361.383	1528958.3	1528958.3	100.03 %		08:44:10
3	Y 371.029	846533.3	846533.3	99.862 %		08:44:10
3	Ag 328.068†	-862.9	55.8	0.3109 µg/L	0.3109 ppb	08:44:15
3	As 188.979†	9.8	7.4	3.0402 µg/L	3.0402 ppb	08:44:36
3	B 249.677†	333.0	247.1	11.552 µg/L	11.552 ppb	08:44:36
3	Ba 233.527†	-97.6	20.1	0.1614 µg/L	0.1614 ppb	08:44:36
3	Be 313.107†	400.7	37.6	0.0196 µg/L	0.0196 ppb	08:44:15
3	Cd 226.502†	-35.7	-3.0	-0.0817 µg/L	-0.0817 ppb	08:44:36
3	Co 228.616†	-59.2	3.5	0.0837 µg/L	0.0837 ppb	08:44:36
3	Cr 267.716†	62.8	7.7	0.1618 µg/L	0.1618 ppb	08:44:36
3	Cu 324.752†	4038.7	172.5	0.5300 µg/L	0.5300 ppb	08:44:15
3	Mn 257.610†	440.2	68.8	0.0925 µg/L	0.0925 ppb	08:44:36
3	Mo 202.031†	-8.4	4.9	0.5330 µg/L	0.5330 ppb	08:44:36
3	Ni 231.604†	167.5	10.0	0.4801 µg/L	0.4801 ppb	08:44:36
3	P 214.914†	162.4	-4.4	-2.8733 µg/L	-2.8733 ppb	08:44:36
3	Pb 220.353†	25.9	19.0	3.6805 µg/L	3.6805 ppb	08:44:36
3	S 181.975 Axial†	35.7	6.1	10.683 µg/L	10.683 ppb	08:44:36
3	Sb 206.836†	29.8	13.7	5.1838 µg/L	5.1838 ppb	08:44:36
3	Se 196.026†	-14.8	9.8	6.92 µg/L	6.92 ppb	08:44:36
3	SiO2 †	1141.5	425.3	24.809 µg/L	24.809 ppb	08:44:36
3	Sn 189.927†	-22.7	0.1	0.0299 µg/L	0.0299 ppb	08:44:36
3	Ti 334.940†	622.9	79.9	0.0796 µg/L	0.0796 ppb	08:44:15
3	Tl 190.801†	-34.1	-4.4	-1.4135 µg/L	-1.4135 ppb	08:44:36
3	U 409.014†	303.3	-64.1	-3.1138 µg/L	-3.1138 ppb	08:44:15
3	V 292.402†	-102.8	-17.5	-0.1861 µg/L	-0.1861 ppb	08:44:15
3	Zn 213.857†	406.4	112.1	2.1651 µg/L	2.1651 ppb	08:44:36
3	Si 251.611†	1116.2	407.9	11.2 µg/L	11.2 ppb	08:45:37

Mean Data: 1201049254|510930|1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1539626.0	100.72	%	0.605				0.60%
Sc RADIAL	72928.3	101	%	0.1				0.14%
Y 371.029	852220.4	100.53	%	0.581				0.58%
Ag 328.068†	64.6	0.3607	µg/L	0.12129	0.3607	ppb	0.12129	33.62%
Al 396.153Radial†	49.8	9.1657	µg/L	2.34721	9.1657	ppb	2.34721	25.61%
As 188.979†	10.1	4.1416	µg/L	1.12354	4.1416	ppb	1.12354	27.13%
B 249.677†	244.8	11.441	µg/L	0.1380	11.441	ppb	0.1380	1.21%
Ba 233.527†	17.7	0.1425	µg/L	0.04208	0.1425	ppb	0.04208	29.52%
Be 313.107†	-0.1	0.0000	µg/L	0.01863	0.0000	ppb	0.01863	>999.9%
Ca 317.933Radial†	142.3	20.964	µg/L	0.5378	20.964	ppb	0.5378	2.57%
Cd 226.502†	1.9	0.0518	µg/L	0.12909	0.0518	ppb	0.12909	248.98%
Co 228.616†	3.8	0.0893	µg/L	0.10912	0.0893	ppb	0.10912	122.18%
Cr 267.716†	15.3	0.3213	µg/L	0.13842	0.3213	ppb	0.13842	43.08%
Cu 324.752†	112.5	0.3451	µg/L	0.16034	0.3451	ppb	0.16034	46.47%
Fe 238.204 Radial†	1.5	2.1269	µg/L	1.77284	2.1269	ppb	1.77284	83.36%
K 766.490 Radial†	-60.8	-16.595	µg/L	10.9628	-16.595	ppb	10.9628	66.06%
Mg 279.077 IEC†	5.9	12.326	µg/L	4.1331	12.326	ppb	4.1331	33.53%
Mn 257.610†	69.7	0.0938	µg/L	0.00605	0.0938	ppb	0.00605	6.44%
Mo 202.031†	4.4	0.4761	µg/L	0.18225	0.4761	ppb	0.18225	38.28%
Na 589.592 Radial†	-493.6	-50.633	µg/L	0.6635	-50.633	ppb	0.6635	1.31%
Ni 231.604†	7.5	0.3593	µg/L	0.24681	0.3593	ppb	0.24681	68.69%
P 214.914†	-2.9	-1.8868	µg/L	3.86055	-1.8868	ppb	3.86055	204.61%
Pb 220.353†	13.4	2.5937	µg/L	1.27332	2.5937	ppb	1.27332	49.09%
S 181.975 Axial†	6.4	11.275	µg/L	5.8717	11.275	ppb	5.8717	52.08%
Sb 206.836†	14.9	5.6017	µg/L	2.36372	5.6017	ppb	2.36372	42.20%
Se 196.026†	5.4	3.83	µg/L	2.708	3.83	ppb	2.708	70.65%
SiO2 †	406.3	23.701	µg/L	1.2762	23.701	ppb	1.2762	5.38%
Si 251.611†	400.8	11.0	µg/L	0.31	11.0	ppb	0.31	2.82%
Sn 189.927†	0.7	0.1480	µg/L	0.16928	0.1480	ppb	0.16928	114.38%
Sr 421.552†	31.5	0.0787	µg/L	0.05919	0.0787	ppb	0.05919	75.20%
Ti 334.940†	107.8	0.1071	µg/L	0.03050	0.1071	ppb	0.03050	28.47%
Tl 190.801†	-3.3	-1.0617	µg/L	0.34092	-1.0617	ppb	0.34092	32.11%
U 409.014†	-30.0	-1.4586	µg/L	1.59478	-1.4586	ppb	1.59478	109.34%
V 292.402†	-4.8	-0.0479	µg/L	0.20393	-0.0479	ppb	0.20393	425.75%
Zn 213.857†	109.5	2.1148	µg/L	0.05165	2.1148	ppb	0.05165	2.44%

Sequence No.: 2
Sample ID: 1201049255|510930|1
Nebulizer Back Pressure: 232.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 3/14/2006 08:47:46
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049255|510930|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71626.2	71626.2	99.3	%			08:49:31
1	Al 396.153Radial†	29651.4	29809.8	5469.2	µg/L	5469.2	ppb	08:49:31
1	Ca 317.933Radial†	37616.8	37608.0	5541.6	µg/L	5541.6	ppb	08:49:51
1	Fe 238.204 Radial†	3981.2	3966.7	5575.4	µg/L	5575.4	ppb	08:49:51
1	K 766.490 Radial†	21090.7	20151.7	5503.4	µg/L	5503.4	ppb	08:49:31
1	Mg 279.077 IEC†	2670.2	2686.6	5578.3	µg/L	5578.3	ppb	08:49:51
1	Na 589.592 Radial†	54669.0	53843.1	5523.1	µg/L	5523.1	ppb	08:49:31
1	Sr 421.552†	217772.7	219196.4	551.94	µg/L	551.94	ppb	08:49:31
1	Sc 361.383	1504376.9	1504376.9	98.419	%			08:50:53
1	Y 371.029	825899.3	825899.3	97.428	%			08:50:53
1	Ag 328.068†	92633.7	95040.7	532.44	µg/L	532.44	ppb	08:50:58
1	As 188.979†	1310.6	1329.3	553.13	µg/L	553.13	ppb	08:51:18
1	B 249.677†	11681.5	11783.4	551.82	µg/L	551.82	ppb	08:50:58
1	Ba 233.527†	67426.6	68627.6	552.54	µg/L	552.54	ppb	08:50:58
1	Be 313.107†	1018994.1	1035004.7	539.59	µg/L	539.59	ppb	08:50:53
1	Cd 226.502†	19057.8	19396.8	533.76	µg/L	533.76	ppb	08:50:58
1	Co 228.616†	22506.8	22931.2	539.68	µg/L	539.68	ppb	08:50:58
1	Cr 267.716†	24877.0	25221.6	529.43	µg/L	529.43	ppb	08:50:58
1	Cu 324.752†	177531.3	176518.8	539.03	µg/L	539.03	ppb	08:50:53
1	Mn 257.610†	391950.7	397877.5	535.18	µg/L	535.18	ppb	08:50:53
1	Mo 202.031†	4898.6	4990.6	541.26	µg/L	541.26	ppb	08:51:18
1	Ni 231.604†	11077.7	11098.2	533.80	µg/L	533.80	ppb	08:50:58
1	P 214.914†	1082.4	933.0	603.15	µg/L	603.15	ppb	08:51:18
1	Pb 220.353†	2795.3	2833.3	548.39	µg/L	548.39	ppb	08:51:18
1	S 181.975 Axial†	2984.3	3002.6	5279.4	µg/L	5279.4	ppb	08:51:18
1	Sb 206.836†	1446.3	1453.5	552.96	µg/L	552.96	ppb	08:51:18
1	Se 196.026†	705.9	741.9	526	µg/L	526	ppb	08:51:18
1	SiO2 †	189623.4	191954.5	11196	µg/L	11196	ppb	08:50:53
1	Sn 189.927†	2348.4	2409.0	524.15	µg/L	524.15	ppb	08:51:18
1	Ti 334.940†	527069.5	534995.8	529.49	µg/L	529.49	ppb	08:50:53
1	Tl 190.801†	1612.1	1667.7	535.79	µg/L	535.79	ppb	08:51:18
1	U 409.014†	11320.6	11135.2	543.69	µg/L	543.69	ppb	08:50:58
1	V 292.402†	48855.7	49726.0	541.39	µg/L	541.39	ppb	08:50:58
1	Zn 213.857†	27102.9	27244.3	525.00	µg/L	525.00	ppb	08:50:58
1	Si 251.611†	191459.5	193828.0	5310	µg/L	5310	ppb	08:52:30
2	Sc RADIAL	71210.0	71210.0	98.8	%			08:49:57
2	Al 396.153Radial†	29444.7	29775.0	5462.8	µg/L	5462.8	ppb	08:49:57
2	Ca 317.933Radial†	37839.8	38055.0	5607.5	µg/L	5607.5	ppb	08:50:17
2	Fe 238.204 Radial†	4003.0	4012.1	5639.3	µg/L	5639.3	ppb	08:50:17
2	K 766.490 Radial†	20888.2	20070.8	5481.3	µg/L	5481.3	ppb	08:49:57
2	Mg 279.077 IEC†	2671.8	2703.9	5614.1	µg/L	5614.1	ppb	08:50:17
2	Na 589.592 Radial†	54113.1	53601.8	5498.3	µg/L	5498.3	ppb	08:49:57
2	Sr 421.552†	216223.2	218908.7	551.21	µg/L	551.21	ppb	08:49:57
2	Sc 361.383	1504011.8	1504011.8	98.395	%			08:51:25
2	Y 371.029	825614.6	825614.6	97.395	%			08:51:25
2	Ag 328.068†	92762.6	95194.6	533.31	µg/L	533.31	ppb	08:51:31
2	As 188.979†	1307.8	1326.7	552.09	µg/L	552.09	ppb	08:51:51
2	B 249.677†	11693.5	11798.5	552.51	µg/L	552.51	ppb	08:51:31
2	Ba 233.527†	67457.0	68675.2	552.92	µg/L	552.92	ppb	08:51:31
2	Be 313.107†	1019931.1	1036208.2	540.22	µg/L	540.22	ppb	08:51:25
2	Cd 226.502†	19053.8	19397.3	533.77	µg/L	533.77	ppb	08:51:31
2	Co 228.616†	22552.4	22983.0	540.90	µg/L	540.90	ppb	08:51:31
2	Cr 267.716†	24898.6	25249.7	530.02	µg/L	530.02	ppb	08:51:31
2	Cu 324.752†	177668.4	176702.0	539.59	µg/L	539.59	ppb	08:51:25
2	Mn 257.610†	392578.5	398612.2	536.18	µg/L	536.18	ppb	08:51:25
2	Mo 202.031†	4891.9	4985.1	540.66	µg/L	540.66	ppb	08:51:51
2	Ni 231.604†	11084.3	11107.7	534.26	µg/L	534.26	ppb	08:51:31
2	P 214.914†	1085.5	936.4	605.35	µg/L	605.35	ppb	08:51:51

2	Pb 220.353†	2772.8	2811.2	544.11 µg/L	544.11 ppb	08:51:51
2	S 181.975 Axial†	2971.5	2990.3	5257.7 µg/L	5257.7 ppb	08:51:51
2	Sb 206.836†	1445.7	1453.2	552.85 µg/L	552.85 ppb	08:51:51
2	Se 196.026†	690.2	726.1	515 µg/L	515 ppb	08:51:51
2	SiO2 †	189982.8	192366.5	11220 µg/L	11220 ppb	08:51:25
2	Sn 189.927†	2360.9	2422.2	527.04 µg/L	527.04 ppb	08:51:51
2	Ti 334.940†	527688.3	535754.7	530.24 µg/L	530.24 ppb	08:51:25
2	Tl 190.801†	1615.8	1671.8	537.11 µg/L	537.11 ppb	08:51:51
2	U 409.014†	11383.0	11201.4	546.91 µg/L	546.91 ppb	08:51:31
2	V 292.402†	48833.5	49715.5	541.28 µg/L	541.28 ppb	08:51:31
2	Zn 213.857†	27034.1	27180.9	523.76 µg/L	523.76 ppb	08:51:31
2	Si 251.611†	189426.7	191809.3	5250 µg/L	5250 ppb	08:52:36
3	Sc RADIAL	71670.7	71670.7	99.4 %		08:50:22
3	Al 396.153Radial†	29577.4	29716.8	5452.1 µg/L	5452.1 ppb	08:50:22
3	Ca 317.933Radial†	37613.2	37580.9	5537.6 µg/L	5537.6 ppb	08:50:42
3	Fe 238.204 Radial†	3984.4	3967.4	5576.4 µg/L	5576.4 ppb	08:50:42
3	K 766.490 Radial†	21052.4	20100.0	5489.3 µg/L	5489.3 ppb	08:50:22
3	Mg 279.077 IEC†	2658.5	2673.0	5550.3 µg/L	5550.3 ppb	08:50:42
3	Na 589.592 Radial†	54555.2	53694.5	5507.9 µg/L	5507.9 ppb	08:50:22
3	Sr 421.552†	217227.9	218512.5	550.21 µg/L	550.21 ppb	08:50:22
3	Sc 361.383	1505708.5	1505708.5	98.506 %		08:51:58
3	Y 371.029	827237.8	827237.8	97.586 %		08:51:58
3	Ag 328.068†	93021.0	95350.6	534.17 µg/L	534.17 ppb	08:52:04
3	As 188.979†	1319.3	1336.9	556.29 µg/L	556.29 ppb	08:52:24
3	B 249.677†	11702.3	11794.1	552.33 µg/L	552.33 ppb	08:52:04
3	Ba 233.527†	67763.1	68908.6	554.80 µg/L	554.80 ppb	08:52:04
3	Be 313.107†	1022122.6	1037265.0	540.77 µg/L	540.77 ppb	08:51:58
3	Cd 226.502†	19127.7	19450.6	535.24 µg/L	535.24 ppb	08:52:04
3	Co 228.616†	22594.8	23000.3	541.31 µg/L	541.31 ppb	08:52:04
3	Cr 267.716†	24965.3	25288.9	530.84 µg/L	530.84 ppb	08:52:04
3	Cu 324.752†	177925.7	176759.6	539.76 µg/L	539.76 ppb	08:51:58
3	Mn 257.610†	393149.5	398742.2	536.34 µg/L	536.34 ppb	08:51:58
3	Mo 202.031†	4900.4	4988.1	540.99 µg/L	540.99 ppb	08:52:24
3	Ni 231.604†	11114.0	11125.1	535.09 µg/L	535.09 ppb	08:52:04
3	P 214.914†	1093.2	943.0	609.69 µg/L	609.69 ppb	08:52:24
3	Pb 220.353†	2797.5	2833.0	548.33 µg/L	548.33 ppb	08:52:24
3	S 181.975 Axial†	2980.0	2995.6	5267.0 µg/L	5267.0 ppb	08:52:24
3	Sb 206.836†	1462.0	1468.1	558.48 µg/L	558.48 ppb	08:52:24
3	Se 196.026†	700.6	735.9	522 µg/L	522 ppb	08:52:24
3	SiO2 †	190291.1	192461.9	11226 µg/L	11226 ppb	08:51:58
3	Sn 189.927†	2367.7	2426.5	527.96 µg/L	527.96 ppb	08:52:24
3	Ti 334.940†	528386.1	535858.7	530.34 µg/L	530.34 ppb	08:51:58
3	Tl 190.801†	1620.4	1674.6	538.01 µg/L	538.01 ppb	08:52:24
3	U 409.014†	11449.4	11255.8	549.56 µg/L	549.56 ppb	08:52:04
3	V 292.402†	49052.1	49881.5	543.07 µg/L	543.07 ppb	08:52:04
3	Zn 213.857†	27085.4	27202.1	524.18 µg/L	524.18 ppb	08:52:04
3	Si 251.611†	190818.8	193005.6	5280 µg/L	5280 ppb	08:52:41

Mean Data: 1201049255|510930|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1504699.1	98.440	%	0.0584				0.06%
Sc RADIAL	71502.3	99.2	%	0.35				0.36%
Y 371.029	826250.5	97.470	%	0.1022				0.10%
Ag 328.068†	95195.3	533.31	µg/L	0.866	533.31	ppb	0.866	0.16%
Al 396.153Radial†	29767.2	5461.3	µg/L	8.65	5461.3	ppb	8.65	0.16%
As 188.979†	1331.0	553.83	µg/L	2.186	553.83	ppb	2.186	0.39%
B 249.677†	11792.0	552.22	µg/L	0.355	552.22	ppb	0.355	0.06%
Ba 233.527†	68737.1	553.42	µg/L	1.211	553.42	ppb	1.211	0.22%
Be 313.107†	1036159.3	540.19	µg/L	0.590	540.19	ppb	0.590	0.11%
Ca 317.933Radial†	37748.0	5562.2	µg/L	39.24	5562.2	ppb	39.24	0.71%
Cd 226.502†	19414.9	534.25	µg/L	0.854	534.25	ppb	0.854	0.16%
Co 228.616†	22971.5	540.63	µg/L	0.845	540.63	ppb	0.845	0.16%
Cr 267.716†	25253.4	530.09	µg/L	0.709	530.09	ppb	0.709	0.13%
Cu 324.752†	176660.1	539.46	µg/L	0.382	539.46	ppb	0.382	0.07%
Fe 238.204 Radial†	3982.1	5597.1	µg/L	36.61	5597.1	ppb	36.61	0.65%
K 766.490 Radial†	20107.5	5491.3	µg/L	11.19	5491.3	ppb	11.19	0.20%
Mg 279.077 IEC†	2687.8	5580.9	µg/L	31.97	5580.9	ppb	31.97	0.57%
Mn 257.610†	398410.6	535.90	µg/L	0.628	535.90	ppb	0.628	0.12%
Mo 202.031†	4987.9	540.97	µg/L	0.301	540.97	ppb	0.301	0.06%

Na 589.592 Radial†	53713.1	5509.8 µg/L	12.48	5509.8 ppb	12.48	0.23%
Ni 231.604†	11110.4	534.38 µg/L	0.654	534.38 ppb	0.654	0.12%
P 214.914†	937.5	606.06 µg/L	3.329	606.06 ppb	3.329	0.55%
Pb 220.353†	2825.8	546.94 µg/L	2.455	546.94 ppb	2.455	0.45%
S 181.975 Axial†	2996.2	5268.0 µg/L	10.88	5268.0 ppb	10.88	0.21%
Sb 206.836†	1458.3	554.76 µg/L	3.219	554.76 ppb	3.219	0.58%
Se 196.026†	734.6	521 µg/L	5.6	521 ppb	5.6	1.08%
SiO2 †	192261.0	11214 µg/L	15.7	11214 ppb	15.7	0.14%
Si 251.611†	192880.9	5280 µg/L	27.8	5280 ppb	27.8	0.53%
Sn 189.927†	2419.2	526.38 µg/L	1.989	526.38 ppb	1.989	0.38%
Sr 421.552†	218872.5	551.12 µg/L	0.865	551.12 ppb	0.865	0.16%
Ti 334.940†	535536.4	530.02 µg/L	0.466	530.02 ppb	0.466	0.09%
Tl 190.801†	1671.4	536.97 µg/L	1.118	536.97 ppb	1.118	0.21%
U 409.014†	11197.5	546.72 µg/L	2.937	546.72 ppb	2.937	0.54%
V 292.402†	49774.3	541.91 µg/L	1.003	541.91 ppb	1.003	0.19%
Zn 213.857†	27209.1	524.31 µg/L	0.628	524.31 ppb	0.628	0.12%

Sequence No.: 3
Sample ID: 157897001|510930|1
Nebulizer Back Pressure: 232.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 3/14/2006 08:54:50
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 157897001|510930|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72101.6	72101.6	100	%			08:56:35
1	Al 396.153Radial†	528.8	492.7	90.761	µg/L	90.761	ppb	08:56:35
1	Ca 317.933Radial†	18381.2	18124.2	2670.6	µg/L	2670.6	ppb	08:56:35
1	Fe 238.204 Radial†	100.1	59.4	83.514	µg/L	83.514	ppb	08:56:55
1	K 766.490 Radial†	1394.8	317.4	86.669	µg/L	86.669	ppb	08:56:35
1	Mg 279.077 IEC†	80.2	79.0	163.50	µg/L	163.50	ppb	08:56:55
1	Na 589.592 Radial†	65972.4	64782.8	6645.3	µg/L	6645.3	ppb	08:56:35
1	Sr 421.552†	4945.0	4940.0	12.367	µg/L	12.367	ppb	08:56:35
1	Sc 361.383	1527736.9	1527736.9	99.947	%			08:57:54
1	Y 371.029	841362.9	841362.9	99.252	%			08:57:54
1	Ag 328.068†	-898.6	19.4	0.1281	µg/L	0.1281	ppb	08:58:00
1	As 188.979†	9.7	7.2	3.0018	µg/L	3.0018	ppb	08:58:20
1	B 249.677†	498.4	413.0	19.283	µg/L	19.283	ppb	08:58:20
1	Ba 233.527†	192.1	309.8	2.4918	µg/L	2.4918	ppb	08:58:20
1	Be 313.107†	392.3	29.5	0.0155	µg/L	0.0155	ppb	08:58:00
1	Cd 226.502†	-29.6	3.1	0.0765	µg/L	0.0765	ppb	08:58:20
1	Co 228.616†	-61.7	1.0	0.0208	µg/L	0.0208	ppb	08:58:20
1	Cr 267.716†	144.7	89.6	1.8807	µg/L	1.8807	ppb	08:58:20
1	Cu 324.752†	4048.1	185.1	0.5705	µg/L	0.5705	ppb	08:58:00
1	Mn 257.610†	2131.1	1761.0	2.3747	µg/L	2.3747	ppb	08:58:00
1	Mo 202.031†	-5.3	8.1	0.8768	µg/L	0.8768	ppb	08:58:20
1	Ni 231.604†	145.3	-12.0	-0.5347	µg/L	-0.5347	ppb	08:58:20
1	P 214.914†	171.2	4.5	2.8143	µg/L	2.8143	ppb	08:58:20
1	Pb 220.353†	16.5	9.6	1.8647	µg/L	1.8647	ppb	08:58:20
1	S 181.975 Axial†	42.4	12.8	22.529	µg/L	22.529	ppb	08:58:20
1	Sb 206.836†	26.4	10.4	3.9077	µg/L	3.9077	ppb	08:58:20
1	Se 196.026†	-23.8	0.8	0.666	µg/L	0.666	ppb	08:58:20
1	SiO2 †	459534.6	459063.2	26776	µg/L	26776	ppb	08:57:54
1	Sn 189.927†	-41.3	-18.5	-3.8271	µg/L	-3.8271	ppb	08:58:20
1	Ti 334.940†	3883.0	3342.2	3.3630	µg/L	3.3630	ppb	08:58:00
1	Tl 190.801†	-29.5	0.1	0.0436	µg/L	0.0436	ppb	08:58:20
1	U 409.014†	307.1	-60.0	-2.9134	µg/L	-2.9134	ppb	08:58:00
1	V 292.402†	-41.2	44.1	0.4832	µg/L	0.4832	ppb	08:58:00
1	Zn 213.857†	497.6	203.7	3.8524	µg/L	3.8524	ppb	08:58:20
1	Si 251.611†	457999.7	457535.4	12500	µg/L	12500	ppb	08:59:30
2	Sc RADIAL	72917.5	72917.5	101	%			08:57:00
2	Al 396.153Radial†	498.8	457.1	84.212	µg/L	84.212	ppb	08:57:00
2	Ca 317.933Radial†	18531.6	18067.2	2662.2	µg/L	2662.2	ppb	08:57:00
2	Fe 238.204 Radial†	99.4	57.6	80.945	µg/L	80.945	ppb	08:57:20
2	K 766.490 Radial†	1407.2	314.1	85.773	µg/L	85.773	ppb	08:57:00
2	Mg 279.077 IEC†	83.4	81.2	168.23	µg/L	168.23	ppb	08:57:20
2	Na 589.592 Radial†	66641.0	64705.7	6637.4	µg/L	6637.4	ppb	08:57:00
2	Sr 421.552†	5032.7	4971.4	12.447	µg/L	12.447	ppb	08:57:00
2	Sc 361.383	1536367.0	1536367.0	100.51	%			08:58:26
2	Y 371.029	845898.6	845898.6	99.787	%			08:58:26
2	Ag 328.068†	-833.0	89.8	0.5197	µg/L	0.5197	ppb	08:58:31
2	As 188.979†	12.0	9.6	3.9598	µg/L	3.9598	ppb	08:58:52
2	B 249.677†	504.7	416.4	19.445	µg/L	19.445	ppb	08:58:52
2	Ba 233.527†	182.4	299.1	2.4058	µg/L	2.4058	ppb	08:58:52
2	Be 313.107†	313.6	-51.0	-0.0265	µg/L	-0.0265	ppb	08:58:31
2	Cd 226.502†	-36.2	-3.3	-0.0980	µg/L	-0.0980	ppb	08:58:52
2	Co 228.616†	-60.1	2.9	0.0665	µg/L	0.0665	ppb	08:58:52
2	Cr 267.716†	137.9	82.1	1.7226	µg/L	1.7226	ppb	08:58:52
2	Cu 324.752†	4077.5	191.6	0.5877	µg/L	0.5877	ppb	08:58:31
2	Mn 257.610†	2114.2	1732.2	2.3357	µg/L	2.3357	ppb	08:58:31
2	Mo 202.031†	-5.1	8.2	0.8964	µg/L	0.8964	ppb	08:58:52
2	Ni 231.604†	152.7	-5.5	-0.2219	µg/L	-0.2219	ppb	08:58:52
2	P 214.914†	168.1	0.5	0.2053	µg/L	0.2053	ppb	08:58:52

2	Pb 220.353†	19.8	12.8	2.4831 µg/L	2.4831 ppb	08:58:52
2	S 181.975 Axial†	46.4	16.5	29.030 µg/L	29.030 ppb	08:58:52
2	Sb 206.836†	24.9	8.7	3.2752 µg/L	3.2752 ppb	08:58:52
2	Se 196.026†	-26.5	-1.8	-1.17 µg/L	-1.17 ppb	08:58:52
2	SiO2 †	462853.3	459782.3	26818 µg/L	26818 ppb	08:58:26
2	Sn 189.927†	-34.4	-11.4	-2.2834 µg/L	-2.2834 ppb	08:58:52
2	Ti 334.940†	3813.4	3251.2	3.2727 µg/L	3.2727 ppb	08:58:31
2	Tl 190.801†	-19.8	9.9	3.1888 µg/L	3.1888 ppb	08:58:52
2	U 409.014†	367.2	-2.0	-0.0966 µg/L	-0.0966 ppb	08:58:31
2	V 292.402†	-44.6	40.9	0.4520 µg/L	0.4520 ppb	08:58:31
2	Zn 213.857†	506.2	209.5	3.9650 µg/L	3.9650 ppb	08:58:52
2	Si 251.611†	460421.7	457371.0	12500 µg/L	12500 ppb	08:59:36
3	Sc RADIAL	72901.1	72901.1	101 %		08:57:26
3	Al 396.153Radial†	527.0	485.2	89.383 µg/L	89.383 ppb	08:57:26
3	Ca 317.933Radial†	18523.4	18063.2	2661.7 µg/L	2661.7 ppb	08:57:26
3	Fe 238.204 Radial†	98.2	56.5	79.347 µg/L	79.347 ppb	08:57:46
3	K 766.490 Radial†	1375.3	282.8	77.243 µg/L	77.243 ppb	08:57:26
3	Mg 279.077 IEC†	82.2	80.1	165.83 µg/L	165.83 ppb	08:57:46
3	Na 589.592 Radial†	66589.1	64669.2	6633.6 µg/L	6633.6 ppb	08:57:26
3	Sr 421.552†	5074.5	5013.8	12.554 µg/L	12.554 ppb	08:57:26
3	Sc 361.383	1534685.4	1534685.4	100.40 %		08:58:58
3	Y 371.029	845249.8	845249.8	99.711 %		08:58:58
3	Ag 328.068†	-855.0	66.9	0.3916 µg/L	0.3916 ppb	08:59:03
3	As 188.979†	4.4	1.9	0.8168 µg/L	0.8168 ppb	08:59:23
3	B 249.677†	486.5	398.8	18.622 µg/L	18.622 ppb	08:59:23
3	Ba 233.527†	197.2	314.0	2.5254 µg/L	2.5254 ppb	08:59:23
3	Be 313.107†	413.9	49.2	0.0257 µg/L	0.0257 ppb	08:59:03
3	Cd 226.502†	-31.8	1.0	0.0198 µg/L	0.0198 ppb	08:59:23
3	Co 228.616†	-64.2	-1.2	-0.0301 µg/L	-0.0301 ppb	08:59:23
3	Cr 267.716†	138.1	82.4	1.7280 µg/L	1.7280 ppb	08:59:23
3	Cu 324.752†	4001.7	120.6	0.3727 µg/L	0.3727 ppb	08:59:03
3	Mn 257.610†	2101.7	1722.1	2.3220 µg/L	2.3220 ppb	08:59:03
3	Mo 202.031†	-5.8	7.6	0.8252 µg/L	0.8252 ppb	08:59:23
3	Ni 231.604†	146.1	-11.9	-0.5303 µg/L	-0.5303 ppb	08:59:23
3	P 214.914†	177.9	10.3	6.6216 µg/L	6.6216 ppb	08:59:23
3	Pb 220.353†	12.5	5.5	1.0814 µg/L	1.0814 ppb	08:59:23
3	S 181.975 Axial†	45.2	15.4	27.004 µg/L	27.004 ppb	08:59:23
3	Sb 206.836†	24.9	8.8	3.3057 µg/L	3.3057 ppb	08:59:23
3	Se 196.026†	-25.3	-0.5	-0.291 µg/L	-0.291 ppb	08:59:23
3	SiO2 †	462563.2	459998.1	26830 µg/L	26830 ppb	08:58:58
3	Sn 189.927†	-32.6	-9.6	-1.8893 µg/L	-1.8893 ppb	08:59:23
3	Ti 334.940†	3860.9	3302.6	3.3237 µg/L	3.3237 ppb	08:59:03
3	Tl 190.801†	-27.2	2.5	0.8192 µg/L	0.8192 ppb	08:59:23
3	U 409.014†	318.3	-50.2	-2.4399 µg/L	-2.4399 ppb	08:59:03
3	V 292.402†	-57.3	28.2	0.3126 µg/L	0.3126 ppb	08:59:03
3	Zn 213.857†	495.6	199.5	3.7717 µg/L	3.7717 ppb	08:59:23
3	Si 251.611†	460994.3	458443.3	12600 µg/L	12600 ppb	08:59:42

