SEVERN TRENT STL

STL Sacramento
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West Sacramento, CA 95605

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July 27, 2006

**STL SACRAMENTO PROJECT NUMBER: G6G060239**
PO/CONTRACT: 129682.001/Event 87

Guy Graening
Brown and Caldwell
10540 White Rock Road
Suite 180
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on July 6, 2006. These samples are associated with your 21243 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

Karen Dahl
Project Manager

CC: Rock J. Vitale - Environmental Standards

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STL Sacramento Quality Assurance Program

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- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

AIR, PM-10
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AIR, TSP
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- Sample Data Sheet

Full Raw Data Package

# CASE NARRATIVE

## STL SACRAMENTO PROJECT NUMBER G6G060239

**AIR, TSP**
The final weight for sample 15 was less than the initial weight so this result was reported as 'ND'.

There were no other anomalies associated with this project.

# CASE NARRATIVE

## STL SACRAMENTO PROJECT NUMBER G6G060239

### General Comments

The samples were received in good condition at ambient temperature.

There were no anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

## STL Sacramento Certifications/Accreditations

| Certifying State | Certificate # | Certifying State | Certificate # |
|---|---|---|---|
| Alaska | UST-055 | Oregon* | CA 200005 |
| Arizona | AZ0616 | Pennsylvania | 68-1272 |
| Arkansas | 04-067-0 | South Carolina | 87014002 |
| California* | 01119CA | Texas | TX 270-2004A |
| Colorado | NA | Utah* | QUAN1 |
| Connecticut | PH-0691 | Virginia | 00178 |
| Florida* | E87570 | Washington | C087 |
| Georgia | 960 | West Virginia | 9930C, 334 |
| Hawaii | NA | Wisconsin | 998204680 |
| Louisiana* | 01944 | NFESC | NA |
| Michigan | 9947 | USACE | NA |
| Nevada | CA44 | USDA Foreign Plant | 37-82605 |
| New Jersey* | CA005 | USDA Foreign Soil | S-46613 |
| New York* | 11666 | | |

*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

## QC Parameter Definitions

**QC Batch**: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank**: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution**: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

# Sample Summary
# G6G060239

| WO# | Sample # | Client Sample ID | Sampling Date | Received Date |
|---|---|---|---|---|
| H8QTL | 1 | P-0691 | 7/3/06 09:30 AM | 7/6/06 09:25 AM |
| H8QTN | 2 | P-0692 | 7/3/06 09:50 AM | 7/6/06 09:25 AM |
| H8QTQ | 3 | P-0693 | 7/3/06 10:10 AM | 7/6/06 09:25 AM |
| H8QTT | 4 | P-0694 | 7/3/06 10:30 AM | 7/6/06 09:25 AM |
| H8QTV | 5 | P-0695 | 7/3/06 10:45 AM | 7/6/06 09:25 AM |
| H8QTW | 6 | P-0696 | 7/3/06 11:00 AM | 7/6/06 09:25 AM |
| H8QTX | 7 | P-0697 | 7/3/06 09:35 AM | 7/6/06 09:25 AM |
| H8QT1 | 8 | 000516 | 7/3/06 09:40 AM | 7/6/06 09:25 AM |
| H8QT2 | 9 | 000517 | 7/3/06 09:55 AM | 7/6/06 09:25 AM |
| H8QT3 | 10 | 000518 | 7/3/06 10:15 AM | 7/6/06 09:25 AM |
| H8QT5 | 11 | 000519 | 7/3/06 10:35 AM | 7/6/06 09:25 AM |
| H8QT6 | 12 | 000520 | 7/3/06 10:50 AM | 7/6/06 09:25 AM |
| H8QT7 | 13 | 000521 | 7/3/06 11:05 AM | 7/6/06 09:25 AM |
| H8QT8 | 14 | 000522 | 7/3/06 10:00 AM | 7/6/06 09:25 AM |
| H8QT9 | 15 | 000523 | 7/3/06 09:45 AM | 7/6/06 09:25 AM |

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Event 87 YERA000173

☒ 3264 Goni Road / Suite 153, Carson City, NV 89706, 775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225, Las Vegas, NV 89102, 702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500, Phoenix, AZ 85004, 602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qlty

PROJECT NUMBER: 121243

LABORATORY NAME & ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

| LINE NO. | SAMPLE – I.D. | COLLECTION DATE | COLLECTION TIME | SAMPLER'S INITIALS | NUMBER OF CONTAINERS | CONTAINER SIZE AND TYPE | PRESER-VATIVE | MATRIX CODE | ANALYSES REQUESTED | FIELD FILTERED | QC – REQ | TAP µSV/hr | SAMPLING METHOD | DEPTH (FT.) BEGIN / END | PID READING (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | P-0691 | 7/3/06 | 9:30 | MS | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.28 | | ---- | |
| 02 | P-0692 | | 9:50 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.22 | | ---- | |
| 03 | P-0693 | | 10:10 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.24 | | ---- | |
| 04 | P-0694 | | 10:30 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.32 | | ---- | |
| 05 | P-0695 | | 10:45 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.33 | | ---- | |
| 06 | P-0696 | | 11:00 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.32 | | ---- | |
| 07 | P-0697 | | 9:35 | | 1 | 8x10 Filter | NONE | A | PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.25 | | ---- | |
| 08 | | | | | | | | | | | | | | ---- | |
| 09 | | | | | | | | | | | | | | ---- | |
| 10 | | | | | | | | | | | | | | ---- | |

| | | | | | | |
|---|---|---|---|---|---|---|
| COLLECTED & RELEASED BY: Michael Thompson | DATE 7/5/06 | TIME 1600 | COOLER I.D.: | | | COMMENTS (see note on back): |
| RECEIVED BY: Matthew L. | DATE 7/6/06 | TIME 10:15 | RELINQUISHED BY: | DATE / / | TIME : | ML |
| | | | | | | |
| | | | | | | |
| RECORD RETURNED BY: | DATE / / | TIME : | | | | |
| COURIER: FED EX | | | SHIPPING NUMBER: 791987407451 | | | |

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

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Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

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702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qlty
PROJECT NUMBER: 121243
LABORATORY NAME & ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

| LINE NO. | SAMPLE – I.D. | COLLECTION DATE | COLLECTION TIME | SAMPLER'S INITIALS | NUMBER OF CONTAINERS | CONTAINER SIZE AND TYPE | PRESER-VATIVE | MATRIX CODE | ANALYSES REQUESTED | FIELD FILTERED | QC – REQ | ~~TAT~~ µSV/hr | SAMPLING METHOD | DEPTH (FT.) BEGIN ---- END | PID READING (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | -000516 | 7/3/06 | 9:40 | MS | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.25 | | ---- | |
| 02 | -000517 | | 9:55 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.24 | | ---- | |
| 03 | -000518 | | 10:15 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.25 | | ---- | |
| 04 | -000519 | | 10:35 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.11 | | ---- | |
| 05 | -000520 | | 10:50 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.19 | | ---- | |
| 06 | -000521 | | 11:05 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.33 | | ---- | |
| 07 | -000522 | | 10:00 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.36 | | ---- | |
| 08 | -000523 | | 9:45 | | 1 | 8x10 Filter | NONE | A | TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List) | | | 0.33 | | ---- | |
| 09 | | | | | | | | | | | | | | ---- | |
| 10 | | | | | | | | | | | | | | ---- | |

| | | | | | | |
|---|---|---|---|---|---|---|
| COLLECTED & RELEASED BY: Mike Sherman | DATE 7/5/06 | TIME 1600 | COOLER I.D.: | | | COMMENTS (see note on back): |
| RECEIVED BY: Matthew Li | DATE 7/6/06 | TIME 10:15 | RELINQUISHED BY: | DATE / / | TIME : | |
| | | | | | | |
| | | | | | | |
| RECORD RETURNED BY: | DATE / / | TIME : | | | | |
| COURIER: FED EX | | | SHIPPING NUMBER: 7919 8740 7451 | | | |

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

SEVERN TRENT **STL**

# LOT RECEIPT CHECKLIST
## STL Sacramento

CLIENT Brown and Caldwell PM FD LOG # 39812

LOT# (QUANTIMS ID) G6G060239 QUOTE# 62684 LOCATION AC

| | Initials | Date |
|---|---|---|
| DATE RECEIVED 7/6/06 TIME RECEIVED 0925 | ML | 7/6/06 |

DELIVERED BY ☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A

CUSTODY SEAL #(S) NA

SHIPPPING CONTAINER(S) ☐ STL ☑ CLIENT ☐ N/A

TEMPERTURE RECORD (IN °C) IR 1☐ 3 ☐ ☑ OTHER NA

COC #(S) NA

TEMPERATURE BLANK Observed: Ambient Corrected:

SAMPLE TEMPERATURE Observed: Average: Corrected Average:

COLLECTOR'S NAME: ☐ Verified from COC ☑ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A

LABELED BY

LABELS CHECKED BY

PEER REVIEW ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☑ N/A

VOA-ENCORES ☑ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A

☐ Clouseau ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes:

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

EVERN TRENT STL

# Bottle Lot Inventory

Lot ID: G6G060239

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OA* | | | | | | | | | | | | | | | | | | | | |
| OAh* | | | | | | | | | | | | | | | | | | | | |
| GB | | | | | | | | | | | | | | | | | | | | |
| GBs | | | | | | | | | | | | | | | | | | | | |
| 50AGB | | | | | | | | | | | | | | | | | | | | |
| 50AGBs | | | | | | | | | | | | | | | | | | | | |
| 50AGBn | | | | | | | | | | | | | | | | | | | | |
| 00AGB | | | | | | | | | | | | | | | | | | | | |
| AGJ | | | | | | | | | | | | | | | | | | | | |
| 00AGJ | | | | | | | | | | | | | | | | | | | | |
| 50AGJ | | | | | | | | | | | | | | | | | | | | |
| 25AGJ | | | | | | | | | | | | | | | | | | | | |
| CGJ | | | | | | | | | | | | | | | | | | | | |
| 00CGJ | | | | | | | | | | | | | | | | | | | | |
| 50CGJ | | | | | | | | | | | | | | | | | | | | |
| 25CGJ | | | | | | | | | | | | | | | | | | | | |
| J | | | | | | | | | | | | | | | | | | | | |
| Jn | | | | | | | | | | | | | | | | | | | | |
| 00PJ | | | | | | | | | | | | | | | | | | | | |
| 00PJn | | | | | | | | | | | | | | | | | | | | |
| 00PJna | | | | | | | | | | | | | | | | | | | | |
| 00PJzn/na | | | | | | | | | | | | | | | | | | | | |
| 250PJ | | | | | | | | | | | | | | | | | | | | |
| 250PJn | | | | | | | | | | | | | | | | | | | | |
| 250PJna | | | | | | | | | | | | | | | | | | | | |
| 250PJzn/na | | | | | | | | | | | | | | | | | | | | |
| Acetate Tube | | | | | | | | | | | | | | | | | | | | |
| "CT | | | | | | | | | | | | | | | | | | | | |
| Encore | | | | | | | | | | | | | | | | | | | | |
| Folder/filter | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| PUF | | | | | | | | | | | | | | | | | | | | |
| Petri/Filter | | | | | | | | | | | | | | | | | | | | |
| XAD Trap | | | | | | | | | | | | | | | | | | | | |
| Ziploc | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

# AIR,
# Metals - Various Methods

Brown and Caldwell

Client Sample ID: P-0691

TOTAL Metals

**Lot-Sample #...:** G6G060239-001 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AH |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AJ |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AK |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AL |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.074 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTL1AM** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AN |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AP |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **33.7** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTL1AQ** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **23.1** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTL1AR** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AT |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AU |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.7** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTL1AV** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1AW |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.5 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTL1AX** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

(Continued on next page)

Brown and Caldwell

Client Sample ID: P-0691

TOTAL Metals

Lot-Sample #...: G6G060239-001 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | 8.5 B | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTL1A0 |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| Prep Batch #...: 6194464 | | | | | | |
| Aluminum | 473 | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QTL1AC |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | 1030 B | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTL1AD |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| Iron | 537 | 120 | ug | SW846 6010B | 07/13-07/18/06 | H8QTL1AE |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | 348 B | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QTL1AF |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTL1AG |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| Prep Batch #...: 6197511 | | | | | | |
| Mercury | 0.27 J | 0.12 | ug | SW846 7471A | 07/13-07/17/06 | H8QTL1A1 |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0692

TOTAL Metals

**Lot-Sample #...:** G6G060239-002 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.014 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.086 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **26.1** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **34.4** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.6** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.6 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTN1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0692

TOTAL Metals

Lot-Sample #...: G6G060239-002 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | 8.9 B | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTN1AA |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...: 6194464** | | | | | | |
| Aluminum | 671 | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QTN1AE |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | 1090 B | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTN1AF |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| Iron | 651 | 120 | ug | SW846 6010B | 07/13-07/18/06 | H8QTN1AG |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | 402 B | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QTN1AH |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTN1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...: 6197511** | | | | | | |
| Mercury | 0.28 J | 0.12 | ug | SW846 7471A | 07/13-07/17/06 | H8QTN1AC |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0693

TOTAL Metals

**Lot-Sample #...:** G6G060239-003 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AN |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.17 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **27.3** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **20.6** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.8** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTQ1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.4 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0693

TOTAL Metals

**Lot-Sample #...:** G6G060239-003 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **9.7 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTQ1AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **414** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTQ1AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **1110 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTQ1AF** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **485** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTQ1AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **334 B** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTQ1AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTQ1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.26 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QTQ1AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0694

TOTAL Metals

**Lot-Sample #...:** G6G060239-004 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.018 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.15 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **20.5** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **29.9** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.9** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTT1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **4.0 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0694

TOTAL Metals

Lot-Sample #...: G6G060239-004 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **13.7 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTT1AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...: 6194464** | | | | | | |
| **Aluminum** | **600** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTT1AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **1360 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTT1AF** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **748** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTT1AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **491 B** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTT1AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTT1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...: 6197511** | | | | | | |
| **Mercury** | **0.28 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QTT1AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0695

TOTAL Metals

**Lot-Sample #...:** G6G060239-005 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AN |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.095 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **17.8** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **20.4** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.4** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTV1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.5 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0695

TOTAL Metals

**Lot-Sample #...:** G6G060239-005 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **7.2 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTV1AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **412** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTV1AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **965 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTV1AF** |
| | | Dilution Factor: 1 | | MDL.....: 398 | | |
| **Iron** | **502** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTV1AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **311 B** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTV1AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTV1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.26 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QTV1AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0696

TOTAL Metals

**Lot-Sample #...:** G6G060239-006 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.026 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.10 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **28.4** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **23.3** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.7** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTW1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.3 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0696

TOTAL Metals

**Lot-Sample #...:** G6G060239-006 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **9.1 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTW1AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **522** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTW1AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **973 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTW1AF** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **581** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTW1AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **359 B** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTW1AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTW1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.29 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QTW1AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: P-0697

TOTAL Metals

**Lot-Sample #...:** G6G060239-007 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AK |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.0098 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.074 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **38.3** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **20.6** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **1.9** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QTX1A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **3.3 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: P-0697

TOTAL Metals

Lot-Sample #...: G6G060239-007 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **8.0 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QTX1AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...: 6194464** | | | | | | |
| **Aluminum** | **471** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTX1AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **945 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTX1AF** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **541** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTX1AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **327 B** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QTX1AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QTX1AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...: 6197511** | | | | | | |
| **Mercury** | **0.22 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QTX1AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000516

TOTAL Metals

Lot-Sample #...: G6G060239-008 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...: 6194461** | | | | | | |
| **Silver** | **0.050 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AH** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AJ |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AK |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.054 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AL** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.13 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AM** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AN |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AP |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **178** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AQ** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **58.1** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AR** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AT |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AU |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **3.1** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AV** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT11AW |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **5.2 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11AX** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000516

TOTAL Metals

**Lot-Sample #...:** G6G060239-008 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **14.7 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT11A0** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **1330** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT11AC** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **2070 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT11AD** |
| | | Dilution Factor: 1 | | MDL.....: 398 | | |
| **Iron** | **1510** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT11AE** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **894** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT11AF** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT11AG |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.29 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT11A1** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000517

TOTAL Metals

**Lot-Sample #...:** G6G060239-009 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| **Silver** | **0.030 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AK** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.049 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.12 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **89.3** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **81.4** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **2.8** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **5.2 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT21A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000517

TOTAL Metals

Lot-Sample #...: G6G060239-009 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | 14.0 B | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT21AA |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| Prep Batch #...: 6194464 | | | | | | |
| Aluminum | 1510 | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QT21AE |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | 2020 B | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT21AF |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| Iron | 1500 | 120 | ug | SW846 6010B | 07/13-07/18/06 | H8QT21AG |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | 894 | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QT21AH |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT21AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| Prep Batch #...: 6197511 | | | | | | |
| Mercury | 0.43 J | 0.12 | ug | SW846 7471A | 07/13-07/17/06 | H8QT21AC |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000518

TOTAL Metals

**Lot-Sample #...:** G6G060239-010 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| **Silver** | **0.053 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AM** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AN |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AP |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.027 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AQ** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.20 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AR** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AT |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AU |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **169** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AV** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **37.1** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AW** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AX |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31A0 |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **2.5** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31A1** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AA |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **4.4 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT31AC** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000518

TOTAL Metals

Lot-Sample #...: G6G060239-010 Matrix.....: AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | 12.2 B | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT31AD |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| Prep Batch #...: 6194464 | | | | | | |
| Aluminum | 785 | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QT31AG |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | 1730 B | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT31AH |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| Iron | 918 | 120 | ug | SW846 6010B | 07/13-07/18/06 | H8QT31AJ |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | 615 | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QT31AK |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT31AL |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| Prep Batch #...: 6197511 | | | | | | |
| Mercury | 0.48 J | 0.12 | ug | SW846 7471A | 07/13-07/17/06 | H8QT31AE |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000519

TOTAL Metals

**Lot-Sample #...:** G6G060239-011 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| **Silver** | **0.029 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AM** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AN |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AP |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.032 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AQ** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.27 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AR** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AT |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AU |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **94.8** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AV** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **54.4** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AW** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AX |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51A0 |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **2.9** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51A1** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT51AA |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **5.5 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AC** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000519

TOTAL Metals

**Lot-Sample #...:** G6G060239-011 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **24.0** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT51AD** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **1160** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT51AG** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **2340 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT51AH** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **1410** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT51AJ** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **900** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT51AK** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT51AL |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.29 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT51AE** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000520