Mean Data: 157897001|510930|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1532929.8	100.29	%	0.299				0.30%
Sc RADIAL	72640.1	101	%	0.6				0.64%
Y 371.029	844170.5	99.584	%	0.2894				0.29%
Ag 328.068†	58.7	0.3465	µg/L	0.19965	0.3465	ppb	0.19965	57.62%
Al 396.153Radial†	478.3	88.119	µg/L	3.4527	88.119	ppb	3.4527	3.92%
As 188.979†	6.2	2.5928	µg/L	1.61092	2.5928	ppb	1.61092	62.13%
B 249.677†	409.4	19.117	µg/L	0.4361	19.117	ppb	0.4361	2.28%
Ba 233.527†	307.6	2.4743	µg/L	0.06166	2.4743	ppb	0.06166	2.49%
Be 313.107†	9.2	0.0049	µg/L	0.02767	0.0049	ppb	0.02767	567.03%
Ca 317.933Radial†	18084.9	2664.8	µg/L	5.02	2664.8	ppb	5.02	0.19%
Cd 226.502†	0.3	-0.0005	µg/L	0.08902	-0.0005	ppb	0.08902	>999.9%
Co 228.616†	0.9	0.0191	µg/L	0.04830	0.0191	ppb	0.04830	253.29%
Cr 267.716†	84.7	1.7771	µg/L	0.08978	1.7771	ppb	0.08978	5.05%
Cu 324.752†	165.8	0.5103	µg/L	0.11948	0.5103	ppb	0.11948	23.41%
Fe 238.204 Radial†	57.8	81.269	µg/L	2.1024	81.269	ppb	2.1024	2.59%
K 766.490 Radial†	304.8	83.228	µg/L	5.2030	83.228	ppb	5.2030	6.25%
Mg 279.077 IEC†	80.1	165.85	µg/L	2.363	165.85	ppb	2.363	1.42%
Mn 257.610†	1738.4	2.3441	µg/L	0.02732	2.3441	ppb	0.02732	1.17%
Mo 202.031†	8.0	0.8661	µg/L	0.03674	0.8661	ppb	0.03674	4.24%

Na 589.592 Radial†	64719.2	6638.7	µg/L	5.95	6638.7	ppb	5.95	0.09%
Ni 231.604†	-9.8	-0.4289	µg/L	0.17935	-0.4289	ppb	0.17935	41.81%
P 214.914†	5.1	3.2137	µg/L	3.22674	3.2137	ppb	3.22674	100.40%
Pb 220.353†	9.3	1.8098	µg/L	0.70247	1.8098	ppb	0.70247	38.82%
S 181.975 Axial†	14.9	26.188	µg/L	3.3262	26.188	ppb	3.3262	12.70%
Sb 206.836†	9.3	3.4962	µg/L	0.35671	3.4962	ppb	0.35671	10.20%
Se 196.026†	-0.5	-0.263	µg/L	0.9156	-0.263	ppb	0.9156	347.56%
SiO2 †	459614.5	26808	µg/L	28.6	26808	ppb	28.6	0.11%
Si 251.611†	457783.3	12500	µg/L	15.8	12500	ppb	15.8	0.13%
Sn 189.927†	-13.1	-2.6666	µg/L	1.02417	-2.6666	ppb	1.02417	38.41%
Sr 421.552†	4975.1	12.456	µg/L	0.0934	12.456	ppb	0.0934	0.75%
Ti 334.940†	3298.7	3.3198	µg/L	0.04525	3.3198	ppb	0.04525	1.36%
Tl 190.801†	4.2	1.3505	µg/L	1.63852	1.3505	ppb	1.63852	121.32%
U 409.014†	-37.4	-1.8166	µg/L	1.50828	-1.8166	ppb	1.50828	83.03%
V 292.402†	37.7	0.4159	µg/L	0.09083	0.4159	ppb	0.09083	21.84%
Zn 213.857†	204.2	3.8630	µg/L	0.09710	3.8630	ppb	0.09710	2.51%

Sequence No.: 4
Sample ID: 1201049256|510930|1
Nebulizer Back Pressure: 232.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 3/14/2006 09:01:50
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049256|510930|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72549.5	72549.5	101	%			09:03:34
1	Al 396.153Radial†	550.4	510.9	94.149	µg/L	94.149	ppb	09:03:34
1	Ca 317.933Radial†	18215.1	17845.7	2629.6	µg/L	2629.6	ppb	09:03:34
1	Fe 238.204 Radial†	98.5	57.2	80.389	µg/L	80.389	ppb	09:03:54
1	K 766.490 Radial†	1417.6	331.5	90.524	µg/L	90.524	ppb	09:03:34
1	Mg 279.077 IEC†	84.1	82.3	170.48	µg/L	170.48	ppb	09:03:54
1	Na 589.592 Radial†	65733.7	64138.3	6579.1	µg/L	6579.1	ppb	09:03:34
1	Sr 421.552†	4932.3	4896.9	12.260	µg/L	12.260	ppb	09:03:34
1	Sc 361.383	1632264.7	1632264.7	106.79	%			09:04:53
1	Y 371.029	898093.0	898093.0	105.94	%			09:04:53
1	Ag 328.068†	-850.1	122.5	0.7015	µg/L	0.7015	ppb	09:04:59
1	As 188.979†	3.2	0.6	0.2661	µg/L	0.2661	ppb	09:05:19
1	B 249.677†	460.4	345.4	16.124	µg/L	16.124	ppb	09:05:19
1	Ba 233.527†	184.2	290.1	2.3331	µg/L	2.3331	ppb	09:05:19
1	Be 313.107†	346.0	-39.1	-0.0203	µg/L	-0.0203	ppb	09:04:59
1	Cd 226.502†	-20.9	13.2	0.3549	µg/L	0.3549	ppb	09:05:19
1	Co 228.616†	-68.4	-1.4	-0.0349	µg/L	-0.0349	ppb	09:05:19
1	Cr 267.716†	125.6	62.5	1.3139	µg/L	1.3139	ppb	09:05:19
1	Cu 324.752†	4069.8	-53.9	-0.1594	µg/L	-0.1594	ppb	09:04:59
1	Mn 257.610†	2045.1	1543.9	2.0827	µg/L	2.0827	ppb	09:04:59
1	Mo 202.031†	-10.5	3.5	0.3787	µg/L	0.3787	ppb	09:05:19
1	Ni 231.604†	150.5	-16.5	-0.7510	µg/L	-0.7510	ppb	09:05:19
1	P 214.914†	163.2	-14.0	-9.1748	µg/L	-9.1748	ppb	09:05:19
1	Pb 220.353†	10.3	2.8	0.5442	µg/L	0.5442	ppb	09:05:19
1	S 181.975 Axial†	43.2	10.8	18.957	µg/L	18.957	ppb	09:05:19
1	Sb 206.836†	23.5	5.9	2.2256	µg/L	2.2256	ppb	09:05:19
1	Se 196.026†	-19.8	6.1	4.38	µg/L	4.38	ppb	09:05:19
1	SiO2 †	446691.4	417592.6	24357	µg/L	24357	ppb	09:04:53
1	Sn 189.927†	-39.6	-14.2	-2.9079	µg/L	-2.9079	ppb	09:05:19
1	Ti 334.940†	3681.5	2904.8	2.9292	µg/L	2.9292	ppb	09:04:59
1	Tl 190.801†	-30.7	0.9	0.2971	µg/L	0.2971	ppb	09:05:19
1	U 409.014†	317.7	-69.8	-3.3897	µg/L	-3.3897	ppb	09:04:59
1	V 292.402†	-54.3	34.4	0.3722	µg/L	0.3722	ppb	09:04:59
1	Zn 213.857†	486.7	161.6	3.0413	µg/L	3.0413	ppb	09:05:19
1	Si 251.611†	458097.1	428281.4	11700	µg/L	11700	ppb	09:06:29
2	Sc RADIAL	73615.6	73615.6	102	%			09:03:59
2	Al 396.153Radial†	537.7	490.6	90.360	µg/L	90.360	ppb	09:03:59
2	Ca 317.933Radial†	18344.0	17709.8	2609.6	µg/L	2609.6	ppb	09:03:59
2	Fe 238.204 Radial†	100.1	57.4	80.699	µg/L	80.699	ppb	09:04:19
2	K 766.490 Radial†	1412.7	306.2	83.631	µg/L	83.631	ppb	09:03:59
2	Mg 279.077 IEC†	79.4	76.6	158.62	µg/L	158.62	ppb	09:04:19
2	Na 589.592 Radial†	66257.9	63705.7	6534.8	µg/L	6534.8	ppb	09:03:59
2	Sr 421.552†	4983.5	4876.0	12.208	µg/L	12.208	ppb	09:03:59
2	Sc 361.383	1521671.5	1521671.5	99.550	%			09:05:25
2	Y 371.029	838084.8	838084.8	98.866	%			09:05:25
2	Ag 328.068†	-853.3	61.4	0.3615	µg/L	0.3615	ppb	09:05:30
2	As 188.979†	6.0	3.6	1.5073	µg/L	1.5073	ppb	09:05:51
2	B 249.677†	443.1	359.4	16.780	µg/L	16.780	ppb	09:05:51
2	Ba 233.527†	178.1	296.5	2.3849	µg/L	2.3849	ppb	09:05:51
2	Be 313.107†	333.5	-28.0	-0.0145	µg/L	-0.0145	ppb	09:05:30
2	Cd 226.502†	-32.1	0.5	0.0053	µg/L	0.0053	ppb	09:05:51
2	Co 228.616†	-60.4	2.1	0.0472	µg/L	0.0472	ppb	09:05:51
2	Cr 267.716†	136.7	82.3	1.7257	µg/L	1.7257	ppb	09:05:51
2	Cu 324.752†	4071.9	225.2	0.6913	µg/L	0.6913	ppb	09:05:30
2	Mn 257.610†	2118.2	1756.5	2.3684	µg/L	2.3684	ppb	09:05:30
2	Mo 202.031†	-1.7	11.6	1.2603	µg/L	1.2603	ppb	09:05:51
2	Ni 231.604†	146.2	-10.6	-0.4655	µg/L	-0.4655	ppb	09:05:51
2	P 214.914†	170.7	4.7	2.9544	µg/L	2.9544	ppb	09:05:51

2	Pb 220.353†	2.2	-4.7	-0.9048 µg/L	-0.9048 ppb	09:05:51
2	S 181.975 Axial†	39.9	10.5	18.402 µg/L	18.402 ppb	09:05:51
2	Sb 206.836†	25.0	9.0	3.4209 µg/L	3.4209 ppb	09:05:51
2	Se 196.026†	-26.5	-2.0	-1.33 µg/L	-1.33 ppb	09:05:51
2	SiO2 †	454619.3	455958.4	26595 µg/L	26595 ppb	09:05:25
2	Sn 189.927†	-31.6	-8.9	-1.7529 µg/L	-1.7529 ppb	09:05:51
2	Ti 334.940†	3693.7	3167.5	3.1888 µg/L	3.1888 ppb	09:05:30
2	Tl 190.801†	-25.6	4.0	1.2775 µg/L	1.2775 ppb	09:05:51
2	U 409.014†	340.1	-25.7	-1.2463 µg/L	-1.2463 ppb	09:05:30
2	V 292.402†	-39.3	45.8	0.5065 µg/L	0.5065 ppb	09:05:30
2	Zn 213.857†	490.6	198.6	3.7568 µg/L	3.7568 ppb	09:05:51
2	Si 251.611†	457585.2	458945.6	12600 µg/L	12600 ppb	09:06:35
3	Sc RADIAL	72670.7	72670.7	101 %		09:04:25
3	Al 396.153Radial†	466.3	426.6	78.592 µg/L	78.592 ppb	09:04:25
3	Ca 317.933Radial†	18259.4	17859.4	2631.6 µg/L	2631.6 ppb	09:04:25
3	Fe 238.204 Radial†	99.3	57.9	81.354 µg/L	81.354 ppb	09:04:45
3	K 766.490 Radial†	1448.9	360.1	98.351 µg/L	98.351 ppb	09:04:25
3	Mg 279.077 IEC†	78.1	76.3	157.93 µg/L	157.93 ppb	09:04:45
3	Na 589.592 Radial†	65909.2	64203.5	6585.8 µg/L	6585.8 ppb	09:04:25
3	Sr 421.552†	4960.2	4916.4	12.309 µg/L	12.309 ppb	09:04:25
3	Sc 361.383	1540591.8	1540591.8	100.79 %		09:05:57
3	Y 371.029	848432.6	848432.6	100.09 %		09:05:57
3	Ag 328.068†	-908.6	17.1	0.1136 µg/L	0.1136 ppb	09:06:02
3	As 188.979†	3.3	0.8	0.3646 µg/L	0.3646 ppb	09:06:22
3	B 249.677†	434.0	344.9	16.100 µg/L	16.100 ppb	09:06:22
3	Ba 233.527†	184.4	300.5	2.4170 µg/L	2.4170 ppb	09:06:22
3	Be 313.107†	349.0	-16.8	-0.0087 µg/L	-0.0087 ppb	09:06:02
3	Cd 226.502†	-29.6	3.3	0.0843 µg/L	0.0843 ppb	09:06:22
3	Co 228.616†	-63.4	-0.2	-0.0070 µg/L	-0.0070 ppb	09:06:22
3	Cr 267.716†	130.0	73.9	1.5499 µg/L	1.5499 ppb	09:06:22
3	Cu 324.752†	4026.9	130.3	0.4059 µg/L	0.4059 ppb	09:06:02
3	Mn 257.610†	2091.0	1703.4	2.2971 µg/L	2.2971 ppb	09:06:02
3	Mo 202.031†	-6.7	6.7	0.7265 µg/L	0.7265 ppb	09:06:22
3	Ni 231.604†	152.9	-5.7	-0.2325 µg/L	-0.2325 ppb	09:06:22
3	P 214.914†	175.8	7.6	4.8775 µg/L	4.8775 ppb	09:06:22
3	Pb 220.353†	14.1	7.1	1.3737 µg/L	1.3737 ppb	09:06:22
3	S 181.975 Axial†	43.9	13.9	24.477 µg/L	24.477 ppb	09:06:22
3	Sb 206.836†	24.7	8.4	3.1639 µg/L	3.1639 ppb	09:06:22
3	Se 196.026†	-29.6	-4.8	-3.31 µg/L	-3.31 ppb	09:06:22
3	SiO2 †	458959.2	454655.9	26519 µg/L	26519 ppb	09:05:57
3	Sn 189.927†	-32.0	-8.8	-1.7350 µg/L	-1.7350 ppb	09:06:22
3	Ti 334.940†	3620.1	3048.9	3.0720 µg/L	3.0720 ppb	09:06:02
3	Tl 190.801†	-30.1	-0.2	-0.0551 µg/L	-0.0551 ppb	09:06:22
3	U 409.014†	246.2	-123.0	-5.9745 µg/L	-5.9745 ppb	09:06:02
3	V 292.402†	-73.2	12.6	0.1393 µg/L	0.1393 ppb	09:06:02
3	Zn 213.857†	487.2	189.2	3.5740 µg/L	3.5740 ppb	09:06:22
3	Si 251.611†	456281.1	452006.7	12400 µg/L	12400 ppb	09:06:41

Mean Data: 1201049256|510930|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1564842.7	102.37	%	3.870				3.78%
Sc RADIAL	72945.3	101	%	0.8				0.80%
Y 371.029	861536.8	101.63	%	3.784				3.72%
Ag 328.068†	67.0	0.3922	µg/L	0.29512	0.3922	ppb	0.29512	75.25%
Al 396.153Radial†	476.0	87.700	µg/L	8.1124	87.700	ppb	8.1124	9.25%
As 188.979†	1.7	0.7127	µg/L	0.68996	0.7127	ppb	0.68996	96.81%
B 249.677†	349.9	16.335	µg/L	0.3856	16.335	ppb	0.3856	2.36%
Ba 233.527†	295.7	2.3783	µg/L	0.04237	2.3783	ppb	0.04237	1.78%
Be 313.107†	-27.9	-0.0145	µg/L	0.00582	-0.0145	ppb	0.00582	40.11%
Ca 317.933Radial†	17805.0	2623.6	µg/L	12.19	2623.6	ppb	12.19	0.46%
Cd 226.502†	5.7	0.1481	µg/L	0.18334	0.1481	ppb	0.18334	123.76%
Co 228.616†	0.2	0.0018	µg/L	0.04175	0.0018	ppb	0.04175	>999.9%
Cr 267.716†	72.9	1.5298	µg/L	0.20660	1.5298	ppb	0.20660	13.50%
Cu 324.752†	100.5	0.3126	µg/L	0.43293	0.3126	ppb	0.43293	138.49%
Fe 238.204 Radial†	57.5	80.814	µg/L	0.4930	80.814	ppb	0.4930	0.61%
K 766.490 Radial†	332.6	90.836	µg/L	7.3650	90.836	ppb	7.3650	8.11%
Mg 279.077 IEC†	78.4	162.34	µg/L	7.055	162.34	ppb	7.055	4.35%
Mn 257.610†	1667.9	2.2494	µg/L	0.14873	2.2494	ppb	0.14873	6.61%
Mo 202.031†	7.3	0.7885	µg/L	0.44408	0.7885	ppb	0.44408	56.32%

Na 589.592 Radial†	64015.8	6566.6 µg/L	27.75	6566.6 ppb	27.75	0.42%
Ni 231.604†	-10.9	-0.4830 µg/L	0.25970	-0.4830 ppb	0.25970	53.76%
P 214.914†	-0.5	-0.4476 µg/L	7.61886	-0.4476 ppb	7.61886	>999.9%
Pb 220.353†	1.7	0.3377 µg/L	1.15318	0.3377 ppb	1.15318	341.47%
S 181.975 Axial†	11.7	20.612 µg/L	3.3585	20.612 ppb	3.3585	16.29%
Sb 206.836†	7.8	2.9368 µg/L	0.62917	2.9368 ppb	0.62917	21.42%
Se 196.026†	-0.2	-0.085 µg/L	3.9963	-0.085 ppb	3.9963	>999.9%
SiO2 †	442735.6	25824 µg/L	1270.6	25824 ppb	1270.6	4.92%
Si 251.611†	446411.3	12200 µg/L	440.2	12200 ppb	440.2	3.60%
Sn 189.927†	-10.7	-2.1319 µg/L	0.67207	-2.1319 ppb	0.67207	31.52%
Sr 421.552†	4896.4	12.259 µg/L	0.0505	12.259 ppb	0.0505	0.41%
Ti 334.940†	3040.4	3.0633 µg/L	0.13002	3.0633 ppb	0.13002	4.24%
Tl 190.801†	1.6	0.5065 µg/L	0.69054	0.5065 ppb	0.69054	136.33%
U 409.014†	-72.8	-3.5368 µg/L	2.36756	-3.5368 ppb	2.36756	66.94%
V 292.402†	30.9	0.3393 µg/L	0.18575	0.3393 ppb	0.18575	54.74%
Zn 213.857†	183.2	3.4574 µg/L	0.37171	3.4574 ppb	0.37171	10.75%

Sequence No.: 5
Sample ID: 1201049257|510930|1
Nebulizer Back Pressure: 231.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 3/14/2006 09:08:49
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049257|510930|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	70906.0	70906.0	98.3	%			09:10:33
1	Al 396.153Radial†	28980.6	29430.9	5400.1	µg/L	5400.1	ppb	09:10:33
1	Ca 317.933Radial†	53362.6	54002.6	7957.4	µg/L	7957.4	ppb	09:10:33
1	Fe 238.204 Radial†	4000.3	4026.8	5660.0	µg/L	5660.0	ppb	09:10:53
1	K 766.490 Radial†	20827.0	20099.3	5489.1	µg/L	5489.1	ppb	09:10:33
1	Mg 279.077 IEC†	2686.7	2730.6	5669.0	µg/L	5669.0	ppb	09:10:53
1	Na 589.592 Radial†	117182.7	117964.8	12101	µg/L	12101	ppb	09:10:33
1	Sr 421.552†	214802.7	218403.0	549.87	µg/L	549.87	ppb	09:10:33
1	Sc 361.383	1506793.3	1506793.3	98.577	%			09:11:55
1	Y 371.029	826606.2	826606.2	97.512	%			09:11:55
1	Ag 328.068†	89833.1	92048.7	515.74	µg/L	515.74	ppb	09:12:00
1	As 188.979†	1271.3	1287.3	535.70	µg/L	535.70	ppb	09:12:20
1	B 249.677†	11485.2	11565.3	541.53	µg/L	541.53	ppb	09:12:00
1	Ba 233.527†	65853.5	66922.0	538.80	µg/L	538.80	ppb	09:12:00
1	Be 313.107†	1004694.3	1018838.0	531.16	µg/L	531.16	ppb	09:11:55
1	Cd 226.502†	18437.8	18736.8	515.57	µg/L	515.57	ppb	09:12:00
1	Co 228.616†	21842.0	22220.1	522.94	µg/L	522.94	ppb	09:12:00
1	Cr 267.716†	24265.3	24560.6	515.55	µg/L	515.55	ppb	09:12:00
1	Cu 324.752†	174950.0	173610.9	530.16	µg/L	530.16	ppb	09:11:55
1	Mn 257.610†	387962.2	393192.8	528.90	µg/L	528.90	ppb	09:11:55
1	Mo 202.031†	4759.0	4841.1	525.05	µg/L	525.05	ppb	09:12:20
1	Ni 231.604†	10762.1	10760.0	517.57	µg/L	517.57	ppb	09:12:00
1	P 214.914†	1074.6	923.3	596.78	µg/L	596.78	ppb	09:12:20
1	Pb 220.353†	2687.6	2719.5	526.37	µg/L	526.37	ppb	09:12:20
1	S 181.975 Axial†	2890.7	2902.8	5103.8	µg/L	5103.8	ppb	09:12:20
1	Sb 206.836†	1410.3	1414.6	538.15	µg/L	538.15	ppb	09:12:20
1	Se 196.026†	675.8	710.1	504	µg/L	504	ppb	09:12:20
1	SiO2 †	646488.7	655107.5	38211	µg/L	38211	ppb	09:11:55
1	Sn 189.927†	2329.9	2386.4	519.41	µg/L	519.41	ppb	09:12:20
1	Ti 334.940†	519506.3	526464.6	521.10	µg/L	521.10	ppb	09:11:55
1	Tl 190.801†	1547.7	1599.7	513.94	µg/L	513.94	ppb	09:12:20
1	U 409.014†	11095.5	10888.4	531.61	µg/L	531.61	ppb	09:12:00
1	V 292.402†	47430.6	48200.7	524.80	µg/L	524.80	ppb	09:12:00
1	Zn 213.857†	26333.3	26419.3	508.98	µg/L	508.98	ppb	09:12:00
1	Si 251.611†	644360.9	652956.9	17900	µg/L	17900	ppb	09:13:33
2	Sc RADIAL	71282.8	71282.8	98.9	%			09:10:59
2	Al 396.153Radial†	29127.0	29423.3	5398.9	µg/L	5398.9	ppb	09:10:59
2	Ca 317.933Radial†	53531.3	53886.4	7940.3	µg/L	7940.3	ppb	09:10:59
2	Fe 238.204 Radial†	3975.0	3979.7	5593.8	µg/L	5593.8	ppb	09:11:19
2	K 766.490 Radial†	20861.0	20021.7	5467.9	µg/L	5467.9	ppb	09:10:59
2	Mg 279.077 IEC†	2687.5	2717.0	5640.7	µg/L	5640.7	ppb	09:11:19
2	Na 589.592 Radial†	117623.9	117781.3	12082	µg/L	12082	ppb	09:10:59
2	Sr 421.552†	215600.6	218055.7	549.00	µg/L	549.00	ppb	09:10:59
2	Sc 361.383	1517787.6	1517787.6	99.296	%			09:12:28
2	Y 371.029	831907.3	831907.3	98.137	%			09:12:28
2	Ag 328.068†	90071.1	91628.3	513.38	µg/L	513.38	ppb	09:12:33
2	As 188.979†	1276.1	1282.8	533.81	µg/L	533.81	ppb	09:12:53
2	B 249.677†	11489.6	11485.3	537.79	µg/L	537.79	ppb	09:12:33
2	Ba 233.527†	65905.4	66490.3	535.33	µg/L	535.33	ppb	09:12:33
2	Be 313.107†	1010762.1	1017566.2	530.50	µg/L	530.50	ppb	09:12:28
2	Cd 226.502†	18517.0	18681.0	514.04	µg/L	514.04	ppb	09:12:33
2	Co 228.616†	21932.5	22150.8	521.31	µg/L	521.31	ppb	09:12:33
2	Cr 267.716†	24300.1	24417.4	512.55	µg/L	512.55	ppb	09:12:33
2	Cu 324.752†	176888.7	174277.8	532.21	µg/L	532.21	ppb	09:12:28
2	Mn 257.610†	390612.9	393011.4	528.65	µg/L	528.65	ppb	09:12:28
2	Mo 202.031†	4748.6	4795.6	520.12	µg/L	520.12	ppb	09:12:53
2	Ni 231.604†	10797.5	10716.6	515.48	µg/L	515.48	ppb	09:12:33
2	P 214.914†	1059.3	900.0	581.77	µg/L	581.77	ppb	09:12:53

2	Pb 220.353†	2690.3	2702.5	523.08 µg/L	523.08 ppb	09:12:53
2	S 181.975 Axial†	2892.5	2883.4	5069.6 µg/L	5069.6 ppb	09:12:53
2	Sb 206.836†	1391.9	1385.7	527.23 µg/L	527.23 ppb	09:12:53
2	Se 196.026†	680.9	710.4	504 µg/L	504 ppb	09:12:53
2	SiO2 †	652807.4	656720.4	38305 µg/L	38305 ppb	09:12:28
2	Sn 189.927†	2316.6	2355.9	512.77 µg/L	512.77 ppb	09:12:53
2	Ti 334.940†	523859.3	527031.0	521.66 µg/L	521.66 ppb	09:12:28
2	Tl 190.801†	1548.8	1589.4	510.66 µg/L	510.66 ppb	09:12:53
2	U 409.014†	11012.9	10723.7	523.61 µg/L	523.61 ppb	09:12:33
2	V 292.402†	47617.9	48040.8	523.01 µg/L	523.01 ppb	09:12:33
2	Zn 213.857†	26349.2	26241.9	505.55 µg/L	505.55 ppb	09:12:33
2	Si 251.611†	644531.4	648393.7	17800 µg/L	17800 ppb	09:13:39
3	Sc RADIAL	72009.4	72009.4	99.9 %		09:11:24
3	Al 396.153Radial†	29497.8	29497.2	5412.3 µg/L	5412.3 ppb	09:11:24
3	Ca 317.933Radial†	54076.1	53885.6	7940.1 µg/L	7940.1 ppb	09:11:24
3	Fe 238.204 Radial†	3988.2	3952.3	5555.3 µg/L	5555.3 ppb	09:11:44
3	K 766.490 Radial†	21082.7	20030.7	5470.4 µg/L	5470.4 ppb	09:11:24
3	Mg 279.077 IEC†	2678.6	2680.7	5565.6 µg/L	5565.6 ppb	09:11:44
3	Na 589.592 Radial†	119056.2	118015.0	12106 µg/L	12106 ppb	09:11:24
3	Sr 421.552†	218414.8	218673.1	550.55 µg/L	550.55 ppb	09:11:24
3	Sc 361.383	1507332.9	1507332.9	98.612 %		09:13:00
3	Y 371.029	826575.4	826575.4	97.508 %		09:13:00
3	Ag 328.068†	90004.4	92189.8	516.51 µg/L	516.51 ppb	09:13:06
3	As 188.979†	1281.1	1296.7	539.58 µg/L	539.58 ppb	09:13:26
3	B 249.677†	11494.6	11570.6	541.81 µg/L	541.81 ppb	09:13:06
3	Ba 233.527†	65790.8	66834.5	538.10 µg/L	538.10 ppb	09:13:06
3	Be 313.107†	1004090.0	1017860.3	530.65 µg/L	530.65 ppb	09:13:00
3	Cd 226.502†	18455.1	18747.6	515.88 µg/L	515.88 ppb	09:13:06
3	Co 228.616†	21869.7	22240.2	523.42 µg/L	523.42 ppb	09:13:06
3	Cr 267.716†	24328.4	24615.7	516.71 µg/L	516.71 ppb	09:13:06
3	Cu 324.752†	176001.6	174613.8	533.23 µg/L	533.23 ppb	09:13:00
3	Mn 257.610†	388277.9	393372.0	529.13 µg/L	529.13 ppb	09:13:00
3	Mo 202.031†	4766.3	4846.7	525.66 µg/L	525.66 ppb	09:13:26
3	Ni 231.604†	10760.6	10754.6	517.31 µg/L	517.31 ppb	09:13:06
3	P 214.914†	1056.4	904.4	584.69 µg/L	584.69 ppb	09:13:26
3	Pb 220.353†	2703.5	2734.7	529.30 µg/L	529.30 ppb	09:13:26
3	S 181.975 Axial†	2908.7	2920.0	5134.0 µg/L	5134.0 ppb	09:13:26
3	Sb 206.836†	1420.6	1424.5	541.89 µg/L	541.89 ppb	09:13:26
3	Se 196.026†	686.0	720.3	511 µg/L	511 ppb	09:13:26
3	SiO2 †	648265.6	656674.5	38302 µg/L	38302 ppb	09:13:00
3	Sn 189.927†	2323.5	2379.0	517.80 µg/L	517.80 ppb	09:13:26
3	Ti 334.940†	520665.9	527451.8	522.08 µg/L	522.08 ppb	09:13:00
3	Tl 190.801†	1548.8	1600.3	514.14 µg/L	514.14 ppb	09:13:26
3	U 409.014†	11080.8	10869.5	530.71 µg/L	530.71 ppb	09:13:06
3	V 292.402†	47622.7	48378.3	526.71 µg/L	526.71 ppb	09:13:06
3	Zn 213.857†	26380.6	26457.7	509.73 µg/L	509.73 ppb	09:13:06
3	Si 251.611†	642411.0	650745.5	17800 µg/L	17800 ppb	09:13:45

Mean Data: 1201049257|510930|1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1510637.9	98.828	%	0.4055				0.41%
Sc RADIAL	71399.4	99.0	%	0.78				0.79%
Y 371.029	828363.0	97.719	%	0.3621				0.37%
Ag 328.068†	91955.6	515.21	µg/L	1.632	515.21	ppb	1.632	0.32%
Al 396.153Radial†	29450.4	5403.8	µg/L	7.40	5403.8	ppb	7.40	0.14%
As 188.979†	1288.9	536.36	µg/L	2.943	536.36	ppb	2.943	0.55%
B 249.677†	11540.4	540.38	µg/L	2.244	540.38	ppb	2.244	0.42%
Ba 233.527†	66748.9	537.41	µg/L	1.837	537.41	ppb	1.837	0.34%
Be 313.107†	1018088.2	530.77	µg/L	0.347	530.77	ppb	0.347	0.07%
Ca 317.933Radial†	53924.9	7945.9	µg/L	9.92	7945.9	ppb	9.92	0.12%
Cd 226.502†	18721.8	515.16	µg/L	0.985	515.16	ppb	0.985	0.19%
Co 228.616†	22203.7	522.55	µg/L	1.108	522.55	ppb	1.108	0.21%
Cr 267.716†	24531.2	514.93	µg/L	2.148	514.93	ppb	2.148	0.42%
Cu 324.752†	174167.5	531.87	µg/L	1.560	531.87	ppb	1.560	0.29%
Fe 238.204 Radial†	3986.3	5603.0	µg/L	52.95	5603.0	ppb	52.95	0.95%
K 766.490 Radial†	20050.6	5475.8	µg/L	11.59	5475.8	ppb	11.59	0.21%
Mg 279.077 IEC†	2709.4	5625.1	µg/L	53.43	5625.1	ppb	53.43	0.95%
Mn 257.610†	393192.1	528.89	µg/L	0.240	528.89	ppb	0.240	0.05%
Mo 202.031†	4827.8	523.61	µg/L	3.038	523.61	ppb	3.038	0.58%

Na 589.592 Radial†	117920.4	12096 µg/L	12.6	12096 ppb	12.6	0.10%
Ni 231.604†	10743.8	516.79 µg/L	1.142	516.79 ppb	1.142	0.22%
P 214.914†	909.2	587.75 µg/L	7.957	587.75 ppb	7.957	1.35%
Pb 220.353†	2718.9	526.25 µg/L	3.114	526.25 ppb	3.114	0.59%
S 181.975 Axial†	2902.1	5102.5 µg/L	32.20	5102.5 ppb	32.20	0.63%
Sb 206.836†	1408.3	535.76 µg/L	7.618	535.76 ppb	7.618	1.42%
Se 196.026†	713.6	506 µg/L	4.1	506 ppb	4.1	0.81%
SiO2 †	656167.5	38272 µg/L	53.6	38272 ppb	53.6	0.14%
Si 251.611†	650698.7	17800 µg/L	62.5	17800 ppb	62.5	0.35%
Sn 189.927†	2373.8	516.66 µg/L	3.461	516.66 ppb	3.461	0.67%
Sr 421.552†	218377.2	549.81 µg/L	0.780	549.81 ppb	0.780	0.14%
Ti 334.940†	526982.4	521.61 µg/L	0.490	521.61 ppb	0.490	0.09%
Tl 190.801†	1596.5	512.91 µg/L	1.954	512.91 ppb	1.954	0.38%
U 409.014†	10827.2	528.64 µg/L	4.384	528.64 ppb	4.384	0.83%
V 292.402†	48206.6	524.84 µg/L	1.850	524.84 ppb	1.850	0.35%
Zn 213.857†	26373.0	508.09 µg/L	2.228	508.09 ppb	2.228	0.44%

Sequence No.: 6
Sample ID: 1201049258|510930|5
Nebulizer Back Pressure: 232.0 kPa
Analyst: HSC
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 3/14/2006 09:15:53
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1201049258|510930|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Sc RADIAL	71139.0	71139.0	98.7	%			09:17:39
1	Al 396.153Radial†	197.6	164.2	30.238	µg/L	30.238	ppb	09:17:39
1	Ca 317.933Radial†	4271.8	4073.7	600.27	µg/L	600.27	ppb	09:17:39
1	Fe 238.204 Radial†	54.0	14.0	19.734	µg/L	19.734	ppb	09:17:59
1	K 766.490 Radial†	1301.6	241.8	66.032	µg/L	66.032	ppb	09:17:39
1	Mg 279.077 IEC†	25.5	24.6	51.030	µg/L	51.030	ppb	09:17:59
1	Na 589.592 Radial†	14906.0	13922.1	1428.1	µg/L	1428.1	ppb	09:17:39
1	Sr 421.552†	1523.5	1539.4	3.8604	µg/L	3.8604	ppb	09:17:39
1	Sc 361.383	1529673.3	1529673.3	100.07	%			09:18:58
1	Y 371.029	845100.7	845100.7	99.693	%			09:18:58
1	Ag 328.068†	-829.0	90.2	0.5075	µg/L	0.5075	ppb	09:19:03
1	As 188.979†	0.9	-1.5	-0.6156	µg/L	-0.6156	ppb	09:19:23
1	B 249.677†	354.5	268.5	12.544	µg/L	12.544	ppb	09:19:23
1	Ba 233.527†	-53.4	64.2	0.5168	µg/L	0.5168	ppb	09:19:23
1	Be 313.107†	431.5	68.2	0.0355	µg/L	0.0355	ppb	09:19:03
1	Cd 226.502†	-31.8	1.0	0.0252	µg/L	0.0252	ppb	09:19:23
1	Co 228.616†	-65.7	-2.9	-0.0679	µg/L	-0.0679	ppb	09:19:23
1	Cr 267.716†	66.8	11.6	0.2429	µg/L	0.2429	ppb	09:19:23
1	Cu 324.752†	3985.0	116.9	0.3564	µg/L	0.3564	ppb	09:19:03
1	Mn 257.610†	794.7	422.9	0.5702	µg/L	0.5702	ppb	09:19:23
1	Mo 202.031†	-6.5	6.9	0.7464	µg/L	0.7464	ppb	09:19:23
1	Ni 231.604†	153.8	-3.7	-0.1684	µg/L	-0.1684	ppb	09:19:23
1	P 214.914†	173.2	6.2	4.0281	µg/L	4.0281	ppb	09:19:23
1	Pb 220.353†	15.3	8.4	1.6251	µg/L	1.6251	ppb	09:19:23
1	S 181.975 Axial†	33.0	3.4	5.9469	µg/L	5.9469	ppb	09:19:23
1	Sb 206.836†	26.4	10.3	3.8862	µg/L	3.8862	ppb	09:19:23
1	Se 196.026†	-20.9	3.7	2.64	µg/L	2.64	ppb	09:19:23
1	SiO2 †	94296.3	93511.2	5454.2	µg/L	5454.2	ppb	09:19:03
1	Sn 189.927†	-34.5	-11.6	-2.4854	µg/L	-2.4854	ppb	09:19:23
1	Ti 334.940†	1200.3	656.5	0.6622	µg/L	0.6622	ppb	09:19:03
1	Tl 190.801†	-22.7	6.9	2.2231	µg/L	2.2231	ppb	09:19:23
1	U 409.014†	392.1	24.5	1.1916	µg/L	1.1916	ppb	09:19:03
1	V 292.402†	-72.4	12.9	0.1474	µg/L	0.1474	ppb	09:19:03
1	Zn 213.857†	350.9	56.5	1.0724	µg/L	1.0724	ppb	09:19:23
1	Si 251.611†	91607.2	90832.0	2490	µg/L	2490	ppb	09:20:32
2	Sc RADIAL	73053.1	73053.1	101	%			09:18:04
2	Al 396.153Radial†	150.5	112.5	20.658	µg/L	20.658	ppb	09:18:04
2	Ca 317.933Radial†	3853.9	3547.8	522.78	µg/L	522.78	ppb	09:18:04
2	Fe 238.204 Radial†	50.7	9.4	13.220	µg/L	13.220	ppb	09:18:24
2	K 766.490 Radial†	1227.1	133.8	36.528	µg/L	36.528	ppb	09:18:04
2	Mg 279.077 IEC†	20.3	18.8	39.059	µg/L	39.059	ppb	09:18:24
2	Na 589.592 Radial†	13569.3	12207.0	1252.2	µg/L	1252.2	ppb	09:18:04
2	Sr 421.552†	971.1	953.7	2.3875	µg/L	2.3875	ppb	09:18:04
2	Sc 361.383	1542598.7	1542598.7	100.92	%			09:19:29
2	Y 371.029	852331.2	852331.2	100.55	%			09:19:29
2	Ag 328.068†	-873.2	53.3	0.3013	µg/L	0.3013	ppb	09:19:34
2	As 188.979†	5.2	2.7	1.1327	µg/L	1.1327	ppb	09:19:55
2	B 249.677†	353.2	264.3	12.350	µg/L	12.350	ppb	09:19:55
2	Ba 233.527†	-44.8	73.2	0.5896	µg/L	0.5896	ppb	09:19:55
2	Be 313.107†	363.1	-3.3	-0.0017	µg/L	-0.0017	ppb	09:19:34
2	Cd 226.502†	-29.7	3.3	0.0886	µg/L	0.0886	ppb	09:19:55
2	Co 228.616†	-54.5	8.7	0.2066	µg/L	0.2066	ppb	09:19:55
2	Cr 267.716†	61.8	6.2	0.1300	µg/L	0.1300	ppb	09:19:55
2	Cu 324.752†	3882.7	-17.8	-0.0566	µg/L	-0.0566	ppb	09:19:34
2	Mn 257.610†	786.3	407.9	0.5494	µg/L	0.5494	ppb	09:19:55
2	Mo 202.031†	1.5	14.9	1.6130	µg/L	1.6130	ppb	09:19:55
2	Ni 231.604†	159.0	0.2	0.0192	µg/L	0.0192	ppb	09:19:55
2	P 214.914†	159.8	-8.5	-5.5289	µg/L	-5.5289	ppb	09:19:55

2	Pb 220.353†	10.1	3.1	0.6070	µg/L	0.6070 ppb	09:19:55
2	S 181.975 Axial†	34.3	4.3	7.6303	µg/L	7.6303 ppb	09:19:55
2	Sb 206.836†	16.0	-0.3	-0.0904	µg/L	-0.0904 ppb	09:19:55
2	Se 196.026†	-17.9	6.9	4.89	µg/L	4.89 ppb	09:19:55
2	SiO2 †	93519.1	91951.5	5363.3	µg/L	5363.3 ppb	09:19:34
2	Sn 189.927†	-28.8	-5.6	-1.1896	µg/L	-1.1896 ppb	09:19:55
2	Ti 334.940†	1169.1	615.6	0.6200	µg/L	0.6200 ppb	09:19:34
2	Tl 190.801†	-20.0	9.8	3.1436	µg/L	3.1436 ppb	09:19:55
2	U 409.014†	404.3	33.4	1.6228	µg/L	1.6228 ppb	09:19:34
2	V 292.402†	-48.6	37.1	0.4162	µg/L	0.4162 ppb	09:19:34
2	Zn 213.857†	351.6	54.2	1.0330	µg/L	1.0330 ppb	09:19:55
2	Si 251.611†	91228.8	89690.0	2460	µg/L	2460 ppb	09:20:37
3	Sc RADIAL	73941.4	73941.4	103	%		09:18:29
3	Al 396.153Radial†	130.8	91.5	16.842	µg/L	16.842 ppb	09:18:29
3	Ca 317.933Radial†	3904.3	3551.3	523.29	µg/L	523.29 ppb	09:18:29
3	Fe 238.204 Radial†	53.3	11.3	15.849	µg/L	15.849 ppb	09:18:49
3	K 766.490 Radial†	1149.5	43.5	11.888	µg/L	11.888 ppb	09:18:29
3	Mg 279.077 IEC†	21.5	19.8	40.959	µg/L	40.959 ppb	09:18:49
3	Na 589.592 Radial†	13700.5	12174.1	1248.8	µg/L	1248.8 ppb	09:18:29
3	Sr 421.552†	985.8	956.6	2.3947	µg/L	2.3947 ppb	09:18:29
3	Sc 361.383	1531397.4	1531397.4	100.19	%		09:20:00
3	Y 371.029	846381.7	846381.7	99.844	%		09:20:00
3	Ag 328.068†	-849.4	70.7	0.3971	µg/L	0.3971 ppb	09:20:06
3	As 188.979†	5.2	2.8	1.1614	µg/L	1.1614 ppb	09:20:26
3	B 249.677†	352.9	266.5	12.453	µg/L	12.453 ppb	09:20:26
3	Ba 233.527†	-35.0	82.7	0.6648	µg/L	0.6648 ppb	09:20:26
3	Be 313.107†	389.0	25.3	0.0132	µg/L	0.0132 ppb	09:20:06
3	Cd 226.502†	-35.2	-2.4	-0.0680	µg/L	-0.0680 ppb	09:20:26
3	Co 228.616†	-64.9	-2.0	-0.0479	µg/L	-0.0479 ppb	09:20:26
3	Cr 267.716†	66.3	11.1	0.2331	µg/L	0.2331 ppb	09:20:26
3	Cu 324.752†	3895.4	23.0	0.0715	µg/L	0.0715 ppb	09:20:06
3	Mn 257.610†	777.0	404.3	0.5448	µg/L	0.5448 ppb	09:20:26
3	Mo 202.031†	-8.1	5.3	0.5714	µg/L	0.5714 ppb	09:20:26
3	Ni 231.604†	154.7	-3.0	-0.1359	µg/L	-0.1359 ppb	09:20:26
3	P 214.914†	161.6	-5.5	-3.5941	µg/L	-3.5941 ppb	09:20:26
3	Pb 220.353†	8.8	1.9	0.3765	µg/L	0.3765 ppb	09:20:26
3	S 181.975 Axial†	37.1	7.4	12.940	µg/L	12.940 ppb	09:20:26
3	Sb 206.836†	20.4	4.3	1.6328	µg/L	1.6328 ppb	09:20:26
3	Se 196.026†	-16.3	8.3	5.90	µg/L	5.90 ppb	09:20:26
3	SiO2 †	93889.7	92999.3	5424.4	µg/L	5424.4 ppb	09:20:06
3	Sn 189.927†	-26.3	-3.4	-0.6977	µg/L	-0.6977 ppb	09:20:26
3	Ti 334.940†	1197.1	652.0	0.6563	µg/L	0.6563 ppb	09:20:06
3	Tl 190.801†	-17.1	12.6	4.0421	µg/L	4.0421 ppb	09:20:26
3	U 409.014†	342.2	-25.8	-1.2532	µg/L	-1.2532 ppb	09:20:06
3	V 292.402†	-108.5	-23.0	-0.2429	µg/L	-0.2429 ppb	09:20:06
3	Zn 213.857†	355.0	60.2	1.1467	µg/L	1.1467 ppb	09:20:26
3	Si 251.611†	92178.0	91298.7	2500	µg/L	2500 ppb	09:20:42

Mean Data: 1201049258|510930|5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1534556.5	100.39	%	0.459				0.46%
Sc RADIAL	72711.2	101	%	2.0				1.97%
Y 371.029	847937.8	100.03	%	0.455				0.46%
Ag 328.068†	71.4	0.4020	µg/L	0.10317	0.4020	ppb	0.10317	25.66%
Al 396.153Radial†	122.8	22.579	µg/L	6.9014	22.579	ppb	6.9014	30.57%
As 188.979†	1.3	0.5595	µg/L	1.01776	0.5595	ppb	1.01776	181.92%
B 249.677†	266.4	12.449	µg/L	0.0972	12.449	ppb	0.0972	0.78%
Ba 233.527†	73.4	0.5904	µg/L	0.07400	0.5904	ppb	0.07400	12.53%
Be 313.107†	30.1	0.0157	µg/L	0.01875	0.0157	ppb	0.01875	119.77%
Ca 317.933Radial†	3724.3	548.78	µg/L	44.593	548.78	ppb	44.593	8.13%
Cd 226.502†	0.6	0.0153	µg/L	0.07881	0.0153	ppb	0.07881	516.13%
Co 228.616†	1.3	0.0303	µg/L	0.15303	0.0303	ppb	0.15303	505.25%
Cr 267.716†	9.6	0.2020	µg/L	0.06255	0.2020	ppb	0.06255	30.97%
Cu 324.752†	40.7	0.1237	µg/L	0.21140	0.1237	ppb	0.21140	170.87%
Fe 238.204 Radial†	11.6	16.268	µg/L	3.2774	16.268	ppb	3.2774	20.15%
K 766.490 Radial†	139.7	38.149	µg/L	27.1086	38.149	ppb	27.1086	71.06%
Mg 279.077 IEC†	21.1	43.683	µg/L	6.4338	43.683	ppb	6.4338	14.73%
Mn 257.610†	411.7	0.5548	µg/L	0.01353	0.5548	ppb	0.01353	2.44%
Mo 202.031†	9.0	0.9769	µg/L	0.55776	0.9769	ppb	0.55776	57.09%

Na 589.592 Radial†	12767.7	1309.7	µg/L	102.56	1309.7	ppb	102.56	7.83%
Ni 231.604†	-2.2	-0.0950	µg/L	0.10028	-0.0950	ppb	0.10028	105.54%
P 214.914†	-2.6	-1.6983	µg/L	5.05270	-1.6983	ppb	5.05270	297.51%
Pb 220.353†	4.5	0.8696	µg/L	0.66441	0.8696	ppb	0.66441	76.41%
S 181.975 Axial†	5.0	8.8392	µg/L	3.65014	8.8392	ppb	3.65014	41.29%
Sb 206.836†	4.8	1.8095	µg/L	1.99418	1.8095	ppb	1.99418	110.20%
Se 196.026†	6.3	4.48	µg/L	1.668	4.48	ppb	1.668	37.27%
SiO2 †	92820.7	5414.0	µg/L	46.37	5414.0	ppb	46.37	0.86%
Si 251.611†	90606.9	2480	µg/L	22.7	2480	ppb	22.7	0.91%
Sn 189.927†	-6.9	-1.4576	µg/L	0.92348	-1.4576	ppb	0.92348	63.36%
Sr 421.552†	1149.9	2.8808	µg/L	0.84829	2.8808	ppb	0.84829	29.45%
Ti 334.940†	641.4	0.6462	µg/L	0.02285	0.6462	ppb	0.02285	3.54%
Tl 190.801†	9.8	3.1363	µg/L	0.90950	3.1363	ppb	0.90950	29.00%
U 409.014†	10.7	0.5204	µg/L	1.55103	0.5204	ppb	1.55103	298.06%
V 292.402†	9.0	0.1069	µg/L	0.33139	0.1069	ppb	0.33139	309.98%
Zn 213.857†	57.0	1.0840	µg/L	0.05773	1.0840	ppb	0.05773	5.33%

Sequence No.: 10
Sample ID: CCV
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 3/14/2006 09:43:37
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	71454.4	71454.4	99.1	%			09:45:21
1	Al 396.153Radial†	26540.0	26742.2	4905.2	µg/L	4905.2	ppb	09:45:21
1	Ca 317.933Radial†	34306.0	34358.5	5062.8	µg/L	5062.8	ppb	09:45:41
1	Fe 238.204 Radial†	3644.2	3636.3	5111.1	µg/L	5111.1	ppb	09:45:41
1	K 766.490 Radial†	18879.3	17971.5	4908.0	µg/L	4908.0	ppb	09:45:21
1	Mg 279.077 IEC†	2423.6	2444.1	5075.6	µg/L	5075.6	ppb	09:45:41
1	Na 589.592 Radial†	97996.5	97691.9	10021	µg/L	10021	ppb	09:45:21
1	Sr 421.552†	196203.6	197960.7	498.46	µg/L	498.46	ppb	09:45:21
1	Sc 361.383	1517540.5	1517540.5	99.280	%			09:46:42
1	Y 371.029	833782.9	833782.9	98.358	%			09:46:42
1	Ag 328.068†	87627.4	89181.6	499.56	µg/L	499.56	ppb	09:46:47
1	As 188.979†	1176.3	1182.4	492.21	µg/L	492.21	ppb	09:47:07
1	B 249.677†	10525.6	10516.2	492.54	µg/L	492.54	ppb	09:46:47
1	Ba 233.527†	60009.1	60562.0	487.62	µg/L	487.62	ppb	09:46:47
1	Be 313.107†	937913.5	944354.7	492.33	µg/L	492.33	ppb	09:46:42
1	Cd 226.502†	17595.8	17756.1	488.61	µg/L	488.61	ppb	09:46:47
1	Co 228.616†	20543.5	20755.3	488.50	µg/L	488.50	ppb	09:46:47
1	Cr 267.716†	23056.2	23168.4	486.04	µg/L	486.04	ppb	09:46:47
1	Cu 324.752†	164771.6	162101.8	495.00	µg/L	495.00	ppb	09:46:42
1	Mn 257.610†	364735.0	367009.8	493.66	µg/L	493.66	ppb	09:46:42
1	Mo 202.031†	4666.4	4713.6	511.20	µg/L	511.20	ppb	09:47:07
1	Ni 231.604†	10305.6	10222.9	491.73	µg/L	491.73	ppb	09:46:47
1	P 214.914†	3968.5	3830.5	2488.1	µg/L	2488.1	ppb	09:47:07
1	Pb 220.353†	2528.8	2540.2	491.69	µg/L	491.69	ppb	09:47:07
1	S 181.975 Axial†	593.9	568.6	1002.1	µg/L	1002.1	ppb	09:47:07
1	Sb 206.836†	1350.7	1344.4	511.54	µg/L	511.54	ppb	09:47:07
1	Se 196.026†	668.7	698.2	495	µg/L	495	ppb	09:47:07
1	SiO2 †	91748.3	91698.0	5348.5	µg/L	5348.5	ppb	09:46:47
1	Sn 189.927†	2244.1	2283.2	496.76	µg/L	496.76	ppb	09:47:07
1	Ti 334.940†	503555.7	506666.0	501.46	µg/L	501.46	ppb	09:46:42
1	Tl 190.801†	1447.7	1487.9	478.03	µg/L	478.03	ppb	09:47:07
1	U 409.014†	10433.6	10142.0	495.18	µg/L	495.18	ppb	09:46:47
1	V 292.402†	44827.8	45238.3	492.72	µg/L	492.72	ppb	09:46:47
1	Zn 213.857†	25434.7	25325.0	488.03	µg/L	488.03	ppb	09:46:47
1	Si 251.611†	89872.6	89816.6	2460	µg/L	2460	ppb	09:48:19
2	Sc RADIAL	71418.0	71418.0	99.1	%			09:45:46
2	Al 396.153Radial†	26616.5	26833.1	4921.7	µg/L	4921.7	ppb	09:45:46
2	Ca 317.933Radial†	34432.8	34504.1	5084.2	µg/L	5084.2	ppb	09:46:06
2	Fe 238.204 Radial†	3651.9	3646.0	5124.6	µg/L	5124.6	ppb	09:46:06
2	K 766.490 Radial†	18928.0	18030.4	4924.1	µg/L	4924.1	ppb	09:45:46
2	Mg 279.077 IEC†	2424.6	2446.4	5080.4	µg/L	5080.4	ppb	09:46:06
2	Na 589.592 Radial†	97923.9	97669.0	10019	µg/L	10019	ppb	09:45:46
2	Sr 421.552†	196110.7	197967.8	498.48	µg/L	498.48	ppb	09:45:46
2	Sc 361.383	1504599.7	1504599.7	98.433	%			09:47:14
2	Y 371.029	826901.8	826901.8	97.546	%			09:47:14
2	Ag 328.068†	87535.1	89847.0	503.28	µg/L	503.28	ppb	09:47:20
2	As 188.979†	1177.3	1193.6	496.88	µg/L	496.88	ppb	09:47:40
2	B 249.677†	10525.4	10607.2	496.81	µg/L	496.81	ppb	09:47:20
2	Ba 233.527†	59886.7	60957.6	490.80	µg/L	490.80	ppb	09:47:20
2	Be 313.107†	928673.8	943093.4	491.67	µg/L	491.67	ppb	09:47:14
2	Cd 226.502†	17567.0	17879.3	492.00	µg/L	492.00	ppb	09:47:20
2	Co 228.616†	20523.9	20913.3	492.23	µg/L	492.23	ppb	09:47:20
2	Cr 267.716†	23044.4	23356.1	489.98	µg/L	489.98	ppb	09:47:20
2	Cu 324.752†	162342.8	161061.9	491.82	µg/L	491.82	ppb	09:47:14
2	Mn 257.610†	360752.2	366123.4	492.47	µg/L	492.47	ppb	09:47:14
2	Mo 202.031†	4669.1	4756.8	515.89	µg/L	515.89	ppb	09:47:40
2	Ni 231.604†	10279.5	10285.7	494.75	µg/L	494.75	ppb	09:47:20
2	P 214.914†	3961.6	3857.8	2505.8	µg/L	2505.8	ppb	09:47:40

2	Pb 220.353†	2528.8	2562.1	495.93 µg/L	495.93 ppb		09:47:40
2	S 181.975 Axial†	591.5	571.3	1007.0 µg/L	1007.0 ppb		09:47:40
2	Sb 206.836†	1337.6	1342.8	511.01 µg/L	511.01 ppb		09:47:40
2	Se 196.026†	672.8	708.2	502 µg/L	502 ppb		09:47:40
2	SiO2 †	91415.3	92154.6	5375.1 µg/L	5375.1 ppb		09:47:20
2	Sn 189.927†	2251.9	2310.6	502.71 µg/L	502.71 ppb		09:47:40
2	Ti 334.940†	497577.9	504955.4	499.77 µg/L	499.77 ppb		09:47:14
2	Tl 190.801†	1445.1	1497.8	481.20 µg/L	481.20 ppb		09:47:40
2	U 409.014†	10404.2	10202.5	498.14 µg/L	498.14 ppb		09:47:20
2	V 292.402†	44722.6	45519.8	495.80 µg/L	495.80 ppb		09:47:20
2	Zn 213.857†	25343.8	25453.1	490.52 µg/L	490.52 ppb		09:47:20
2	Si 251.611†	90258.7	90987.5	2490 µg/L	2490 ppb		09:48:24
3	Sc RADIAL	71175.1	71175.1	98.7 %			09:46:12
3	Al 396.153Radial†	26635.3	26943.9	4942.5 µg/L	4942.5 ppb		09:46:12
3	Ca 317.933Radial†	34405.1	34594.7	5097.6 µg/L	5097.6 ppb		09:46:32
3	Fe 238.204 Radial†	3658.1	3664.8	5151.1 µg/L	5151.1 ppb		09:46:32
3	K 766.490 Radial†	18841.3	18007.8	4917.9 µg/L	4917.9 ppb		09:46:12
3	Mg 279.077 IEC†	2422.6	2452.7	5093.3 µg/L	5093.3 ppb		09:46:32
3	Na 589.592 Radial†	97995.4	98078.8	10061 µg/L	10061 ppb		09:46:12
3	Sr 421.552†	196109.6	198642.3	500.18 µg/L	500.18 ppb		09:46:12
3	Sc 361.383	1523442.6	1523442.6	99.666 %			09:47:47
3	Y 371.029	836780.5	836780.5	98.712 %			09:47:47
3	Ag 328.068†	87876.6	89089.8	499.05 µg/L	499.05 ppb		09:47:52
3	As 188.979†	1177.8	1179.3	490.92 µg/L	490.92 ppb		09:48:13
3	B 249.677†	10548.9	10498.5	491.69 µg/L	491.69 ppb		09:47:52
3	Ba 233.527†	60078.8	60397.9	486.30 µg/L	486.30 ppb		09:47:52
3	Be 313.107†	936561.9	939338.7	489.72 µg/L	489.72 ppb		09:47:47
3	Cd 226.502†	17632.9	17724.7	487.74 µg/L	487.74 ppb		09:47:52
3	Co 228.616†	20555.5	20687.1	486.90 µg/L	486.90 ppb		09:47:52
3	Cr 267.716†	23118.8	23141.2	485.47 µg/L	485.47 ppb		09:47:52
3	Cu 324.752†	164108.1	160793.1	491.01 µg/L	491.01 ppb		09:47:47
3	Mn 257.610†	364258.4	365108.3	491.11 µg/L	491.11 ppb		09:47:47
3	Mo 202.031†	4657.6	4686.5	508.27 µg/L	508.27 ppb		09:48:13
3	Ni 231.604†	10335.7	10212.9	491.24 µg/L	491.24 ppb		09:47:52
3	P 214.914†	3979.7	3826.2	2485.3 µg/L	2485.3 ppb		09:48:13
3	Pb 220.353†	2540.2	2541.8	491.99 µg/L	491.99 ppb		09:48:13
3	S 181.975 Axial†	596.9	569.2	1003.2 µg/L	1003.2 ppb		09:48:13
3	Sb 206.836†	1342.9	1331.3	506.59 µg/L	506.59 ppb		09:48:13
3	Se 196.026†	663.9	690.8	490 µg/L	490 ppb		09:48:13
3	SiO2 †	91961.9	91554.3	5340.1 µg/L	5340.1 ppb		09:47:52
3	Sn 189.927†	2252.5	2282.9	496.70 µg/L	496.70 ppb		09:48:13
3	Ti 334.940†	502585.2	503727.3	498.55 µg/L	498.55 ppb		09:47:47
3	Tl 190.801†	1456.8	1491.3	479.12 µg/L	479.12 ppb		09:48:13
3	U 409.014†	10426.5	10094.2	492.86 µg/L	492.86 ppb		09:47:52
3	V 292.402†	44974.4	45210.4	492.39 µg/L	492.39 ppb		09:47:52
3	Zn 213.857†	25478.3	25269.5	486.96 µg/L	486.96 ppb		09:47:52
3	Si 251.611†	90165.2	89759.5	2460 µg/L	2460 ppb		09:48:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1515194.2	99.126	%	0.6305				0.64%
Sc RADIAL	71349.2	99.0	%	0.21				0.21%
Y 371.029	832488.4	98.205	%	0.5975				0.61%
Ag 328.068†	89372.8	500.63	µg/L	2.307	500.63	ppb	2.307	0.46%
QC value within limits for Ag 328.068 Recovery = 100.13%								
Al 396.153Radial†	26839.7	4923.1	µg/L	18.69	4923.1	ppb	18.69	0.38%
QC value within limits for Al 396.153Radial Recovery = 98.46%								
As 188.979†	1185.1	493.34	µg/L	3.134	493.34	ppb	3.134	0.64%
QC value within limits for As 188.979 Recovery = 98.67%								
B 249.677†	10540.6	493.68	µg/L	2.744	493.68	ppb	2.744	0.56%
QC value within limits for B 249.677 Recovery = 98.74%								
Ba 233.527†	60639.2	488.24	µg/L	2.317	488.24	ppb	2.317	0.47%
QC value within limits for Ba 233.527 Recovery = 97.65%								
Be 313.107†	942262.3	491.24	µg/L	1.360	491.24	ppb	1.360	0.28%
QC value within limits for Be 313.107 Recovery = 98.25%								
Ca 317.933Radial†	34485.7	5081.5	µg/L	17.56	5081.5	ppb	17.56	0.35%
QC value within limits for Ca 317.933Radial Recovery = 101.63%								
Cd 226.502†	17786.7	489.45	µg/L	2.251	489.45	ppb	2.251	0.46%
QC value within limits for Cd 226.502 Recovery = 97.89%								