TOTAL Metals

**Lot-Sample #...:** G6G060239-012 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| **Silver** | **0.018 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AK** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AL |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AM |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.024 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AN** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.14 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AP** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AQ |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AR |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **68.6** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AT** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **44.3** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AU** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AV |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61AW |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **2.7** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AX** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT61A0 |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **4.6 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61A1** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000520

TOTAL Metals

**Lot-Sample #...:** G6G060239-012 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **15.7 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT61AA** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **988** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT61AE** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **1860 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT61AF** |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **1200** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT61AG** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **696** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT61AH** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT61AJ |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.27 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT61AC** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000521

TOTAL Metals

**Lot-Sample #...:** G6G060239-013 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| **Silver** | **0.018 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AM** |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AN |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AP |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| **Beryllium** | **0.054 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AQ** |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| **Cadmium** | **0.16 B** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AR** |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AT |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AU |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| **Copper** | **83.8** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AV** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| **Manganese** | **56.6** | **6.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AW** |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AX |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71A0 |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| **Lead** | **2.8** | **1.2** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71A1** |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT71AA |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| **Vanadium** | **5.3 B** | **12.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AC** |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000521

TOTAL Metals

**Lot-Sample #...:** G6G060239-013 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Zinc** | **15.7 B** | **24.0** | **ug** | **SW846 6020** | **07/13-07/17/06** | **H8QT71AD** |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| **Aluminum** | **1290** | **240** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT71AG** |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| **Calcium** | **2140 B** | **3000** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT71AH** |
| | | Dilution Factor: 1 | | MDL.....: 398 | | |
| **Iron** | **1490** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT71AJ** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| **Magnesium** | **875** | **600** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT71AK** |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT71AL |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.25 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT71AE** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000522

TOTAL Metals

**Lot-Sample #...:** G6G060239-014 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AM |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AN |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AP |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AQ |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| Cadmium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AR |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AT |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AU |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| Copper | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AV |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| Manganese | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AW |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AX |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81A0 |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| Lead | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81A1 |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AA |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| Vanadium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AC |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000522

TOTAL Metals

**Lot-Sample #...:** G6G060239-014 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | ND | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT81AD |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| Aluminum | ND | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QT81AG |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | ND | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT81AH |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **17.8 B** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT81AJ** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | ND | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QT81AK |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT81AL |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.22 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT81AE** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Brown and Caldwell

Client Sample ID: 000523

TOTAL Metals

**Lot-Sample #...:** G6G060239-015 **Matrix.....:** AIR
**Date Sampled...:** 07/03/06 **Date Received..:** 07/06/06

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 6194461 | | | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AM |
| | | Dilution Factor: 1 | | MDL.....: 0.014 | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AN |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AP |
| | | Dilution Factor: 1 | | MDL.....: 34.8 | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AQ |
| | | Dilution Factor: 1 | | MDL.....: 0.0084 | | |
| Cadmium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AR |
| | | Dilution Factor: 1 | | MDL.....: 0.054 | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AT |
| | | Dilution Factor: 1 | | MDL.....: 3.7 | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AU |
| | | Dilution Factor: 1 | | MDL.....: 10.3 | | |
| Copper | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AV |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |
| Manganese | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AW |
| | | Dilution Factor: 1 | | MDL.....: 1.9 | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AX |
| | | Dilution Factor: 1 | | MDL.....: 1.1 | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91A0 |
| | | Dilution Factor: 1 | | MDL.....: 3.5 | | |
| Lead | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91A1 |
| | | Dilution Factor: 1 | | MDL.....: 0.34 | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AA |
| | | Dilution Factor: 1 | | MDL.....: 1.7 | | |
| Vanadium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AC |
| | | Dilution Factor: 1 | | MDL.....: 2.9 | | |

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Brown and Caldwell

Client Sample ID: 000523

TOTAL Metals

**Lot-Sample #...:** G6G060239-015 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| Zinc | ND | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H8QT91AD |
| | | Dilution Factor: 1 | | MDL.....: 6.2 | | |
| **Prep Batch #...:** 6194464 | | | | | | |
| Aluminum | ND | 240 | ug | SW846 6010B | 07/13-07/18/06 | H8QT91AG |
| | | Dilution Factor: 1 | | MDL.....: 40.8 | | |
| Calcium | ND | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT91AH |
| | | Dilution Factor: 1 | | MDL.....: 898 | | |
| **Iron** | **14.4 B** | **120** | **ug** | **SW846 6010B** | **07/13-07/18/06** | **H8QT91AJ** |
| | | Dilution Factor: 1 | | MDL.....: 14.4 | | |
| Magnesium | ND | 600 | ug | SW846 6010B | 07/13-07/18/06 | H8QT91AK |
| | | Dilution Factor: 1 | | MDL.....: 97.2 | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H8QT91AL |
| | | Dilution Factor: 1 | | MDL.....: 2020 | | |
| **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.26 J** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H8QT91AE** |
| | | Dilution Factor: 1 | | MDL.....: 0.00036 | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# QC DATA ASSOCIATION SUMMARY

G6G060239

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 001 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 002 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 003 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 004 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 005 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 006 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 007 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 008 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 009 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 010 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 011 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |

(Continued on next page)

# QC DATA ASSOCIATION SUMMARY

G6G060239

Sample Preparation and Analysis Control Numbers

| SAMPLE# | MATRIX | ANALYTICAL METHOD | LEACH BATCH # | PREP BATCH # | MS RUN# |
|---|---|---|---|---|---|
| 012 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 013 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 014 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |
| 015 | AIR | SW846 6020 | | 6194461 | |
| | AIR | SW846 7471A | | 6197511 | |
| | AIR | SW846 6010B | | 6194464 | |

## METHOD BLANK REPORT

### TOTAL Metals

**Client Lot #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **MB Lot-Sample #:** G6G130000-461 **Prep Batch #...:** 6194461 | | | | | | |
| Arsenic | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AC |
| | | Dilution Factor: 1 | | | | |
| Barium | ND | 120 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AD |
| | | Dilution Factor: 1 | | | | |
| Beryllium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AE |
| | | Dilution Factor: 1 | | | | |
| Cadmium | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AF |
| | | Dilution Factor: 1 | | | | |
| Chromium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AH |
| | | Dilution Factor: 1 | | | | |
| Cobalt | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AG |
| | | Dilution Factor: 1 | | | | |
| Copper | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AJ |
| | | Dilution Factor: 1 | | | | |
| Lead | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AN |
| | | Dilution Factor: 1 | | | | |
| Manganese | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AK |
| | | Dilution Factor: 1 | | | | |
| Molybdenum | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AL |
| | | Dilution Factor: 1 | | | | |
| Nickel | ND | 6.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AM |
| | | Dilution Factor: 1 | | | | |
| Selenium | ND | 3.6 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AP |
| | | Dilution Factor: 1 | | | | |
| Silver | ND | 1.2 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AA |
| | | Dilution Factor: 1 | | | | |
| Vanadium | ND | 12.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AQ |
| | | Dilution Factor: 1 | | | | |
| Zinc | ND | 24.0 | ug | SW846 6020 | 07/13-07/17/06 | H87HN1AR |
| | | Dilution Factor: 1 | | | | |

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## METHOD BLANK REPORT

### TOTAL Metals

**Client Lot #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **MB Lot-Sample #:** G6G130000-464 **Prep Batch #...:** 6194464 | | | | | | |
| Aluminum | ND | 240 | ug | SW846 6010B | 07/13-07/18/06 | H87JA1AA |
| | | Dilution Factor: 1 | | | | |
| Calcium | ND | 3000 | ug | SW846 6010B | 07/13-07/18/06 | H87JA1AC |
| | | Dilution Factor: 1 | | | | |
| Iron | ND | 120 | ug | SW846 6010B | 07/13-07/18/06 | H87JA1AD |
| | | Dilution Factor: 1 | | | | |
| Magnesium | ND | 600 | ug | SW846 6010B | 07/13-07/18/06 | H87JA1AE |
| | | Dilution Factor: 1 | | | | |
| Sodium | ND | 6000 | ug | SW846 6010B | 07/13-07/18/06 | H87JA1AF |
| | | Dilution Factor: 1 | | | | |
| **MB Lot-Sample #:** G6G160000-511 **Prep Batch #...:** 6197511 | | | | | | |
| **Mercury** | **0.034 B** | **0.12** | **ug** | **SW846 7471A** | **07/13-07/17/06** | **H9E0F1AA** |
| | | Dilution Factor: 1 | | | | |

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

## LABORATORY CONTROL SAMPLE DATA REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 240 | 222 | ug | 93 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 220 | ug | 92 | 0.71 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Barium | 240 | 238 | ug | 99 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 238 | ug | 99 | 0.12 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Beryllium | 240 | 215 | ug | 90 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 213 | ug | 89 | 0.85 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Cadmium | 240 | 224 | ug | 93 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 222 | ug | 93 | 0.47 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Chromium | 240 | 227 | ug | 94 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 224 | ug | 93 | 1.2 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Cobalt | 240 | 228 | ug | 95 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 228 | ug | 95 | 0.10 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Copper | 240 | 237 | ug | 99 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 235 | ug | 98 | 1.1 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Lead | 240 | 224 | ug | 94 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 225 | ug | 94 | 0.04 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Manganese | 240 | 237 | ug | 99 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 236 | ug | 98 | 0.34 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Molybdenum | 240 | 246 | ug | 102 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 244 | ug | 102 | 0.58 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |

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## LABORATORY CONTROL SAMPLE DATA REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Nickel | 240 | 236 | ug | 98 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 235 | ug | 98 | 0.35 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Selenium | 240 | 222 | ug | 93 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 222 | ug | 93 | 0.11 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Silver | 60.0 | 57.8 | ug | 96 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 60.0 | 57.0 | ug | 95 | 1.4 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Vanadium | 240 | 226 | ug | 94 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 226 | ug | 94 | 0.15 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Zinc | 240 | 227 | ug | 94 | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 240 | 227 | ug | 95 | 0.01 | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | | Dilution Factor: 1 | | | | | |
| Aluminum | 2400 | 2540 | ug | 106 | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 2400 | 2560 | ug | 107 | 0.79 | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | | Dilution Factor: 1 | | | | | |
| Calcium | 60000 | 62300 | ug | 104 | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 60000 | 62700 | ug | 104 | 0.56 | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | | Dilution Factor: 1 | | | | | |
| Iron | 1200 | 1300 | ug | 108 | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 1200 | 1300 | ug | 108 | 0.08 | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | | Dilution Factor: 1 | | | | | |
| Magnesium | 60000 | 63500 | ug | 106 | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 60000 | 63700 | ug | 106 | 0.34 | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | | Dilution Factor: 1 | | | | | |
| Sodium | 60000 | 59600 | ug | 99 | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 60000 | 60000 | ug | 100 | 0.68 | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | | Dilution Factor: 1 | | | | | |

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## LABORATORY CONTROL SAMPLE DATA REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | RPD | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Mercury | 0.600 | 0.624 | ug | 104 | | SW846 7471A | 07/13-07/17/06 | 6197511 |
| | 0.600 | 0.648 | ug | 108 | 3.8 | SW846 7471A | 07/13-07/17/06 | 6197511 |

Dilution Factor: 1

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | PREP-BATCH # |
|---|---|---|---|---|---|---|---|
| Arsenic | 93 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 92 | (75 - 125) | 0.71 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Barium | 99 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 99 | (75 - 125) | 0.12 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Beryllium | 90 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 89 | (75 - 125) | 0.85 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Cadmium | 93 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 93 | (75 - 125) | 0.47 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Chromium | 94 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 93 | (75 - 125) | 1.2 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Cobalt | 95 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 95 | (75 - 125) | 0.10 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Copper | 99 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 98 | (75 - 125) | 1.1 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Lead | 94 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 94 | (75 - 125) | 0.04 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Manganese | 99 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 98 | (75 - 125) | 0.34 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Molybdenum | 102 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 102 | (75 - 125) | 0.58 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | PREP-BATCH # |
|---|---|---|---|---|---|---|---|
| Nickel | 98 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 98 | (75 - 125) | 0.35 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Selenium | 93 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 93 | (75 - 125) | 0.11 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Silver | 96 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 95 | (75 - 125) | 1.4 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Vanadium | 94 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 94 | (75 - 125) | 0.15 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Zinc | 94 | (75 - 125) | | | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | 95 | (75 - 125) | 0.01 | (0-20) | SW846 6020 | 07/13-07/17/06 | 6194461 |
| | | Dilution Factor: 1 | | | | | |
| Aluminum | 106 | (75 - 125) | | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 107 | (75 - 125) | 0.79 | (0-20) | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | Dilution Factor: 1 | | | | | |
| Calcium | 104 | (75 - 125) | | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 104 | (75 - 125) | 0.56 | (0-20) | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | Dilution Factor: 1 | | | | | |
| Iron | 108 | (75 - 125) | | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 108 | (75 - 125) | 0.08 | (0-20) | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | Dilution Factor: 1 | | | | | |
| Magnesium | 106 | (75 - 125) | | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 106 | (75 - 125) | 0.34 | (0-20) | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | Dilution Factor: 1 | | | | | |
| Sodium | 99 | (75 - 125) | | | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | 100 | (75 - 125) | 0.68 | (0-20) | SW846 6010B | 07/13-07/18/06 | 6194464 |
| | | Dilution Factor: 1 | | | | | |

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Lot-Sample #...:** G6G060239 **Matrix.....:** AIR

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | PREP-BATCH # |
|---|---|---|---|---|---|---|---|
| Mercury | 104 | (75 - 125) | | | SW846 7471A | 07/13-07/17/06 | 6197511 |
| | 108 | (75 - 125) | 3.8 | (0-20) | SW846 7471A | 07/13-07/17/06 | 6197511 |

Dilution Factor: 1

**NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.

# AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0691

General Chemistry

Lot-Sample #...: G6G060239-001 Work Order #...: H8QTL Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0440 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0692

General Chemistry

Lot-Sample #...: G6G060239-002 Work Order #...: H8QTN Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0496 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0693

General Chemistry

Lot-Sample #...: G6G060239-003 Work Order #...: H8QTQ Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0440 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0694

General Chemistry

Lot-Sample #...: G6G060239-004 Work Order #...: H8QTT Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0512 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0695

General Chemistry

Lot-Sample #...: G6G060239-005 Work Order #...: H8QTV Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0408 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0696

General Chemistry

Lot-Sample #...: G6G060239-006 Work Order #...: H8QTW Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0412 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: P-0697

General Chemistry

Lot-Sample #...: G6G060239-007 Work Order #...: H8QTX Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Particulate Matter as PM10 | 0.0418 | 0.0001 | g | CFR50J APDX J | 07/08-07/09/06 | 6195488 |

Brown and Caldwell

Client Sample ID: 000516

General Chemistry

Lot-Sample #...: G6G060239-008 Work Order #...: H8QT1 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.1096 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000517

General Chemistry

Lot-Sample #...: G6G060239-009 Work Order #...: H8QT2 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.1130 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000518

General Chemistry

Lot-Sample #...: G6G060239-010 Work Order #...: H8QT3 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.0744 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000519

General Chemistry

Lot-Sample #...: G6G060239-011 Work Order #...: H8QT5 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.1001 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000520

General Chemistry

Lot-Sample #...: G6G060239-012 Work Order #...: H8QT6 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.0772 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000521

General Chemistry

Lot-Sample #...: G6G060239-013 Work Order #...: H8QT7 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.0899 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000522

General Chemistry

Lot-Sample #...: G6G060239-014 Work Order #...: H8QT8 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | 0.0004 | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

Brown and Caldwell

Client Sample ID: 000523

General Chemistry

Lot-Sample #...: G6G060239-015 Work Order #...: H8QT9 Matrix.....: AIR
Date Sampled...: 07/03/06 Date Received..: 07/06/06

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Particulates | ND | 0.0001 | g | CFR50B APDX B | 07/08-07/10/06 | 6195483 |

# AIR,
# Metals - Various Methods

# Raw Data Package

# ICP

G6G060239

STL Sacramento

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 07/19/06 09:29:03

File ID: JUL1806BX.csv

Analyst: WONGA

| # | Sample ID | Lot No. | Batch | | DF | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|
| 1 | Calib_Blank_' | | | | 1.0 | 07/18/06 09:54 | | ☐ |
| 2 | Calib_Std_1 | | | | 1.0 | 07/18/06 09:58 | | ☐ |
| 3 | Calib_Std_2 | | | | 1.0 | 07/18/06 10:00 | | ☐ |
| 4 | ICV4 | | | | 1.0 | 07/18/06 10:02 | | ☐ |
| 5 | ICB | | | | 1.0 | 07/18/06 10:05 | | ☐ |
| 6 | PQL | | | | 1.0 | 07/18/06 10:08 | | ☐ |
| 7 | ICSA | | | | 1.0 | 07/18/06 10:12 | | ☐ |
| 8 | ICSAB_4.0 | | | | 1.0 | 07/18/06 10:14 | | ☐ |
| 9 | FB1815158-1 | | | | 1.0 | 07/18/06 10:21 | | ☐ |
| 10 | H842MB | G6G120000 | 6193490 | 2A | 1.0 | 07/18/06 10:25 | | ☐ |
| 11 | H842MC | G6G120000 | 6193490 | 2A | 1.0 | 07/18/06 10:28 | | ☐ |
| 12 | H842ML | G6G120000 | 6193490 | 2A | 1.0 | 07/18/06 10:32 | | ☐ |
| 13 | H8GKJ | G6F290300-1 | 6193490 | 2A | 1.0 | 07/18/06 10:35 | | ☐ |
| 14 | H8GKJP5 | G6F290300 | 6193490 | | 5.0 | 07/18/06 10:38 | | ☐ |
| 15 | CCV | | | | 1.0 | 07/18/06 10:42 | | ☐ |
| 16 | CCB | | | | 1.0 | 07/18/06 10:45 | | ☐ |
| 17 | H8GKJZ | G6F290300-1 | 6193490 | | 1.0 | 07/18/06 10:48 | | ☐ |
| 18 | H8GKL | G6F290300-2 | 6193490 | 2A | 1.0 | 07/18/06 10:51 | | ☐ |
| 19 | H8GKM | G6F290300-3 | 6193490 | 2A | 1.0 | 07/18/06 10:55 | | ☐ |
| 20 | H8GKQ | G6F290300-4 | 6193490 | 2A | 1.0 | 07/18/06 10:59 | | ☐ |
| 21 | H8GKR | G6F290300-5 | 6193490 | 2A | 1.0 | 07/18/06 11:02 | | ☐ |
| 22 | H8GKV | G6F290300-6 | 6193490 | 2A | 1.0 | 07/18/06 11:06 | | ☐ |
| 23 | H8GKW | G6F290300-7 | 6193490 | 2A | 1.0 | 07/18/06 11:09 | | ☐ |
| 24 | H8GKX | G6F290300-8 | 6193490 | 2A | 1.0 | 07/18/06 11:13 | | ☐ |
| 25 | H8GK1 | G6F290300-9 | 6193490 | 2A | 1.0 | 07/18/06 11:16 | | ☐ |
| 26 | H8GK2 | G6F290300-10 | 6193490 | 2A | 1.0 | 07/18/06 11:20 | | ☐ |
| 27 | CCV | | | | 1.0 | 07/18/06 11:24 | | ☐ |
| 28 | CCB | | | | 1.0 | 07/18/06 11:26 | | ☐ |
| 29 | H8GK4 | G6F290300-11 | 6193490 | 2A | 1.0 | 07/18/06 11:30 | | ☐ |
| 30 | H8GK6 | G6F290300-12 | 6193490 | 2A | 1.0 | 07/18/06 11:33 | | ☐ |
| 31 | H8GK7 | G6F290300-13 | 6193490 | 2A | 1.0 | 07/18/06 11:37 | rerun, autosampler miss | ☐ |
| 32 | H8GK8 | G6F290300-14 | 6193490 | 2A | 1.0 | 07/18/06 11:46 | | ☐ |
| 33 | H8GLA | G6F290300-15 | 6193490 | 2A | 1.0 | 07/18/06 11:54 | | ☐ |
| 34 | FB1815158-2 | | | | 1.0 | 07/18/06 11:58 | | ☐ |
| 35 | H87JAB | G6G130000 | 6194464 | 2A | 1.0 | 07/18/06 12:02 | | ☐ |
| 36 | H87JAC | G6G130000 | 6194464 | 2A | 1.0 | 07/18/06 12:05 | | ☐ |
| 37 | H87JAL | G6G130000 | 6194464 | 2A | 1.0 | 07/18/06 12:08 | | ☐ |
| 38 | CCV | | | | 1.0 | 07/18/06 12:11 | | ☐ |
| 39 | CCB | | | | 1.0 | 07/18/06 12:14 | | ☐ |
| 40 | H87JAC | G6G130000 | 6194464 | 2A | 1.0 | 07/18/06 12:17 | not used | ☐ |
| 41 | H87JAL | G6G130000 | 6194464 | 2A | 1.0 | 07/18/06 12:20 | ↓ | ☐ |
| 42 | H8QTL | G6G060239-1 | 6194464 | 2A | 1.0 | 07/18/06 12:23 | | ☐ |
| 43 | H8QTLP5 | G6G060239 | 6194464 | | 5.0 | 07/18/06 12:27 | | ☐ |
| 44 | H8QTLZ | G6G060239-1 | 6194464 | | 1.0 | 07/18/06 12:31 | | ☐ |
| 45 | H8QTN | G6G060239-2 | 6194464 | 2A | 1.0 | 07/18/06 12:34 | | ☐ |
| 46 | H8QTQ | G6G060239-3 | 6194464 | 2A | 1.0 | 07/18/06 12:38 | | ☐ |

STL Sacramento

RUN SUMMARY

Method: 6010 PE ICP2 (P05) Reported: 07/19/06 09:29:03

**File ID: JUL1806BX.csv** **Analyst: WONGA**

| # | Sample ID | Lot No. | Batch | | DF | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|
| 47 | H8QTT | G6G060239-4 | 6194464 | 2A | 1.0 | 07/18/06 12:42 | | ☐ |
| 48 | H8QTV | G6G060239-5 | 6194464 | 2A | 1.0 | 07/18/06 12:45 | | ☐ |
| 49 | H8QTW | G6G060239-6 | 6194464 | 2A | 1.0 | 07/18/06 12:49 | | ☐ |
| 50 | CCV | | | | 1.0 | 07/18/06 12:53 | | ☐ |
| 51 | CCB | | | | 1.0 | 07/18/06 12:55 | | ☐ |
| 52 | H8QTX | G6G060239-7 | 6194464 | 2A | 1.0 | 07/18/06 12:59 | | ☐ |
| 53 | H8QT1 | G6G060239-8 | 6194464 | 2A | 1.0 | 07/18/06 13:02 | | ☐ |
| 54 | H8QT2 | G6G060239-9 | 6194464 | 2A | 1.0 | 07/18/06 13:06 | | ☐ |
| 55 | H8QT3 | G6G060239-10 | 6194464 | 2A | 1.0 | 07/18/06 13:09 | | ☐ |
| 56 | H8QT5 | G6G060239-11 | 6194464 | 2A | 1.0 | 07/18/06 13:13 | | ☐ |
| 57 | H8QT6 | G6G060239-12 | 6194464 | 2A | 1.0 | 07/18/06 13:17 | | ☐ |
| 58 | H8QT7 | G6G060239-13 | 6194464 | 2A | 1.0 | 07/18/06 13:21 | | ☐ |
| 59 | H8QT8 | G6G060239-14 | 6194464 | 2A | 1.0 | 07/18/06 13:25 | | ☐ |
| 60 | H8QT9 | G6G060239-15 | 6194464 | 2A | 1.0 | 07/18/06 13:28 | | ☐ |
| 61 | H8GK7 | G6F290300-13 | 6193490 | 2A | 1.0 | 07/18/06 13:32 | | ☐ |
| 62 | CCV | | | | 1.0 | 07/18/06 13:37 | | ☐ |
| 63 | CCB | | | | 1.0 | 07/18/06 13:39 | | ☐ |

STL Sacramento

# INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 07/19/06 09:29:03

File ID: JUL1806BX.csv Analyst: WONGA

| # | Sample ID | Analyzed Date | In Axial | In Radial | Sc Axial | Sc Radial | Y_ Axial | Y_ Radial | Q |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Calib_Blank_' | 07/18/06 09:54 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ☑ |
| 2 | Calib Std 1 | 07/18/06 09:58 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ☑ |
| 3 | Calib Std 2 | 07/18/06 10:00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ☑ |
| 4 | ICV4 | 07/18/06 10:02 | 95.3 | 96.8 | 97.3 | 100.8 | 96.6 | 100.0 | ☑ |
| 5 | ICB | 07/18/06 10:05 | 98.2 | 97.9 | 98.3 | 100.4 | 98.3 | 100.5 | ☑ |
| 6 | PQL | 07/18/06 10:08 | 98.5 | 98.5 | 98.2 | 98.8 | 98.4 | 99.4 | ☑ |
| 7 | ICSA | 07/18/06 10:12 | 73.2 | 84.1 | 81.0 | 88.9 | 80.8 | 88.6 | ☑ |
| 8 | ICSAB_4.0 | 07/18/06 10:14 | 75.9 | 85.4 | 83.7 | 89.1 | 83.6 | 90.1 | ☑ |
| 9 | FB1815158-1 | 07/18/06 10:21 | 101.2 | 102.0 | 100.9 | 102.3 | 101.0 | 102.5 | ☑ |
| 10 | H842MB | 07/18/06 10:25 | 100.3 | 100.6 | 100.0 | 100.4 | 100.5 | 101.1 | ☑ |
| 11 | H842MC | 07/18/06 10:28 | 91.7 | 96.7 | 95.6 | 100.3 | 94.7 | 99.0 | ☑ |
| 12 | H842ML | 07/18/06 10:32 | 92.0 | 96.8 | 93.8 | 99.4 | 93.1 | 98.0 | ☑ |
| 13 | H8GKJ | 07/18/06 10:35 | 100.6 | 103.0 | 101.7 | 102.0 | 101.4 | 102.1 | ☑ |
| 14 | H8GKJP5 | 07/18/06 10:38 | 98.8 | 99.6 | 99.3 | 102.7 | 99.3 | 102.5 | ☑ |
| 15 | CCV | 07/18/06 10:42 | 91.1 | 94.2 | 95.2 | 96.7 | 94.4 | 95.5 | ☑ |
| 16 | CCB | 07/18/06 10:45 | 99.2 | 100.1 | 99.2 | 99.0 | 98.9 | 99.1 | ☑ |
| 17 | H8GKJZ | 07/18/06 10:48 | 92.8 | 99.0 | 95.7 | 99.4 | 95.0 | 98.2 | ☑ |
| 18 | H8GKL | 07/18/06 10:51 | 102.0 | 104.0 | 101.5 | 106.2 | 101.3 | 106.1 | ☑ |
| 19 | H8GKM | 07/18/06 10:55 | 102.0 | 103.0 | 101.7 | 104.6 | 101.8 | 104.7 | ☑ |
| 20 | H8GKQ | 07/18/06 10:59 | 102.1 | 104.1 | 101.5 | 106.0 | 101.4 | 105.9 | ☑ |
| 21 | H8GKR | 07/18/06 11:02 | 103.8 | 105.9 | 103.3 | 106.7 | 103.2 | 106.5 | ☑ |
| 22 | H8GKV | 07/18/06 11:06 | 101.2 | 104.9 | 100.9 | 104.6 | 100.8 | 104.1 | ☑ |
| 23 | H8GKW | 07/18/06 11:09 | 102.5 | 103.6 | 102.1 | 101.7 | 102.4 | 102.2 | ☑ |
| 24 | H8GKX | 07/18/06 11:13 | 101.3 | 102.9 | 100.9 | 106.3 | 101.0 | 106.3 | ☑ |
| 25 | H8GK1 | 07/18/06 11:16 | 101.9 | 104.2 | 101.7 | 102.1 | 101.7 | 102.2 | ☑ |
| 26 | H8GK2 | 07/18/06 11:20 | 101.4 | 103.5 | 101.2 | 104.1 | 101.2 | 104.1 | ☑ |
| 27 | CCV | 07/18/06 11:24 | 92.5 | 95.7 | 94.7 | 98.1 | 95.2 | 96.5 | ☑ |
| 28 | CCB | 07/18/06 11:26 | 100.6 | 101.5 | 100.8 | 103.0 | 100.8 | 103.2 | ☑ |
| 29 | H8GK4 | 07/18/06 11:30 | 103.2 | 104.2 | 102.8 | 105.6 | 102.9 | 105.7 | ☑ |
| 30 | H8GK6 | 07/18/06 11:33 | 103.2 | 103.6 | 102.8 | 104.5 | 102.8 | 104.8 | ☑ |
| 31 | H8GK7 | 07/18/06 11:37 | 255.4 | 225.5 | 253.6 | 242.5 | 255.0 | 245.3 | ☐ |
| 32 | H8GK8 | 07/18/06 11:46 | 100.6 | 102.8 | 101.0 | 103.3 | 101.0 | 103.6 | ☑ |
| 33 | H8GLA | 07/18/06 11:54 | 102.4 | 102.5 | 101.4 | 103.7 | 101.5 | 104.1 | ☑ |
| 34 | FB1815158-2 | 07/18/06 11:58 | 101.4 | 104.1 | 101.0 | 106.4 | 101.1 | 106.5 | ☑ |
| 35 | H87JAB | 07/18/06 12:02 | 101.8 | 102.5 | 101.4 | 105.6 | 101.8 | 106.0 | ☑ |
| 36 | H87JAC | 07/18/06 12:05 | 92.3 | 97.5 | 94.3 | 99.1 | 93.5 | 97.8 | ☑ |
| 37 | H87JAL | 07/18/06 12:08 | 91.5 | 97.7 | 93.8 | 100.7 | 93.0 | 99.4 | ☑ |
| 38 | CCV | 07/18/06 12:11 | 91.4 | 95.9 | 94.2 | 97.5 | 93.8 | 96.7 | ☑ |
| 39 | CCB | 07/18/06 12:14 | 100.4 | 101.0 | 100.3 | 102.2 | 100.2 | 102.2 | ☑ |
| 40 | H87JAC | 07/18/06 12:17 | 92.2 | 98.1 | 95.4 | 100.5 | 94.6 | 99.1 | ☑ |
| 41 | H87JAL | 07/18/06 12:20 | 92.6 | 99.1 | 97.2 | 100.0 | 96.4 | 98.6 | ☑ |
| 42 | H8QTL | 07/18/06 12:23 | 102.2 | 103.4 | 102.5 | 105.6 | 102.3 | 105.5 | ☑ |
| 43 | H8QTLP5 | 07/18/06 12:27 | 98.4 | 100.6 | 98.8 | 103.0 | 98.8 | 102.9 | ☑ |
| 44 | H8QTLZ | 07/18/06 12:31 | 91.4 | 98.7 | 95.9 | 101.4 | 95.2 | 99.8 | ☑ |
| 45 | H8QTN | 07/18/06 12:34 | 101.5 | 102.9 | 101.9 | 106.8 | 101.8 | 106.7 | ☑ |
| 46 | H8QTQ | 07/18/06 12:38 | 100.2 | 101.1 | 101.7 | 104.3 | 101.3 | 104.3 | ☑ |

STL Sacramento

# INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 07/19/06 09:29:03

**File ID: JUL1806BX.csv** **Analyst: WONGA**

| # | Sample ID | Analyzed Date | In Axial | In Radial | Sc Axial | Sc Radial | Y_ Axial | Y_ Radial | Q |
|---|---|---|---|---|---|---|---|---|---|
| 47 | H8QTT | 07/18/06 12:42 | 101.8 | 102.8 | 101.2 | 104.5 | 100.9 | 104.5 | ☑ |
| 48 | H8QTV | 07/18/06 12:45 | 101.2 | 102.1 | 102.9 | 105.0 | 102.5 | 104.9 | ☑ |
| 49 | H8QTW | 07/18/06 12:49 | 99.8 | 101.8 | 100.1 | 102.8 | 100.0 | 102.8 | ☑ |
| 50 | CCV | 07/18/06 12:53 | 89.2 | 94.6 | 94.4 | 96.9 | 92.0 | 96.3 | ☑ |
| 51 | CCB | 07/18/06 12:55 | 98.3 | 99.8 | 98.4 | 97.8 | 98.4 | 98.1 | ☑ |
| 52 | H8QTX | 07/18/06 12:59 | 101.2 | 102.8 | 101.1 | 106.4 | 100.8 | 106.2 | ☑ |
| 53 | H8QT1 | 07/18/06 13:02 | 101.5 | 103.8 | 101.8 | 103.7 | 101.6 | 103.6 | ☑ |
| 54 | H8QT2 | 07/18/06 13:06 | 100.4 | 102.8 | 100.7 | 104.5 | 100.5 | 104.4 | ☑ |
| 55 | H8QT3 | 07/18/06 13:09 | 102.2 | 102.3 | 102.4 | 103.5 | 102.1 | 103.4 | ☑ |
| 56 | H8QT5 | 07/18/06 13:13 | 99.6 | 102.4 | 100.1 | 105.4 | 99.9 | 105.2 | ☑ |
| 57 | H8QT6 | 07/18/06 13:17 | 99.8 | 102.7 | 99.3 | 105.0 | 99.1 | 105.0 | ☑ |
| 58 | H8QT7 | 07/18/06 13:21 | 100.7 | 103.7 | 101.3 | 105.3 | 101.1 | 105.2 | ☑ |
| 59 | H8QT8 | 07/18/06 13:25 | 100.6 | 102.0 | 100.3 | 103.6 | 100.6 | 104.0 | ☑ |
| 60 | H8QT9 | 07/18/06 13:28 | 100.8 | 103.0 | 100.7 | 104.2 | 100.8 | 104.7 | ☑ |
| 61 | H8GK7 | 07/18/06 13:32 | 101.4 | 102.4 | 101.3 | 102.9 | 101.3 | 103.1 | ☑ |
| 62 | CCV | 07/18/06 13:37 | 89.9 | 93.4 | 93.1 | 96.9 | 92.9 | 95.0 | ☑ |
| 63 | CCB | 07/18/06 13:39 | 99.3 | 99.7 | 99.6 | 102.6 | 99.5 | 102.7 | ☑ |

STL Sacramento

ICP Data Review Checklist

SEVERN TRENT STL

**Run/Project Information:**

Run Date: 07/18/06 Analyst: ANONG Instrument: P05

Prep Batches Run: 6193490, 6194464

Circle Method used: 6010B / 200.7: SAC-MT-0003 Rev. 2.0

| Review Items | Yes | No | N/A | 2nd Level |
|---|---|---|---|---|
| **A. Calibration/Instrument Run QC** | | | | |
| 1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ? | ✓ | | | ✓ |
| 2. ICV/CCV analyzed at appropriate frequency and within control limits ? (6010B, CLP = 90 - 110%, 200.7 = 95 -105%[ICV]) | ✓ | | | ✓ |
| 3. ICB/CCB analyzed at appropriate frequency and within +/- RL or +/- CRDL (CLP) ? | ✓ | | | ✓ |
| 4. CRI analyzed? (for CLP only) | ✓ | | | ✓ |
| 5. ICSA/ICSAB run at required frequency and within SOP limits ? | ✓ | | | ✓ |
| **B. Sample Results** | | | | |
| 1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ? | | | ✓ | ✓ |
| 2. All reported results bracketed by in control QC ? | ✓ | | | ✓ |
| 3. Sample analyses done within holding time ? | ✓ | | | ✓ |
| **C. Preparation/Matrix QC** | | | | |
| 1. LCS done per prep batch and within QC limits ? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < RL or CRDL (CLP) ? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits ? | | | ✓ | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits ? | | | ✓ | ✓ |
| 5. Dilution Test done per prep batch (or per SDG for CLP) ? | ✓ | | | ✓ |
| 6. Post digest spike analyzed if required (CLP only) ? | ✓ | | | ✓ |
| **D. Other** | | | | |
| 1. Are all nonconformances documented appropriately ? | | | ✓ | ✓ |
| 2. Current IDL/LR/IEC data on file ? | ✓ | | | ✓ |
| 3. Calculations checked for error ? | ✓ | | | ✓ |
| 4. Transcriptions checked for error ? | ✓ | | | ✓ |
| 5. All client/project specific requirements met ? | ✓ | | | ✓ |
| 6. Date/time of analysis verified as correct ? | ✓ | | | ✓ |