Co 228.616†	20785.2	489.21 µg/L	2.734	489.21 ppb	2.734	0.56%
QC value within limits for Co 228.616 Recovery = 97.84%						
Cr 267.716†	23221.9	487.16 µg/L	2.454	487.16 ppb	2.454	0.50%
QC value within limits for Cr 267.716 Recovery = 97.43%						
Cu 324.752†	161318.9	492.61 µg/L	2.112	492.61 ppb	2.112	0.43%
QC value within limits for Cu 324.752 Recovery = 98.52%						
Fe 238.204 Radial†	3649.0	5128.9 µg/L	20.36	5128.9 ppb	20.36	0.40%
QC value within limits for Fe 238.204 Radial Recovery = 102.58%						
K 766.490 Radial†	18003.2	4916.7 µg/L	8.11	4916.7 ppb	8.11	0.16%
QC value within limits for K 766.490 Radial Recovery = 98.33%						
Mg 279.077 IEC†	2447.8	5083.1 µg/L	9.15	5083.1 ppb	9.15	0.18%
QC value within limits for Mg 279.077 IEC Recovery = 101.66%						
Mn 257.610†	366080.5	492.41 µg/L	1.276	492.41 ppb	1.276	0.26%
QC value within limits for Mn 257.610 Recovery = 98.48%						
Mo 202.031†	4719.0	511.79 µg/L	3.842	511.79 ppb	3.842	0.75%
QC value within limits for Mo 202.031 Recovery = 102.36%						
Na 589.592 Radial†	97813.3	10033 µg/L	23.6	10033 ppb	23.6	0.24%
QC value within limits for Na 589.592 Radial Recovery = 100.33%						
Ni 231.604†	10240.5	492.57 µg/L	1.902	492.57 ppb	1.902	0.39%
QC value within limits for Ni 231.604 Recovery = 98.51%						
P 214.914†	3838.2	2493.1 µg/L	11.13	2493.1 ppb	11.13	0.45%
QC value within limits for P 214.914 Recovery = 99.72%						
Pb 220.353†	2548.0	493.21 µg/L	2.368	493.21 ppb	2.368	0.48%
QC value within limits for Pb 220.353 Recovery = 98.64%						
S 181.975 Axial†	569.7	1004.1 µg/L	2.56	1004.1 ppb	2.56	0.26%
QC value within limits for S 181.975 Axial Recovery = 100.41%						
Sb 206.836†	1339.5	509.71 µg/L	2.714	509.71 ppb	2.714	0.53%
QC value within limits for Sb 206.836 Recovery = 101.94%						
Se 196.026†	699.1	496 µg/L	6.2	496 ppb	6.2	1.25%
QC value within limits for Se 196.026 Recovery = 99.15%						
SiO2 †	91802.3	5354.6 µg/L	18.28	5354.6 ppb	18.28	0.34%
QC value within limits for SiO2 Recovery = 100.13%						
Si 251.611†	90187.9	2470 µg/L	19.0	2470 ppb	19.0	0.77%
QC value within limits for Si 251.611 Recovery = 98.76%						
Sn 189.927†	2292.3	498.72 µg/L	3.452	498.72 ppb	3.452	0.69%
QC value within limits for Sn 189.927 Recovery = 99.74%						
Sr 421.552†	198190.3	499.04 µg/L	0.986	499.04 ppb	0.986	0.20%
QC value within limits for Sr 421.552 Recovery = 99.81%						
Ti 334.940†	505116.2	499.93 µg/L	1.461	499.93 ppb	1.461	0.29%
QC value within limits for Ti 334.940 Recovery = 99.99%						
Tl 190.801†	1492.3	479.45 µg/L	1.609	479.45 ppb	1.609	0.34%
QC value within limits for Tl 190.801 Recovery = 95.89%						
U 409.014†	10146.2	495.40 µg/L	2.645	495.40 ppb	2.645	0.53%
QC value within limits for U 409.014 Recovery = 99.08%						
V 292.402†	45322.8	493.64 µg/L	1.883	493.64 ppb	1.883	0.38%
QC value within limits for V 292.402 Recovery = 98.73%						
Zn 213.857†	25349.2	488.51 µg/L	1.822	488.51 ppb	1.822	0.37%
QC value within limits for Zn 213.857 Recovery = 97.70%						

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Nebulizer Back Pressure: 232.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 3/14/2006 09:50:37
Nebulizer Flow: 0.65 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Sc RADIAL	72774.8	72774.8	101	%			09:52:25
1	Al 396.153Radial†	49.8	13.3	2.4495	µg/L	2.4495	ppb	09:52:25
1	Ca 317.933Radial†	259.4	1.4	0.2038	µg/L	0.2038	ppb	09:52:45
1	Fe 238.204 Radial†	41.4	0.3	0.4873	µg/L	0.4873	ppb	09:52:45
1	K 766.490 Radial†	1073.5	-13.8	-3.7714	µg/L	-3.7714	ppb	09:52:25
1	Mg 279.077 IEC†	7.8	6.6	13.577	µg/L	13.577	ppb	09:52:45
1	Na 589.592 Radial†	709.4	-481.7	-49.415	µg/L	-49.415	ppb	09:52:25
1	Sr 421.552†	32.3	27.4	0.0691	µg/L	0.0691	ppb	09:52:25
1	Sc 361.383	1492607.7	1492607.7	97.649	%			09:53:44
1	Y 371.029	826979.8	826979.8	97.556	%			09:53:44
1	Ag 328.068†	-806.6	92.6	0.5165	µg/L	0.5165	ppb	09:53:49
1	As 188.979†	2.0	-0.4	-0.1530	µg/L	-0.1530	ppb	09:54:09
1	B 249.677†	304.2	225.8	10.553	µg/L	10.553	ppb	09:54:09
1	Ba 233.527†	-116.5	-1.6	-0.0132	µg/L	-0.0132	ppb	09:54:09
1	Be 313.107†	403.6	50.3	0.0262	µg/L	0.0262	ppb	09:53:49
1	Cd 226.502†	-29.3	2.8	0.0762	µg/L	0.0762	ppb	09:54:09
1	Co 228.616†	-61.1	0.2	0.0037	µg/L	0.0037	ppb	09:54:09
1	Cr 267.716†	60.9	7.2	0.1517	µg/L	0.1517	ppb	09:54:09
1	Cu 324.752†	3910.5	139.5	0.4300	µg/L	0.4300	ppb	09:53:49
1	Mn 257.610†	416.8	55.5	0.0747	µg/L	0.0747	ppb	09:54:09
1	Mo 202.031†	-12.9	0.2	0.0172	µg/L	0.0172	ppb	09:54:09
1	Ni 231.604†	157.9	4.2	0.2024	µg/L	0.2024	ppb	09:54:09
1	P 214.914†	162.4	-0.5	-0.3268	µg/L	-0.3268	ppb	09:54:09
1	Pb 220.353†	10.7	4.0	0.7761	µg/L	0.7761	ppb	09:54:09
1	S 181.975 Axial†	24.1	-4.9	-8.6301	µg/L	-8.6301	ppb	09:54:09
1	Sb 206.836†	26.6	11.2	4.2163	µg/L	4.2163	ppb	09:54:09
1	Se 196.026†	-32.1	-8.3	-5.87	µg/L	-5.87	ppb	09:54:09
1	SiO2 †	790.9	94.1	5.4861	µg/L	5.4861	ppb	09:54:09
1	Sn 189.927†	-25.6	-3.4	-0.7306	µg/L	-0.7306	ppb	09:54:09
1	Ti 334.940†	555.3	25.9	0.0255	µg/L	0.0255	ppb	09:53:49
1	Tl 190.801†	-16.0	13.3	4.2642	µg/L	4.2642	ppb	09:54:09
1	U 409.014†	287.0	-73.3	-3.5605	µg/L	-3.5605	ppb	09:53:49
1	V 292.402†	-70.1	13.5	0.1415	µg/L	0.1415	ppb	09:53:49
1	Zn 213.857†	305.1	18.3	0.3521	µg/L	0.3521	ppb	09:54:09
1	Si 251.611†	817.3	129.1	3.53	µg/L	3.53	ppb	09:55:33
2	Sc RADIAL	68835.4	68835.4	95.5	%			09:52:50
2	Al 396.153Radial†	85.6	53.6	9.8343	µg/L	9.8343	ppb	09:52:50
2	Ca 317.933Radial†	256.4	13.0	1.9174	µg/L	1.9174	ppb	09:53:10
2	Fe 238.204 Radial†	44.9	6.4	8.9554	µg/L	8.9554	ppb	09:53:10
2	K 766.490 Radial†	1028.4	-0.2	-0.0574	µg/L	-0.0574	ppb	09:52:50
2	Mg 279.077 IEC†	5.7	4.7	9.8271	µg/L	9.8271	ppb	09:53:10
2	Na 589.592 Radial†	808.9	-337.3	-34.600	µg/L	-34.600	ppb	09:52:50
2	Sr 421.552†	27.6	24.3	0.0611	µg/L	0.0611	ppb	09:52:50
2	Sc 361.383	1502773.7	1502773.7	98.314	%			09:54:15
2	Y 371.029	832882.0	832882.0	98.252	%			09:54:15
2	Ag 328.068†	-860.2	43.6	0.2458	µg/L	0.2458	ppb	09:54:20
2	As 188.979†	5.2	2.9	1.1928	µg/L	1.1928	ppb	09:54:41
2	B 249.677†	282.3	201.4	9.4116	µg/L	9.4116	ppb	09:54:41
2	Ba 233.527†	-106.2	9.6	0.0774	µg/L	0.0774	ppb	09:54:41
2	Be 313.107†	391.2	34.9	0.0182	µg/L	0.0182	ppb	09:54:20
2	Cd 226.502†	-29.6	2.6	0.0710	µg/L	0.0710	ppb	09:54:41
2	Co 228.616†	-53.3	8.5	0.2010	µg/L	0.2010	ppb	09:54:41
2	Cr 267.716†	53.2	-1.0	-0.0204	µg/L	-0.0204	ppb	09:54:41
2	Cu 324.752†	3893.8	95.4	0.2912	µg/L	0.2912	ppb	09:54:20
2	Mn 257.610†	417.9	53.8	0.0732	µg/L	0.0732	ppb	09:54:41
2	Mo 202.031†	-5.8	7.5	0.8107	µg/L	0.8107	ppb	09:54:41
2	Ni 231.604†	151.8	-3.0	-0.1434	µg/L	-0.1434	ppb	09:54:41
2	P 214.914†	162.0	-2.1	-1.3707	µg/L	-1.3707	ppb	09:54:41

2	Pb 220.353†	18.8	12.2	2.3611 µg/L	2.3611 ppb		09:54:41
2	S 181.975 Axial†	33.1	4.0	7.1030 µg/L	7.1030 ppb		09:54:41
2	Sb 206.836†	12.6	-3.3	-1.2284 µg/L	-1.2284 ppb		09:54:41
2	Se 196.026†	-30.4	-6.3	-4.44 µg/L	-4.44 ppb		09:54:41
2	SiO2 †	791.1	88.8	5.1807 µg/L	5.1807 ppb		09:54:41
2	Sn 189.927†	-20.6	1.9	0.4097 µg/L	0.4097 ppb		09:54:41
2	Ti 334.940†	513.1	-21.0	-0.0208 µg/L	-0.0208 ppb		09:54:20
2	Tl 190.801†	-22.4	6.8	2.1960 µg/L	2.1960 ppb		09:54:41
2	U 409.014†	368.2	7.3	0.3540 µg/L	0.3540 ppb		09:54:20
2	V 292.402†	-69.3	14.8	0.1674 µg/L	0.1674 ppb		09:54:20
2	Zn 213.857†	307.8	18.9	0.3637 µg/L	0.3637 ppb		09:54:41
2	Si 251.611†	756.6	61.6	1.69 µg/L	1.69 ppb		09:55:53
3	Sc RADIAL	72979.8	72979.8	101 %			09:53:15
3	Al 396.153Radial†	1.0	-35.0	-6.4547 µg/L	-6.4547 ppb		09:53:15
3	Ca 317.933Radial†	267.2	8.4	1.2354 µg/L	1.2354 ppb		09:53:35
3	Fe 238.204 Radial†	42.2	1.0	1.4667 µg/L	1.4667 ppb		09:53:35
3	K 766.490 Radial†	1020.1	-69.5	-18.988 µg/L	-18.988 ppb		09:53:15
3	Mg 279.077 IEC†	6.7	5.5	11.307 µg/L	11.307 ppb		09:53:35
3	Na 589.592 Radial†	870.9	-324.2	-33.251 µg/L	-33.251 ppb		09:53:15
3	Sr 421.552†	38.0	32.9	0.0829 µg/L	0.0829 ppb		09:53:15
3	Sc 361.383	1526630.6	1526630.6	99.874 %			09:54:46
3	Y 371.029	845517.9	845517.9	99.742 %			09:54:46
3	Ag 328.068†	-886.3	31.1	0.1749 µg/L	0.1749 ppb		09:54:52
3	As 188.979†	0.3	-2.1	-0.8759 µg/L	-0.8759 ppb		09:55:12
3	B 249.677†	285.4	200.1	9.3493 µg/L	9.3493 ppb		09:55:12
3	Ba 233.527†	-100.8	16.7	0.1345 µg/L	0.1345 ppb		09:55:12
3	Be 313.107†	341.5	-21.1	-0.0110 µg/L	-0.0110 ppb		09:54:52
3	Cd 226.502†	-33.7	-1.1	-0.0292 µg/L	-0.0292 ppb		09:55:12
3	Co 228.616†	-51.5	11.2	0.2631 µg/L	0.2631 ppb		09:55:12
3	Cr 267.716†	50.6	-4.4	-0.0928 µg/L	-0.0928 ppb		09:55:12
3	Cu 324.752†	3872.2	11.9	0.0366 µg/L	0.0366 ppb		09:54:52
3	Mn 257.610†	415.6	44.9	0.0605 µg/L	0.0605 ppb		09:55:12
3	Mo 202.031†	-13.6	-0.3	-0.0288 µg/L	-0.0288 ppb		09:55:12
3	Ni 231.604†	162.9	5.7	0.2736 µg/L	0.2736 ppb		09:55:12
3	P 214.914†	171.2	4.6	2.9855 µg/L	2.9855 ppb		09:55:12
3	Pb 220.353†	1.9	-5.0	-0.9735 µg/L	-0.9735 ppb		09:55:12
3	S 181.975 Axial†	27.9	-1.7	-3.0254 µg/L	-3.0254 ppb		09:55:12
3	Sb 206.836†	23.6	7.6	2.8445 µg/L	2.8445 ppb		09:55:12
3	Se 196.026†	-15.8	8.8	6.20 µg/L	6.20 ppb		09:55:12
3	SiO2 †	765.2	50.2	2.9306 µg/L	2.9306 ppb		09:55:12
3	Sn 189.927†	-22.3	0.5	0.1136 µg/L	0.1136 ppb		09:55:12
3	Ti 334.940†	457.8	-84.5	-0.0839 µg/L	-0.0839 ppb		09:54:52
3	Tl 190.801†	-17.0	12.7	4.0673 µg/L	4.0673 ppb		09:55:12
3	U 409.014†	365.5	-1.3	-0.0601 µg/L	-0.0601 ppb		09:54:52
3	V 292.402†	-40.0	45.2	0.4850 µg/L	0.4850 ppb		09:54:52
3	Zn 213.857†	311.7	17.9	0.3462 µg/L	0.3462 ppb		09:55:12
3	Si 251.611†	780.4	73.4	2.01 µg/L	2.01 ppb		09:56:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1507337.4	98.612	%	1.1426				1.16%
Sc RADIAL	71530.0	99.2	%	3.24				3.27%
Y 371.029	835126.6	98.517	%	1.1172				1.13%
Ag 328.068†	55.8	0.3124	µg/L	0.18026	0.3124	ppb	0.18026	57.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	10.6	1.9430	µg/L	8.15628	1.9430	ppb	8.15628	419.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.1	0.0546	µg/L	1.04988	0.0546	ppb	1.04988	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	209.1	9.7713	µg/L	0.67775	9.7713	ppb	0.67775	6.94%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	8.2	0.0662	µg/L	0.07444	0.0662	ppb	0.07444	112.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	21.3	0.0111	µg/L	0.01960	0.0111	ppb	0.01960	176.08%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	7.6	1.1189	µg/L	0.86272	1.1189	ppb	0.86272	77.11%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.4	0.0393	µg/L	0.05940	0.0393	ppb	0.05940	151.05%
QC value within limits for Cd 226.502 Recovery = Not calculated								

Co 228.616†	6.6	0.1559 µg/L	0.13543	0.1559 ppb	0.13543	86.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.6	0.0128 µg/L	0.12556	0.0128 ppb	0.12556	978.78%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	82.3	0.2526 µg/L	0.19950	0.2526 ppb	0.19950	78.98%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.6	3.6365 µg/L	4.63226	3.6365 ppb	4.63226	127.38%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-27.8	-7.6057 µg/L	10.03102	-7.6057 ppb	10.03102	131.89%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	5.6	11.570 µg/L	1.8886	11.570 ppb	1.8886	16.32%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	51.4	0.0695 µg/L	0.00783	0.0695 ppb	0.00783	11.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.5	0.2664 µg/L	0.47196	0.2664 ppb	0.47196	177.17%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-381.1	-39.088 µg/L	8.9682	-39.088 ppb	8.9682	22.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	2.3	0.1109 µg/L	0.22310	0.1109 ppb	0.22310	201.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.7	0.4293 µg/L	2.27440	0.4293 ppb	2.27440	529.78%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.7	0.7212 µg/L	1.66801	0.7212 ppb	1.66801	231.27%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.9	-1.5175 µg/L	7.97422	-1.5175 ppb	7.97422	525.48%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.2	1.9441 µg/L	2.83181	1.9441 ppb	2.83181	145.66%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.9	-1.37 µg/L	6.592	-1.37 ppb	6.592	481.16%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2 †	77.7	4.5325 µg/L	1.39566	4.5325 ppb	1.39566	30.79%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	88.0	2.41 µg/L	0.986	2.41 ppb	0.986	40.92%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.3	-0.0691 µg/L	0.59168	-0.0691 ppb	0.59168	856.53%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	28.2	0.0710 µg/L	0.01103	0.0710 ppb	0.01103	15.52%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-26.6	-0.0264 µg/L	0.05491	-0.0264 ppb	0.05491	207.87%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	10.9	3.5092 µg/L	1.14149	3.5092 ppb	1.14149	32.53%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-22.5	-1.0889 µg/L	2.15047	-1.0889 ppb	2.15047	197.50%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	24.5	0.2646 µg/L	0.19132	0.2646 ppb	0.19132	72.30%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	18.4	0.3540 µg/L	0.00893	0.3540 ppb	0.00893	2.52%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	597	2070	0.577
Be	9.0	9.0	2063	2090	0.575
Mg	24.0	24.0	5688	2100	0.536
Mg	25.0	25.0	5956	2080	0.591
Mg	26.0	26.0	6160	2100	0.592
Co	58.9	58.9	14190	2125	0.551
Rh	102.9	102.9	24878	2175	0.560
In	114.9	114.9	27795	2205	0.534
Ce	139.9	139.9	33878	2215	0.567
Pb	206.0	206.0	49948	2290	0.616
Pb	207.0	207.0	50171	2300	0.556
Pb	208.0	208.0	50451	2300	0.569
U	238.1	238.0	57732	2340	0.574

✓ SAG 3/15/06

ICPMS #5 Daily Performance Report

Sample ID: Sample
Sample Date/Time: Wednesday, March 15, 2006 08:34:49
Sample Description:
Method File: c:\elandata\Method\Daily2.mth
Dataset File: c:\elandata\Dataset\default\Sample.1355
Tuning File: c:\elandata\Tuning\default2.tun
Optimization File: c:\elandata\Optimize\default.dac
Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35
Current Dead Time (ns): 35

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Be	9.0	4801.2	4801.207	160.156	3.3
	Mg	24.0	44107.2	44107.191	444.160	1.0
	Co	58.9	94316.1	94316.139	834.165	0.9
	Rh	102.9	178222.9	178222.889	3084.904	1.7
	In	114.9	198892.2	198892.213	1358.308	0.7
	Pb	208.0	136108.3	136108.347	1024.598	0.8
⌈>	Ba	137.9	220624.3	220624.285	629.950	0.3
⌊	Ba++	69.0	4743.0	0.021	0.000	2.1
⌈>	Ce	139.9	271345.7	271345.670	2074.194	0.8
⌊	CeO	155.9	5287.3	0.019	0.000	1.2
	Bkgd	220.0	21.0	21.000	2.000	9.5

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
8.75	Lens Voltage
1400.00	ICP RF Power
-1606.25	Analog Stage Voltage
1100.00	Pulse Stage Voltage
250.00	Discriminator Threshold
-6.00	AC Rod Offset

CAG 3/15/06

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	8.8	6263.0
Co	59	13	9.5	113690.6
In	115	13	10.3	291532.6

ICPMS#5 - Summary Report

Sample ID: Blank
Sample Date/Time: Wednesday, March 15, 2006 14:08:27
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\Blank.100

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7		ug/L		103	
	Be	9		ug/L		26	
	B	11		ug/L		720	
	Na	23		ug/L		28696	
	Mg	24		ug/L		11338	
	Al	27		ug/L		32706	
	P	31		ug/L		12463	
	K	39		ug/L		909386	
	Ca	43		ug/L		513	
>	Sc	45		ug/L		835916	
	Ti	47		ug/L		549	
	V	51		ug/L		37214	
	Cr	52		ug/L		14757	
	Cr	53		ug/L		264445	
	Mn	55		ug/L		2721	
	Fe	57		ug/L		9570	
	Co	59		ug/L		254	
	Ni	60		ug/L		100	
	Cu	63		ug/L		221	
	Cu	65		ug/L		153	
	Zn	66		ug/L		572	
	Zn	67		ug/L		27406	
	Zn	68		ug/L		2607	
>	Ge	74		ug/L		595651	
	As	75		ug/L		2348	
	Se	77		ug/L		20355	
	Se	82		ug/L		-47	
	Kr	83		ug/L		585	
	Sr	88		ug/L		632	
	Y	89		ug/L		172	
	Zr	90		ug/L		726	
	Mo	98		ug/L		234	
	Ag	107		ug/L		134	
	Cd	111		ug/L		36	
	Cd	114		ug/L		91	
>	In	115		ug/L		279102	
	Sn	120		ug/L		447	
	Sb	121		ug/L		405	
	Sb	123		ug/L		324	
	Ba	135		ug/L		78	
	Ba	137		ug/L		124	
	Ho	165		ug/L		29	
>	Ta	181		ug/L		447204	
	Tl	205		ug/L		1623	
	Pb	208		ug/L		1321	
	Bi	209		ug/L		26	
	Th	232		ug/L		1081	
	U	238		ug/L		868	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Simple Linear	
Be	9	Simple Linear	
B	11	Simple Linear	
Na	23	Simple Linear	
Mg	24	Simple Linear	
Al	27	Simple Linear	
P	31	Simple Linear	
K	39	Linear Thru Zero	1.0000
Ca	43	Simple Linear	
Sc	45	Linear Thru Zero	
Ti	47	Simple Linear	
V	51	Simple Linear	
Cr	52	Simple Linear	
Cr	53	Simple Linear	
Mn	55	Simple Linear	
Fe	57	Simple Linear	
Co	59	Simple Linear	
Ni	60	Simple Linear	
Cu	63	Simple Linear	
Cu	65	Simple Linear	
Zn	66	Simple Linear	
Zn	67	Simple Linear	
Zn	68	Simple Linear	
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Sr	88	Simple Linear	
Y	89	Simple Linear	
Zr	90	Simple Linear	
Mo	98	Simple Linear	
Ag	107	Simple Linear	
Cd	111	Simple Linear	
Cd	114	Simple Linear	
In	115	Simple Linear	
Sn	120	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Ba	135	Simple Linear	
Ba	137	Simple Linear	
Ho	165	Simple Linear	
Ta	181	Simple Linear	
Tl	205	Simple Linear	
Pb	208	Simple Linear	
Bi	209	Simple Linear	
Th	232	Simple Linear	
U	238	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Ta	181					
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Wednesday, March 15, 2006 14:13:37
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\Standard 1.101

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	10.000	ug/L	2.930	12286	0.015
	Be	9	10.000	ug/L	4.311	4539	0.005
	B	11	20.000	ug/L	4.155	7671	0.008
	Na	23	1000.000	ug/L	8.159	4835635	5.805
	Mg	24	1000.000	ug/L	5.610	3188456	3.840
	Al	27	1000.000	ug/L	11.370	5453368	6.563
	P	31	1000.000	ug/L	4.726	370014	0.432
	K	39	1000.000	ug/L	3.156	7289777	7.719
	Ca	43	1000.000	ug/L	2.808	14642	0.017
>	Sc	45		ug/L		827879	827878.672
	Ti	47	10.000	ug/L	3.996	9006	0.010
	V	51	10.000	ug/L	7.936	129631	0.112
	Cr	52	10.000	ug/L	5.717	91431	0.093
	Cr	53		ug/L		227383	-0.042
	Mn	55	10.000	ug/L	3.486	112917	0.133
	Fe	57	1000.000	ug/L	2.724	222297	0.257
	Co	59	10.000	ug/L	4.266	84968	0.102
	Ni	60	10.000	ug/L	3.056	18567	0.022
	Cu	63		ug/L		42375	0.051
	Cu	65	10.000	ug/L	2.702	21108	0.025
	Zn	66	10.000	ug/L	3.642	12476	0.020
	Zn	67		ug/L		25504	-0.003
	Zn	68		ug/L		11867	0.015
>	Ge	74		ug/L		597895	597894.838
	As	75	10.000	ug/L	3.832	17405	0.025
	Se	77		ug/L		17398	-0.005
	Se	82	10.000	ug/L	6.001	1287	0.002
	Kr	83		ug/L		553	-0.000
	Sr	88	10.000	ug/L	1.180	163387	0.574
	Y	89		ug/L		327	0.001
	Zr	90	10.000	ug/L	1.869	98412	0.344
	Mo	98	10.000	ug/L	3.996	46021	0.162
	Ag	107	10.000	ug/L	0.088	67824	0.239
	Cd	111	10.000	ug/L	2.346	14240	0.050
	Cd	114		ug/L		32407	0.114
>	In	115		ug/L		283593	283592.949
	Sn	120	10.000	ug/L	2.573	60631	0.212
	Sb	121	10.000	ug/L	2.249	50846	0.178
	Sb	123		ug/L		40632	0.142
	Ba	135		ug/L		18156	0.041
	Ba	137	10.000	ug/L	2.823	32702	0.073
	Ho	165		ug/L		33	0.000
>	Ta	181		ug/L		446007	446007.117
	Tl	205	10.000	ug/L	1.089	183233	0.407
	Pb	208	10.000	ug/L	1.518	230337	0.514
	Bi	209		ug/L		52	0.000
	Th	232	10.000	ug/L	1.740	232144	0.518
	U	238	10.000	ug/L	2.282	227103	0.507

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	1.0000
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	1.0000
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	1.0000
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Ta	181					
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Wednesday, March 15, 2006 14:18:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\Standard 2.102

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	100.035	ug/L	5.130	125726	0.153
	Be	9	99.980	ug/L	1.629	44061	0.053
	B	11	199.993	ug/L	1.746	69745	0.084
	Na	23	9993.519	ug/L	4.662	44886509	54.477
	Mg	24	9999.542	ug/L	3.031	31486676	38.225
	Al	27	9993.455	ug/L	7.451	50723829	61.560
	P	31	9984.418	ug/L	1.777	3088217	3.736
	K	39	9995.248	ug/L	4.634	61538079	73.651
	Ca	43	9999.091	ug/L	1.044	139859	0.169
>	Sc	45		ug/L		823397	823396.850
	Ti	47	99.998	ug/L	3.893	84641	0.102
	V	51	99.944	ug/L	1.028	911365	1.062
	Cr	52	99.953	ug/L	2.277	744736	0.887
	Cr	53		ug/L		251941	-0.010
	Mn	55	99.917	ug/L	2.569	1014759	1.229
	Fe	57	9987.332	ug/L	0.887	1886803	2.280
	Co	59	99.947	ug/L	1.083	800809	0.972
	Ni	60	99.936	ug/L	2.403	172589	0.209
	Cu	63		ug/L		400866	0.487
	Cu	65	99.958	ug/L	2.233	200238	0.243
	Zn	66	99.992	ug/L	1.974	117023	0.198
	Zn	67		ug/L		41527	0.024
	Zn	68		ug/L		92503	0.153
>	Ge	74		ug/L		589462	589462.269
	As	75	100.010	ug/L	2.177	152210	0.254
	Se	77		ug/L		20716	0.001
	Se	82	99.944	ug/L	2.012	12407	0.021
	Kr	83		ug/L		557	-0.000
	Sr	88	99.900	ug/L	1.432	1464279	5.211
	Y	89		ug/L		972	0.003
	Zr	90	99.925	ug/L	2.882	899652	3.201
	Mo	98	99.948	ug/L	2.111	431231	1.535
	Ag	107	99.941	ug/L	0.902	632973	2.253
	Cd	111	99.986	ug/L	0.571	138759	0.494
	Cd	114		ug/L		308042	1.096
>	In	115		ug/L		280893	280892.542
	Sn	120	99.929	ug/L	2.023	556577	1.980
	Sb	121	99.982	ug/L	2.933	490787	1.746
	Sb	123		ug/L		391672	1.393
	Ba	135		ug/L		175704	0.392
	Ba	137	99.934	ug/L	3.168	307019	0.685
	Ho	165		ug/L		38	0.000
>	Ta	181		ug/L		447977	447976.675
	Tl	205	99.856	ug/L	1.335	1593083	3.553
	Pb	208	99.905	ug/L	2.619	2100206	4.686
	Bi	209		ug/L		303	0.001
	Th	232	99.805	ug/L	0.879	1939167	4.327
	U	238	99.814	ug/L	2.066	1913778	4.271

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45					
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74					
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115					
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181					
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Wednesday, March 15, 2006 14:23:50
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 1.103

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	49.490	ug/L	1.359	62999	0.075
	Be	9	49.401	ug/L	0.831	22050	0.026
	B	11	110.859	ug/L	5.440	39405	0.046
	Na	23	4958.584	ug/L	7.644	22522003	27.030
	Mg	24	4937.941	ug/L	5.951	15727208	18.876
	Al	27	4956.705	ug/L	11.536	25450903	30.533
	P	31	5254.598	ug/L	5.106	1649268	1.966
	K	39	5058.092	ug/L	8.426	31914127	37.271
	Ca	43	4947.679	ug/L	4.669	70251	0.084
>	Sc	45		ug/L		833433	833432.705
	Ti	47	49.644	ug/L	3.012	42800	0.051
	V	51	52.031	ug/L	3.987	497648	0.553
	Cr	52	50.756	ug/L	5.374	389603	0.450
	Cr	53		ug/L		210011	-0.064
	Mn	55	52.618	ug/L	2.459	541940	0.647
	Fe	57	5281.495	ug/L	4.261	1013497	1.206
	Co	59	50.778	ug/L	4.832	411527	0.494
	Ni	60	50.830	ug/L	4.613	88820	0.107
	Cu	63		ug/L		202878	0.243
	Cu	65	50.569	ug/L	2.520	102554	0.123
	Zn	66	51.612	ug/L	2.798	60813	0.102
	Zn	67		ug/L		31829	0.008
	Zn	68		ug/L		49595	0.080
>	Ge	74		ug/L		590950	590950.279
	As	75	49.267	ug/L	2.897	76333	0.125
	Se	77		ug/L		15290	-0.008
	Se	82	50.642	ug/L	1.522	6280	0.011
	Kr	83		ug/L		537	-0.000
	Sr	88	52.349	ug/L	1.644	767180	2.731
	Y	89		ug/L		295	0.000
	Zr	90	51.303	ug/L	3.196	461962	1.643
	Mo	98	51.079	ug/L	2.837	220372	0.784
	Ag	107	51.726	ug/L	2.864	327424	1.166
	Cd	111	50.126	ug/L	1.733	69536	0.248
	Cd	114		ug/L		159020	0.566
>	In	115		ug/L		280742	280742.247
	Sn	120	51.727	ug/L	3.164	288115	1.025
	Sb	121	51.418	ug/L	1.545	252507	0.898
	Sb	123		ug/L		202119	0.719
	Ba	135		ug/L		89041	0.203
	Ba	137	51.339	ug/L	2.753	154455	0.352
	Ho	165		ug/L		39	0.000
>	Ta	181		ug/L		438535	438534.536
	Tl	205	53.121	ug/L	0.951	830498	1.890
	Pb	208	53.174	ug/L	1.557	1094946	2.494
	Bi	209		ug/L		59	0.000
	Th	232	55.481	ug/L	1.636	1055606	2.405
	U	238	56.279	ug/L	2.986	1056513	2.408

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	98.979				
Be	9	98.801				
B	11	110.859				
Na	23	99.172				
Mg	24	98.759				
Al	27	98.153				
P	31	105.092				
K	39	101.162				
Ca	43	98.954				
> Sc	45		99.7			
Ti	47	99.287				
V	51	104.062				
Cr	52	101.513				
Cr	53					
Mn	55	105.237				
Fe	57	105.630				
Co	59	101.557				
Ni	60	101.661				
Cu	63					
Cu	65	101.138				
Zn	66	103.223				
Zn	67					
Zn	68					
> Ge	74		99.2			
As	75	98.533				
Se	77					
Se	82	101.284				
Kr	83					
Sr	88	104.699				
Y	89					
Zr	90	102.606				
Mo	98	102.157				
Ag	107	103.452				
Cd	111	100.251				
Cd	114					
> In	115		100.6			
Sn	120	103.453				
Sb	121	102.835				
Sb	123					
Ba	135					
Ba	137	102.677				
Ho	165					
> Ta	181		98.1			
Tl	205	106.242				
Pb	208	106.347				
Bi	209					
Th	232	110.962				
U	238	112.559				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	B	11	ICV is out of limits (+/- 10%)
QC Std 1	Th	232	ICV is out of limits (+/- 10%)
QC Std 1	U	238	ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Wednesday, March 15, 2006 14:28:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 2.104

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.009	ug/L	66.784	116	0.000
	Be	9	-0.002	ug/L	905.346	25	-0.000
	B	11	4.642	ug/L	20.029	2380	0.002
	Na	23	0.633	ug/L	116.892	32036	0.003
	Mg	24	0.464	ug/L	289.829	13006	0.002
	Al	27	-1.562	ug/L	76.106	25023	-0.010
	P	31	-1.640	ug/L	38.424	12122	-0.001
	K	39	-8.103	ug/L	79.852	871854	-0.060
	Ca	43	-1.208	ug/L	92.199	503	-0.000
>	Sc	45		ug/L		847912	847912.333
	Ti	47	-0.009	ug/L	278.969	549	-0.000
	V	51	-0.347	ug/L	288.721	34627	-0.004
	Cr	52	-0.953	ug/L	9.129	7796	-0.008
	Cr	53		ug/L		192955	-0.089
	Mn	55	-0.018	ug/L	48.120	2577	-0.000
	Fe	57	-3.212	ug/L	17.452	9086	-0.001
	Co	59	0.001	ug/L	102.191	268	0.000
	Ni	60	-0.000	ug/L	644.930	101	-0.000
	Cu	63		ug/L		238	0.000
	Cu	65	-0.000	ug/L	348.325	155	-0.000
	Zn	66	-0.033	ug/L	50.373	529	-0.000
	Zn	67		ug/L		23761	-0.006
	Zn	68		ug/L		2290	-0.000
>	Ge	74		ug/L		590678	590677.568
	As	75	-0.116	ug/L	563.724	2137	-0.000
	Se	77		ug/L		12225	-0.013
	Se	82	0.251	ug/L	155.137	-16	0.000
	Kr	83		ug/L		578	-0.000
	Sr	88	0.000	ug/L	4253.197	631	0.000
	Y	89		ug/L		170	-0.000
	Zr	90	0.141	ug/L	21.074	1984	0.005
	Mo	98	0.022	ug/L	28.758	327	0.000
	Ag	107	0.002	ug/L	88.952	149	0.000
	Cd	111	0.012	ug/L	44.582	52	0.000
	Cd	114		ug/L		78	-0.000
>	In	115		ug/L		278306	278305.914
	Sn	120	0.169	ug/L	27.747	1376	0.003
	Sb	121	0.473	ug/L	31.396	2702	0.008
	Sb	123		ug/L		2178	0.007
	Ba	135		ug/L		89	0.000
	Ba	137	0.004	ug/L	79.122	130	0.000
	Ho	165		ug/L		25	-0.000
>	Ta	181		ug/L		430446	430446.459
	Tl	205	0.070	ug/L	51.453	2629	0.002
	Pb	208	0.007	ug/L	18.500	1422	0.000
	Bi	209		ug/L		29	0.000
	Th	232	0.094	ug/L	32.110	2802	0.004
	U	238	0.006	ug/L	30.201	945	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Ta	181		96.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Wednesday, March 15, 2006 14:34:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 3.105

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	9.680	ug/L	2.517	12107	0.015
	Be	9	0.450	ug/L	12.384	221	0.000
	B	11	17.665	ug/L	9.315	6719	0.007
	Na	23	292.291	ug/L	11.010	1323294	1.593
	Mg	24	12.763	ug/L	28.377	50760	0.049
	Al	27	12.400	ug/L	8.363	93976	0.076
	P	31	53.905	ug/L	3.658	28525	0.020
	K	39	312.386	ug/L	6.278	2757773	2.302
	Ca	43	105.479	ug/L	1.039	1951	0.002
>	Sc	45		ug/L		813298	813297.897
	Ti	47	8.110	ug/L	5.441	7268	0.008
	V	51	10.970	ug/L	5.097	131066	0.117
	Cr	52	2.473	ug/L	3.376	32208	0.022
	Cr	53		ug/L		194099	-0.078
	Mn	55	5.386	ug/L	2.664	56525	0.066
	Fe	57	25.570	ug/L	8.340	14060	0.006
	Co	59	1.076	ug/L	0.835	8760	0.010
	Ni	60	2.236	ug/L	2.732	3910	0.005
	Cu	63		ug/L		4480	0.005
	Cu	65	1.109	ug/L	2.632	2342	0.003
	Zn	66	9.988	ug/L	1.533	12230	0.020
	Zn	67		ug/L		25011	-0.004
	Zn	68		ug/L		11450	0.015
>	Ge	74		ug/L		590887	590886.677
	As	75	5.135	ug/L	13.073	10041	0.013
	Se	77		ug/L		12838	-0.012
	Se	82	5.115	ug/L	3.966	592	0.001
	Kr	83		ug/L		569	-0.000
	Sr	88	10.996	ug/L	0.885	161935	0.574
	Y	89		ug/L		239	0.000
	Zr	90	2.401	ug/L	6.379	22349	0.077
	Mo	98	0.475	ug/L	3.281	2286	0.007
	Ag	107	1.059	ug/L	1.482	6851	0.024
	Cd	111	1.005	ug/L	2.761	1432	0.005
	Cd	114		ug/L		3170	0.011
>	In	115		ug/L		281200	281199.901
	Sn	120	5.293	ug/L	4.606	29936	0.105
	Sb	121	2.119	ug/L	4.583	10810	0.037
	Sb	123		ug/L		8758	0.030
	Ba	135		ug/L		3663	0.008
	Ba	137	2.074	ug/L	3.959	6267	0.014
	Ho	165		ug/L		30	0.000
>	Ta	181		ug/L		432349	432349.484
	Tl	205	1.106	ug/L	1.871	18590	0.039
	Pb	208	2.150	ug/L	2.108	44867	0.101
	Bi	209		ug/L		27	0.000
	Th	232	1.188	ug/L	2.730	23306	0.052
	U	238	0.199	ug/L	3.150	4515	0.009

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7	96.801				
	Be	9	90.050				
	B	11	117.765				
	Na	23	116.916				
	Mg	24	85.086				
	Al	27	82.668				
	P	31	107.809				
	K	39	104.129				
	Ca	43	105.479				
>	Sc	45		97.3			
	Ti	47	81.096				
	V	51	109.698				
	Cr	52	82.444				
	Cr	53					
	Mn	55	107.721				
	Fe	57	102.281				
	Co	59	107.610				
	Ni	60	111.787				
	Cu	63					
	Cu	65	110.928				
	Zn	66	99.875				
	Zn	67					
	Zn	68					
>	Ge	74		99.2			
	As	75	102.695				
	Se	77					
	Se	82	102.298				
	Kr	83					
	Sr	88	109.958				
	Y	89					
	Zr	90	120.032				
	Mo	98	94.988				
	Ag	107	105.932				
	Cd	111	100.537				
	Cd	114					
>	In	115		100.8			
	Sn	120	105.867				
	Sb	121	105.931				
	Sb	123					
	Ba	135					
	Ba	137	103.723				
	Ho	165					
>	Ta	181		96.7			
	Tl	205	110.626				
	Pb	208	107.495				
	Bi	209					
	Th	232	118.812				
	U	238	99.391				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Wednesday, March 15, 2006 14:39:17
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 4.106

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.656	ug/L	3.203	888	0.001
	Be	9	-0.007	ug/L	70.151	21	-0.000
	B	11	4.084	ug/L	6.188	2035	0.002
	Na	23	108909.884	ug/L	1.782	469339637	593.694
	Mg	24	104715.037	ug/L	3.051	316415287	400.289
	Al	27	103798.248	ug/L	4.787	505280524	639.399
	P	31	102546.443	ug/L	3.215	30332626	38.367
	K	39	103390.299	ug/L	4.525	603018310	761.841
	Ca	43	94821.964	ug/L	2.344	1269021	1.605
>	Sc	45		ug/L		790547	790546.549
	Ti	47	1682.622	ug/L	2.055	1358941	1.719
	V	51	-1.590	ug/L	46.895	21795	-0.017
	Cr	52	-0.849	ug/L	11.579	7996	-0.008
	Cr	53		ug/L		136649	-0.143
	Mn	55	2.898	ug/L	2.081	30755	0.036
	Fe	57	97946.362	ug/L	3.480	17680234	22.360
	Co	59	0.417	ug/L	4.878	3447	0.004
	Ni	60	2.939	ug/L	3.109	4965	0.006
	Cu	63		ug/L		7580	0.009
	Cu	65	3.179	ug/L	2.030	6256	0.008
	Zn	66	7.493	ug/L	5.607	8710	0.015
	Zn	67		ug/L		18192	-0.013
	Zn	68		ug/L		4664	0.004
>	Ge	74		ug/L		552806	552805.903
	As	75	-0.292	ug/L	78.110	1770	-0.001
	Se	77		ug/L		12858	-0.011
	Se	82	-1.536	ug/L	29.051	-222	-0.000
	Kr	83		ug/L		825	0.001
	Sr	88	1.678	ug/L	1.014	23632	0.088
	Y	89		ug/L		991	0.003
	Zr	90	0.329	ug/L	13.219	3459	0.011
	Mo	98	1993.363	ug/L	1.989	8055711	30.609
	Ag	107	0.084	ug/L	2.850	625	0.002
	Cd	111	0.181	ug/L	27.610	268	0.001
	Cd	114		ug/L		11533	0.044
>	In	115		ug/L		263183	263182.776
	Sn	120	0.133	ug/L	15.850	1117	0.003
	Sb	121	0.552	ug/L	5.797	2917	0.010
	Sb	123		ug/L		2378	0.008
	Ba	135		ug/L		752	0.002
	Ba	137	0.399	ug/L	4.481	1254	0.003
	Ho	165		ug/L		50	0.000
>	Ta	181		ug/L		416263	416263.384
	Tl	205	-0.026	ug/L	12.021	1129	-0.001
	Pb	208	0.353	ug/L	2.111	8116	0.017
	Bi	209		ug/L		3449	0.008
	Th	232	0.006	ug/L	187.740	1115	0.000
	U	238	-0.027	ug/L	3.136	334	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23	108.910				
	Mg	24	104.715				
	Al	27	103.798				
	P	31	102.546				
	K	39	103.390				
	Ca	43	94.822				
>	Sc	45		94.6			
	Ti	47	84.131				
	V	51					
	Cr	52	-38.578				
	Cr	53					
	Mn	55	107.340				
	Fe	57	97.946				
	Co	59	104.302				
	Ni	60	122.472				
	Cu	63					
	Cu	65	93.502				
	Zn	66	107.045				
	Zn	67					
	Zn	68					
>	Ge	74		92.8			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98	99.668				
	Ag	107					
	Cd	111	90.344				
	Cd	114					
>	In	115		94.3			
	Sn	120					
	Sb	121	110.352				
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		93.1			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Wednesday, March 15, 2006 14:44:25
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 5.107

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	**23.493**	**ug/L**	3.867	28859	0.036
	Be	9	**20.442**	**ug/L**	3.974	8800	0.011
	B	11	**24.733**	**ug/L**	2.649	9014	0.010
	Na	23	**104786.299**	**ug/L**	3.346	458472376	571.215
	Mg	24	**102370.458**	**ug/L**	6.126	314178528	391.326
	Al	27	**103233.702**	**ug/L**	1.660	510619875	635.921
	P	31	**101354.118**	**ug/L**	0.402	30458309	37.920
	K	39	**105145.125**	**ug/L**	4.864	623118920	774.772
	Ca	43	**93906.266**	**ug/L**	0.855	1276580	1.589
>	Sc	45		**ug/L**		802874	802874.023
	Ti	47	**1634.067**	**ug/L**	2.115	1340266	1.669
	V	51	**19.848**	**ug/L**	1.663	205106	0.211
	Cr	52	**20.555**	**ug/L**	0.592	160597	0.182
	Cr	53		**ug/L**		148872	-0.131
	Mn	55	**23.486**	**ug/L**	2.281	234522	0.289
	Fe	57	**96785.877**	**ug/L**	0.788	17748334	22.095
	Co	59	**20.346**	**ug/L**	1.766	159122	0.198
	Ni	60	**22.095**	**ug/L**	2.446	37275	0.046
	Cu	63		**ug/L**		80351	0.100
	Cu	65	**21.223**	**ug/L**	2.962	41559	0.052
	Zn	66	**26.440**	**ug/L**	1.428	29966	0.052
	Zn	67		**ug/L**		21125	-0.009
	Zn	68		**ug/L**		21572	0.034
>	Ge	74		**ug/L**		563213	563212.552
	As	75	**20.189**	**ug/L**	3.384	31131	0.051
	Se	77		**ug/L**		14642	-0.008
	Se	82	**18.738**	**ug/L**	1.235	2187	0.004
	Kr	83		**ug/L**		834	0.000
	Sr	88	**23.507**	**ug/L**	2.347	320862	1.226
	Y	89		**ug/L**		1022	0.003
	Zr	90	**21.430**	**ug/L**	3.481	179962	0.686
	Mo	98	**2053.792**	**ug/L**	1.932	8237024	31.537
	Ag	107	**20.762**	**ug/L**	2.470	122377	0.468
	Cd	111	**20.331**	**ug/L**	0.654	26265	0.100
	Cd	114		**ug/L**		69593	0.266
>	In	115		**ug/L**		261203	261203.259
	Sn	120	**21.700**	**ug/L**	1.826	112727	0.430
	Sb	121	**22.601**	**ug/L**	1.652	103485	0.395
	Sb	123		**ug/L**		81212	0.310
	Ba	135		**ug/L**		34189	0.082
	Ba	137	**21.051**	**ug/L**	2.815	60245	0.144
	Ho	165		**ug/L**		68	0.000
>	Ta	181		**ug/L**		416681	416681.131
	Tl	205	**20.194**	**ug/L**	1.288	300904	0.718
	Pb	208	**20.532**	**ug/L**	2.138	402462	0.963
	Bi	209		**ug/L**		3385	0.008
	Th	232	**23.067**	**ug/L**	2.126	417619	1.000
	U	238	**22.360**	**ug/L**	0.837	399419	0.957

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7	117.467				
	Be	9	102.208				
	B	11	123.666				
	Na	23	104.786				
	Mg	24	102.370				
	Al	27	103.234				
	P	31	101.354				
	K	39	105.145				
	Ca	43	93.906				
>	Sc	45		96.0			
	Ti	47	81.703				
	V	51	99.240				
	Cr	52	92.588				
	Cr	53					
	Mn	55	103.461				
	Fe	57	96.786				
	Co	59	99.737				
	Ni	60	98.640				
	Cu	63					
	Cu	65	90.695				
	Zn	66	97.926				
	Zn	67					
	Zn	68					
>	Ge	74		94.6			
	As	75	100.944				
	Se	77					
	Se	82	93.688				
	Kr	83					
	Sr	88	117.535				
	Y	89					
	Zr	90	107.152				
	Mo	98	102.690				
	Ag	107	103.808				
	Cd	111	100.647				
	Cd	114					
>	In	115		93.6			
	Sn	120	108.499				
	Sb	121	110.248				
	Sb	123					
	Ba	135					
	Ba	137	105.254				
	Ho	165					
>	Ta	181		93.2			
	Tl	205	100.969				
	Pb	208	102.658				
	Bi	209					
	Th	232	115.335				
	U	238	111.799				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	B	11	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Wednesday, March 15, 2006 14:49:34
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 6.108

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	54.657	ug/L	4.544	71370	0.083
	Be	9	52.155	ug/L	5.287	23868	0.028
	B	11	110.982	ug/L	4.504	40501	0.047
	Na	23	6046.609	ug/L	7.240	28191877	32.962
	Mg	24	5074.934	ug/L	6.652	16598253	19.400
	Al	27	5306.130	ug/L	10.178	27942600	32.686
	P	31	5234.444	ug/L	2.188	1687310	1.958
	K	39	5256.345	ug/L	5.044	34029981	38.732
	Ca	43	4907.057	ug/L	0.982	71576	0.083
>	Sc	45		ug/L		855302	855301.995
	Ti	47	49.540	ug/L	2.437	43832	0.051
	V	51	51.773	ug/L	5.056	508385	0.550
	Cr	52	51.223	ug/L	4.344	403538	0.454
	Cr	53		ug/L		197545	-0.085
	Mn	55	52.407	ug/L	1.584	554059	0.645
	Fe	57	5368.612	ug/L	2.766	1057552	1.226
	Co	59	50.899	ug/L	3.508	423508	0.495
	Ni	60	51.095	ug/L	3.122	91671	0.107
	Cu	63		ug/L		208257	0.243
	Cu	65	49.270	ug/L	2.189	102583	0.120
	Zn	66	50.666	ug/L	3.094	61446	0.100
	Zn	67		ug/L		30074	0.003
	Zn	68		ug/L		50452	0.079
>	Ge	74		ug/L		608173	608172.608
	As	75	49.726	ug/L	1.636	79272	0.126
	Se	77		ug/L		14760	-0.010
	Se	82	51.557	ug/L	3.832	6578	0.011
	Kr	83		ug/L		568	-0.000
	Sr	88	52.055	ug/L	2.692	783295	2.716
	Y	89		ug/L		313	0.000
	Zr	90	52.266	ug/L	2.427	483321	1.674
	Mo	98	52.269	ug/L	2.049	231583	0.803
	Ag	107	53.040	ug/L	1.630	344851	1.196
	Cd	111	50.648	ug/L	0.863	72157	0.250
	Cd	114		ug/L		161794	0.561
>	In	115		ug/L		288294	288294.304
	Sn	120	51.595	ug/L	4.008	295093	1.022
	Sb	121	50.498	ug/L	3.347	254622	0.882
	Sb	123		ug/L		202161	0.700
	Ba	135		ug/L		89982	0.199
	Ba	137	50.911	ug/L	2.898	157672	0.349
	Ho	165		ug/L		33	0.000
>	Ta	181		ug/L		451514	451513.589
	Tl	205	52.906	ug/L	3.210	851146	1.882
	Pb	208	52.812	ug/L	2.286	1119514	2.477
	Bi	209		ug/L		62	0.000
	Th	232	55.654	ug/L	3.881	1089979	2.413
	U	238	55.837	ug/L	3.037	1079087	2.389

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	0.9999
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7	109.313				
	Be	9	104.310				
	B	11	110.982				
	Na	23	120.932				
	Mg	24	101.499				
	Al	27	105.072				
	P	31	104.689				
	K	39	105.127				
	Ca	43	98.141				
>	Sc	45		102.3			
	Ti	47	99.081				
	V	51	103.545				
	Cr	52	102.445				
	Cr	53					
	Mn	55	104.814				
	Fe	57	107.372				
	Co	59	101.798				
	Ni	60	102.190				
	Cu	63					
	Cu	65	98.540				
	Zn	66	101.333				
	Zn	67					
	Zn	68					
>	Ge	74		102.1			
	As	75	99.452				
	Se	77					
	Se	82	103.113				
	Kr	83					
	Sr	88	104.110				
	Y	89					
	Zr	90	104.533				
	Mo	98	104.538				
	Ag	107	106.081				
	Cd	111	101.295				
	Cd	114					
>	In	115		103.3			
	Sn	120	103.190				
	Sb	121	100.997				
	Sb	123					
	Ba	135					
	Ba	137	101.823				
	Ho	165					
>	Ta	181		101.0			
	Tl	205	105.812				
	Pb	208	105.625				
	Bi	209					
	Th	232	111.308				
	U	238	111.675				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	B	11	CCV is out of limits (+/- 10%)
QC Std 6	Na	23	CCV is out of limits (+/- 10%)
QC Std 6	Th	232	CCV is out of limits (+/- 10%)
QC Std 6	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Wednesday, March 15, 2006 14:54:43
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 7.109

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	-0.002	ug/L	410.135	106	-0.000
	Be	9	-0.007	ug/L	27.408	24	-0.000
	B	11	2.647	ug/L	25.355	1738	0.001
	Na	23	4.453	ug/L	49.930	51763	0.024
	Mg	24	0.804	ug/L	59.925	14674	0.003
	Al	27	-0.516	ug/L	155.839	31702	-0.003
	P	31	-1.046	ug/L	361.295	12810	-0.000
	K	39	-17.715	ug/L	13.331	844946	-0.131
	Ca	43	-1.862	ug/L	94.957	513	-0.000
>	Sc	45		ug/L		882505	882504.831
	Ti	47	0.054	ug/L	49.921	628	0.000
	V	51	-1.118	ug/L	27.805	28807	-0.012
	Cr	52	-1.107	ug/L	4.708	6912	-0.010
	Cr	53		ug/L		175872	-0.117
	Mn	55	-0.031	ug/L	31.318	2534	-0.000
	Fe	57	-5.276	ug/L	15.649	9040	-0.001
	Co	59	-0.000	ug/L	465.974	265	-0.000
	Ni	60	0.003	ug/L	187.336	111	0.000
	Cu	63		ug/L		240	0.000
	Cu	65	0.018	ug/L	19.763	201	0.000
	Zn	66	-0.037	ug/L	41.170	536	-0.000
	Zn	67		ug/L		22122	-0.009
	Zn	68		ug/L		2021	-0.001
>	Ge	74		ug/L		604158	604158.351
	As	75	-0.117	ug/L	138.139	2200	-0.000
	Se	77		ug/L		10756	-0.016
	Se	82	0.240	ug/L	190.144	-16	0.000
	Kr	83		ug/L		617	0.000
	Sr	88	-0.001	ug/L	196.894	626	-0.000
	Y	89		ug/L		165	-0.000
	Zr	90	0.150	ug/L	14.455	2116	0.005
	Mo	98	0.146	ug/L	22.041	879	0.002
	Ag	107	0.003	ug/L	110.189	157	0.000
	Cd	111	0.012	ug/L	8.189	53	0.000
	Cd	114		ug/L		83	-0.000
>	In	115		ug/L		285810	285809.850
	Sn	120	0.133	ug/L	34.023	1212	0.003
	Sb	121	0.362	ug/L	38.883	2222	0.006
	Sb	123		ug/L		1833	0.005
	Ba	135		ug/L		90	0.000
	Ba	137	0.009	ug/L	5.433	150	0.000
	Ho	165		ug/L		26	-0.000
>	Ta	181		ug/L		441361	441361.312
	Tl	205	0.083	ug/L	39.999	2896	0.003
	Pb	208	0.009	ug/L	14.328	1496	0.000
	Bi	209		ug/L		29	0.000
	Th	232	0.058	ug/L	42.490	2177	0.003
	U	238	0.003	ug/L	156.200	909	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		105.6			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		101.4			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		102.4			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		98.7			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 11
Sample Date/Time: Wednesday, March 15, 2006 15:04:59
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 11.111

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	51.787	ug/L	2.380	65304	0.079
	Be	9	50.221	ug/L	1.914	22197	0.027
	B	11	104.737	ug/L	5.574	36932	0.044
	Na	23	5385.176	ug/L	7.740	24254464	29.356
	Mg	24	5057.610	ug/L	5.812	15961099	19.333
	Al	27	5108.413	ug/L	8.180	25984839	31.468
	P	31	5083.586	ug/L	4.375	1581840	1.902
	K	39	5389.221	ug/L	1.972	33677338	39.711
	Ca	43	4826.453	ug/L	2.284	67926	0.082
>	Sc	45		ug/L		825467	825466.749
	Ti	47	46.790	ug/L	2.524	39982	0.048
	V	51	50.386	ug/L	7.713	478507	0.536
	Cr	52	49.088	ug/L	2.921	373977	0.436
	Cr	53		ug/L		185210	-0.092
	Mn	55	50.029	ug/L	2.410	510595	0.615
	Fe	57	5118.543	ug/L	3.499	973678	1.168
	Co	59	48.977	ug/L	3.527	393424	0.476
	Ni	60	49.359	ug/L	0.993	85508	0.103
	Cu	63		ug/L		194616	0.236
	Cu	65	48.238	ug/L	1.271	96940	0.117
	Zn	66	51.180	ug/L	2.661	57499	0.101
	Zn	67		ug/L		30066	0.007
	Zn	68		ug/L		47040	0.079
>	Ge	74		ug/L		563415	563414.716
	As	75	49.671	ug/L	2.040	73357	0.126
	Se	77		ug/L		12743	-0.012
	Se	82	51.873	ug/L	2.165	6133	0.011
	Kr	83		ug/L		504	-0.000
	Sr	88	52.511	ug/L	2.015	741489	2.739
	Y	89		ug/L		289	0.000
	Zr	90	52.649	ug/L	1.555	456852	1.687
	Mo	98	50.950	ug/L	2.320	211812	0.782
	Ag	107	52.150	ug/L	1.290	318116	1.176
	Cd	111	50.019	ug/L	1.986	66856	0.247
	Cd	114		ug/L		150542	0.556
>	In	115		ug/L		270455	270454.713
	Sn	120	53.932	ug/L	1.210	289470	1.069
	Sb	121	51.863	ug/L	2.290	245381	0.906
	Sb	123		ug/L		198002	0.731
	Ba	135		ug/L		85109	0.198
	Ba	137	50.611	ug/L	2.328	149353	0.347
	Ho	165		ug/L		33	0.000
>	Ta	181		ug/L		430165	430164.572
	Tl	205	53.017	ug/L	3.968	812588	1.886
	Pb	208	53.287	ug/L	0.755	1076328	2.499
	Bi	209		ug/L		58	0.000
	Th	232	57.038	ug/L	4.039	1064129	2.473
	U	238	57.239	ug/L	4.036	1053715	2.449