Analyst: ANONG Date: 07/19/06

Comments:

2nd Level Reviewer : MFZ Date: 7/19/06

Comments:

STL Sacramento

Method 6010B Instrument QC Standards

SEVERN TRENT SERVICES

Chemist: AWong

Run Date: 07/18/06

Type of Analysis: Trace ICP (AirTox)

Instrument ID: P05

Standard Expiration Dates Verified: 07/18/06

| Standard Name | Standard Logbook ID |
|---|---|
| STD0 (Cal Blank) / ICB / CCB | 2696-16-6 |
| STD1 (Cal Std 1) | 2869-05 |
| STD2 (Cal Std 2) | 2869-06 |
| STD3 (Cal Std 3) | NA |
| STD4 (Cal Std 4) | NA |
| ICV | 2680-42 |
| ICV2 | NA |
| PQLCRI | 1750-018-3 |
| ICSA | 2680-69 |
| ICSAB | 2680-70 |
| CCV | 2869-07 |
| Internal Standard | 2696-21-6 |

*QA – 416*
*ERS 2/1/01*

Sequence No.: 1
Sample ID: Calib_Blank_1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 9:54:22 AM
Data Type: Reprocessed on 7/18/2006 2:00:52 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Blank_1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| In Axial | 419647.5 | 2301.19 | 0.55% | 100.00 | % |
| In Radial | 17765.1 | 32.46 | 0.18% | 100.00 | % |
| Y_ Axial | 2011570.8 | 12106.14 | 0.60% | 100.00 | % |
| Y_ Radial | 204315.5 | 1114.30 | 0.55% | 100.00 | % |
| Sc Axial | 3893212.9 | 23641.35 | 0.61% | 100.00 | % |
| Sc Radial | 383661.4 | 2765.26 | 0.72% | 100.00 | % |
| Al_1 396.153 R† | 183.3 | 51.73 | 28.23% | [0.00] | mg/L |
| Al_2 308.215 R† | 236.0 | 7.98 | 3.38% | [0.00] | mg/L |
| Ca 315.887 R† | -501.0 | 10.57 | 2.11% | [0.00] | mg/L |
| Fe_1 273.955† | 40.2 | 15.30 | 38.09% | [0.00] | mg/L |
| Fe_2 238.863 R† | 44.9 | 3.20 | 7.14% | [0.00] | mg/L |
| Mg 279.077 R† | -70.8 | 4.42 | 6.24% | [0.00] | mg/L |
| Na_1 589.592 R† | 2596.9 | 31.28 | 1.20% | [0.00] | mg/L |
| Na_2 330.237 R† | 69.4 | 2.03 | 2.92% | [0.00] | mg/L |
| Zn 206.200† | 32.3 | 4.16 | 12.90% | [0.00] | mg/L |

Sequence No.: 2
Sample ID: Calib_Std_1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 7/18/2006 9:58:05 AM
Data Type: Reprocessed on 7/18/2006 2:00:54 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_1

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| In Axial | 377588.6 | 1740.00 | 0.46% | 89.978 | % |
| In Radial | 16369.0 | 28.83 | 0.18% | 92.142 | % |
| Y_ Axial | 1902973.3 | 9045.53 | 0.48% | 94.601 | % |
| Y_ Radial | 194518.8 | 925.24 | 0.48% | 95.205 | % |
| Sc Axial | 3716276.6 | 18573.65 | 0.50% | 95.455 | % |
| Sc Radial | 368170.9 | 1449.94 | 0.39% | 95.962 | % |
| Al_1 396.153 R† | 611776.2 | 3199.69 | 0.52% | [50] | mg/L |
| Al_2 308.215 R† | 166487.4 | 278.32 | 0.17% | [50] | mg/L |
| Ca 315.887 R† | 866738.4 | 7232.20 | 0.83% | [50] | mg/L |
| Fe_1 273.955† | 2576650.6 | 609.80 | 0.02% | [50] | mg/L |
| Fe_2 238.863 R† | 50612.9 | 125.06 | 0.25% | [50] | mg/L |
| Mg 279.077 R† | 105606.1 | 47.25 | 0.04% | [50] | mg/L |
| Na_1 589.592 R† | 490210.1 | 2786.21 | 0.57% | [50] | mg/L |
| Na_2 330.237 R† | 3650.0 | 13.69 | 0.38% | [50] | mg/L |
| Zn 206.200† | 169097.1 | 57.98 | 0.03% | [5.0] | mg/L |

Sequence No.: 3
Sample ID: Calib_Std_2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/18/2006 10:00:22 AM
Data Type: Reprocessed on 7/18/2006 2:02:11 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_2

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| In Axial | 326866.2 | 1069.99 | 0.33% | 77.891 | % |
| In Radial | 15071.6 | 235.43 | 1.56% | 84.839 | % |
| Y_ Axial | 1748397.9 | 4636.60 | 0.27% | 86.917 | % |
| Y_ Radial | 182405.7 | 2082.52 | 1.14% | 89.277 | % |
| Sc Axial | 3400980.3 | 10959.82 | 0.32% | 87.357 | % |
| Sc Radial | 347521.2 | 1607.12 | 0.46% | 90.580 | % |
| Al_2 308.215 R† | 842080.0 | 7634.23 | 0.91% | [250] | mg/L |
| Ca 315.887 R† | 4223172.3 | 26647.11 | 0.63% | [250] | mg/L |
| Fe_2 238.863 R† | 249611.7 | 1560.54 | 0.63% | [250] | mg/L |
| Mg 279.077 R† | 517307.8 | 3041.13 | 0.59% | [250] | mg/L |
| Na_1 589.592 R† | 2482189.2 | 19914.98 | 0.80% | [250] | mg/L |
| Na_2 330.237 R† | 16941.7 | 82.28 | 0.49% | [250] | mg/L |

Calibration Summary

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Al_1 396.153 R | 1 | Lin Thru 0 | 0.0 | 12240 | 0.00000 | 1.000000 | |
| Al_2 308.215 R | 2 | Lin Thru 0 | 0.0 | 3367 | 0.00000 | 0.999998 | |
| Ca 315.887 R | 2 | Lin Thru 0 | 0.0 | 16910 | 0.00000 | 0.999987 | |
| Fe_1 273.955 | 1 | Lin Thru 0 | 0.0 | 51530 | 0.00000 | 1.000000 | |
| Fe_2 238.863 R | 2 | Lin Thru 0 | 0.0 | 999.0 | 0.00000 | 0.999996 | |
| Mg 279.077 R | 2 | Lin Thru 0 | 0.0 | 2071 | 0.00000 | 0.999992 | |
| Na_1 589.592 R | 2 | Lin Thru 0 | 0.0 | 9924 | 0.00000 | 0.999997 | |
| Na_2 330.237 R | 2 | Lin Thru 0 | 0.0 | 67.97 | 0.00000 | 0.999890 | |
| Zn 206.200 | 1 | Lin Thru 0 | 0.0 | 33820 | 0.00000 | 1.000000 | |

Sequence No.: 4
Sample ID: ICV4
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 7/18/2006 10:02:47 AM
Data Type: Reprocessed on 7/18/2006 2:02:14 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICV4

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 400022.2 | 95.323 | % | 0.0833 | | | | 0.09% |
| In Radial | 17187.9 | 96.751 | % | 1.6378 | | | | 1.69% |
| Y_ Axial | 1943029.8 | 96.593 | % | 0.0674 | | | | 0.07% |
| Y_ Radial | 204376.2 | 100.03 | % | 1.576 | | | | 1.58% |
| Sc Axial | 3788830.6 | 97.319 | % | 0.0807 | | | | 0.08% |
| Sc Radial | 386752.1 | 100.81 | % | 1.655 | | | | 1.64% |
| Al_1 396.153 R† | 125771.2 | 10.279 | mg/L | 0.0045 | 10.279 | mg/L | 0.0045 | 0.04% |
| Al_2 308.215 R† | 33852.4 | 10.055 | mg/L | 0.0174 | 10.055 | mg/L | 0.0174 | 0.17% |
| Ca 315.887 R† | 180613.4 | 10.681 | mg/L | 0.0133 | 10.681 | mg/L | 0.0133 | 0.12% |
| Fe_1 273.955† | 540776.2 | 10.494 | mg/L | 0.0106 | 10.494 | mg/L | 0.0106 | 0.10% |
| Fe_2 238.863 R† | 10319.2 | 10.330 | mg/L | 0.0071 | 10.330 | mg/L | 0.0071 | 0.07% |
| Mg 279.077 R† | 21760.9 | 10.508 | mg/L | 0.0118 | 10.508 | mg/L | 0.0118 | 0.11% |
| Na_1 589.592 R† | 100953.6 | 10.173 | mg/L | 0.0078 | 10.173 | mg/L | 0.0078 | 0.08% |
| Na_2 330.237 R† | 786.5 | 10.968 | mg/L | 1.6041 | 10.968 | mg/L | 1.6041 | 14.62% |
| Zn 206.200† | 35268.1 | 1.0428 | mg/L | 0.00169 | 1.0428 | mg/L | 0.00169 | 0.16% |

Sequence No.: 5
Sample ID: ICB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 7/18/2006 10:05:08 AM
Data Type: Reprocessed on 7/18/2006 2:02:23 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 411990.1 | 98.175 | % | 1.3647 | | | | 1.39% |
| In Radial | 17399.5 | 97.942 | % | 0.2568 | | | | 0.26% |
| Y_ Axial | 1977478.3 | 98.305 | % | 1.2264 | | | | 1.25% |
| Y_ Radial | 205392.0 | 100.53 | % | 0.989 | | | | 0.98% |
| Sc Axial | 3825938.3 | 98.272 | % | 1.2823 | | | | 1.30% |
| Sc Radial | 385355.2 | 100.44 | % | 1.086 | | | | 1.08% |
| Al_1 396.153 R† | 73.1 | 0.00597 | mg/L | 0.001247 | 0.00597 | mg/L | 0.001247 | 20.88% |
| Al_2 308.215 R† | -6.0 | -0.00178 | mg/L | 0.002002 | -0.00178 | mg/L | 0.002002 | 112.69% |
| Ca 315.887 R† | 37.1 | 0.00219 | mg/L | 0.000135 | 0.00219 | mg/L | 0.000135 | 6.18% |
| Fe_1 273.955† | 262.3 | 0.00509 | mg/L | 0.000769 | 0.00509 | mg/L | 0.000769 | 15.10% |
| Fe_2 238.863 R† | -2.8 | -0.00279 | mg/L | 0.006052 | -0.00279 | mg/L | 0.006052 | 216.83% |
| Mg 279.077 R† | 9.5 | 0.00457 | mg/L | 0.003445 | 0.00457 | mg/L | 0.003445 | 75.37% |
| Na_1 589.592 R† | 734.8 | 0.07404 | mg/L | 0.018414 | 0.07404 | mg/L | 0.018414 | 24.87% |
| Na_2 330.237 R† | -10.8 | -0.15907 | mg/L | 0.138073 | -0.15907 | mg/L | 0.138073 | 86.80% |
| Zn 206.200† | 6.3 | 0.00019 | mg/L | 0.000045 | 0.00019 | mg/L | 0.000045 | 23.92% |

Sequence No.: 6
Sample ID: PQL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 7/18/2006 10:08:43 AM
Data Type: Reprocessed on 7/18/2006 2:02:24 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 40 mL

Mean Data: PQL

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 413214.9 | 98.467 | % | 1.3272 | | | | 1.35% |
| In Radial | 17498.5 | 98.500 | % | 0.1009 | | | | 0.10% |
| Y_ Axial | 1979614.6 | 98.411 | % | 1.2429 | | | | 1.26% |
| Y_ Radial | 202995.5 | 99.354 | % | 1.0132 | | | | 1.02% |
| Sc Axial | 3821527.6 | 98.159 | % | 1.2452 | | | | 1.27% |
| Sc Radial | 379088.7 | 98.808 | % | 1.1502 | | | | 1.16% |
| Al_1 396.153 R† | 1359.6 | 0.11112 | mg/L | 0.008846 | 53.358 | mg/L | 4.2480 | 7.96% |
| Al_2 308.215 R† | 344.8 | 0.10240 | mg/L | 0.004749 | 49.172 | mg/L | 2.2807 | 4.64% |
| Ca 315.887 R† | 1806.2 | 0.10682 | mg/L | 0.000771 | 51.292 | mg/L | 0.3701 | 0.72% |
| Fe_1 273.955† | 1654.2 | 0.03210 | mg/L | 0.000324 | 15.414 | mg/L | 0.1556 | 1.01% |
| Fe_2 238.863 R† | 25.2 | 0.02521 | mg/L | 0.008459 | 12.104 | mg/L | 4.0621 | 33.56% |
| Mg 279.077 R† | 221.5 | 0.10698 | mg/L | 0.009145 | 51.372 | mg/L | 4.3914 | 8.55% |
| Na_1 589.592 R† | 2993.8 | 0.30168 | mg/L | 0.027390 | 144.86 | mg/L | 13.152 | 9.08% |
| Na_2 330.237 R† | 21.9 | 0.31930 | mg/L | 0.068563 | 153.32 | mg/L | 32.923 | 21.47% |
| Zn 206.200† | 186.4 | 0.00551 | mg/L | 0.000034 | 2.6462 | mg/L | 0.01614 | 0.61% |

Sequence No.: 7
Sample ID: ICSA
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 7/18/2006 10:12:18 AM
Data Type: Reprocessed on 7/18/2006 2:02:26 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICSA

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 307331.7 | 73.236 | % | 3.1969 | | | | 4.37% |
| In Radial | 14940.0 | 84.098 | % | 0.5545 | | | | 0.66% |
| Y_ Axial | 1626097.4 | 80.837 | % | 3.5664 | | | | 4.41% |
| Y_ Radial | 180928.5 | 88.553 | % | 0.2440 | | | | 0.28% |
| Sc Axial | 3151959.5 | 80.960 | % | 3.4774 | | | | 4.30% |
| Sc Radial | 341091.3 | 88.904 | % | 0.1998 | | | | 0.22% |
| Al_1 396.153 R† | 6319010.8 | 516.45 | mg/L | 3.694 | 516.45 | mg/L | 3.694 | 0.72% |
| Al_2 308.215 R† | 1735959.0 | 515.61 | mg/L | 1.084 | 515.61 | mg/L | 1.084 | 0.21% |
| Ca 315.887 R† | 8468373.4 | 500.80 | mg/L | 4.926 | 500.80 | mg/L | 4.926 | 0.98% |
| Fe_1 273.955† | 10404214.9 | 201.89 | mg/L | 11.807 | 201.89 | mg/L | 11.807 | 5.85% |
| Fe_2 238.863 R† | 198956.5 | 199.16 | mg/L | 0.155 | 199.16 | mg/L | 0.155 | 0.08% |
| Mg 279.077 R† | 1050755.3 | 507.40 | mg/L | 0.340 | 507.40 | mg/L | 0.340 | 0.07% |
| Na_1 589.592 R† | 246.3 | 0.02482 | mg/L | 0.012395 | 0.02482 | mg/L | 0.012395 | 49.94% |
| Na_2 330.237 R† | 13.9 | -1.4265 | mg/L | 0.53976 | -1.4265 | mg/L | 0.53976 | 37.84% |
| Zn 206.200† | 368.1 | 0.01088 | mg/L | 0.001272 | 0.01088 | mg/L | 0.001272 | 11.69% |

Sequence No.: 8
Sample ID: ICSAB_4.0
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 7/18/2006 10:14:50 AM
Data Type: Reprocessed on 7/18/2006 2:02:28 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICSAB_4.0

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 318609.6 | 75.923 | % | 0.7024 | | | | 0.93% |
| In Radial | 15179.2 | 85.444 | % | 0.7423 | | | | 0.87% |
| Y_ Axial | 1682049.4 | 83.619 | % | 0.6127 | | | | 0.73% |
| Y_ Radial | 184154.1 | 90.132 | % | 0.6150 | | | | 0.68% |
| Sc Axial | 3258403.5 | 83.694 | % | 0.6651 | | | | 0.79% |
| Sc Radial | 341889.2 | 89.112 | % | 1.7684 | | | | 1.98% |
| Al_1 396.153 R† | 6309260.1 | 515.65 | mg/L | 4.464 | 515.65 | mg/L | 4.464 | 0.87% |
| Al_2 308.215 R† | 1726341.9 | 512.75 | mg/L | 12.870 | 512.75 | mg/L | 12.870 | 2.51% |
| Ca 315.887 R† | 8485806.1 | 501.83 | mg/L | 3.989 | 501.83 | mg/L | 3.989 | 0.79% |
| Fe_1 273.955† | 9850636.1 | 191.15 | mg/L | 2.334 | 191.15 | mg/L | 2.334 | 1.22% |
| Fe_2 238.863 R† | 200658.5 | 200.86 | mg/L | 0.453 | 200.86 | mg/L | 0.453 | 0.23% |
| Mg 279.077 R† | 1041723.8 | 503.03 | mg/L | 14.637 | 503.03 | mg/L | 14.637 | 2.91% |
| Na_1 589.592 R† | 89.4 | 0.00901 | mg/L | 0.001298 | 0.00901 | mg/L | 0.001298 | 14.41% |
| Na_2 330.237 R† | 64.0 | -1.2318 | mg/L | 0.03487 | -1.2318 | mg/L | 0.03487 | 2.83% |
| Zn 206.200† | 32605.5 | 0.96411 | mg/L | 0.017462 | 0.96411 | mg/L | 0.017462 | 1.81% |