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7	103.574				
	Be	9	100.441				
	B	11	104.737				
	Na	23	107.704				
	Mg	24	101.152				
	Al	27	101.157				
	P	31	101.672				
	K	39	107.784				
	Ca	43	96.529				
>	Sc	45		98.7			
	Ti	47	93.581				
	V	51	100.772				
	Cr	52	98.175				
	Cr	53					
	Mn	55	100.059				
	Fe	57	102.371				
	Co	59	97.953				
	Ni	60	98.719				
	Cu	63					
	Cu	65	96.475				
	Zn	66	102.360				
	Zn	67					
	Zn	68					
>	Ge	74		94.6			
	As	75	99.342				
	Se	77					
	Se	82	103.745				
	Kr	83					
	Sr	88	105.022				
	Y	89					
	Zr	90	105.298				
	Mo	98	101.900				
	Ag	107	104.300				
	Cd	111	100.039				
	Cd	114					
>	In	115		96.9			
	Sn	120	107.865				
	Sb	121	103.726				
	Sb	123					
	Ba	135					
	Ba	137	101.221				
	Ho	165					
>	Ta	181		96.2			
	Tl	205	106.034				
	Pb	208	106.575				
	Bi	209					
	Th	232	114.075				
	U	238	114.479				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Th	232	CCV is out of limits (+/- 10%)
QC Std 11	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 12
Sample Date/Time: Wednesday, March 15, 2006 15:10:09
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 12.112

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.070	ug/L	21.208	196	0.000
	Be	9	0.023	ug/L	65.289	37	0.000
	B	11	2.702	ug/L	24.544	1690	0.001
	Na	23	2.499	ug/L	95.286	40728	0.014
	Mg	24	1.183	ug/L	80.732	15342	0.005
	Al	27	-0.215	ug/L	573.698	32037	-0.001
	P	31	-3.137	ug/L	37.912	11656	-0.001
	K	39	-14.602	ug/L	29.726	831873	-0.108
	Ca	43	-1.554	ug/L	137.735	498	-0.000
>	Sc	45		ug/L		848907	848906.622
	Ti	47	-0.029	ug/L	63.109	532	-0.000
	V	51	-0.248	ug/L	449.621	35459	-0.003
	Cr	52	-0.757	ug/L	7.243	9285	-0.007
	Cr	53		ug/L		163194	-0.124
	Mn	55	-0.026	ug/L	44.658	2494	-0.000
	Fe	57	-5.089	ug/L	36.138	8731	-0.001
	Co	59	0.010	ug/L	19.669	343	0.000
	Ni	60	0.014	ug/L	37.644	126	0.000
	Cu	63		ug/L		420	0.000
	Cu	65	0.040	ug/L	24.987	239	0.000
	Zn	66	-0.008	ug/L	144.021	544	-0.000
	Zn	67		ug/L		21599	-0.008
	Zn	68		ug/L		1952	-0.001
>	Ge	74		ug/L		575473	575472.915
	As	75	-0.159	ug/L	131.836	2036	-0.000
	Se	77		ug/L		9358	-0.018
	Se	82	-1.882	ug/L	177.440	-277	-0.000
	Kr	83		ug/L		807	0.000
	Sr	88	0.007	ug/L	29.845	720	0.000
	Y	89		ug/L		173	0.000
	Zr	90	0.181	ug/L	14.473	2296	0.006
	Mo	98	0.097	ug/L	16.319	636	0.001
	Ag	107	0.004	ug/L	42.082	158	0.000
	Cd	111	0.020	ug/L	23.325	62	0.000
	Cd	114		ug/L		101	0.000
>	In	115		ug/L		273246	273245.964
	Sn	120	0.773	ug/L	17.322	4621	0.015
	Sb	121	0.810	ug/L	21.200	4258	0.014
	Sb	123		ug/L		3349	0.011
	Ba	135		ug/L		131	0.000
	Ba	137	0.027	ug/L	17.484	199	0.000
	Ho	165		ug/L		26	-0.000
>	Ta	181		ug/L		434651	434651.380
	Tl	205	0.085	ug/L	45.840	2883	0.003
	Pb	208	0.060	ug/L	10.024	2495	0.003
	Bi	209		ug/L		26	0.000
	Th	232	0.157	ug/L	23.604	4012	0.007
	U	238	0.061	ug/L	12.273	1971	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		101.6			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		96.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		97.9			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		97.2			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049341
Sample Date/Time: Wednesday, March 15, 2006 15:15:21
Sample Type:
Sample Description: LANL 6020 MB
Number of Replicates: 3
Batch ID: 510975|1|baj
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\1201049341.113

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.247	ug/L	12.289	422	0.000
	Be	9	0.001	ug/L	1606.248	26	0.000
	B	11	2.014	ug/L	14.815	1441	0.001
	Na	23	6.009	ug/L	17.978	56780	0.033
	Mg	24	-1.276	ug/L	39.136	7335	-0.005
	Al	27	7.848	ug/L	16.229	73858	0.048
	P	31	-4.504	ug/L	45.047	11178	-0.002
	K	39	19.292	ug/L	110.135	1037575	0.142
	Ca	43	39.521	ug/L	5.168	1085	0.001
>	Sc	45		ug/L		845826	845826.440
	Ti	47	0.435	ug/L	0.582	931	0.000
	V	51	2.612	ug/L	112.123	60665	0.028
	Cr	52	0.330	ug/L	64.952	17378	0.003
	Cr	53		ug/L		392040	0.147
	Mn	55	0.096	ug/L	15.284	3754	0.001
	Fe	57	-5.160	ug/L	46.143	8677	-0.001
	Co	59	-0.011	ug/L	9.737	165	-0.000
	Ni	60	0.013	ug/L	81.205	123	0.000
	Cu	63		ug/L		783	0.001
	Cu	65	0.161	ug/L	12.529	486	0.000
	Zn	66	2.507	ug/L	5.964	3440	0.005
	Zn	67		ug/L		83385	0.097
	Zn	68		ug/L		6562	0.007
>	Ge	74		ug/L		581360	581360.365
	As	75	1.014	ug/L	47.503	3787	0.003
	Se	77		ug/L		26347	0.011
	Se	82	0.496	ug/L	26.484	15	0.000
	Kr	83		ug/L		545	-0.000
	Sr	88	0.104	ug/L	1.792	2116	0.005
	Y	89		ug/L		277	0.000
	Zr	90	0.367	ug/L	29.160	3949	0.012
	Mo	98	0.022	ug/L	36.689	324	0.000
	Ag	107	-0.008	ug/L	11.037	83	-0.000
	Cd	111	0.005	ug/L	238.529	43	0.000
	Cd	114		ug/L		48	-0.000
>	In	115		ug/L		275001	275000.580
	Sn	120	1.045	ug/L	39.569	6137	0.021
	Sb	121	0.352	ug/L	27.997	2089	0.006
	Sb	123		ug/L		1663	0.005
	Ba	135		ug/L		93	0.000
	Ba	137	0.019	ug/L	8.825	175	0.000
	Ho	165		ug/L		30	0.000
>	Ta	181		ug/L		428595	428594.864
	Tl	205	-0.015	ug/L	13.482	1321	-0.001
	Pb	208	0.013	ug/L	33.210	1523	0.001
	Bi	209		ug/L		68	0.000
	Th	232	0.063	ug/L	23.952	2204	0.003
	U	238	-0.011	ug/L	8.153	622	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	0.9999
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		97.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		98.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Ta	181		95.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049342
Sample Date/Time: Wednesday, March 15, 2006 15:20:35
Sample Type:
Sample Description: LANL 6020 LCS
Number of Replicates: 3
Batch ID: 510975|1|baj
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\1201049342.114

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	57.689	ug/L	2.076	76212	0.088
	Be	9	53.984	ug/L	2.043	25002	0.029
	B	11	120.080	ug/L	5.027	44280	0.050
	Na	23	2191.200	ug/L	1.903	10360318	11.945
	Mg	24	2086.288	ug/L	1.690	6909218	7.975
	Al	27	2189.136	ug/L	6.800	11696514	13.485
	P	31	2213.310	ug/L	0.771	729082	0.828
	K	39	2127.989	ug/L	3.128	14502414	15.680
	Ca	43	2029.028	ug/L	2.125	30234	0.034
>	Sc	45		ug/L		864874	864873.937
	Ti	47	42.962	ug/L	0.657	38520	0.044
	V	51	46.889	ug/L	7.873	469547	0.498
	Cr	52	50.408	ug/L	1.038	402075	0.447
	Cr	53		ug/L		459656	0.215
	Mn	55	50.937	ug/L	0.685	544768	0.627
	Fe	57	2147.499	ug/L	3.095	433901	0.490
	Co	59	49.694	ug/L	3.144	418353	0.483
	Ni	60	50.688	ug/L	1.390	92003	0.106
	Cu	63		ug/L		212529	0.245
	Cu	65	49.878	ug/L	0.940	105025	0.121
	Zn	66	54.478	ug/L	2.789	64178	0.108
	Zn	67		ug/L		103140	0.129
	Zn	68		ug/L		55492	0.090
>	Ge	74		ug/L		591024	591023.567
	As	75	52.918	ug/L	0.629	81847	0.135
	Se	77		ug/L		31908	0.020
	Se	82	52.748	ug/L	1.928	6543	0.011
	Kr	83		ug/L		558	-0.000
	Sr	88	55.746	ug/L	1.998	782550	2.908
	Y	89		ug/L		307	0.001
	Zr	90	54.062	ug/L	2.389	466332	1.732
	Mo	98	54.149	ug/L	4.067	223721	0.831
	Ag	107	54.351	ug/L	1.903	329623	1.225
	Cd	111	52.592	ug/L	4.311	69860	0.260
	Cd	114		ug/L		155937	0.580
>	In	115		ug/L		268983	268983.178
	Sn	120	55.151	ug/L	2.817	294269	1.093
	Sb	121	56.411	ug/L	4.178	265239	0.985
	Sb	123		ug/L		207594	0.771
	Ba	135		ug/L		87927	0.200
	Ba	137	51.244	ug/L	0.659	154307	0.351
	Ho	165		ug/L		25	-0.000
>	Ta	181		ug/L		438833	438832.688
	Tl	205	52.621	ug/L	2.274	823175	1.872
	Pb	208	54.097	ug/L	1.438	1114725	2.537
	Bi	209		ug/L		91	0.000
	Th	232	56.771	ug/L	2.002	1081085	2.461
	U	238	57.587	ug/L	1.789	1082005	2.464

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		103.5			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		99.2			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		96.4			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		98.1			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 157897001
Sample Date/Time: Wednesday, March 15, 2006 15:36:20
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 510975|1|baj
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\157897001.117

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.950	ug/L	11.300	1488	0.001
	Be	9	-0.009	ug/L	136.070	25	-0.000
	B	11	7.103	ug/L	13.095	3632	0.003
	Na	23	7045.477	ug/L	9.804	36381697	38.407
	Mg	24	155.752	ug/L	8.219	576751	0.595
	Al	27	83.756	ug/L	9.433	525496	0.516
	P	31	-4.082	ug/L	81.930	12669	-0.002
	K	39	118.869	ug/L	7.536	1863102	0.876
	Ca	43	2617.783	ug/L	3.362	42620	0.044
>	Sc	45		ug/L		949993	949993.022
	Ti	47	4.418	ug/L	4.174	4904	0.005
	V	51	-1.325	ug/L	153.954	28110	-0.014
	Cr	52	3.504	ug/L	16.541	46166	0.031
	Cr	53		ug/L		569697	0.284
	Mn	55	2.298	ug/L	5.547	29889	0.028
	Fe	57	78.741	ug/L	12.881	27871	0.018
	Co	59	0.005	ug/L	55.020	334	0.000
	Ni	60	0.224	ug/L	17.924	556	0.000
	Cu	63		ug/L		4365	0.004
	Cu	65	0.764	ug/L	6.198	1933	0.002
	Zn	66	3.387	ug/L	3.173	4699	0.007
	Zn	67		ug/L		99787	0.117
	Zn	68		ug/L		8206	0.009
>	Ge	74		ug/L		614110	614110.441
	As	75	1.396	ug/L	14.167	4602	0.004
	Se	77		ug/L		44241	0.038
	Se	82	0.294	ug/L	80.001	-10	0.000
	Kr	83		ug/L		593	-0.000
	Sr	88	13.646	ug/L	1.764	197951	0.712
	Y	89		ug/L		1318	0.004
	Zr	90	2.297	ug/L	1.191	21116	0.074
	Mo	98	0.089	ug/L	7.830	613	0.001
	Ag	107	0.010	ug/L	8.442	193	0.000
	Cd	111	0.014	ug/L	97.677	55	0.000
	Cd	114		ug/L		63	-0.000
>	In	115		ug/L		277183	277183.137
	Sn	120	0.282	ug/L	2.019	1994	0.006
	Sb	121	0.067	ug/L	5.743	724	0.001
	Sb	123		ug/L		583	0.001
	Ba	135		ug/L		4040	0.009
	Ba	137	2.251	ug/L	2.759	7070	0.015
	Ho	165		ug/L		89	0.000
>	Ta	181		ug/L		449965	449964.692
	Tl	205	0.013	ug/L	20.991	1833	0.000
	Pb	208	0.288	ug/L	1.644	7417	0.014
	Bi	209		ug/L		131	0.000
	Th	232	0.003	ug/L	98.016	1147	0.000
	U	238	-0.014	ug/L	3.350	598	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		113.6			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		103.1			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		99.3			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		100.6			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049343
Sample Date/Time: Wednesday, March 15, 2006 15:41:36
Sample Type:
Sample Description: LANL 6020 DUP
Number of Replicates: 3
Batch ID: 510975|1|baj
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\1201049343.118

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	1.036	ug/L	6.793	1542	0.002
	Be	9	-0.006	ug/L	118.902	25	-0.000
	B	11	7.204	ug/L	4.179	3513	0.003
	Na	23	7303.601	ug/L	4.862	36066704	39.814
	Mg	24	147.326	ug/L	8.408	521717	0.563
	Al	27	88.141	ug/L	2.222	526874	0.543
	P	31	-2.520	ug/L	130.585	12634	-0.001
	K	39	113.924	ug/L	7.670	1744401	0.839
	Ca	43	2651.214	ug/L	4.685	41175	0.045
>	Sc	45		ug/L		905349	905349.398
	Ti	47	4.264	ug/L	1.303	4538	0.004
	V	51	1.776	ug/L	241.101	57236	0.019
	Cr	52	3.211	ug/L	8.952	41765	0.028
	Cr	53		ug/L		547934	0.289
	Mn	55	2.413	ug/L	0.822	29821	0.030
	Fe	57	80.639	ug/L	3.043	27027	0.018
	Co	59	0.005	ug/L	29.499	317	0.000
	Ni	60	0.209	ug/L	9.425	505	0.000
	Cu	63		ug/L		3747	0.004
	Cu	65	0.708	ug/L	5.013	1724	0.002
	Zn	66	2.175	ug/L	4.366	3179	0.004
	Zn	67		ug/L		97697	0.116
	Zn	68		ug/L		6852	0.007
>	Ge	74		ug/L		605107	605106.933
	As	75	2.130	ug/L	41.730	5676	0.005
	Se	77		ug/L		45609	0.041
	Se	82	0.058	ug/L	433.496	-40	0.000
	Kr	83		ug/L		530	-0.000
	Sr	88	13.727	ug/L	1.196	197758	0.716
	Y	89		ug/L		1340	0.004
	Zr	90	0.779	ug/L	2.865	7584	0.025
	Mo	98	0.084	ug/L	8.311	585	0.001
	Ag	107	0.000	ug/L	1718.233	133	0.000
	Cd	111	-0.004	ug/L	296.146	29	-0.000
	Cd	114		ug/L		50	-0.000
>	In	115		ug/L		275331	275331.078
	Sn	120	0.252	ug/L	3.576	1817	0.005
	Sb	121	0.051	ug/L	9.970	644	0.001
	Sb	123		ug/L		539	0.001
	Ba	135		ug/L		4099	0.009
	Ba	137	2.261	ug/L	1.814	7144	0.016
	Ho	165		ug/L		84	0.000
>	Ta	181		ug/L		452815	452814.675
	Tl	205	-0.012	ug/L	18.074	1443	-0.000
	Pb	208	0.280	ug/L	3.121	7277	0.013
	Bi	209		ug/L		90	0.000
	Th	232	-0.005	ug/L	34.349	998	-0.000
	U	238	-0.016	ug/L	16.241	573	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		108.3			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		101.6			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		98.6			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		101.3			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049344
Sample Date/Time: Wednesday, March 15, 2006 15:46:49
Sample Type:
Sample Description: LANL 6020 MS
Number of Replicates: 3
Batch ID: 510975|1|baj
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\1201049344.119

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	70.216	ug/L	1.258	96281	0.107
	Be	9	62.265	ug/L	2.347	29938	0.033
	B	11	143.642	ug/L	2.224	54852	0.060
	Na	23	9292.186	ug/L	5.148	45516495	50.654
	Mg	24	2403.515	ug/L	7.151	8258800	9.188
	Al	27	2217.810	ug/L	2.657	12305534	13.662
	P	31	2203.480	ug/L	1.711	753587	0.824
	K	39	2088.691	ug/L	6.101	14794446	15.391
	Ca	43	4676.771	ug/L	1.612	71626	0.079
>	Sc	45		ug/L		897974	897973.696
	Ti	47	48.090	ug/L	1.550	44693	0.049
	V	51	50.211	ug/L	2.237	519237	0.534
	Cr	52	53.685	ug/L	1.823	443526	0.476
	Cr	53		ug/L		532580	0.277
	Mn	55	53.592	ug/L	0.874	594964	0.659
	Fe	57	2224.870	ug/L	1.370	466329	0.508
	Co	59	48.552	ug/L	0.493	424381	0.472
	Ni	60	49.088	ug/L	4.331	92509	0.103
	Cu	63		ug/L		218739	0.243
	Cu	65	49.434	ug/L	1.258	108083	0.120
	Zn	66	57.921	ug/L	0.587	67484	0.114
	Zn	67		ug/L		108106	0.139
	Zn	68		ug/L		56878	0.093
>	Ge	74		ug/L		584714	584713.606
	As	75	44.370	ug/L	5.714	68262	0.113
	Se	77		ug/L		42789	0.039
	Se	82	11.179	ug/L	6.724	1336	0.002
	Kr	83		ug/L		530	-0.000
	Sr	88	69.012	ug/L	2.810	990988	3.600
	Y	89		ug/L		1597	0.005
	Zr	90	56.183	ug/L	4.159	495649	1.800
	Mo	98	53.985	ug/L	5.366	228124	0.829
	Ag	107	54.332	ug/L	3.463	337046	1.225
	Cd	111	6.054	ug/L	1.673	8265	0.030
	Cd	114		ug/L		16680	0.060
>	In	115		ug/L		275311	275311.285
	Sn	120	55.388	ug/L	4.593	302279	1.098
	Sb	121	110.660	ug/L	4.853	531818	1.933
	Sb	123		ug/L		426311	1.549
	Ba	135		ug/L		92863	0.200
	Ba	137	51.265	ug/L	2.675	163069	0.352
	Ho	165		ug/L		109	0.000
>	Ta	181		ug/L		463741	463740.850
	Tl	205	47.474	ug/L	4.299	784689	1.689
	Pb	208	23.323	ug/L	2.611	508495	1.094
	Bi	209		ug/L		177	0.000
	Th	232	59.253	ug/L	1.531	1192109	2.569
	U	238	59.243	ug/L	3.409	1175772	2.535

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		107.4			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		98.2			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		98.6			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		103.7			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1201049345
Sample Date/Time: Wednesday, March 15, 2006 15:51:58
Sample Type:
Sample Description: LANL 6020 SDILT
Number of Replicates: 3
Batch ID: 510975|5|ba|
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\1201049345.120

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.194	ug/L	12.267	364	0.000
	Be	9	-0.011	ug/L	144.447	21	-0.000
	B	11	3.730	ug/L	17.140	2110	0.002
	Na	23	1306.018	ug/L	17.469	6221113	7.119
	Mg	24	26.640	ug/L	6.318	100352	0.102
	Al	27	16.391	ug/L	27.448	121864	0.101
	P	31	-4.275	ug/L	87.470	11572	-0.002
	K	39	9.649	ug/L	98.700	1007730	0.071
	Ca	43	521.192	ug/L	0.846	8206	0.009
>	Sc	45		ug/L		869704	869703.532
	Ti	47	0.763	ug/L	1.027	1249	0.001
	V	51	1.230	ug/L	111.037	50078	0.013
	Cr	52	0.111	ug/L	169.455	16209	0.001
	Cr	53		ug/L		291630	0.019
	Mn	55	0.443	ug/L	4.841	7570	0.005
	Fe	57	5.270	ug/L	32.012	11002	0.001
	Co	59	-0.005	ug/L	138.085	218	-0.000
	Ni	60	0.037	ug/L	21.554	173	0.000
	Cu	63		ug/L		792	0.001
	Cu	65	0.125	ug/L	9.614	424	0.000
	Zn	66	1.114	ug/L	6.221	1890	0.002
	Zn	67		ug/L		36038	0.014
	Zn	68		ug/L		3707	0.002
>	Ge	74		ug/L		597660	597659.585
	As	75	1.014	ug/L	28.997	3894	0.003
	Se	77		ug/L		23643	0.005
	Se	82	-0.138	ug/L	456.726	-65	-0.000
	Kr	83		ug/L		559	-0.000
	Sr	88	2.610	ug/L	0.579	39584	0.136
	Y	89		ug/L		438	0.001
	Zr	90	0.444	ug/L	6.277	4811	0.014
	Mo	98	0.007	ug/L	50.514	270	0.000
	Ag	107	-0.002	ug/L	370.437	126	-0.000
	Cd	111	-0.009	ug/L	110.488	23	-0.000
	Cd	114		ug/L		40	-0.000
>	In	115		ug/L		285993	285992.732
	Sn	120	0.059	ug/L	13.445	794	0.001
	Sb	121	0.135	ug/L	29.832	1089	0.002
	Sb	123		ug/L		888	0.002
	Ba	135		ug/L		860	0.002
	Ba	137	0.402	ug/L	7.162	1450	0.003
	Ho	165		ug/L		38	0.000
>	Ta	181		ug/L		478526	478525.803
	Tl	205	1.941	ug/L	19.166	34787	0.069
	Pb	208	0.037	ug/L	23.274	2234	0.002
	Bi	209		ug/L		52	0.000
	Th	232	0.031	ug/L	47.393	1795	0.001
	U	238	-0.023	ug/L	50.088	461	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		104.0			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		100.3			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		102.5			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		107.0			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Wednesday, March 15, 2006 15:57:08
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 8.121

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	58.072	ug/L	2.897	77040	0.089
	Be	9	51.922	ug/L	2.409	24145	0.028
	B	11	113.674	ug/L	1.489	42129	0.048
	Na	23	5283.046	ug/L	1.435	25041947	28.799
	Mg	24	4767.771	ug/L	1.152	15840121	18.226
	Al	27	5148.245	ug/L	6.985	27586644	31.713
	P	31	5145.972	ug/L	0.757	1685026	1.925
	K	39	5283.720	ug/L	9.965	34735265	38.934
	Ca	43	4999.034	ug/L	1.483	74017	0.085
>	Sc	45		ug/L		868496	868495.945
	Ti	47	46.384	ug/L	2.856	41713	0.047
	V	51	50.369	ug/L	2.067	503613	0.535
	Cr	52	50.695	ug/L	1.530	405950	0.450
	Cr	53		ug/L		231094	-0.050
	Mn	55	50.588	ug/L	1.449	543266	0.622
	Fe	57	5125.271	ug/L	1.591	1026009	1.170
	Co	59	48.096	ug/L	1.645	406601	0.468
	Ni	60	47.916	ug/L	1.512	87351	0.100
	Cu	63		ug/L		201069	0.231
	Cu	65	47.997	ug/L	3.088	101483	0.117
	Zn	66	51.184	ug/L	2.161	61365	0.101
	Zn	67		ug/L		33859	0.010
	Zn	68		ug/L		49819	0.078
>	Ge	74		ug/L		601206	601206.164
	As	75	48.926	ug/L	0.786	77150	0.124
	Se	77		ug/L		19228	-0.002
	Se	82	50.834	ug/L	0.366	6413	0.011
	Kr	83		ug/L		519	-0.000
	Sr	88	53.050	ug/L	2.805	780740	2.767
	Y	89		ug/L		317	0.001
	Zr	90	51.511	ug/L	3.330	465827	1.650
	Mo	98	50.462	ug/L	1.988	218684	0.775
	Ag	107	52.373	ug/L	3.715	332951	1.181
	Cd	111	49.748	ug/L	3.691	69296	0.246
	Cd	114		ug/L		155066	0.550
>	In	115		ug/L		282000	282000.288
	Sn	120	53.033	ug/L	6.066	296525	1.051
	Sb	121	51.096	ug/L	2.906	251997	0.892
	Sb	123		ug/L		200382	0.710
	Ba	135		ug/L		89263	0.193
	Ba	137	48.306	ug/L	3.189	152870	0.331
	Ho	165		ug/L		33	0.000
>	Ta	181		ug/L		461297	461297.196
	Tl	205	51.302	ug/L	1.385	843598	1.825
	Pb	208	52.805	ug/L	2.268	1143670	2.477
	Bi	209		ug/L		53	0.000
	Th	232	55.983	ug/L	4.510	1120267	2.427
	U	238	56.132	ug/L	3.770	1108385	2.402

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
B	11	Linear Thru Zero	1.0000
Na	23	Linear Thru Zero	1.0000
Mg	24	Linear Thru Zero	1.0000
Al	27	Linear Thru Zero	1.0000
P	31	Linear Thru Zero	0.9999
K	39	Linear Thru Zero	1.0000
Ca	43	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ti	47	Linear Thru Zero	1.0000
V	51	Linear Thru Zero	1.0000
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Fe	57	Linear Thru Zero	0.9999
Co	59	Linear Thru Zero	1.0000
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Zn	66	Linear Thru Zero	1.0000
Zn	67	Linear Thru Zero	
Zn	68	Linear Thru Zero	
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Sr	88	Linear Thru Zero	0.9999
Y	89	Linear Thru Zero	
Zr	90	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
Ag	107	Linear Thru Zero	1.0000
Cd	111	Linear Thru Zero	1.0000
Cd	114	Linear Thru Zero	
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Ba	135	Linear Thru Zero	
Ba	137	Linear Thru Zero	1.0000
Ho	165	Linear Thru Zero	
Ta	181	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999
Pb	208	Linear Thru Zero	1.0000
Bi	209	Linear Thru Zero	
Th	232	Linear Thru Zero	0.9998
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7	116.145				
	Be	9	103.843				
	B	11	113.674				
	Na	23	105.661				
	Mg	24	95.355				
	Al	27	101.945				
	P	31	102.919				
	K	39	105.674				
	Ca	43	99.981				
>	Sc	45		103.9			
	Ti	47	92.768				
	V	51	100.739				
	Cr	52	101.390				
	Cr	53					
	Mn	55	101.176				
	Fe	57	102.505				
	Co	59	96.193				
	Ni	60	95.831				
	Cu	63					
	Cu	65	95.994				
	Zn	66	102.367				
	Zn	67					
	Zn	68					
>	Ge	74		100.9			
	As	75	97.852				
	Se	77					
	Se	82	101.669				
	Kr	83					
	Sr	88	106.101				
	Y	89					
	Zr	90	103.023				
	Mo	98	100.923				
	Ag	107	104.747				
	Cd	111	99.496				
	Cd	114					
>	In	115		101.0			
	Sn	120	106.065				
	Sb	121	102.192				
	Sb	123					
	Ba	135					
	Ba	137	96.611				
	Ho	165					
>	Ta	181		103.2			
	Tl	205	102.604				
	Pb	208	105.610				
	Bi	209					
	Th	232	111.966				
	U	238	112.264				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	CCV is out of limits (+/- 10%)
QC Std 8	B	11	CCV is out of limits (+/- 10%)
QC Std 8	Th	232	CCV is out of limits (+/- 10%)
QC Std 8	U	238	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Wednesday, March 15, 2006 16:02:19
Sample Type:
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\6020.mth
Dataset File: C:\elandata\Dataset\060315\QC Std 9.122

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
	Li	7	0.022	ug/L	22.255	138	0.000
	Be	9	0.008	ug/L	186.439	31	0.000
	B	11	2.910	ug/L	28.423	1822	0.001
	Na	23	0.328	ug/L	127.279	31702	0.002
	Mg	24	1.414	ug/L	68.627	16677	0.005
	Al	27	0.455	ug/L	213.330	36714	0.003
	P	31	-2.350	ug/L	68.508	12302	-0.001
	K	39	-19.057	ug/L	27.625	830824	-0.140
	Ca	43	-4.941	ug/L	1.850	465	-0.000
>	Sc	45		ug/L		877238	877238.273
	Ti	47	-0.057	ug/L	43.029	525	-0.000
	V	51	-0.182	ug/L	230.608	37385	-0.002
	Cr	52	-0.025	ug/L	114.353	15293	-0.000
	Cr	53		ug/L		191001	-0.099
	Mn	55	-0.043	ug/L	8.012	2389	-0.001
	Fe	57	-5.863	ug/L	20.833	8865	-0.001
	Co	59	-0.001	ug/L	181.771	256	-0.000
	Ni	60	-0.007	ug/L	18.716	93	-0.000
	Cu	63		ug/L		220	-0.000
	Cu	65	0.002	ug/L	229.107	164	0.000
	Zn	66	-0.008	ug/L	316.029	561	-0.000
	Zn	67		ug/L		23648	-0.006
	Zn	68		ug/L		2193	-0.001
>	Ge	74		ug/L		593789	593788.590
	As	75	-0.027	ug/L	883.065	2298	-0.000
	Se	77		ug/L		14113	-0.010
	Se	82	-0.092	ug/L	270.223	-58	-0.000
	Kr	83		ug/L		602	0.000
	Sr	88	-0.000	ug/L	107.539	635	-0.000
	Y	89		ug/L		173	-0.000
	Zr	90	0.141	ug/L	18.148	2014	0.005
	Mo	98	0.020	ug/L	55.422	323	0.000
	Ag	107	0.003	ug/L	122.483	154	0.000
	Cd	111	-0.000	ug/L	237.053	36	-0.000
	Cd	114		ug/L		99	0.000
>	In	115		ug/L		282996	282996.144
	Sn	120	0.131	ug/L	39.891	1188	0.003
	Sb	121	0.354	ug/L	42.391	2157	0.006
	Sb	123		ug/L		1718	0.005
	Ba	135		ug/L		82	0.000
	Ba	137	0.004	ug/L	41.173	138	0.000
	Ho	165		ug/L		28	-0.000
>	Ta	181		ug/L		452954	452954.484
	Tl	205	0.803	ug/L	13.643	14597	0.029
	Pb	208	0.002	ug/L	131.430	1389	0.000
	Bi	209		ug/L		34	0.000
	Th	232	0.089	ug/L	32.707	2850	0.004
	U	238	0.007	ug/L	32.669	1020	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	0.9999
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	0.9999
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Ta	181Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
	Li	7					
	Be	9					
	B	11					
	Na	23					
	Mg	24					
	Al	27					
	P	31					
	K	39					
	Ca	43					
>	Sc	45		104.9			
	Ti	47					
	V	51					
	Cr	52					
	Cr	53					
	Mn	55					
	Fe	57					
	Co	59					
	Ni	60					
	Cu	63					
	Cu	65					
	Zn	66					
	Zn	67					
	Zn	68					
>	Ge	74		99.7			
	As	75					
	Se	77					
	Se	82					
	Kr	83					
	Sr	88					
	Y	89					
	Zr	90					
	Mo	98					
	Ag	107					
	Cd	111					
	Cd	114					
>	In	115		101.4			
	Sn	120					
	Sb	121					
	Sb	123					
	Ba	135					
	Ba	137					
	Ho	165					
>	Ta	181		101.3			
	Tl	205					
	Pb	208					
	Bi	209					
	Th	232					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

==========

Method Name: WATER1
Method Description: 7470A, 245.2, ILM04 ANALYST NOR1
Element: Hg

Date: 03/15/2006
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 031506W1.SIF Results Data Set Name: 031506W1

==========

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 03/15/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0017	0.0017	12:26:55	No
2			0.0017	0.0017	12:27:30	No
Mean:			0.0017			
SD :			0.0000			
%RSD:			2.8874			

Auto-zero performed.