Sequence No.: 15
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/18/2006 10:42:45 AM
Data Type: Reprocessed on 7/18/2006 2:02:48 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 382213.9 | 91.080 | % | 0.7347 | | | | 0.81% |
| In Radial | 16734.2 | 94.197 | % | 1.4630 | | | | 1.55% |
| Y_ Axial | 1899622.3 | 94.435 | % | 0.7158 | | | | 0.76% |
| Y_ Radial | 195174.6 | 95.526 | % | 1.3344 | | | | 1.40% |
| Sc Axial | 3705602.9 | 95.181 | % | 0.7961 | | | | 0.84% |
| Sc Radial | 370898.9 | 96.674 | % | 0.5779 | | | | 0.60% |
| Al_1 396.153 R† | 316152.7 | 25.839 | mg/L | 0.4587 | 25.839 | mg/L | 0.4587 | 1.78% |
| Al_2 308.215 R† | 86297.6 | 25.632 | mg/L | 0.1452 | 25.632 | mg/L | 0.1452 | 0.57% |
| Ca 315.887 R† | 450187.2 | 26.623 | mg/L | 0.5042 | 26.623 | mg/L | 0.5042 | 1.89% |
| Fe_1 273.955† | 1327305.8 | 25.756 | mg/L | 0.3678 | 25.756 | mg/L | 0.3678 | 1.43% |
| Fe_2 238.863 R† | 26570.7 | 26.598 | mg/L | 0.1296 | 26.598 | mg/L | 0.1296 | 0.49% |
| Mg 279.077 R† | 55414.2 | 26.759 | mg/L | 0.1324 | 26.759 | mg/L | 0.1324 | 0.49% |
| Na_1 589.592 R† | 251607.5 | 25.354 | mg/L | 0.5006 | 25.354 | mg/L | 0.5006 | 1.97% |
| Na_2 330.237 R† | 1914.8 | 26.685 | mg/L | 0.7943 | 26.685 | mg/L | 0.7943 | 2.98% |
| Zn 206.200† | 87237.7 | 2.5795 | mg/L | 0.03840 | 2.5795 | mg/L | 0.03840 | 1.49% |

Sequence No.: 16
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 10:45:07 AM
Data Type: Reprocessed on 7/18/2006 2:02:49 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 416498.6 | 99.250 | % | 1.1275 | | | | 1.14% |
| In Radial | 17784.4 | 100.11 | % | 0.465 | | | | 0.46% |
| Y_ Axial | 1990295.5 | 98.942 | % | 0.6814 | | | | 0.69% |
| Y_ Radial | 202551.3 | 99.137 | % | 1.0152 | | | | 1.02% |
| Sc Axial | 3862042.0 | 99.199 | % | 0.6976 | | | | 0.70% |
| Sc Radial | 380014.6 | 99.049 | % | 1.0657 | | | | 1.08% |
| Al_1 396.153 Rt | 55.0 | 0.00450 | mg/L | 0.005363 | 0.00450 | mg/L | 0.005363 | 119.27% |
| Al_2 308.215 Rt | -2.1 | -0.00063 | mg/L | 0.004319 | -0.00063 | mg/L | 0.004319 | 690.75% |
| Ca 315.887 Rt | 5.2 | 0.00031 | mg/L | 0.000014 | 0.00031 | mg/L | 0.000014 | 4.62% |
| Fe_1 273.955† | 95.4 | 0.00185 | mg/L | 0.000280 | 0.00185 | mg/L | 0.000280 | 15.11% |
| Fe_2 238.863 Rt | -5.9 | -0.00594 | mg/L | 0.007111 | -0.00594 | mg/L | 0.007111 | 119.72% |
| Mg 279.077 Rt | -6.7 | -0.00324 | mg/L | 0.012834 | -0.00324 | mg/L | 0.012834 | 396.42% |
| Na_1 589.592 Rt | 312.9 | 0.03153 | mg/L | 0.009542 | 0.03153 | mg/L | 0.009542 | 30.27% |
| Na_2 330.237 Rt | 16.3 | 0.23996 | mg/L | 0.102107 | 0.23996 | mg/L | 0.102107 | 42.55% |
| Zn 206.200† | 9.2 | 0.00027 | mg/L | 0.000004 | 0.00027 | mg/L | 0.000004 | 1.55% |

Sequence No.: 27
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/18/2006 11:24:06 AM
Data Type: Reprocessed on 7/18/2006 2:03:11 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 388274.1 | 92.524 | % | 0.2262 | | | | 0.24% |
| In Radial | 17005.5 | 95.725 | % | 0.1563 | | | | 0.16% |
| Y_ Axial | 1915803.9 | 95.239 | % | 0.2694 | | | | 0.28% |
| Y_ Radial | 197115.5 | 96.476 | % | 0.0383 | | | | 0.04% |
| Sc Axial | 3688092.7 | 94.731 | % | 0.9271 | | | | 0.98% |
| Sc Radial | 376251.8 | 98.069 | % | 1.4738 | | | | 1.50% |
| Al_1 396.153 R† | 310492.7 | 25.376 | mg/L | 0.3706 | 25.376 | mg/L | 0.3706 | 1.46% |
| Al_2 308.215 R† | 85606.7 | 25.426 | mg/L | 0.0541 | 25.426 | mg/L | 0.0541 | 0.21% |
| Ca 315.887 R† | 445608.2 | 26.352 | mg/L | 0.4176 | 26.352 | mg/L | 0.4176 | 1.58% |
| Fe_1 273.955† | 1328216.2 | 25.774 | mg/L | 0.0109 | 25.774 | mg/L | 0.0109 | 0.04% |
| Fe_2 238.863 R† | 26278.8 | 26.306 | mg/L | 0.0041 | 26.306 | mg/L | 0.0041 | 0.02% |
| Mg 279.077 R† | 54963.3 | 26.541 | mg/L | 0.0055 | 26.541 | mg/L | 0.0055 | 0.02% |
| Na_1 589.592 R† | 248857.3 | 25.076 | mg/L | 0.3436 | 25.076 | mg/L | 0.3436 | 1.37% |
| Na_2 330.237 R† | 1857.7 | 25.844 | mg/L | 0.2384 | 25.844 | mg/L | 0.2384 | 0.92% |
| Zn 206.200† | 87314.0 | 2.5818 | mg/L | 0.00382 | 2.5818 | mg/L | 0.00382 | 0.15% |

Sequence No.: 28
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 11:26:29 AM
Data Type: Reprocessed on 7/18/2006 2:03:14 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 422269.6 | 100.62 | % | 0.839 | | | | 0.83% |
| In Radial | 18029.1 | 101.49 | % | 0.509 | | | | 0.50% |
| Y_ Axial | 2028198.6 | 100.83 | % | 0.775 | | | | 0.77% |
| Y_ Radial | 210785.8 | 103.17 | % | 0.516 | | | | 0.50% |
| Sc Axial | 3925213.4 | 100.82 | % | 0.800 | | | | 0.79% |
| Sc Radial | 395297.3 | 103.03 | % | 0.411 | | | | 0.40% |
| Al_1 396.153 R† | 8.8 | 0.00072 | mg/L | 0.003045 | 0.00072 | mg/L | 0.003045 | 424.26% |
| Al_2 308.215 R† | -7.7 | -0.00228 | mg/L | 0.001721 | -0.00228 | mg/L | 0.001721 | 75.60% |
| Ca 315.887 R† | 45.2 | 0.00267 | mg/L | 0.001069 | 0.00267 | mg/L | 0.001069 | 39.95% |
| Fe_1 273.955† | 105.7 | 0.00205 | mg/L | 0.000693 | 0.00205 | mg/L | 0.000693 | 33.80% |
| Fe_2 238.863 R† | -4.4 | -0.00444 | mg/L | 0.007171 | -0.00444 | mg/L | 0.007171 | 161.40% |
| Mg 279.077 R† | -5.4 | -0.00261 | mg/L | 0.002083 | -0.00261 | mg/L | 0.002083 | 79.66% |
| Na_1 589.592 R† | 22.0 | 0.00222 | mg/L | 0.013568 | 0.00222 | mg/L | 0.013568 | 611.76% |
| Na_2 330.237 R† | -12.4 | -0.18202 | mg/L | 0.001386 | -0.18202 | mg/L | 0.001386 | 0.76% |
| Zn 206.200† | 5.9 | 0.00018 | mg/L | 0.000265 | 0.00018 | mg/L | 0.000265 | 150.52% |

Sequence No.: 34
Sample ID: FB1815158-2
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 7/18/2006 11:58:48 AM
Data Type: Reprocessed on 7/18/2006 2:03:27 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: FB1815158-2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 425585.6 | 101.42 | % | 2.734 | | | | 2.70% |
| In Radial | 18491.2 | 104.09 | % | 0.820 | | | | 0.79% |
| Y_ Axial | 2032811.9 | 101.06 | % | 2.763 | | | | 2.73% |
| Y_ Radial | 217528.2 | 106.47 | % | 3.200 | | | | 3.01% |
| Sc Axial | 3930917.9 | 100.97 | % | 2.794 | | | | 2.77% |
| Sc Radial | 408346.0 | 106.43 | % | 3.348 | | | | 3.15% |
| Al_1 396.153 R† | 248.7 | 0.02033 | mg/L | 0.005554 | 24.400 | mg/L | 6.6674 | 27.33% |
| Al_2 308.215 R† | 42.8 | 0.01272 | mg/L | 0.004463 | 15.264 | mg/L | 5.3581 | 35.10% |
| Ca 315.887 R† | 5788.4 | 0.34231 | mg/L | 0.004396 | 410.94 | mg/L | 5.277 | 1.28% |
| Fe_1 273.955† | 653.2 | 0.01268 | mg/L | 0.000286 | 15.217 | mg/L | 0.3435 | 2.26% |
| Fe_2 238.863 R† | 7.8 | 0.00783 | mg/L | 0.008200 | 9.3987 | mg/L | 9.84429 | 104.74% |
| Mg 279.077 R† | 87.1 | 0.04206 | mg/L | 0.000318 | 50.491 | mg/L | 0.3817 | 0.76% |
| Na_1 589.592 R† | 13479.6 | 1.3583 | mg/L | 0.00199 | 1630.6 | mg/L | 2.39 | 0.15% |
| Na_2 330.237 R† | 84.0 | 1.2331 | mg/L | 0.06818 | 1480.4 | mg/L | 81.85 | 5.53% |
| Zn 206.200† | 91.0 | 0.00269 | mg/L | 0.000159 | 3.2318 | mg/L | 0.19077 | 5.90% |

Sequence No.: 35
Sample ID: H87JAB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 7/18/2006 12:02:24 PM
Data Type: Reprocessed on 7/18/2006 2:03:31 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H87JAB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 427130.9 | 101.78 | % | 0.925 | | | | 0.91% |
| In Radial | 18205.0 | 102.48 | % | 0.294 | | | | 0.29% |
| Y_ Axial | 2047830.7 | 101.80 | % | 0.966 | | | | 0.95% |
| Y_ Radial | 216507.5 | 105.97 | % | 0.368 | | | | 0.35% |
| Sc Axial | 3947075.5 | 101.38 | % | 1.001 | | | | 0.99% |
| Sc Radial | 405081.0 | 105.58 | % | 0.418 | | | | 0.40% |
| Al_1 396.153 R† | -32.9 | -0.00269 | mg/L | 0.004133 | -3.2297 | mg/L | 4.96155 | 153.62% |
| Al_2 308.215 R† | 8.0 | 0.00237 | mg/L | 0.001142 | 2.8445 | mg/L | 1.37130 | 48.21% |
| Ca 315.887 R† | 840.9 | 0.04973 | mg/L | 0.000558 | 59.697 | mg/L | 0.6697 | 1.12% |
| Fe_1 273.955† | 76.2 | 0.00148 | mg/L | 0.000181 | 1.7741 | mg/L | 0.21780 | 12.28% |
| Fe_2 238.863 R† | -1.0 | -0.00104 | mg/L | 0.009249 | -1.2450 | mg/L | 11.10344 | 891.84% |
| Mg 279.077 R† | 1.3 | 0.00063 | mg/L | 0.001839 | 0.75952 | mg/L | 2.207655 | 290.66% |
| Na_1 589.592 R† | 325.7 | 0.03282 | mg/L | 0.007634 | 39.396 | mg/L | 9.1649 | 23.26% |
| Na_2 330.237 R† | -33.4 | -0.49229 | mg/L | 0.204196 | -590.99 | mg/L | 245.133 | 41.48% |
| Zn 206.200† | 36.2 | 0.00107 | mg/L | 0.000029 | 1.2836 | mg/L | 0.03465 | 2.70% |

Sequence No.: 36
Sample ID: H87JAC
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 7/18/2006 12:05:57 PM
Data Type: Reprocessed on 7/18/2006 2:03:31 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H87JAC

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 387243.4 | 92.278 | % | 0.3167 | | | | 0.34% |
| In Radial | 17321.9 | 97.505 | % | 0.3027 | | | | 0.31% |
| Y_ Axial | 1880755.6 | 93.497 | % | 0.3930 | | | | 0.42% |
| Y_ Radial | 199890.8 | 97.834 | % | 0.8112 | | | | 0.83% |
| Sc Axial | 3670535.5 | 94.280 | % | 0.3722 | | | | 0.39% |
| Sc Radial | 380226.5 | 99.105 | % | 0.8643 | | | | 0.87% |
| Al_1 396.153 R† | 25883.7 | 2.1155 | mg/L | 0.00500 | 2539.6 | mg/L | 6.00 | 0.24% |
| Al_2 308.215 R† | 6998.6 | 2.0787 | mg/L | 0.00767 | 2495.4 | mg/L | 9.20 | 0.37% |
| Ca 315.887 R† | 877628.2 | 51.901 | mg/L | 0.0082 | 62306 | mg/L | 9.9 | 0.02% |
| Fe_1 273.955† | 55661.7 | 1.0801 | mg/L | 0.00190 | 1296.7 | mg/L | 2.28 | 0.18% |
| Fe_2 238.863 R† | 1100.5 | 1.1016 | mg/L | 0.00557 | 1322.4 | mg/L | 6.69 | 0.51% |
| Mg 279.077 R† | 109497.3 | 52.875 | mg/L | 0.0227 | 63475 | mg/L | 27.3 | 0.04% |
| Na_1 589.592 R† | 493002.4 | 49.678 | mg/L | 0.0154 | 59637 | mg/L | 18.5 | 0.03% |
| Na_2 330.237 R† | 3422.2 | 49.787 | mg/L | 0.4290 | 59768 | mg/L | 515.0 | 0.86% |
| Zn 206.200† | 18218.5 | 0.53870 | mg/L | 0.001758 | 646.70 | mg/L | 2.111 | 0.33% |

Sequence No.: 37
Sample ID: H87JAL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 7/18/2006 12:08:55 PM
Data Type: Reprocessed on 7/18/2006 2:03:32 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H87JAL

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 383941.4 | 91.491 | % | 1.1046 | | | | 1.21% |
| In Radial | 17356.7 | 97.702 | % | 0.1330 | | | | 0.14% |
| Y_ Axial | 1871559.2 | 93.040 | % | 1.1893 | | | | 1.28% |
| Y_ Radial | 203086.6 | 99.399 | % | 1.2885 | | | | 1.30% |
| Sc Axial | 3652668.9 | 93.821 | % | 1.1964 | | | | 1.28% |
| Sc Radial | 386282.7 | 100.68 | % | 1.283 | | | | 1.27% |
| Al_1 396.153 R† | 26090.7 | 2.1324 | mg/L | 0.00436 | 2559.9 | mg/L | 5.23 | 0.20% |
| Al_2 308.215 R† | 6975.1 | 2.0717 | mg/L | 0.03429 | 2487.0 | mg/L | 41.17 | 1.66% |
| Ca 315.887 R† | 882561.8 | 52.193 | mg/L | 0.0631 | 62655 | mg/L | 75.8 | 0.12% |
| Fe_1 273.955† | 55710.4 | 1.0811 | mg/L | 0.00097 | 1297.8 | mg/L | 1.17 | 0.09% |
| Fe_2 238.863 R† | 1092.2 | 1.0933 | mg/L | 0.02354 | 1312.5 | mg/L | 28.26 | 2.15% |
| Mg 279.077 R† | 109876.9 | 53.058 | mg/L | 0.0584 | 63695 | mg/L | 70.1 | 0.11% |
| Na_1 589.592 R† | 496366.2 | 50.017 | mg/L | 0.0424 | 60044 | mg/L | 50.9 | 0.08% |
| Na_2 330.237 R† | 3392.0 | 49.344 | mg/L | 0.8126 | 59236 | mg/L | 975.6 | 1.65% |
| Zn 206.200† | 18044.0 | 0.53354 | mg/L | 0.001350 | 640.50 | mg/L | 1.621 | 0.25% |

Sequence No.: 38
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/18/2006 12:11:53 PM
Data Type: Reprocessed on 7/18/2006 2:03:35 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 383726.9 | 91.440 | % | 1.2592 | | | | 1.38% |
| In Radial | 17030.8 | 95.867 | % | 0.9237 | | | | 0.96% |
| Y_ Axial | 1887523.5 | 93.833 | % | 0.9957 | | | | 1.06% |
| Y_ Radial | 197513.2 | 96.671 | % | 0.5804 | | | | 0.60% |
| Sc Axial | 3666990.9 | 94.189 | % | 0.0221 | | | | 0.02% |
| Sc Radial | 374242.7 | 97.545 | % | 0.7213 | | | | 0.74% |
| Al_1 396.153 R† | 312399.0 | 25.532 | mg/L | 0.1801 | 25.532 | mg/L | 0.1801 | 0.71% |
| Al_2 308.215 R† | 86288.1 | 25.629 | mg/L | 0.0128 | 25.629 | mg/L | 0.0128 | 0.05% |
| Ca 315.887 R† | 449845.3 | 26.603 | mg/L | 0.1405 | 26.603 | mg/L | 0.1405 | 0.53% |
| Fe_1 273.955† | 1347128.8 | 26.141 | mg/L | 0.0866 | 26.141 | mg/L | 0.0866 | 0.33% |
| Fe_2 238.863 R† | 26452.9 | 26.480 | mg/L | 0.0529 | 26.480 | mg/L | 0.0529 | 0.20% |
| Mg 279.077 R† | 55537.2 | 26.818 | mg/L | 0.1894 | 26.818 | mg/L | 0.1894 | 0.71% |
| Na_1 589.592 R† | 251901.2 | 25.383 | mg/L | 0.2127 | 25.383 | mg/L | 0.2127 | 0.84% |
| Na_2 330.237 R† | 1888.5 | 26.277 | mg/L | 1.4258 | 26.277 | mg/L | 1.4258 | 5.43% |
| Zn 206.200† | 88458.1 | 2.6156 | mg/L | 0.01055 | 2.6156 | mg/L | 0.01055 | 0.40% |