==========

Element: Hg Seq. No.: 46 AS Loc.: 2 Date: 03/15/2006
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0033	0.0050	12:28:53	No
2			0.0031	0.0048	12:29:27	No
Mean:			0.0032			
SD :			0.0001			
%RSD:			3.4512			

[Hg] Standard number 1 applied. [0.200]
Correlation Coefficient: 1.00000 Slope: 0.01607

==========

Element: Hg Seq. No.: 47 AS Loc.: 3 Date: 03/15/2006
Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0073	0.0090	12:30:50	No
2			0.0073	0.0090	12:31:25	No
Mean:			0.0073			
SD :			0.0000			
%RSD:			0.3983			

[Hg] Standard number 2 applied. [0.500]
Correlation Coefficient: 0.99602 Slope: 0.01479

==========

Element: Hg Seq. No.: 48 AS Loc.: 4 Date: 03/15/2006
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0278	0.0295	12:32:50	No
2			0.0276	0.0293	12:33:25	No
Mean:			0.0277			
SD :			0.0001			
%RSD:			0.4208			

[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99957 Slope: 0.01392

Element: Hg Seq. No.: 49 AS Loc.: 5 Date: 03/15/2006
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.0667	0.0684	12:34:50	No
2			0.0671	0.0688	12:35:25	No
Mean:			0.0669			
SD :			0.0003			
%RSD:			0.4903			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99974 Slope: 0.01346

Element: Hg Seq. No.: 50 AS Loc.: 6 Date: 03/15/2006
Sample ID: S10

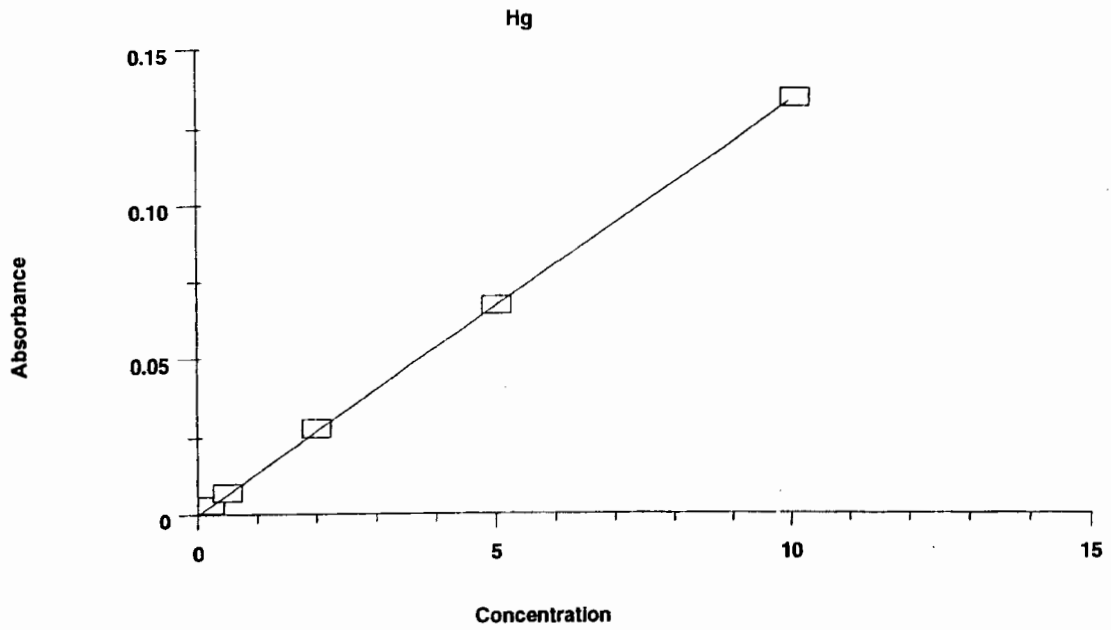
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1			0.1334	0.1351	12:36:51	No
2			0.1339	0.1356	12:37:26	No
Mean:			0.1336			
SD :			0.0003			
%RSD:			0.2355			

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99994 Slope: 0.01339

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0017	---	----	----	----
S0.2	0.0032	0.200	0.240	0.0001	3.5
S0.5	0.0073	0.500	0.544	0.0000	0.4
S2.0	0.0277	2.000	2.070	0.0001	0.4
S5.0	0.0669	5.000	4.998	0.0003	0.5
S10	0.1336	10.000	9.983	0.0003	0.2

Correlation Coefficient: 0.99994 Slope: 0.01339 ----



==========

Element: Hg Seq. No.: 51 AS Loc.: 9 Date: 03/15/2006

Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.205	5.205	0.0697	0.0714	12:38:55	No
2	5.190	5.190	0.0695	0.0712	12:39:30	No
Mean:	5.198	5.198	0.0696			
SD :	0.0109	0.0109	0.0001			
%RSD:	0.2	0.2	0.2093			

QC value within specified limits.

==========

Element: Hg Seq. No.: 52 AS Loc.: 10 Date: 03/15/2006

Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.030	0.030	0.0004	0.0021	12:40:52	No
2	0.025	0.025	0.0003	0.0020	12:41:27	No
Mean:	0.027	0.027	0.0004			
SD :	0.0037	0.0037	0.0000			
%RSD:	13.5	13.5	13.4545			

QC value within specified limits.

==========

Element: Hg Seq. No.: 53 AS Loc.: 11 Date: 03/15/2006

Sample ID: CRDL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.239	0.239	0.0032	0.0049	12:42:49	No
2	0.231	0.231	0.0031	0.0048	12:43:25	No
Mean:	0.235	0.235	0.0031			
SD :	0.0056	0.0056	0.0001			
%RSD:	2.4	2.4	2.3654			

QC value within specified limits.

==========

Element: Hg Seq. No.: 54 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.763	4.763	0.0638	0.0654	12:44:49	No
2	4.766	4.766	0.0638	0.0655	12:45:24	No
Mean:	4.764	4.764	0.0638			
SD :	0.0022	0.0022	0.0000			
%RSD:						

QC value within specified limits.

==========

Element: Hg Seq. No.: 55 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.062	0.062	0.0008	0.0025	12:46:52	No
2	0.057	0.057	0.0008	0.0025	12:47:27	No
Mean:	0.059	0.059	0.0008			
SD :	0.0036	0.0036	0.0000			
%RSD:	6.1	6.1	6.0501			

QC value within specified limits.

==========

Element: Hg Seq. No.: 56 AS Loc.: 19 Date: 03/15/2006
Sample ID: 1201049393|i||510998|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.043	0.043	0.0006	0.0023	12:48:52	No
2	0.039	0.039	0.0005	0.0022	12:49:27	No
Mean:	0.041	0.041	0.0006			
SD :	0.0025	0.0025	0.0000			
%RSD:	6.1	6.1	6.1445			

==========

Element: Hg Seq. No.: 57 AS Loc.: 20 Date: 03/15/2006
Sample ID: 1201049394|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.209	2.209	0.0296	0.0313	12:50:49	No
2	2.196	2.196	0.0294	0.0311	12:51:24	No
Mean:	2.202	2.202	0.0295			
SD :	0.0092	0.0092	0.0001			
%RSD:	0.4	0.4	0.4184			

==========

Element: Hg Seq. No.: 58 AS Loc.: 21 Date: 03/15/2006
Sample ID: 157774007|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.036	0.036	0.0005	0.0022	12:52:46	No
2	0.034	0.034	0.0005	0.0021	12:53:21	No
Mean:	0.035	0.035	0.0005			
SD :	0.0016	0.0016	0.0000			
%RSD:	4.5	4.5	4.5408			

==========

Element: Hg Seq. No.: 59 AS Loc.: 22 Date: 03/15/2006
Sample ID: 157840013|i|||

%RSD: 50.6 50.6 50.5787

==========

Element: Hg Seq. No.: 65 AS Loc.: 28 Date: 03/15/2006
Sample ID: 1201050426|i|||MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.046	0.046	0.0006	0.0023	13:06:39	No
2	0.012	0.012	0.0002	0.0018	13:07:14	No
Mean:	0.029	0.029	0.0004			
SD :	0.0242	0.0242	0.0003			
%RSD:	84.3	84.3	84.2506			

==========

Element: Hg Seq. No.: 66 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.721	4.721	0.0632	0.0649	13:08:41	No
2	4.691	4.691	0.0628	0.0645	13:09:16	No
Mean:	4.706	4.706	0.0630			
SD :	0.0213	0.0213	0.0003			
%RSD:	0.5	0.5	0.4534			

QC value within specified limits.

==========

Element: Hg Seq. No.: 67 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.070	0.070	0.0009	0.0026	13:10:44	No
2	0.064	0.064	0.0009	0.0025	13:11:19	No
Mean:	0.067	0.067	0.0009			
SD :	0.0041	0.0041	0.0001			
%RSD:	6.1	6.1	6.0835			

QC value within specified limits.

==========

Element: Hg Seq. No.: 68 AS Loc.: 29 Date: 03/15/2006
Sample ID: 1201050427|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.133	2.133	0.0285	0.0302	13:12:46	No
2	2.102	2.102	0.0281	0.0298	13:13:21	No
Mean:	2.117	2.117	0.0283			
SD :	0.0216	0.0216	0.0003			
%RSD:	1.0	1.0	1.0179			

==========

Element: Hg Seq. No.: 69 AS Loc.: 30 Date: 03/15/2006
Sample ID: 157591001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.071	0.071	0.0009	0.0026	13:14:48	No
2	-0.064	-0.064	-0.0009	0.0008	13:15:22	No
Mean:	0.003	0.003	0.0000			
SD :	0.0957	0.0957	0.0013			
%RSD:	3017	3017	3016.7566			

==========

Element: Hg Seq. No.: 70 AS Loc.: 31 Date: 03/15/2006
Sample ID: 1201050428|i|||DUP

%RSD: 0.2 0.2 0.1502

==========

Element: Hg Seq. No.: 76 AS Loc.: 37 Date: 03/15/2006
Sample ID: 156984001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.051	0.051	0.0007	0.0024	13:28:27	No
2	0.039	0.039	0.0005	0.0022	13:29:02	No
Mean:	0.045	0.045	0.0006			
SD :	0.0080	0.0080	0.0001			
%RSD:	17.8	17.8	17.7869			

==========

Element: Hg Seq. No.: 77 AS Loc.: 38 Date: 03/15/2006
Sample ID: 156985001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.030	0.030	0.0004	0.0021	13:30:25	No
2	0.026	0.026	0.0003	0.0020	13:31:00	No
Mean:	0.028	0.028	0.0004			
SD :	0.0030	0.0030	0.0000			
%RSD:	10.9	10.9	10.8792			

==========

Element: Hg Seq. No.: 78 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.748	4.748	0.0636	0.0653	13:32:25	No
2	4.743	4.743	0.0635	0.0652	13:32:59	No
Mean:	4.746	4.746	0.0635			
SD :	0.0035	0.0035	0.0000			
%RSD:						

QC value within specified limits.

==========

Element: Hg Seq. No.: 79 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.090	0.090	0.0012	0.0029	13:34:27	No
2	0.084	0.084	0.0011	0.0028	13:35:02	No
Mean:	0.087	0.087	0.0012			
SD :	0.0043	0.0043	0.0001			
%RSD:	5.0	5.0	4.9540			

QC value within specified limits.

==========

Element: Hg Seq. No.: 80 AS Loc.: 39 Date: 03/15/2006
Sample ID: 1201042147|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.047	0.047	0.0006	0.0023	13:36:28	No
2	0.044	0.044	0.0006	0.0023	13:37:03	No
Mean:	0.046	0.046	0.0006			
SD :	0.0021	0.0021	0.0000			
%RSD:	4.7	4.7	4.6915			

==========

Element: Hg Seq. No.: 81 AS Loc.: 40 Date: 03/15/2006
Sample ID: 1201042148|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.290	2.290	0.0307	0.0323	13:38:27	No
2	2.271	2.271	0.0304	0.0321	13:39:01	No
Mean:	2.281	2.281	0.0305			
SD :	0.0134	0.0134	0.0002			
%RSD:	0.6	0.6	0.5866			

Element: Hg Seq. No.: 82 AS Loc.: 41 Date: 03/15/2006
Sample ID: 1201042149|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.016	0.016	0.0002	0.0019	13:40:25	No
2	0.010	0.010	0.0001	0.0018	13:41:00	No
Mean:	0.013	0.013	0.0002			
SD :	0.0046	0.0046	0.0001			
%RSD:	35.7	35.7	35.7347			

Element: Hg Seq. No.: 83 AS Loc.: 42 Date: 03/15/2006
Sample ID: 1201049514|i||511046|MB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.031	0.031	0.0004	0.0021	13:42:25	No
2	0.026	0.026	0.0003	0.0020	13:43:00	No
Mean:	0.028	0.028	0.0004			
SD :	0.0037	0.0037	0.0000			
%RSD:	13.0	13.0	12.9674			

Element: Hg Seq. No.: 84 AS Loc.: 43 Date: 03/15/2006
Sample ID: 1201049515|i|||LCS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.192	2.192	0.0293	0.0310	13:44:24	No
2	2.196	2.196	0.0294	0.0311	13:44:59	No
Mean:	2.194	2.194	0.0294			
SD :	0.0030	0.0030	0.0000			
%RSD:	0.1	0.1	0.1371			

Element: Hg Seq. No.: 85 AS Loc.: 44 Date: 03/15/2006
Sample ID: 157897001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.029	0.029	0.0004	0.0021	13:46:25	No
2	0.027	0.027	0.0004	0.0021	13:47:00	No
Mean:	0.028	0.028	0.0004			
SD :	0.0017	0.0017	0.0000			
%RSD:	6.1	6.1	6.0893			

Element: Hg Seq. No.: 86 AS Loc.: 45 Date: 03/15/2006
Sample ID: 1201049516|i|||DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.023	0.023	0.0003	0.0020	13:48:26	No
2	0.022	0.022	0.0003	0.0020	13:49:01	No
Mean:	0.022	0.022	0.0003			
SD :	0.0002	0.0002	0.0000			

%RSD: 0.8 0.8 0.7544

==========

Element: Hg Seq. No.: 87 AS Loc.: 46 Date: 03/15/2006
Sample ID: 1201049517|i|||MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	2.221	2.221	0.0297	0.0314	13:50:28	No
2	2.223	2.223	0.0298	0.0315	13:51:03	No
Mean:	2.222	2.222	0.0297			
SD :	0.0012	0.0012	0.0000			
%RSD:						

==========

Element: Hg Seq. No.: 88 AS Loc.: 47 Date: 03/15/2006
Sample ID: 1201049522|i|5||SDILT

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0017	13:52:30	No
2	0.000	0.000	0.0000	0.0017	13:53:05	No
Mean:	0.001	0.001	0.0000			
SD :	0.0018	0.0018	0.0000			
%RSD:	212.1	212.1	212.0932			

==========

Element: Hg Seq. No.: 89 AS Loc.: 48 Date: 03/15/2006
Sample ID: 1201047712|i||511050|TB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.037	0.037	0.0005	0.0022	13:54:30	No
2	0.034	0.034	0.0005	0.0021	13:55:05	No
Mean:	0.036	0.036	0.0005			
SD :	0.0022	0.0022	0.0000			
%RSD:	6.1	6.1	6.1349			

==========

Element: Hg Seq. No.: 90 AS Loc.: 7 Date: 03/15/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.740	4.740	0.0634	0.0651	13:56:28	No
2	4.723	4.723	0.0632	0.0649	13:57:02	No
Mean:	4.731	4.731	0.0633			
SD :	0.0114	0.0114	0.0002			
%RSD:	0.2	0.2	0.2416			

QC value within specified limits.

==========

Element: Hg Seq. No.: 91 AS Loc.: 8 Date: 03/15/2006
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.096	0.096	0.0013	0.0030	13:58:29	No
2	0.080	0.080	0.0011	0.0028	13:59:03	No
Mean:	0.088	0.088	0.0012			
SD :	0.0114	0.0114	0.0002			
%RSD:	13.1	13.1	13.0578			

QC value within specified limits.

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Element: Hg Seq. No.: 92 AS Loc.: 49 Date: 03/15/2006
Sample ID: 1201047713|i|||TB

Miscellaneous

Prep LogBook

CQH 3/13/06

Analyst: CQH1 Verified by: CQH 3/13/06

Batch: 510928

Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049255	UI491301-01	.25	mL
LCS	1201049255	UI491303-06	.25	mL
MS	1201049257	UI491301-01	.25	mL
MS	1201049257	UI491303-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049254		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
LCS	1201049255		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
SAMPLE	157846001		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
SAMPLE	157850001		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
SAMPLE	157859001		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
SAMPLE	157897001		SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
DUP	1201049256	157897001	SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
MS	1201049257	157897001	SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER
SDILT	1201049258	157897001	SW846 3005A	13-MAR-2006 18:38	50 mL	50 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description
502174	2.5 mL	HYDROCHLORIC ACID
502162	1 mL	Nitric Acid CONC.

Comments:

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Prep LogBook

Analyst: CQH1 CQH 3/13/06 Verified by: CQH 3/13/06

Batch: 510974

Lab SOP: GL-MA-E-006 REV# 9

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049342	U1060306A	.5	mL
MS	1201049344	U1051205-04	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049341		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
LCS	1201049342		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SAMPLE	157850001		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SAMPLE	157859001		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SAMPLE	157897001		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
DUP	1201049343	157897001	SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
MS	1201049344	157897001	SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SDILT	1201049345	157897001	SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SAMPLE	157902001		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER
SAMPLE	157902003		SW846 3005A	13-MAR-2006 18:02	50 mL	50 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description
502174	2.5 mL	HYDROCHLORIC ACID
502162	1 mL	Nitric Acid CONC.

Comments:

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Prep LogBook

Analyst: ETL Eir Verified by: NK 3/15/06
Batch: 511045 3/14/06
Lab SOP: GL-MA-E-010 REV# 16

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1201049515	WHG060314-13	.2	mL
MS	1201049517	WHG060314-13	.2	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1201049514		SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER
LCS	1201049515		SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER
SAMPLE	157897001		SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER
DUP	1201049516	157897001	SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER
MS	1201049517	157897001	SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER
SDILT	1201049522	157897001	SW846 7470A Prep	14-MAR-2006 11:30	20 mL	20 mL	1	WATER

Reagent/Solvent Lot ID	Amount	Description
501978	1 mL	Sulfuric Acid, Concentrated
500399-1	.5 mL	NITRIC ACID
504341-C	1.5 mL	5% Potassium Persulfate
504339-C	3 mL	5% KMnO4 solution
504346-C	1 mL	Hg reducing agent
WHG060314-06	500 uL	Mercury Working 2nd Source 5.0/ICV
WHG060314-01	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG060314-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG060314-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG060314-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG060314-04	500 uL	Mercury Working 1st Source CAL 5.0/CCV

Comments: Digestion Start Date: 14-MAR-06 11:30
Digestion End Date: 14-MAR-06 13:30

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URI	SEQ_NUM	REQUEST_	SAMPLE_I	LAB_REP	EXCAV_FL	COMPOS_	SAMPLE_T	SAMPLE_U	FIELD_PRI	PRS	PRS_ORD	LOCATION	BEGIN_DE	END_DEPT	DEPTH_UN	FLD_MATR	MATRIX	MEDIA_CC	RFI_CLAS	ANALYTE_	ANALYTE_	PERCENT_	IDL	MDL	MDA	QUANT_LI	MDLC	DILUTION_	TEXT_RES	SAMPLE_V	UNCERTA	REPORTIN	STD_SAM	STD_UNC	STD_REP	FU4_QUAL	RFI_REAS	LAB_QUAL	LANL_QU	LANL_QU	LANL_SET	FIELD_QC	SAMPLE_T	ANAL YTIC	ANYL_ME	LAB_COD	LAB_NAME	ANALYSIS	SHIPPING	COLLECTION_DATE	
38359642	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	1.2		6600		19500		1		995000		UG/KG	995		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359652	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	1.2		100		405		2		405		UG/KG	0.405		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360402	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	0.89		99		495		1		1090		UG/KG	1.09		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360412	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	0.89		200		495		1		287		UG/KG	0.287		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360422	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	CU	Copper	0.89		300		989		1		1120		UG/KG	1.12		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360432	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	FE	Iron	0.89		1800		9890		1		1560000		UG/KG	1560		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360442	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	PB	Lead	0.89		250		989		1		7710		UG/KG	7.71		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360452	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	0.89		8400		29700		1		63200		UG/KG	63.2		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360462	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	0.89		200		989		1		90500		UG/KG	90.5		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360472	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	0.89		2.5		9.84		1		9.84		UG/KG	0.00984		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38360482	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	0.89		97		387		2		243		UG/KG	0.243		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360492	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	K	Potassium	0.89		5000		14800		1		605000		UG/KG	605		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360502	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	0.89		590		1480		1		1480		UG/KG	1.48		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360512	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	AG	Silver	0.89		39		194		2		194		UG/KG	0.194		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360522	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	0.89		4500		14800		1		439000		UG/KG	439		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360532	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	0.89		390		968		10		968		UG/KG	0.968		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360542	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	0.89		99		495		1		977		UG/KG	0.977		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360552	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	0.89		200		989		1		12200		UG/KG	12.2		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360562	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	0.69		6500		19200		1		1030000		UG/KG	1030		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360572	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	0.69		98		393		2		393		UG/KG	0.393		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360582	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	0.69		580		1440		1		1900		UG/KG	1.9		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360592	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	BA	Barium	0.69		96		480		1		2500		UG/KG	2.5		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360602	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	0.69		20		98.3		2		152		UG/KG	0.152		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360612	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	0.69		96		480		1		480		UG/KG	0.48		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360622	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	0.69		3500		9590		1		943000		UG/KG	943		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360632	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	0.69		96		480		1		802		UG/KG	0.802		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360642	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	0.69		190		480		1		257		UG/KG	0.257		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360652	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	CU	Copper	0.69		290		959		1		969		UG/KG	0.969		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360662	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	FE	Iron	0.69		1700		9590		1		1370000		UG/KG	1370		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360672	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	PB	Lead	0.69		240		959		1		7070		UG/KG	7.07		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360682	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	0.69		8200		28800		1		50000		UG/KG	50		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360692	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	0.69		190		959		1		80100		UG/KG	80.1		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360702	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	0.69		2.4		9.71		1		9.71		UG/KG	0.00971		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38360712	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	0.69		98		393		2		127		UG/KG	0.127		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360722	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	K	Potassium	0.69		4800		14400		1		737000		UG/KG	737		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360732	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	0.69		580		1440		1		1440		UG/KG	1.44		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360742	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	AG	Silver	0.69		39		197		2		197		UG/KG	0.197		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360752	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	0.69		4300		14400		1		499000		UG/KG	499		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360762	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	0.69		390		983		10		983		UG/KG	0.983		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360772	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	0.69		96		480		1		863		UG/KG	0.863		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360782	1	4726S	RE19-06-67501		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	9	9.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	0.69		190		959		1		10900		UG/KG	10.9		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360792	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	0.51		6700		19700		1		831000		UG/KG	831		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360802	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	0.51		99		394		2		394		UG/KG	0.394		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360812	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	0.51		590		1480		1		1370		UG/KG	1.37		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360822	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	BA	Barium	0.51		98		492		1		3810		UG/KG	3.81		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360832	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	0.51		20		98.5		2		127		UG/KG	0.127		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360842	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	0.51		98		492		1		492		UG/KG	0.492		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360852	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	0.51		3500		9840		1		911000		UG/KG	911		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360862	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	0.51		98		492		1		1840		UG/KG	1.84		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360872	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	0.51		200		492		1		296		UG/KG	0.296		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360882	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	CU	Copper	0.51		300		984		1		985		UG/KG	0.985		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360892	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	FE	Iron	0.51		1800		9840		1		1620000		UG/KG	1620		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360902	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	PB	Lead	0.51		250		984		1		6970		UG/KG	6.97		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360912	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	0.51		8400		29500		1		54800		UG/KG	54.8		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360922	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	0.51		200		984		1		93900		UG/KG	93.9		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360932	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	0.51		2.5		9.84		1		9.84		UG/KG	0.00984		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38360942	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	0.51		99		394		2		167		UG/KG	0.167		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360952	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	K	Potassium	0.51		4900		14800		1		576000		UG/KG	576		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360962	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	0.51		590		1480		1		1480		UG/KG	1.48		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360972	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	AG	Silver	0.51		39		197		2		197		UG/KG	0.197		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360982	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	0.51		4400		14800		1		398000		UG/KG	398		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360992	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	0.51		390		985		10		985		UG/KG	0.985		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361002	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	0.51		98		492		1		911		UG/KG	0.911		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361012	1	4726S	RE19-06-67505		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	7	7.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	0.51		200		984		1		12200		UG/KG	12.2		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361022	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	0.29		6700		19500		1		868000		UG/KG	868		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361032	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	0.29		96		382		2		382		UG/KG	0.382		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361042	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	0.29		590		1470		1		1650		UG/KG	1.65		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361052	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	BA	Barium	0.29		98		489		1		3320		UG/KG	3.32		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361062	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	0.29		19		95.5		2		137		UG/KG	0.137		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361072	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	0.29		98		489		1		489		UG/KG	0.489		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361082	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	0.29		3500		9770		1		928000		UG/KG	928		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361092	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	0.29		98		489		1		1920		UG/KG	1.92		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361102	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	0.29		200		489		1		319		UG/KG	0.319		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361112	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	CU	Copper	0.29		290		977		1		1020		UG/KG	1.02		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361122	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	FE	Iron	0.29		1800		9770		1		1500000		UG/KG	1500		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361132	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	PB	Lead	0.29		240		977		1		7100		UG/KG	7.1		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361142	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	0.29		8300		29300		1		75300		UG/KG	75.3		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361152	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	0.29		200		977		1		93800		UG/KG	93.8		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361162	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	0.29		2.4		9.66		1		9.66		UG/KG	0.00966		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38361172	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	0.29		96		382		2		156		UG/KG	0.156		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361182	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	K	Potassium	0.29		4900		14700		1		613000		UG/KG	613		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361192	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	0.29		590		1470		1		1470		UG/KG	1.47		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361202	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	AG	Silver	0.29		38		191		2		191		UG/KG	0.191		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361212	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	0.29		4400		14700		1		426000		UG/KG	426		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361222	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	0.29		380		955		10		955		UG/KG	0.955		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38361232	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	0.29		98		489		1		883		UG/KG	0.883		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38361242	1	4726S	RE19-06-67506		N	NA	SP	INV	Not Applica	19-001-99	0	19-22627	9	9.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	0.29		200		977		1		13100		UG/KG	13.1		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359662	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	1.2		580		1460		1		1900		UG/KG	1.9		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359672	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	BA	Barium	1.2		97		487		1		4100		UG/KG	4.1		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359682	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	1.2		20		101		2		129		UG/KG	0.129		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359692	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	1.2		97		487		1		487		UG/KG	0.487		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359702	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	1.2		3500		9730		1		1090000		UG/KG	1090		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359712	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	1.2		97		487		1		1490		UG/KG	1.49		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359722	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	1.2		200		487		1		333		UG/KG	0.333		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359732	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	CU	Copper	1.2		290		973		1		1260		UG/KG	1.26		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359742	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	FE	Iron	1.2		1800		9730		1		2140000		UG/KG	2140		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359752	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	PB	Lead	1.2		240		973		1		13400		UG/KG	13.4		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359762	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	1.2		8300		29200		1		117000		UG/KG	117		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359772	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	1.2		200		973		1		147000		UG/KG	147		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359782	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	1.2		2.5		9.99		1		4.1		UG/KG	0.0041		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38359792	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	1.2		100		405		2		320		UG/KG	0.32		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359802	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	K	Potassium	1.2		4900		14600		1		635000		UG/KG	635		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359812	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	1.2		580		1460		1		1460		UG/KG	1.46		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359822	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	AG	Silver	1.2		41		202		2		202		UG/KG	0.202		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359832	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	1.2		4400		14600		1		431000		UG/KG	431		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359842	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	1.2		410		1010		10		1010		UG/KG	1.01		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359852	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	1.2		97		487		1		1160		UG/KG	1.16		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359862	1	4726S	RE19-06-67496		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	8	8.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	1.2		200		973		1		14800		UG/KG	14.8		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359872	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	0.92		6800		20000		1		964000		UG/KG	964		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359882	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	0.92		99		394		2		394		UG/KG	0.394		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359892	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	0.92		600		1500		1		2070		UG/KG	2.07		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359902	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	BA	Barium	0.92		100		501		1		4360		UG/KG	4.36		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359912	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	0.92		20		98.6		2		215		UG/KG	0.215		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38359922	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	0.92		100		501		1		501		UG/KG	0.501		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359932	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	0.92		3600		10000		1		877000		UG/KG	877		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359942	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	0.92		100		501		1		1200		UG/KG	1.2		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359952	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	0.92		200		501		1		362		UG/KG	0.362		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359962	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	CU	Copper	0.92		300		1000		1		1310		UG/KG	1.31		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359972	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	FE	Iron	0.92		1800		10000		1		1780000		UG/KG	1780		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359982	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	PB	Lead	0.92		250		1000		1		10600		UG/KG	10.6		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38359992	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	0.92		8500		30000		1		125000		UG/KG	125		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360002	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	0.92		200		1000		1		130000		UG/KG	130		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360012	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	0.92		2.5		9.94		1		9.94		UG/KG	0.00994		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38360022	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	0.92		99		394		2		485		UG/KG	0.485		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360032	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	K	Potassium	0.92		5000		15000		1		571000		UG/KG	571		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360042	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	0.92		600		1500		1		1500		UG/KG	1.5		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360052	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	AG	Silver	0.92		39		197		2		197		UG/KG	0.197		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360062	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	0.92		4500		15000		1		336000		UG/KG	336		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360072	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	0.92		390		986		10		986		UG/KG	0.986		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360082	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	0.92		100		501		1		1250		UG/KG	1.25		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360092	1	4726S	RE19-06-67497		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	14	14.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	0.92		200		1000		1		23000		UG/KG	23		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360102	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	1.4		6800		19900		1		1040000		UG/KG	1040		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360112	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	1.4		100		404		2		404		UG/KG	0.404		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360122	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	1.4		600		1490		1		1470		UG/KG	1.47		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360132	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	BA	Barium	1.4		100		498		1		3480		UG/KG	3.48		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360142	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	1.4		20		101		2		108		UG/KG	0.108		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360152	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	CD	Cadmium	1.4		100		498		1		498		UG/KG	0.498		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360162	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	1.4		3600		9960		1		730000		UG/KG	730		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360172	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	CR	Chromium	1.4		100		498		1		3070		UG/KG	3.07		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360182	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	CO	Cobalt	1.4		200		498		1		251		UG/KG	0.251		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360192	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	CU	Copper	1.4		300		996		1		1170		UG/KG	1.17		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360202	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	FE	Iron	1.4		1800		9960		1		1620000		UG/KG	1620		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360212	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	PB	Lead	1.4		250		996		1		11600		UG/KG	11.6		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360222	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	MG	Magnesium	1.4		8500		29900		1		49700		UG/KG	49.7		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360232	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	MN	Manganese	1.4		200		996		1		101000		UG/KG	101		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360242	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	HG	Mercury	1.4		2.4		9.5		1		9.5		UG/KG	0.0095		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:74	GEL	General En	3/15/2006	3/10/2006	3/9/2006
38360252	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	NI	Nickel	1.4		100		404		2		219		UG/KG	0.219		MG/KG	J	I1	B	J	I1	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360262	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	K	Potassium	1.4		5000		14900		1		706000		UG/KG	706		MG/KG	J+	I3c	N	J+	I3c	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360272	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	SE	Selenium	1.4		600		1490		1		1490		UG/KG	1.49		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360282	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	AG	Silver	1.4		40		202		2		202		UG/KG	0.202		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360292	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	NA	Sodium	1.4		4500		14900		1		447000		UG/KG	447		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360302	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	TL	Thallium	1.4		400		1010		10		1010		UG/KG	1.01		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360312	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	V	Vanadium	1.4		100		498		1		773		UG/KG	0.773		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360322	1	4726S	RE19-06-67499		N	NA	SP	INV	Not Applica	19-001-99	0	19-22608	10	10.5	FT	R	SD	QBT3	INORGANI	ZN	Zinc	1.4		200		996		1		11500		UG/KG	11.5		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360332	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	AL	Aluminum	0.89		6700		19800		1		925000		UG/KG	925		MG/KG	J+	I6a	N	J+	I6a	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360342	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	SB	Antimony	0.89		97		387		2		387		UG/KG	0.387		MG/KG	U	U_LAB	U	U	U_LAB	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360352	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	AS	Arsenic	0.89		590		1480		1		2070		UG/KG	2.07		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360362	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	BA	Barium	0.89		99		495		1		3190		UG/KG	3.19		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006
38360372	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	BE	Beryllium	0.89		19		96.8		2		134		UG/KG	0.134		MG/KG				NQ	NQ	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/16/2006	3/10/2006	3/9/2006
38360382	1	4726S	RE19-06-67500		N	NA	SP	INV	Not Applica	19-001-99	0	19-22615	7	7.5	FT	R	SD	QBT3	INORGANI	CA	Calcium	0.89		3600		9890		1		1010000		UG/KG	1010		MG/KG	J+	I3d	N	J+	I3d	ROUTINE	0	NA	CS	METALS	SW-846:60	GEL	General En	3/14/2006	3/10/2006	3/9/2006

Attachment 2

Waste Documentation

ENV-Environmental Characterization & Remediation Document Signature Form

Document Catalog Number: ER2006-0176
(Please prefix the name of all electronic versions of this document with this number.)

Document Title /Subject: WCSF for Accelerated corrective action at consolidated SWMU 19-001-99-July 9,2004 WCSF TA-19,A1, 19-001-99

PRSs: None **Privileged Information: Y / N**

Associated Document Catalog Number(s): None

Author: Hopinkah, Douglas C 661-5274 Doug.Hopinkah@shawgrp.com

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Status/Comments:

Reviewer Signatures: (By signing below, the reviewer indicates that he/she **reviewed** and **approves** the document. Conditional approval may be indicated by checking the COMMENTS ATTACHED box.)

Reviewer (Print reviewer's name under title)	Signature	Date	Comments Attached
Author Douglas C. Hopinkah		3/8/06	
Technical Reviewer LEONARD J. TRUJILLO		3/8/06	
Technical Reviewer (#2) N/A	N/A		
Solid Waste Regulatory Compliance (SWRC) Kelly Vander Poel	Kelly Van Dyne	3/8/06	
Project Leader Becky Coel-Kovacs		3/8/06	

Document Catalog Number ER2006-0176

Amendment to the
Waste Characterization Strategy Form (WCSF)
Accelerated Corrective Action at Consolidated SWMU 19-001-99 – March 8, 2006*

*This is additional sampling per a Notice of Disapproval from the state NMED for work that was completed per the original ACA Work Plan, dated June 9, 2004

INTRODUCTION

This amendment addresses the addition of one waste stream not previously identified in the original WCSF for "Accelerated Corrective Action at SWMU 19-001-99," dated July 9, 2004. The waste stream is drill cuttings from borehole advancements at three historical sample locations. This activity addresses the request for additional information per NMED Notice of Disapproval, dated July 2005. To reflect this change, a revised Characterization Table is attached to this amendment.

BACKGROUND

This project initially involved sampling and limited removal of soil contaminated with low-level radioactivity along the north edge of the mesa. The soil sampling conducted on the mesa top was at Area of Concern (AOC) C-19-001 and at the down-gradient extent of Solid Waste Management Unit (SWMU) 19-001-99 (also referred to as the Lower Mesa Slopes). The limited soil removal was conducted on the north side of the mesa slope.

In response to the NMED Notice of Disapproval, dated July 2005, additional subsurface sampling will be conducted at three historical sample locations (19-22608, 19-22615, and 19-22627; Table 1.0) to further define the extent of possible contamination from elevated concentrations of chromium and cobalt along the southern edge of the mesa top. Three boreholes will be drilled to a total depth of 15-feet (ft) below ground surface along the south edge of the mesa top.

Low-level radioactive contamination or the presence of organic compounds is not expected to be encountered at any of these three borehole locations at the depths being sampled. Laboratory analytical results from the 2004 and 2005 investigations at TA-19 did not detect the presence of radionuclides at any of the three sample locations (at any depth) nor were any organic compounds detected at depth at any of the three sample locations.

WASTE DESCRIPTION

The new waste stream is composed of drill cuttings from three 15-ft deep boreholes. The estimated volume of drill cuttings is <55 gallons. Sampling wastes such as nitrile gloves, plastics, and paper towels, will also be generated only during field activities and will contain the same waste classification determination as the drill cuttings. Waste classification will be based on the borehole characterization data.

CHARACTERIZATION, MANAGEMENT, AND DISPOSAL

Characterization of this waste stream will be based on AK from the borehole characterization data (see WCSF table) and will be conservatively managed as hazardous waste until data results are received for confirmation on waste classification. Table 1.0 provides a summary of all samples to be collected during this field activity. The drill cuttings and sampling wastes (Note: sampling wastes are included as Waste Stream #3 in the original WCSF; however, characterization of sampling wastes from this activity will be based on AK from the borehole characterization data with no division by 100 for contact waste, as previously indicated) will be packaged in a HDPE lined 55-gallon drum, and managed accordingly in a hazardous waste satellite accumulation area (SAA) pending analytical results. Final disposition of this waste stream will be at an off-site LANL-approved industrial or hazardous waste disposal facility,

Amendment to the
Waste Characterization Strategy Form (WCSF)
Accelerated Corrective Action at Consolidated SWMU 19-001-99 – March 8, 2006*
*This is additional sampling per a Notice of Disapproval from the state NMED for work that was completed per the original ACA Work Plan, dated June 9, 2004

depending on final characterization.

SIGNATURES (Print name and then sign.)	**DATE**
Project Leader: **Becky Coel-Roback**	3/8/06
ERS-ECR Waste Management Coordinator: **Leonard Trujillo**	3/8/06
SWRC Representative: **Kelly VanDerpoel**	3/8/06
NWIS-SWO Representative: **Andy Elicio**	3/9/06

Amendment to the
Waste Characterization Strategy Form (WCSF)
Accelerated Corrective Action at Consolidated SWMU 19-001-99 – March 8, 2006*

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WASTE DESCRIPTION	Waste # 5 drill cuttings	Waste #	Waste #	Waste #
Approximate Volume	**<55 gallons**			
Packaging	**85-gallon drum**			
Regulatory classification				
Solid	**X**			
RCRA	**X see NOTE**			
TSCA				
New Mexico Special				
CHARACTERIZATION METHOD				
AK: Existing Data/Documentation	**X**			
AK: from Site Characterization	**X**			
Direct Sampling of Containerized Waste				
ANALYTICAL TESTING				
Volatile Organic Constituents EPA 8260-B				
Semivolatiles EPA 8270-C				
Organic Pesticides EPA 8081-A				
Organic Herbicides EPA 8151-A				
PCBs EPA 8082				
Total Metals EPA 6010-B				
Total Cyanide EPA 9012-A				
High Explosives Constituents EPA 8330				
Asbestos				
TPH EPA 8015				
TCLP Metals (EPA 1311/6010-B)				
TCLP Organics (EPA 1311/8260 & 1311/8270)				
TCLP Pest. & Herb. (EPA 1311/8081/1311/8151-A)				
Gross Alpha (alphacounting)				
Gross Beta (beta counting)				
Gross Gamma (gamma counting)				
Tritium (liquid scintillation)				
Gamma spectroscopy				
Isotopic plutonium (chem. separation/alpha spec.)				
Isotopic uranium (chem. separation/alpha spec.)				
Total uranium (6020 ICPMS)				
Strontium-90 (beta proportional counting)				

Amendment to the
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WASTE DESCRIPTION	Waste # 5 drill cuttings	Waste #	Waste #	Waste #
Americium-241 (chem. separation/alpha spec.)				
SWSC Suite				
Ignitability				
Waste Profile Form #				

NOTE: Analytical results will be from site AK borehole data and not from direct waste samples. Regulatory classification will be based on the borehole characterization data.

Amendment to the
Waste Characterization Strategy Form (WCSF)
Accelerated Corrective Action at Consolidated SWMU 19-001-99 – March 8, 2006*

*This is additional sampling per a Notice of Disapproval from the state NMED for work that was completed per the original ACA Work Plan, dated June 9, 2004

TABLE 1.0:	TA-19 Consolidated Unit 19-001-99 Drilling and Sampling Activity, 2006			
Location ID	**Location Description**	**Sample Depth (ft bgs)**	**Analytical Suite**	**Justification**
19-22608	Mesa top along southeastern edge	8.0 – 8.5 10.0 – 10.5	TAL Metals	Elevated subsurface concentrations of chromium and cobalt
19-22615	Mesa top along southeastern edge	7.0 – 7.5 9.0 – 9.5	TAL Metals	" "
19-22627	Mesa top along southeastern edge	7.0 – 7.5 9.0 – 9.5	TAL Metals	" "
TOTAL	3 locations, 2 depths at each, 6 analytical samples with 1 field duplicate			
NOTE: Additional samples will be collected at depth from each borehole and kept under chain of custody pending analytical results.				

WASTE PROFILE FORM

Contact (if other than given below)	For rapid processing, complete all sections in black or blue ink and mail to: SOLID WASTE OPERATIONS GROUP at **MS J595.** For assistance with completing this form, call SOLID WASTE OPERATIONS GROUP at **5-4000**.	Reference Number (For SOLID WASTE OPERATIONS GROUP use only.)

Generator's Z Number	Waste Generator's Name (print)		WMC's Z Number	WMC's Name (print)		
146032	Becky Coel-Roback		192466	Douglas Hopinkah		
Generator's Telephone	**Generator's Mail Stop**	**Waste Generating Group**	**Waste Stream Technical Area**	**Building**	**Room**	**WMC Telephone**
665-5011	M992	ENV-ECR	TA-72	outside	n/a	661-5274

Waste Accumulation (Check only one.)

- ☐ Satellite Accumulation Area — Site no: _____
- ☐ Less-than-90-days Storage Area — Site no: _____
- ☐ TSDF — Site no: _____
- ☐ Universal Waste Storage Area — Site no: _____
- ☐ Used Oil for Recycle — Site no: _____
- ☐ PCBs Storage Area — Site no: _____
- ☐ NM Special Waste — Site no: _____
- ☐ Rad Staging Area — Site no: __
- ☐ Rad Storage Area — Site no: _____
- ☒ None of the Above

ER Use Only

- ☒ ER Site — SWMU/AOC #: 19-001-99

Method of Characterization (Check as many as apply.)

☒ Chemical/Physical Analysis	☐ Attached	Sample #: See pg. 3
☐ Radiological Analysis	☐ Attached	Sample #: _____
☐ PCB Analysis	☐ Attached	Sample #: _____
☒ Acceptable Knowledge Documentation	☐ Attached	Documentation #: See pg. 3
☐ MSDS	☐ Attached	

Section 1 – Waste Prevention/Minimization (answer all questions)

Can hazard segregation, elimination, or material substitution be used?	☐ Yes (Provide comments)	☒ No
Can any of the materials in the waste stream be recycled or reused?	☐ Yes (Provide comments).	☒ No
Has waste minimization been incorporated into procedures or other process controls?	☒ Yes	☐ No (Provide comments)
Can this waste be generated outside a RCA?	☐ Yes (Provide comments)	☐ No ☒ N/A

Section 2 - Chemical and Physical Information

Waste Type (Check only one.)

- ☐ Unused/Unspent Chemical (Complete all sections as appropriate.)
- ☒ Process Waste/Spent Chemical/ Other (Complete all sections.)

Radiological Information

Was Waste Generated in a RCA? ☐ Yes ☒ No

- ☒ Non-radioactive
- ☐ Radioactive – Low Level
- ☐ Radioactive - Transuranic

Waste Destination (Check only one)

- ☐ SWWS (Complete Attachment 1)
- ☐ RLWTF (Complete Attachment 2)
- ☐ RLWTP (Complete Attachment 3)
- ☐ TA-16/HE (Complete Attachment 4)
- ☐ NTS (Complete Attachment 5)

Classification Information

- ☒ Unclassified
- ☐ Classified/Sensitive

Waste Category (Check all that apply.)

- ☒ Inorganic
- ☒ Organic
- ☐ Solvent *
- ☐ Degreaser *
- ☐ Dioxin
- ☐ Electroplating
- ☐ Treated Hazardous waste or residue
- ☐ No-Longer Contained-In
- ☐ Explosive process
- ☐ Infectious/Medical
- ☐ Biological
- ☐ Beryllium
- ☐ Empty Container (See instructions)
- ☐ Battery (See instructions)

Asbestos ☐ friable ☐ non-friable

PCB Source Concentration

- ☐ PCB < 50 ppm
- ☐ PCB ≥ 50 - < 500 ppm
- ☐ PCB ≥ 500 ppm

- ☐ Hazardous Waste Contaminated Soil
- ☐ Untreated Hazardous Debris
- ☐ Commercial Solid Waste
- ☒ Other (Describe below)

* See instructions.

Waste Source (Check only one.)

Waste Source A

- ☐ Decon
- ☐ Materials Processing/Production
- ☐ Research/Development/Testing
- ☐ Scheduled Maintenance
- ☐ Housekeeping - Routine
- ☐ Spill Cleanup – Routine
- ☐ Sampling - Routine Monitoring
- ☐ Other (Describe below)

Waste Source B

- ☐ Abatement
- ☐ Construction/Upgrades
- ☐ Demolition
- ☐ Decon/Decom
- ☒ Investigative Derived
- ☐ Orphan/Legacy
- ☐ Remediation/Restoration
- ☐ Repacking (Secondary)
- ☐ Unscheduled Maintenance
- ☐ Housekeeping (Non-routine)
- ☐ Spill Cleanup (Non-routine)
- ☐ UST - Non-petroleum
- ☐ UST - Petroleum
- ☐ Other (Describe below)

Waste Matrix (Check only one.)

Gas

- ☐ ≤ 1.5 Atmospheres pressure
- ☐ > 1.5 Atmospheres pressure
- ☐ Liquefied compressed gas

Liquid

- ☐ Aqueous
- ☐ Non-aqueous
- ☐ Suspended Solids/ Aqueous
- ☐ Suspended Solids/ Non-aqueous

Solid

- ☐ Powder/Ash/Dust
- ☒ Solid
- ☐ Sludge
- ☐ Absorbed/solidified liquid
- ☐ Debris

Matrix Type (Check only one.)

- ☐ Homogeneous
- ☒ Heterogeneous (Describe below)

Estimated Annual Volume (m^3): < 1 m^3

Section 3 – Process and Waste Descriptions

Process Description:
This solid waste has been generated from borehole drilling activities, at TA-72 (former TA-19/Eastgate laboratory), from 3 former borehole locations.

Waste Description:
This waste stream consists of borehole drill cuttings and sampling wastes (papertowels and nitrile gloves) that have come in contact with the waste due to field activities.

Section 4 – Characteristics

Ignitability (Check only one.) (°F)	(°C)	**Corrosivity** (Check only one.) (pH)	**Reactivity** (Check as many as apply.)	**Boiling Point** (Check only one.) (°F)	(°C)
☐ < 73	< 22.8	☐ ≤ 2.0	☐ RCRA Unstable	☐ ≤ 95	≤ 35
☐ 73 - 99	22.8 - 37.2	☐ 2.1 – 4.0	☐ Water Reactive	☐ > 95	> 35
☐ 100 - 139	37.8 - 59.4	☐ 4.1 – 6.0	☐ Cyanide Bearing		
☐ 140 -200	60.0 - 93.3	☐ 6.1 – 9.0	☐ Sulfide Bearing		
☐ > 200	> 93.3	☐ 9.1 - 12.4	☐ Pyrophoric		
☐ EPA Ignitable – Non-liquid		☐ ≥ 12.5	☐ Shock Sensitive		
☐ DOT Flammable Gas		☐ Liquid corrosive to steel	☐ Explosive - DOT Div. _____		
☐ DOT Oxidizer		☒ Non-aqueous	☒ Non-reactive		
☒ Not ignitable				☒ Not applicable	

Identify for all contaminants listed.	**Characterization Method** AK	TCLP	Total	**Concentration of Contaminants** None or Non-detect	Contaminant present at Minimum	Maximum	**Regulatory Limit**
Toxicity Characteristic Metals					(10,000 ppm = 1%)		
Arsenic	☐	☐	☒	☐	1.37	2.07 ppm	5.0 ppm
Barium	☐	☐	☒	☐	2.5	4.36 ppm	100.0 ppm
Cadmium	☐	☐	☐	☒		ppm	1.0 ppm
Chromium (Total)	☐	☐	☒	☐	0.802	3.07 ppm	5.0 ppm
Lead	☐	☐	☒	☐	6.97	13.4 ppm	5.0 ppm
Mercury	☐	☐	☒	☐	0.00	0.00406 ppm	0.2 ppm
Selenium	☐	☐	☐	☒		ppm	1.0 ppm
Silver	☐	☐	☐	☒		ppm	5.0 ppm
Toxicity Characteristic Organics							
Benzene	☐	☐	☐	☒		ppm	0.5 ppm
Carbon tetrachloride	☐	☐	☐	☒		ppm	0.5 ppm
Chlorobenzene	☐	☐	☐	☒		ppm	100.0 ppm
Chloroform	☐	☐	☐	☒		ppm	6.0 ppm
o – cresol	☐	☐	☐	☒		ppm	200.0 ppm
m – cresol	☐	☐	☐	☒		ppm	200.0 ppm
p – cresol	☐	☐	☐	☒		ppm	200.0 ppm
Cresol – mixed	☐	☐	☐	☒		ppm	200.0 ppm
1,4-Dichlorobenzene	☐	☐	☐	☒		ppm	7.5 ppm
1,2-Dichloroethane	☐	☐	☐	☒		ppm	0.5 ppm
1,1-Dichloroethylene	☐	☐	☐	☒		ppm	0.7 ppm
2,4-Dinitrotoluene	☐	☐	☐	☒		ppm	0.13 ppm
Hexachlorobenzene	☐	☐	☐	☒		ppm	0.13 ppm
Hexachlorobutadiene	☐	☐	☐	☒		ppm	0.5 ppm
Hexachloroethane	☐	☐	☐	☒		ppm	3.0 ppm
Methyl ethyl ketone	☐	☐	☐	☒		ppm	200.0 ppm
Nitrobenzene	☐	☐	☐	☒		ppm	2.0 ppm
Pentachlorophenol	☐	☐	☐	☒		ppm	100.0 ppm
Pyridine	☐	☐	☐	☒		ppm	5.0 ppm
Tetrachloroethylene	☐	☐	☐	☒		ppm	0.7 ppm
Trichloroethylene	☐	☐	☐	☒		ppm	0.5 ppm
2,4,5-Trichlorophenol	☐	☐	☐	☒		ppm	400.0 ppm
2,4,6-Trichlorophenol	☐	☐	☐	☒		ppm	2.0 ppm
Vinyl chloride	☐	☐	☐	☒		ppm	0.2 ppm
Herbicides and Pesticides							
Chlordane	☒	☐	☐	☒		ppm	0.03 ppm
2,4-D	☒	☐	☐	☒		ppm	10.0 ppm
Endrin	☒	☐	☐	☒		ppm	0.02 ppm
Heptachlor (& its epoxide)	☒	☐	☐	☒		ppm	0.008 ppm
Lindane	☒	☐	☐	☒		ppm	0.4 ppm
Methoxychlor	☒	☐	☐	☒		ppm	10.0 ppm
Toxaphene	☒	☐	☐	☒		ppm	0.5 ppm
2,4,5-TP (Silvex)	☒	☐	☐	☒		ppm	0.5 ppm

Additional Constituents

	ppb (µg/kg) min	ppm (mg/kg)	ppb (µg/kg) max	ppm (mg/kg)	min (%)	max (%)
Aluminum	831000	831	1040000	1040	0.0831	**0.104**
Calcium	730000	730	1090000	1090	0.073	**0.109**
Cobalt	251	0.251	362	0.362	0.0000251	**3.62E-05**
Copper	969	0.969	1310	1.31	0.0000969	**0.000131**
Iron	1370000	1370	2140000	2140	0.137	**0.214**
Magnesium	49700	49.7	125000	125	0.00497	**0.0125**
Manganese	80100	80.1	147000	147	0.00801	**0.0147**
Potassium	571000	571	737000	737	0.0571	**0.0737**
Sodium	336000	336	499000	499	0.0336	**0.0499**
Vanadium	773	0.773	1250	1.25	0.0000773	**0.000125**
Zinc	10900	10.9	23000	23	0.00109	**0.0023**
Beryllium	108	0.108	215	0.215	0.0000108	**2.15E-05**
Nickel	127	0.127	485	0.485	0.0000127	**4.85E-05**

TOTAL **0.580462**

Section 5 - Additional Constituents and Information

Additional Constituents and Contaminants. Please account for 100% of waste. Ranges should be given within guidelines of individual constituents. List all other constituents (including inerts) not identified above and attach any applicable analysis. No chemical formulas allowed in this field. Continue in Section 3 Additional Information as necessary. CAS Numbers are needed for all chemical constituents, for material without a CAS Number enter "No CAS Number." Contact Waste Services at 5-4000 for assistance.

CAS No.	Name of constituent	Minimum	Maximum
	nitrile gloves	1	to 5 %
	paper towels	1	to 5 %
	soil	90	to 95 %
			to %
			to %
			to %
			to %
			to %
			to %
			to %
			to %
	See Attachment for Additional Constituents!		to %
			to %
	Total of max. ranges of this section and page 2	105.6	~~125~~ ~~105~~ in % 3/29/06

Additional Information (Use additional sheet if necessary.)

If additional information is available on the chemical, physical, or radiological character of the waste not covered on this form, provide it below:

-Referencing Amendment to the WCSF: Accelerated Corrective Action at Consolidated SWMU 19-001-99, March 8, 2006.
-This will be waste stream #5, ~~and #3 (from original)~~. DH 3/29/06
-Analytical data in file: Document# TA-19 2006
-See attachment for additional constituents.
-Laboratory analytical results from 2004 and 2005 investigations at TA-19 did not have any radionuclides or organic compounds at depth at any of these locations
DH 4/25/06
phone call from Andy Elicio.

Section 6 - Work Control Documentation (answer all questions)

Do the procedures for this process cover how to manage this waste?	☒ Yes	☐ No (Provide comments)
Do the procedures for this process address controls to prevent changes to waste constituents and concentrations or addition or removal of waste to/from containers?	☒ Yes	☐ No (Provide comments)

Section 7 - Packaging and Storage Control

Describe how the waste will be packaged in according to the applicable WAC: Drill cuttings and sampling waste packaged in 55-gallon drums. Drums are compatible, in good condition, closed, and weight not exceeding container capacity. Marked as Non-Hazardous.

Identify the storage management controls that will be used for this waste stream: (check all that apply)

☐ Tamper indication devices ☐ Locked cabinet or building
☐ Limited use locks with log-in for waste ☒ Other (describe) Locked drums in roped off area.

Section 8 – Waste Certification Statements (check only one)

☒ Waste appears to meet WAC chapter for: Non-Hazardous Waste
☐ Waste stream needs exception/exemption for treatment, storage, or disposal at:
☐ Waste does not meet the criteria for any known TSDF. (DOE approval is required. Contact the Waste Management Program Office for assistance.)

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the waste characterization information on this form is correct and that it meets the requirements of the applicable waste acceptance criteria. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature [signature] Date 3/29/06

WASTE CERTIFYING OFFICIAL: I have reviewed this form and any associated attachments and the characterization information provided appears to be complete and accurate. I certify, to the best of my knowledge, that the waste characterization information provided by the waste generator meets the requirements of the applicable WAC.

Signature [signature] Date 3/20/06

Los Alamos
National Laboratory

Chemical Waste Disposal Request

Waste Services Use Only

This form is used to request disposal of chemical and low-level radioactive wastes. Mail completed form to Waste Services at **MS J595.**

Account Information	Z Number	Name (Print)	Telephone	Date
7H20MX3R0223KUT0	192466	Douglas Hopinkah	661-5274	5/10/06

Waste Pick-up Location and Storage Type:	TA	Building	Room	☐ Security Area	☒ Direct Off-Site Shipment
	72	outside	n/a		

☐ < 90 Day Accumulation Area
☐ Universal Waste Area
(Start Date _____)

☐ Satellite Accumulation Area (Approx. vol. _____)
☐ PCB Waste (Start Date: _____)
☐ NM Special Waste (<90 days) (Start Date: _____)

☐ Rad Staging Area (<90 days)
☐ Rad Storage Area (<1 year)
(Start Date: _____)

☐ Rad Dumpster
(No:__ _____)

☒ Other (describe in description)

Item Id	Waste Profile Number	Shipping Container Information					Waste Information				*S=Solid L=Liquid G=Gas P=Powder	Description
		Type	Volume	Unit	Tare Weight	Unit	Volume	Unit	Weight	Unit		
1003978	39252	02	55	G	50	P	50	G	650	P	S	Non-hazardous drill cuttings in 55-gallon metal drum
1003979	39252	02	55	G	50	P	50	G	650	P	S	Non-hazardous drill cuttings in 55-gallon metal drum

Container Types
01-Bulk (Unpackaged) **04**-Plastic Bottle or Container **07**-Fiber or Plastic Box **10**-Portable Tank **13**-Other **(specify in description)**
02-Metal Drum **05**-Glass Bottle or Container **08**-Wooden Box **11**-Cylinder **14**-Compactor Box
03-Fiber or Plastic Drum **06**-Plastic Bag **09**-Metal Box **12**-Shield Cask **15**-Aerosol Can

Units for Volume
G-Gallon **M**-Cubic Meters
L-Liters **O**-Fluid Ounce
F-Cubic Feet **P**-Pint
Q-Quart

Units for Weight
P-Pound **O**-Ounce
K-Kilograms **T**-Tons
G-Grams

CERTIFICATION STATEMENT: To the best of my knowledge, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Printed Name	Signature	Z Number	Date
Douglas Hopinkah		192466	5/10/06

*For new and unused chemicals
FMU64-F286, R.0 (5/01)

Low- Level Radiological Information

Item ID	S/V/B[1]	C/NC[2]	Health Physics Container/Package Information				Radionuclide	Amount			Unit	Uncertainty		
			Container Surface (mrem/hr)	1 Meter Dose (mrem/hr)	Package Surface Contamination (DPM/100 sq. cm)									
					Alpha	Beta-Gamma								
									E				E	
									E				E	
									E				E	
									E				E	
									E				E	
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Non-Hazardous

[1] S = Surface, V = Volume, B = Both Surface and Volume [2] C = Compactible, NC = Non-compactible

Units for Activity **C** – curies **M** – grams **L** - curies/liter