Sequence No.: 39
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 12:14:14 PM
Data Type: Reprocessed on 7/18/2006 2:03:39 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 421453.5 | 100.43 | % | 0.952 | | | | 0.95% |
| In Radial | 17937.0 | 100.97 | % | 0.169 | | | | 0.17% |
| Y_ Axial | 2016078.6 | 100.22 | % | 0.944 | | | | 0.94% |
| Y_ Radial | 208873.7 | 102.23 | % | 0.909 | | | | 0.89% |
| Sc Axial | 3903889.0 | 100.27 | % | 0.982 | | | | 0.98% |
| Sc Radial | 392087.5 | 102.20 | % | 0.894 | | | | 0.87% |
| Al_1 396.153 R† | 54.0 | 0.00442 | mg/L | 0.002378 | 0.00442 | mg/L | 0.002378 | 53.85% |
| Al_2 308.215 R† | 20.5 | 0.00608 | mg/L | 0.000957 | 0.00608 | mg/L | 0.000957 | 15.75% |
| Ca 315.887 R† | 54.0 | 0.00319 | mg/L | 0.001122 | 0.00319 | mg/L | 0.001122 | 35.17% |
| Fe_1 273.955† | 193.2 | 0.00375 | mg/L | 0.002189 | 0.00375 | mg/L | 0.002189 | 58.40% |
| Fe_2 238.863 R† | -7.0 | -0.00700 | mg/L | 0.012283 | -0.00700 | mg/L | 0.012283 | 175.53% |
| Mg 279.077 R† | 4.1 | 0.00197 | mg/L | 0.003192 | 0.00197 | mg/L | 0.003192 | 162.21% |
| Na_1 589.592 R† | 254.9 | 0.02568 | mg/L | 0.012756 | 0.02568 | mg/L | 0.012756 | 49.66% |
| Na_2 330.237 R† | -25.3 | -0.37205 | mg/L | 0.128352 | -0.37205 | mg/L | 0.128352 | 34.50% |
| Zn 206.200† | 8.1 | 0.00024 | mg/L | 0.000050 | 0.00024 | mg/L | 0.000050 | 20.89% |

Sequence No.: 40
Sample ID: H87JAC
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 7/18/2006 12:17:50 PM
Data Type: Reprocessed on 7/18/2006 2:03:39 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H87JAC

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 387078.3 | 92.239 | % | 0.3000 | | | | 0.33% |
| In Radial | 17430.0 | 98.114 | % | 0.2281 | | | | 0.23% |
| Y_ Axial | 1903790.9 | 94.642 | % | 0.7678 | | | | 0.81% |
| Y_ Radial | 202432.6 | 99.078 | % | 1.9189 | | | | 1.94% |
| Sc Axial | 3715539.1 | 95.436 | % | 0.8148 | | | | 0.85% |
| Sc Radial | 385410.5 | 100.46 | % | 2.084 | | | | 2.07% |
| Al_1 396.153 R† | 25762.1 | 2.1055 | mg/L | 0.00892 | 2527.6 | mg/L | 10.71 | 0.42% |
| Al_2 308.215 R† | 6929.5 | 2.0582 | mg/L | 0.04476 | 2470.8 | mg/L | 53.73 | 2.17% |
| Ca 315.887 R† | 872708.1 | 51.610 | mg/L | 0.2015 | 61957 | mg/L | 241.9 | 0.39% |
| Fe_1 273.955† | 54743.5 | 1.0623 | mg/L | 0.00944 | 1275.3 | mg/L | 11.33 | 0.89% |
| Fe_2 238.863 R† | 1082.3 | 1.0834 | mg/L | 0.02121 | 1300.6 | mg/L | 25.46 | 1.96% |
| Mg 279.077 R† | 108760.9 | 52.519 | mg/L | 0.4009 | 63048 | mg/L | 481.2 | 0.76% |
| Na_1 589.592 R† | 491261.0 | 49.502 | mg/L | 0.0140 | 59427 | mg/L | 16.8 | 0.03% |
| Na_2 330.237 R† | 3395.2 | 49.396 | mg/L | 0.6917 | 59298 | mg/L | 830.4 | 1.40% |
| Zn 206.200† | 17928.8 | 0.53013 | mg/L | 0.006481 | 636.42 | mg/L | 7.780 | 1.22% |

Sequence No.: 41
Sample ID: H87JAL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 7/18/2006 12:20:48 PM
Data Type: Reprocessed on 7/18/2006 2:03:43 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H87JAL

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 388452.6 | 92.566 | % | 0.3476 | | | | 0.38% |
| In Radial | 17604.5 | 99.096 | % | 0.1716 | | | | 0.17% |
| Y_ Axial | 1938673.5 | 96.376 | % | 0.9667 | | | | 1.00% |
| Y_ Radial | 201450.2 | 98.598 | % | 0.2355 | | | | 0.24% |
| Sc Axial | 3785443.7 | 97.232 | % | 1.0343 | | | | 1.06% |
| Sc Radial | 383789.1 | 100.03 | % | 0.232 | | | | 0.23% |
| Al_1 396.153 R† | 26045.1 | 2.1286 | mg/L | 0.00968 | 2555.4 | mg/L | 11.63 | 0.45% |
| Al_2 308.215 R† | 7100.8 | 2.1090 | mg/L | 0.00508 | 2531.8 | mg/L | 6.10 | 0.24% |
| Ca 315.887 R† | 886279.0 | 52.412 | mg/L | 0.1368 | 62920 | mg/L | 164.2 | 0.26% |
| Fe_1 273.955† | 54588.8 | 1.0593 | mg/L | 0.00778 | 1271.7 | mg/L | 9.34 | 0.73% |
| Fe_2 238.863 R† | 1107.7 | 1.1088 | mg/L | 0.01457 | 1331.1 | mg/L | 17.49 | 1.31% |
| Mg 279.077 R† | 110477.0 | 53.348 | mg/L | 0.1043 | 64043 | mg/L | 125.2 | 0.20% |
| Na_1 589.592 R† | 498445.7 | 50.226 | mg/L | 0.0153 | 60296 | mg/L | 18.4 | 0.03% |
| Na_2 330.237 R† | 3465.8 | 50.431 | mg/L | 0.4022 | 60541 | mg/L | 482.8 | 0.80% |
| Zn 206.200† | 17867.9 | 0.52833 | mg/L | 0.003205 | 634.25 | mg/L | 3.847 | 0.61% |

Sequence No.: 42
Sample ID: H8QTL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 7/18/2006 12:23:46 PM
Data Type: Reprocessed on 7/18/2006 2:03:46 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTL

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 429081.0 | 102.25 | % | 0.547 | | | | 0.53% |
| In Radial | 18368.5 | 103.40 | % | 0.417 | | | | 0.40% |
| Y_ Axial | 2057969.2 | 102.31 | % | 0.618 | | | | 0.60% |
| Y_ Radial | 215602.9 | 105.52 | % | 0.037 | | | | 0.03% |
| Sc Axial | 3988724.9 | 102.45 | % | 0.607 | | | | 0.59% |
| Sc Radial | 405300.5 | 105.64 | % | 0.048 | | | | 0.05% |
| Al_1 396.153 R† | 4818.4 | 0.39381 | mg/L | 0.003519 | 472.76 | mg/L | 4.224 | 0.89% |
| Al_2 308.215 R† | 1291.7 | 0.38364 | mg/L | 0.002452 | 460.56 | mg/L | 2.943 | 0.64% |
| Ca 315.887 R† | 14567.3 | 0.86148 | mg/L | 0.007067 | 1034.2 | mg/L | 8.48 | 0.82% |
| Fe_1 273.955† | 23056.2 | 0.44741 | mg/L | 0.004805 | 537.10 | mg/L | 5.768 | 1.07% |
| Fe_2 238.863 R† | 440.9 | 0.44138 | mg/L | 0.007418 | 529.86 | mg/L | 8.905 | 1.68% |
| Mg 279.077 R† | 600.8 | 0.29011 | mg/L | 0.006244 | 348.27 | mg/L | 7.496 | 2.15% |
| Na_1 589.592 R† | 6645.9 | 0.66969 | mg/L | 0.006058 | 803.95 | mg/L | 7.272 | 0.90% |
| Na_2 330.237 R† | 23.8 | 0.34335 | mg/L | 0.114858 | 412.19 | mg/L | 137.885 | 33.45% |
| Zn 206.200† | 272.9 | 0.00807 | mg/L | 0.000094 | 9.6863 | mg/L | 0.11235 | 1.16% |

Sequence No.: 43
Sample ID: H8QTLP5
Analyst: AWW
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 65
Date Collected: 7/18/2006 12:27:54 PM
Data Type: Reprocessed on 7/18/2006 2:03:50 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTLP5

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 413041.9 | 98.426 | % | 1.9843 | | | | 2.02% |
| In Radial | 17878.8 | 100.64 | % | 1.161 | | | | 1.15% |
| Y_ Axial | 1986984.9 | 98.778 | % | 1.9886 | | | | 2.01% |
| Y_ Radial | 210319.6 | 102.94 | % | 1.623 | | | | 1.58% |
| Sc Axial | 3846700.8 | 98.805 | % | 1.9813 | | | | 2.01% |
| Sc Radial | 395233.9 | 103.02 | % | 1.722 | | | | 1.67% |
| Al_1 396.153 R† | 1081.1 | 0.08836 | mg/L | 0.008962 | 530.38 | mg/L | 53.792 | 10.14% |
| Al_2 308.215 R† | 246.8 | 0.07329 | mg/L | 0.001266 | 439.93 | mg/L | 7.597 | 1.73% |
| Ca 315.887 R† | 2905.5 | 0.17183 | mg/L | 0.001681 | 1031.4 | mg/L | 10.09 | 0.98% |
| Fe_1 273.955† | 4652.8 | 0.09029 | mg/L | 0.002319 | 541.94 | mg/L | 13.920 | 2.57% |
| Fe_2 238.863 R† | 86.3 | 0.08639 | mg/L | 0.001390 | 518.54 | mg/L | 8.344 | 1.61% |
| Mg 279.077 R† | 112.8 | 0.05445 | mg/L | 0.003262 | 326.81 | mg/L | 19.582 | 5.99% |
| Na_1 589.592 R† | 1576.1 | 0.15882 | mg/L | 0.006232 | 953.30 | mg/L | 37.407 | 3.92% |
| Na_2 330.237 R† | 1.9 | 0.02602 | mg/L | 0.199774 | 156.19 | mg/L | 1199.125 | 767.72% |
| Zn 206.200† | 83.8 | 0.00248 | mg/L | 0.000109 | 14.866 | mg/L | 0.6568 | 4.42% |

Sequence No.: 44
Sample ID: H8QTLZ
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 7/18/2006 12:31:28 PM
Data Type: Reprocessed on 7/18/2006 2:03:51 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTLZ

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 383472.1 | 91.380 | % | 0.4391 | | | | 0.48% |
| In Radial | 17527.3 | 98.662 | % | 0.0245 | | | | 0.02% |
| Y_ Axial | 1914091.0 | 95.154 | % | 0.7076 | | | | 0.74% |
| Y_ Radial | 203920.5 | 99.807 | % | 0.6050 | | | | 0.61% |
| Sc Axial | 3735108.7 | 95.939 | % | 0.7051 | | | | 0.73% |
| Sc Radial | 388933.1 | 101.37 | % | 0.527 | | | | 0.52% |
| Al_1 396.153 R† | 30505.8 | 2.4932 | mg/L | 0.01587 | 2993.1 | mg/L | 19.06 | 0.64% |
| Al_2 308.215 R† | 8274.0 | 2.4575 | mg/L | 0.01780 | 2950.2 | mg/L | 21.36 | 0.72% |
| Ca 315.887 R† | 899048.4 | 53.168 | mg/L | 0.0270 | 63827 | mg/L | 32.4 | 0.05% |
| Fe_1 273.955† | 76583.5 | 1.4861 | mg/L | 0.00733 | 1784.0 | mg/L | 8.79 | 0.49% |
| Fe_2 238.863 R† | 1511.4 | 1.5129 | mg/L | 0.00535 | 1816.2 | mg/L | 6.42 | 0.35% |
| Mg 279.077 R† | 111072.5 | 53.635 | mg/L | 0.0633 | 64388 | mg/L | 76.0 | 0.12% |
| Na_1 589.592 R† | 508705.8 | 51.260 | mg/L | 0.0451 | 61537 | mg/L | 54.1 | 0.09% |
| Na_2 330.237 R† | 3446.3 | 50.138 | mg/L | 0.1760 | 60190 | mg/L | 211.3 | 0.35% |
| Zn 206.200† | 18068.0 | 0.53425 | mg/L | 0.000002 | 641.35 | mg/L | 0.002 | 0.00% |

Sequence No.: 45
Sample ID: H8QTN
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 7/18/2006 12:34:58 PM
Data Type: Reprocessed on 7/18/2006 2:03:54 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTN

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 426078.0 | 101.53 | % | 0.021 | | | | 0.02% |
| In Radial | 18285.3 | 102.93 | % | 0.040 | | | | 0.04% |
| Y_ Axial | 2047096.1 | 101.77 | % | 0.216 | | | | 0.21% |
| Y_ Radial | 217995.4 | 106.70 | % | 1.458 | | | | 1.37% |
| Sc Axial | 3967126.1 | 101.90 | % | 0.131 | | | | 0.13% |
| Sc Radial | 409887.2 | 106.84 | % | 1.460 | | | | 1.37% |
| Al_1 396.153 R† | 6839.5 | 0.55898 | mg/L | 0.009337 | 671.05 | mg/L | 11.208 | 1.67% |
| Al_2 308.215 R† | 1799.8 | 0.53457 | mg/L | 0.009170 | 641.74 | mg/L | 11.009 | 1.72% |
| Ca 315.887 R† | 15283.9 | 0.90386 | mg/L | 0.004062 | 1085.1 | mg/L | 4.88 | 0.45% |
| Fe_1 273.955† | 27960.7 | 0.54258 | mg/L | 0.003296 | 651.36 | mg/L | 3.957 | 0.61% |
| Fe_2 238.863 R† | 518.1 | 0.51864 | mg/L | 0.015690 | 622.62 | mg/L | 18.836 | 3.03% |
| Mg 279.077 R† | 694.1 | 0.33517 | mg/L | 0.007614 | 402.37 | mg/L | 9.141 | 2.27% |
| Na_1 589.592 R† | 6667.0 | 0.67181 | mg/L | 0.007837 | 806.49 | mg/L | 9.408 | 1.17% |
| Na_2 330.237 R† | 33.0 | 0.47932 | mg/L | 0.286308 | 575.41 | mg/L | 343.707 | 59.73% |
| Zn 206.200† | 262.6 | 0.00776 | mg/L | 0.000161 | 9.3205 | mg/L | 0.19379 | 2.08% |

Sequence No.: 46
Sample ID: H8QTQ
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 7/18/2006 12:38:34 PM
Data Type: Reprocessed on 7/18/2006 2:03:58 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTQ

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 420641.0 | 100.24 | % | 0.707 | | | | 0.71% |
| In Radial | 17958.3 | 101.09 | % | 0.565 | | | | 0.56% |
| Y_ Axial | 2038696.0 | 101.35 | % | 0.163 | | | | 0.16% |
| Y_ Radial | 213190.7 | 104.34 | % | 1.368 | | | | 1.31% |
| Sc Axial | 3959773.6 | 101.71 | % | 0.094 | | | | 0.09% |
| Sc Radial | 400280.8 | 104.33 | % | 1.488 | | | | 1.43% |
| Al_1 396.153 R† | 4220.2 | 0.34492 | mg/L | 0.000164 | 414.07 | mg/L | 0.197 | 0.05% |
| Al_2 308.215 R† | 1135.6 | 0.33729 | mg/L | 0.002710 | 404.91 | mg/L | 3.253 | 0.80% |
| Ca 315.887 R† | 15678.7 | 0.92720 | mg/L | 0.007017 | 1113.1 | mg/L | 8.42 | 0.76% |
| Fe_1 273.955† | 20812.8 | 0.40387 | mg/L | 0.001289 | 484.84 | mg/L | 1.547 | 0.32% |
| Fe_2 238.863 R† | 396.5 | 0.39690 | mg/L | 0.012332 | 476.47 | mg/L | 14.804 | 3.11% |
| Mg 279.077 R† | 577.0 | 0.27863 | mg/L | 0.012518 | 334.50 | mg/L | 15.027 | 4.49% |
| Na_1 589.592 R† | 6335.0 | 0.63835 | mg/L | 0.021415 | 766.33 | mg/L | 25.708 | 3.35% |
| Na_2 330.237 R† | 31.5 | 0.45487 | mg/L | 0.208973 | 546.07 | mg/L | 250.868 | 45.94% |
| Zn 206.200† | 294.7 | 0.00871 | mg/L | 0.000060 | 10.461 | mg/L | 0.0723 | 0.69% |

Sequence No.: 47
Sample ID: H8QTT
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 7/18/2006 12:42:12 PM
Data Type: Reprocessed on 7/18/2006 2:03:59 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTT

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 427146.7 | 101.79 | % | 0.826 | | | | 0.81% |
| In Radial | 18262.3 | 102.80 | % | 0.524 | | | | 0.51% |
| Y_ Axial | 2028922.1 | 100.86 | % | 1.392 | | | | 1.38% |
| Y_ Radial | 213572.9 | 104.53 | % | 1.753 | | | | 1.68% |
| Sc Axial | 3940933.3 | 101.23 | % | 1.364 | | | | 1.35% |
| Sc Radial | 400967.4 | 104.51 | % | 1.816 | | | | 1.74% |
| Al_1 396.153 R† | 6120.2 | 0.50020 | mg/L | 0.001620 | 600.48 | mg/L | 1.945 | 0.32% |
| Al_2 308.215 R† | 1656.9 | 0.49214 | mg/L | 0.003242 | 590.80 | mg/L | 3.892 | 0.66% |
| Ca 315.887 R† | 19202.0 | 1.1356 | mg/L | 0.00661 | 1363.2 | mg/L | 7.94 | 0.58% |
| Fe_1 273.955† | 32091.8 | 0.62274 | mg/L | 0.001447 | 747.59 | mg/L | 1.737 | 0.23% |
| Fe_2 238.863 R† | 601.4 | 0.60197 | mg/L | 0.020617 | 722.65 | mg/L | 24.751 | 3.42% |
| Mg 279.077 R† | 847.5 | 0.40923 | mg/L | 0.001221 | 491.27 | mg/L | 1.465 | 0.30% |
| Na_1 589.592 R† | 7235.6 | 0.72910 | mg/L | 0.005814 | 875.27 | mg/L | 6.979 | 0.80% |
| Na_2 330.237 R† | 27.9 | 0.39943 | mg/L | 0.098421 | 479.50 | mg/L | 118.152 | 24.64% |
| Zn 206.200† | 449.0 | 0.01328 | mg/L | 0.000268 | 15.937 | mg/L | 0.3222 | 2.02% |

Sequence No.: 48
Sample ID: H8QTV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 7/18/2006 12:45:53 PM
Data Type: Reprocessed on 7/18/2006 2:04:00 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 424891.6 | 101.25 | % | 0.173 | | | | 0.17% |
| In Radial | 18134.6 | 102.08 | % | 0.524 | | | | 0.51% |
| Y_ Axial | 2060874.2 | 102.45 | % | 0.474 | | | | 0.46% |
| Y_ Radial | 214228.2 | 104.85 | % | 0.557 | | | | 0.53% |
| Sc Axial | 4004626.5 | 102.86 | % | 0.445 | | | | 0.43% |
| Sc Radial | 402810.6 | 104.99 | % | 0.782 | | | | 0.75% |
| Al_1 396.153 R† | 4200.1 | 0.34327 | mg/L | 0.008856 | 412.09 | mg/L | 10.632 | 2.58% |
| Al_2 308.215 R† | 1133.6 | 0.33668 | mg/L | 0.006826 | 404.18 | mg/L | 8.194 | 2.03% |
| Ca 315.887 R† | 13598.2 | 0.80417 | mg/L | 0.003632 | 965.39 | mg/L | 4.360 | 0.45% |
| Fe_1 273.955† | 21552.1 | 0.41822 | mg/L | 0.000983 | 502.06 | mg/L | 1.180 | 0.24% |
| Fe_2 238.863 R† | 409.7 | 0.41008 | mg/L | 0.001178 | 492.30 | mg/L | 1.414 | 0.29% |
| Mg 279.077 R† | 536.6 | 0.25913 | mg/L | 0.001230 | 311.08 | mg/L | 1.476 | 0.47% |
| Na_1 589.592 R† | 6244.7 | 0.62925 | mg/L | 0.012473 | 755.41 | mg/L | 14.974 | 1.98% |
| Na_2 330.237 R† | 20.3 | 0.29262 | mg/L | 0.152837 | 351.28 | mg/L | 183.478 | 52.23% |
| Zn 206.200† | 225.9 | 0.00668 | mg/L | 0.000022 | 8.0185 | mg/L | 0.02596 | 0.32% |

Sequence No.: 49
Sample ID: H8QTW
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 7/18/2006 12:49:33 PM
Data Type: Reprocessed on 7/18/2006 2:04:03 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTW

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 418780.6 | 99.793 | % | 0.4839 | | | | 0.48% |
| In Radial | 18089.8 | 101.83 | % | 0.484 | | | | 0.48% |
| Y_ Axial | 2012298.3 | 100.04 | % | 0.455 | | | | 0.45% |
| Y_ Radial | 210109.1 | 102.84 | % | 2.151 | | | | 2.09% |
| Sc Axial | 3897540.9 | 100.11 | % | 0.478 | | | | 0.48% |
| Sc Radial | 394593.8 | 102.85 | % | 2.131 | | | | 2.07% |
| Al_1 396.153 R† | 5322.9 | 0.43504 | mg/L | 0.001452 | 522.25 | mg/L | 1.744 | 0.33% |
| Al_2 308.215 R† | 1447.7 | 0.42998 | mg/L | 0.008859 | 516.19 | mg/L | 10.635 | 2.06% |
| Ca 315.887 R† | 13705.4 | 0.81051 | mg/L | 0.006170 | 973.00 | mg/L | 7.407 | 0.76% |
| Fe_1 273.955† | 24925.8 | 0.48369 | mg/L | 0.004550 | 580.66 | mg/L | 5.462 | 0.94% |
| Fe_2 238.863 R† | 474.0 | 0.47444 | mg/L | 0.010210 | 569.56 | mg/L | 12.257 | 2.15% |
| Mg 279.077 R† | 619.0 | 0.29892 | mg/L | 0.000085 | 358.85 | mg/L | 0.103 | 0.03% |
| Na_1 589.592 R† | 6179.0 | 0.62263 | mg/L | 0.018818 | 747.46 | mg/L | 22.591 | 3.02% |
| Na_2 330.237 R† | 31.2 | 0.45288 | mg/L | 0.152271 | 543.68 | mg/L | 182.799 | 33.62% |
| Zn 206.200† | 270.3 | 0.00799 | mg/L | 0.000013 | 9.5953 | mg/L | 0.01526 | 0.16% |

Sequence No.: 50
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/18/2006 12:53:08 PM
Data Type: Reprocessed on 7/18/2006 2:04:04 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 374161.0 | 89.161 | % | 0.1627 | | | | 0.18% |
| In Radial | 16799.8 | 94.567 | % | 1.9742 | | | | 2.09% |
| Y_ Axial | 1850014.8 | 91.969 | % | 0.1725 | | | | 0.19% |
| Y_ Radial | 196745.2 | 96.295 | % | 1.2784 | | | | 1.33% |
| Sc Axial | 3673330.5 | 94.352 | % | 1.0614 | | | | 1.12% |
| Sc Radial | 371943.0 | 96.946 | % | 1.4216 | | | | 1.47% |
| Al_1 396.153 R† | 317462.0 | 25.946 | mg/L | 0.0244 | 25.946 | mg/L | 0.0244 | 0.09% |
| Al_2 308.215 R† | 86912.8 | 25.814 | mg/L | 0.0206 | 25.814 | mg/L | 0.0206 | 0.08% |
| Ca 315.887 R† | 450121.6 | 26.619 | mg/L | 0.0641 | 26.619 | mg/L | 0.0641 | 0.24% |
| Fe_1 273.955† | 1350568.4 | 26.208 | mg/L | 0.0653 | 26.208 | mg/L | 0.0653 | 0.25% |
| Fe_2 238.863 R† | 26577.9 | 26.605 | mg/L | 0.0595 | 26.605 | mg/L | 0.0595 | 0.22% |
| Mg 279.077 R† | 55516.1 | 26.808 | mg/L | 0.0846 | 26.808 | mg/L | 0.0846 | 0.32% |
| Na_1 589.592 R† | 252867.2 | 25.480 | mg/L | 0.0541 | 25.480 | mg/L | 0.0541 | 0.21% |
| Na_2 330.237 R† | 1897.4 | 26.413 | mg/L | 0.3571 | 26.413 | mg/L | 0.3571 | 1.35% |
| Zn 206.200† | 88208.7 | 2.6082 | mg/L | 0.00443 | 2.6082 | mg/L | 0.00443 | 0.17% |

Sequence No.: 51
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 12:55:30 PM
Data Type: Reprocessed on 7/18/2006 2:04:08 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 412601.5 | 98.321 | % | 0.0794 | | | | 0.08% |
| In Radial | 17731.7 | 99.812 | % | 0.3428 | | | | 0.34% |
| Y_ Axial | 1980165.9 | 98.439 | % | 0.1497 | | | | 0.15% |
| Y_ Radial | 200417.9 | 98.092 | % | 0.8983 | | | | 0.92% |
| Sc Axial | 3832345.1 | 98.437 | % | 0.1121 | | | | 0.11% |
| Sc Radial | 375261.4 | 97.811 | % | 0.9890 | | | | 1.01% |
| Al_1 396.153 R† | 89.1 | 0.00728 | mg/L | 0.008077 | 0.00728 | mg/L | 0.008077 | 110.96% |
| Al_2 308.215 R† | 6.3 | 0.00186 | mg/L | 0.000955 | 0.00186 | mg/L | 0.000955 | 51.33% |
| Ca 315.887 R† | 13.6 | 0.00080 | mg/L | 0.002194 | 0.00080 | mg/L | 0.002194 | 272.58% |
| Fe_1 273.955† | 184.2 | 0.00357 | mg/L | 0.002403 | 0.00357 | mg/L | 0.002403 | 67.23% |
| Fe_2 238.863 R† | -4.5 | -0.00450 | mg/L | 0.003886 | -0.00450 | mg/L | 0.003886 | 86.29% |
| Mg 279.077 R† | 11.3 | 0.00544 | mg/L | 0.002726 | 0.00544 | mg/L | 0.002726 | 50.11% |
| Na_1 589.592 R† | 216.7 | 0.02184 | mg/L | 0.002308 | 0.02184 | mg/L | 0.002308 | 10.57% |
| Na_2 330.237 R† | -5.0 | -0.07336 | mg/L | 0.114981 | -0.07336 | mg/L | 0.114981 | 156.73% |
| Zn 206.200† | 7.8 | 0.00023 | mg/L | 0.000160 | 0.00023 | mg/L | 0.000160 | 69.13% |

Sequence No.: 52
Sample ID: H8QTX
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 7/18/2006 12:59:04 PM
Data Type: Reprocessed on 7/18/2006 2:04:12 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QTX

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 424704.3 | 101.20 | % | 1.191 | | | | 1.18% |
| In Radial | 18265.7 | 102.82 | % | 1.120 | | | | 1.09% |
| Y_ Axial | 2026925.0 | 100.76 | % | 1.427 | | | | 1.42% |
| Y_ Radial | 217070.7 | 106.24 | % | 2.158 | | | | 2.03% |
| Sc Axial | 3936035.2 | 101.10 | % | 1.431 | | | | 1.42% |
| Sc Radial | 408198.8 | 106.40 | % | 2.282 | | | | 2.14% |
| Al_1 396.153 R† | 4798.3 | 0.39216 | mg/L | 0.000922 | 470.78 | mg/L | 1.106 | 0.24% |
| Al_2 308.215 R† | 1299.5 | 0.38598 | mg/L | 0.007611 | 463.36 | mg/L | 9.137 | 1.97% |
| Ca 315.887 R† | 13314.1 | 0.78736 | mg/L | 0.003650 | 945.21 | mg/L | 4.382 | 0.46% |
| Fe_1 273.955† | 23235.1 | 0.45088 | mg/L | 0.004009 | 541.27 | mg/L | 4.813 | 0.89% |
| Fe_2 238.863 R† | 433.1 | 0.43356 | mg/L | 0.006182 | 520.48 | mg/L | 7.421 | 1.43% |
| Mg 279.077 R† | 564.6 | 0.27266 | mg/L | 0.003527 | 327.32 | mg/L | 4.234 | 1.29% |
| Na_1 589.592 R† | 5973.8 | 0.60196 | mg/L | 0.019747 | 722.64 | mg/L | 23.706 | 3.28% |
| Na_2 330.237 R† | 21.5 | 0.30958 | mg/L | 0.217332 | 371.64 | mg/L | 260.902 | 70.20% |
| Zn 206.200† | 258.4 | 0.00764 | mg/L | 0.000042 | 9.1736 | mg/L | 0.05036 | 0.55% |

Sequence No.: 53
Sample ID: H8QT1
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 7/18/2006 1:02:42 PM
Data Type: Reprocessed on 7/18/2006 2:04:16 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT1

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 426131.7 | 101.55 | % | 0.063 | | | | 0.06% |
| In Radial | 18431.8 | 103.75 | % | 0.307 | | | | 0.30% |
| Y_ Axial | 2044625.9 | 101.64 | % | 0.085 | | | | 0.08% |
| Y_ Radial | 211618.9 | 103.57 | % | 2.097 | | | | 2.02% |
| Sc Axial | 3964841.8 | 101.84 | % | 0.017 | | | | 0.02% |
| Sc Radial | 397727.2 | 103.67 | % | 2.097 | | | | 2.02% |
| Al_1 396.153 R† | 13563.1 | 1.1085 | mg/L | 0.00165 | 1330.7 | mg/L | 1.98 | 0.15% |
| Al_2 308.215 R† | 3741.0 | 1.1111 | mg/L | 0.02095 | 1333.9 | mg/L | 25.15 | 1.89% |
| Ca 315.887 R† | 29223.8 | 1.7282 | mg/L | 0.02968 | 2074.7 | mg/L | 35.63 | 1.72% |
| Fe_1 273.955† | 64865.7 | 1.2587 | mg/L | 0.00598 | 1511.1 | mg/L | 7.18 | 0.48% |
| Fe_2 238.863 R† | 1247.9 | 1.2492 | mg/L | 0.02406 | 1499.6 | mg/L | 28.89 | 1.93% |
| Mg 279.077 R† | 1542.1 | 0.74465 | mg/L | 0.019825 | 893.93 | mg/L | 23.800 | 2.66% |
| Na_1 589.592 R† | 6912.1 | 0.69650 | mg/L | 0.007887 | 836.14 | mg/L | 9.469 | 1.13% |
| Na_2 330.237 R† | 0.0 | -0.00998 | mg/L | 0.121927 | -11.978 | mg/L | 146.3705 | >999.9% |
| Zn 206.200† | 420.3 | 0.01243 | mg/L | 0.000028 | 14.919 | mg/L | 0.0340 | 0.23% |

Sequence No.: 54
Sample ID: H8QT2
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 7/18/2006 1:06:16 PM
Data Type: Reprocessed on 7/18/2006 2:04:17 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 421483.1 | 100.44 | % | 0.529 | | | | 0.53% |
| In Radial | 18270.3 | 102.84 | % | 0.748 | | | | 0.73% |
| Y_ Axial | 2021322.9 | 100.48 | % | 0.476 | | | | 0.47% |
| Y_ Radial | 213391.6 | 104.44 | % | 0.799 | | | | 0.76% |
| Sc Axial | 3920031.4 | 100.69 | % | 0.464 | | | | 0.46% |
| Sc Radial | 400901.0 | 104.49 | % | 0.888 | | | | 0.85% |
| Al_1 396.153 R† | 15385.8 | 1.2575 | mg/L | 0.00587 | 1509.6 | mg/L | 7.04 | 0.47% |
| Al_2 308.215 R† | 4182.7 | 1.2423 | mg/L | 0.00231 | 1491.4 | mg/L | 2.77 | 0.19% |
| Ca 315.887 R† | 28502.8 | 1.6856 | mg/L | 0.00204 | 2023.5 | mg/L | 2.44 | 0.12% |
| Fe_1 273.955† | 64566.8 | 1.2529 | mg/L | 0.00592 | 1504.1 | mg/L | 7.11 | 0.47% |
| Fe_2 238.863 R† | 1230.2 | 1.2314 | mg/L | 0.00335 | 1478.3 | mg/L | 4.02 | 0.27% |
| Mg 279.077 R† | 1542.8 | 0.74498 | mg/L | 0.004643 | 894.33 | mg/L | 5.574 | 0.62% |
| Na_1 589.592 R† | 6875.3 | 0.69280 | mg/L | 0.007465 | 831.69 | mg/L | 8.962 | 1.08% |
| Na_2 330.237 R† | 14.0 | 0.19594 | mg/L | 0.078662 | 235.22 | mg/L | 94.433 | 40.15% |
| Zn 206.200† | 427.7 | 0.01265 | mg/L | 0.000021 | 15.183 | mg/L | 0.0247 | 0.16% |

Sequence No.: 55
Sample ID: H8QT3
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 7/18/2006 1:09:50 PM
Data Type: Reprocessed on 7/18/2006 2:04:21 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT3

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 428808.9 | 102.18 | % | 0.127 | | | | 0.12% |
| In Radial | 18169.3 | 102.28 | % | 0.474 | | | | 0.46% |
| Y_ Axial | 2053905.7 | 102.10 | % | 0.231 | | | | 0.23% |
| Y_ Radial | 211236.6 | 103.39 | % | 0.613 | | | | 0.59% |
| Sc Axial | 3985996.4 | 102.38 | % | 0.209 | | | | 0.20% |
| Sc Radial | 396970.2 | 103.47 | % | 0.697 | | | | 0.67% |
| Al_1 396.153 R† | 7996.5 | 0.65355 | mg/L | 0.014561 | 784.57 | mg/L | 17.480 | 2.23% |
| Al_2 308.215 R† | 2164.3 | 0.64283 | mg/L | 0.002285 | 771.71 | mg/L | 2.743 | 0.36% |
| Ca 315.887 R† | 24349.7 | 1.4400 | mg/L | 0.00389 | 1728.7 | mg/L | 4.67 | 0.27% |
| Fe_1 273.955† | 39423.8 | 0.76502 | mg/L | 0.005180 | 918.39 | mg/L | 6.218 | 0.68% |
| Fe_2 238.863 R† | 753.3 | 0.75404 | mg/L | 0.004868 | 905.21 | mg/L | 5.844 | 0.65% |
| Mg 279.077 R† | 1060.5 | 0.51210 | mg/L | 0.004959 | 614.77 | mg/L | 5.953 | 0.97% |
| Na_1 589.592 R† | 6500.5 | 0.65503 | mg/L | 0.000764 | 786.35 | mg/L | 0.917 | 0.12% |
| Na_2 330.237 R† | 17.3 | 0.24406 | mg/L | 0.361831 | 292.99 | mg/L | 434.371 | 148.25% |
| Zn 206.200† | 376.8 | 0.01114 | mg/L | 0.000211 | 13.374 | mg/L | 0.2538 | 1.90% |

Sequence No.: 56
Sample ID: H8QT5
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 7/18/2006 1:13:25 PM
Data Type: Reprocessed on 7/18/2006 2:04:27 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT5

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 418144.6 | 99.642 | % | 1.5828 | | | | 1.59% |
| In Radial | 18182.7 | 102.35 | % | 0.398 | | | | 0.39% |
| Y_ Axial | 2008806.5 | 99.863 | % | 1.6208 | | | | 1.62% |
| Y_ Radial | 214977.4 | 105.22 | % | 0.705 | | | | 0.67% |
| Sc Axial | 3895548.2 | 100.06 | % | 1.713 | | | | 1.71% |
| Sc Radial | 404353.0 | 105.39 | % | 0.763 | | | | 0.72% |
| Al_1 396.153 R† | 11857.2 | 0.96908 | mg/L | 0.011933 | 1163.4 | mg/L | 14.33 | 1.23% |
| Al_2 308.215 R† | 3173.3 | 0.94253 | mg/L | 0.001419 | 1131.5 | mg/L | 1.70 | 0.15% |
| Ca 315.887 R† | 32962.8 | 1.9493 | mg/L | 0.00101 | 2340.1 | mg/L | 1.21 | 0.05% |
| Fe_1 273.955† | 60359.7 | 1.1713 | mg/L | 0.00689 | 1406.1 | mg/L | 8.27 | 0.59% |
| Fe_2 238.863 R† | 1136.5 | 1.1376 | mg/L | 0.01744 | 1365.7 | mg/L | 20.94 | 1.53% |
| Mg 279.077 R† | 1552.4 | 0.74964 | mg/L | 0.015757 | 899.93 | mg/L | 18.916 | 2.10% |
| Na_1 589.592 R† | 7502.6 | 0.75600 | mg/L | 0.011314 | 907.57 | mg/L | 13.582 | 1.50% |
| Na_2 330.237 R† | 24.8 | 0.34713 | mg/L | 0.266036 | 416.73 | mg/L | 319.370 | 76.64% |
| Zn 206.200† | 776.3 | 0.02295 | mg/L | 0.000289 | 27.555 | mg/L | 0.3464 | 1.26% |

**Sequence No.:** 57
**Sample ID:** H8QT6
**Analyst:** AWW
**Initial Sample Wt:**
**Dilution:**

**Autosampler Location:** 77
**Date Collected:** 7/18/2006 1:17:00 PM
**Data Type:** Reprocessed on 7/18/2006 2:04:27 PM
**Initial Sample Vol.:** 0.0833 mL
**Sample Prep Vol:** 100 mL

**Mean Data: H8QT6**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 414642.8 | 98.807 | % | 0.0027 | | | | 0.00% |
| In Radial | 18248.0 | 102.72 | % | 0.385 | | | | 0.38% |
| Y_ Axial | 1994012.6 | 99.127 | % | 0.0516 | | | | 0.05% |
| Y_ Radial | 214496.9 | 104.98 | % | 1.881 | | | | 1.79% |
| Sc Axial | 3865253.0 | 99.282 | % | 0.0008 | | | | 0.00% |
| Sc Radial | 402727.1 | 104.97 | % | 2.009 | | | | 1.91% |
| Al_1 396.153 R† | 10074.5 | 0.82338 | mg/L | 0.000943 | 988.45 | mg/L | 1.132 | 0.11% |
| Al_2 308.215 R† | 2721.6 | 0.80836 | mg/L | 0.006201 | 970.42 | mg/L | 7.444 | 0.77% |
| Ca 315.887 R† | 26257.9 | 1.5528 | mg/L | 0.00050 | 1864.1 | mg/L | 0.60 | 0.03% |
| Fe_1 273.955† | 51528.5 | 0.99991 | mg/L | 0.000411 | 1200.4 | mg/L | 0.49 | 0.04% |
| Fe_2 238.863 R† | 983.0 | 0.98399 | mg/L | 0.011563 | 1181.3 | mg/L | 13.88 | 1.18% |
| Mg 279.077 R† | 1200.8 | 0.57987 | mg/L | 0.005641 | 696.12 | mg/L | 6.771 | 0.97% |
| Na_1 589.592 R† | 7209.7 | 0.72650 | mg/L | 0.018526 | 872.14 | mg/L | 22.241 | 2.55% |
| Na_2 330.237 R† | 44.9 | 0.64937 | mg/L | 0.210954 | 779.55 | mg/L | 253.246 | 32.49% |
| Zn 206.200† | 505.3 | 0.01494 | mg/L | 0.000041 | 17.937 | mg/L | 0.0495 | 0.28% |

Sequence No.: 58
Sample ID: H8QT7
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 7/18/2006 1:21:31 PM
Data Type: Reprocessed on 7/18/2006 2:04:32 PM
Initial Sample Vol.: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT7

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 422782.9 | 100.75 | % | 0.100 | | | | 0.10% |
| In Radial | 18425.4 | 103.72 | % | 0.580 | | | | 0.56% |
| Y_ Axial | 2033474.2 | 101.09 | % | 0.037 | | | | 0.04% |
| Y_ Radial | 214844.0 | 105.15 | % | 1.286 | | | | 1.22% |
| Sc Axial | 3944932.2 | 101.33 | % | 0.025 | | | | 0.03% |
| Sc Radial | 404147.5 | 105.34 | % | 1.285 | | | | 1.22% |
| Al_1 396.153 R† | 13168.3 | 1.0762 | mg/L | 0.00891 | 1292.0 | mg/L | 10.70 | 0.83% |
| Al_2 308.215 R† | 3598.5 | 1.0688 | mg/L | 0.00788 | 1283.1 | mg/L | 9.45 | 0.74% |
| Ca 315.887 R† | 30193.6 | 1.7856 | mg/L | 0.00803 | 2143.6 | mg/L | 9.63 | 0.45% |
| Fe_1 273.955† | 63836.6 | 1.2388 | mg/L | 0.00346 | 1487.1 | mg/L | 4.16 | 0.28% |
| Fe_2 238.863 R† | 1209.9 | 1.2111 | mg/L | 0.00292 | 1453.9 | mg/L | 3.50 | 0.24% |
| Mg 279.077 R† | 1509.7 | 0.72903 | mg/L | 0.001023 | 875.19 | mg/L | 1.228 | 0.14% |
| Na_1 589.592 R† | 7753.5 | 0.78129 | mg/L | 0.004280 | 937.92 | mg/L | 5.138 | 0.55% |
| Na_2 330.237 R† | 14.6 | 0.20322 | mg/L | 0.426209 | 243.96 | mg/L | 511.656 | 209.73% |
| Zn 206.200† | 487.4 | 0.01441 | mg/L | 0.000150 | 17.302 | mg/L | 0.1796 | 1.04% |

Sequence No.: 59
Sample ID: H8QT8
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 7/18/2006 1:25:05 PM
Data Type: Reprocessed on 7/18/2006 2:04:33 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT8

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 422239.2 | 100.62 | % | 1.525 | | | | 1.52% |
| In Radial | 18111.7 | 101.95 | % | 0.973 | | | | 0.95% |
| Y_ Axial | 2023154.3 | 100.58 | % | 1.407 | | | | 1.40% |
| Y_ Radial | 212393.6 | 103.95 | % | 1.789 | | | | 1.72% |
| Sc Axial | 3906606.0 | 100.34 | % | 1.416 | | | | 1.41% |
| Sc Radial | 397295.0 | 103.55 | % | 1.867 | | | | 1.80% |
| Al_1 396.153 R† | 151.8 | 0.01241 | mg/L | 0.003873 | 14.894 | mg/L | 4.6489 | 31.21% |
| Al_2 308.215 R† | 34.0 | 0.01011 | mg/L | 0.000495 | 12.132 | mg/L | 0.5946 | 4.90% |
| Ca 315.887 R† | 4875.1 | 0.28830 | mg/L | 0.000905 | 346.10 | mg/L | 1.087 | 0.31% |
| Fe_1 273.955† | 765.9 | 0.01486 | mg/L | 0.000035 | 17.843 | mg/L | 0.0420 | 0.24% |
| Fe_2 238.863 R† | 5.8 | 0.00583 | mg/L | 0.002103 | 6.9965 | mg/L | 2.52423 | 36.08% |
| Mg 279.077 R† | 84.8 | 0.04093 | mg/L | 0.001299 | 49.138 | mg/L | 1.5595 | 3.17% |
| Na_1 589.592 R† | 4367.4 | 0.44009 | mg/L | 0.010240 | 528.32 | mg/L | 12.293 | 2.33% |
| Na_2 330.237 R† | 5.6 | 0.07963 | mg/L | 0.070463 | 95.594 | mg/L | 84.5891 | 88.49% |
| Zn 206.200† | 60.0 | 0.00178 | mg/L | 0.000213 | 2.1309 | mg/L | 0.25605 | 12.02% |

Sequence No.: 60
Sample ID: H8QT9
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 7/18/2006 1:28:39 PM
Data Type: Reprocessed on 7/18/2006 2:04:34 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H8QT9

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 422944.8 | 100.79 | % | 0.269 | | | | 0.27% |
| In Radial | 18302.9 | 103.03 | % | 0.195 | | | | 0.19% |
| Y_ Axial | 2026962.8 | 100.77 | % | 0.309 | | | | 0.31% |
| Y_ Radial | 213843.8 | 104.66 | % | 1.077 | | | | 1.03% |
| Sc Axial | 3919179.8 | 100.67 | % | 0.295 | | | | 0.29% |
| Sc Radial | 399831.6 | 104.21 | % | 1.197 | | | | 1.15% |
| Al_1 396.153 R† | 185.6 | 0.01517 | mg/L | 0.003204 | 18.215 | mg/L | 3.8468 | 21.12% |
| Al_2 308.215 R† | 43.5 | 0.01292 | mg/L | 0.001529 | 15.514 | mg/L | 1.8354 | 11.83% |
| Ca 315.887 R† | 4094.8 | 0.24216 | mg/L | 0.003191 | 290.71 | mg/L | 3.830 | 1.32% |
| Fe_1 273.955† | 619.6 | 0.01202 | mg/L | 0.000278 | 14.434 | mg/L | 0.3332 | 2.31% |
| Fe_2 238.863 R† | -7.1 | -0.00710 | mg/L | 0.004751 | -8.5268 | mg/L | 5.70395 | 66.89% |
| Mg 279.077 R† | 71.2 | 0.03438 | mg/L | 0.000976 | 41.272 | mg/L | 1.1714 | 2.84% |
| Na_1 589.592 R† | 3756.2 | 0.37850 | mg/L | 0.006238 | 454.38 | mg/L | 7.489 | 1.65% |
| Na_2 330.237 R† | 6.3 | 0.09051 | mg/L | 0.008803 | 108.66 | mg/L | 10.568 | 9.73% |
| Zn 206.200† | 54.5 | 0.00161 | mg/L | 0.000065 | 1.9342 | mg/L | 0.07837 | 4.05% |

Sequence No.: 62
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/18/2006 1:37:00 PM
Data Type: Reprocessed on 7/18/2006 2:04:40 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 377329.2 | 89.916 | % | 1.5148 | | | | 1.68% |
| In Radial | 16601.4 | 93.450 | % | 1.9772 | | | | 2.12% |
| Y_ Axial | 1867774.2 | 92.852 | % | 1.3916 | | | | 1.50% |
| Y_ Radial | 194029.6 | 94.966 | % | 2.1331 | | | | 2.25% |
| Sc Axial | 3623160.1 | 93.063 | % | 1.7179 | | | | 1.85% |
| Sc Radial | 371951.4 | 96.948 | % | 0.0987 | | | | 0.10% |
| Al_1 396.153 R† | 321740.5 | 26.296 | mg/L | 0.6180 | 26.296 | mg/L | 0.6180 | 2.35% |
| Al_2 308.215 R† | 87570.8 | 26.010 | mg/L | 0.0143 | 26.010 | mg/L | 0.0143 | 0.06% |
| Ca 315.887 R† | 456457.0 | 26.994 | mg/L | 0.5942 | 26.994 | mg/L | 0.5942 | 2.20% |
| Fe_1 273.955† | 1355799.8 | 26.309 | mg/L | 0.0808 | 26.309 | mg/L | 0.0808 | 0.31% |
| Fe_2 238.863 R† | 26800.9 | 26.828 | mg/L | 0.1328 | 26.828 | mg/L | 0.1328 | 0.49% |
| Mg 279.077 R† | 55731.2 | 26.912 | mg/L | 0.0763 | 26.912 | mg/L | 0.0763 | 0.28% |
| Na_1 589.592 R† | 255123.8 | 25.708 | mg/L | 0.5637 | 25.708 | mg/L | 0.5637 | 2.19% |
| Na_2 330.237 R† | 1912.1 | 26.626 | mg/L | 0.8191 | 26.626 | mg/L | 0.8191 | 3.08% |
| Zn 206.200† | 88317.2 | 2.6114 | mg/L | 0.01222 | 2.6114 | mg/L | 0.01222 | 0.47% |

Sequence No.: 63
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 7/18/2006 1:39:20 PM
Data Type: Reprocessed on 7/18/2006 2:04:41 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| In Axial | 416864.8 | 99.337 | % | 1.0159 | | | | 1.02% |
| In Radial | 17703.7 | 99.655 | % | 0.0233 | | | | 0.02% |
| Y_ Axial | 2001715.2 | 99.510 | % | 0.9608 | | | | 0.97% |
| Y_ Radial | 209798.1 | 102.68 | % | 1.980 | | | | 1.93% |
| Sc Axial | 3876039.3 | 99.559 | % | 0.9736 | | | | 0.98% |
| Sc Radial | 393627.8 | 102.60 | % | 2.073 | | | | 2.02% |
| Al_1 396.153 R† | 65.7 | 0.00537 | mg/L | 0.001805 | 0.00537 | mg/L | 0.001805 | 33.59% |
| Al_2 308.215 R† | 7.7 | 0.00229 | mg/L | 0.000151 | 0.00229 | mg/L | 0.000151 | 6.58% |
| Ca 315.887 R† | 52.6 | 0.00311 | mg/L | 0.000221 | 0.00311 | mg/L | 0.000221 | 7.10% |
| Fe_1 273.955† | 168.5 | 0.00327 | mg/L | 0.000715 | 0.00327 | mg/L | 0.000715 | 21.86% |
| Fe_2 238.863 R† | 2.4 | 0.00243 | mg/L | 0.006435 | 0.00243 | mg/L | 0.006435 | 264.65% |
| Mg 279.077 R† | 14.1 | 0.00679 | mg/L | 0.001827 | 0.00679 | mg/L | 0.001827 | 26.90% |
| Na_1 589.592 R† | 19.8 | 0.00199 | mg/L | 0.009508 | 0.00199 | mg/L | 0.009508 | 477.17% |
| Na_2 330.237 R† | -1.3 | -0.01909 | mg/L | 0.027798 | -0.01909 | mg/L | 0.027798 | 145.62% |
| Zn 206.200† | 7.1 | 0.00021 | mg/L | 0.000053 | 0.00021 | mg/L | 0.000053 | 25.28% |

# ICPMS

SEVERN TRENT STL

**STL Sacramento**
**ICP-MS Data Review Checklist**
**Level I and Level II**

| Instrument ID (Circle one): (M01) **M02** | | Method 6020<br>SOP SAC-MT-0001 | |
|---|---|---|---|
| File Number<br>060717B1 | Batch Numbers<br>6193191, 6193499, 6194461 | Date<br>7/17/06 | Analyst<br>BRJ |

| Lot Numbers | YES | NO | NA |
|---|---|---|---|
| BRJ 7/17/06 ~~G6G~~ G6F270335, G6G010204, G6G070251, G6F290300, G6G060239 | | | |
| 1. Copy of analysis protocol used included? | ✓ | | |
| 2. ICVs & CCVs within 10% of true value or recal and rerun? | ✓ | | |
| 3. ICB & CCBs < reporting limit or recal and rerun? | ✓ | | |
| 4. 10 samples or less analyzed between calibration checks? | ✓ | | |
| 5. All parameters within linear range? | ✓ | | |
| 6. LCS/LCSD within limits? | ✓ | | |
| 7. Prep blank value < reporting limit or all samples >20x blank? | ✓ | | |
| 8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities? | ✓ | | |
| 9. Appropriate dilution factors applied to data? | ✓ | | |
| 10. Matrix spike and spike dup within customer defined limits? | | | ✓ |
| 11. Each batch checked for presence of internal standard in samples? | ✓ | | |
| 12. Anomalies entered using Clouseau? | | | ✓ |

COMMENTS: _____

REVIEWED BY: MTL
DATE: 7/20/06

DATA ENTERED BY: BRJ
DATE: 7/18/06

q:\forms\checklists\qa-427 icpms review.doc

QA-427 ERS 6/11/03

# Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020
User Name: JonesB
Computer Name: SACP317A
Dataset File Path: C:\elandata\Dataset\060717B1\
Report Date/Time: Tuesday, July 18, 2006 09:08:49

## The Dataset

| Batch ID | Sample ID | Date and Time | Read Type | Description |
|---|---|---|---|---|
| 6193191 | H8A94 n.i. | 17:10:26 Mon 17-Jul-06 | Sample | G6F270335-1 N.I. |
| 6193191 | H8L2H n.i. | 17:13:12 Mon 17-Jul-06 | Sample | G6G010204-3 N.I. |
| 6193191 | H8T13 n.i. | 17:16:00 Mon 17-Jul-06 | Sample | G6G070251-4 N.I. |
| 6193489 | H8GKJ n.i. | 17:18:47 Mon 17-Jul-06 | Sample | G6F290300-1 N.I. |
| 6194461 | H8QTL n.i. | 17:21:32 Mon 17-Jul-06 | Sample | G6G060239-1 N.I. |
| | Rinse 3X | 17:26:29 Mon 17-Jul-06 | Sample | |
| | Blank | 17:31:05 Mon 17-Jul-06 | Blank | |
| | Standard 1 | 17:35:37 Mon 17-Jul-06 | Standard #1 | |
| | ICV | 17:39:51 Mon 17-Jul-06 | Sample | |
| | ICB | 17:44:11 Mon 17-Jul-06 | Sample | |
| | ICSA | 17:48:30 Mon 17-Jul-06 | Sample | |
| | ICSAB | 17:52:48 Mon 17-Jul-06 | Sample | |
| | Rinse | 18:03:43 Mon 17-Jul-06 | Sample | |
| 6193489 | FB | 18:08:05 Mon 17-Jul-06 | Sample | FB-F1815158 |
| 6194461 | FB | 18:12:26 Mon 17-Jul-06 | Sample | FB-F1815158 |
| | CCV 1 | 18:16:47 Mon 17-Jul-06 | Sample | |
| | CCB 1 | 18:21:08 Mon 17-Jul-06 | Sample | |
| | CCV 2 | 18:25:30 Mon 17-Jul-06 | Sample | |
| | CCB 2 | 18:29:51 Mon 17-Jul-06 | Sample | |
| 6193191 | H82HAC | 18:34:10 Mon 17-Jul-06 | Sample | G6G120000-191 LCS |
| 6193191 | H82HAL | 18:38:26 Mon 17-Jul-06 | Sample | G6G120000-191 LCSD |
| | Rinse | 18:42:46 Mon 17-Jul-06 | Sample | |
| 6193191 | H82HAB | 18:47:08 Mon 17-Jul-06 | Sample | G6G120000-191 BLK |
| 6193191 | H8A94 | 18:51:27 Mon 17-Jul-06 | Sample | G6F270335-1 |
| 6193191 | H8A94P5 | 18:55:45 Mon 17-Jul-06 | Sample | G6F270335-1 5X |
| 6193191 | H8A94Z | 19:00:02 Mon 17-Jul-06 | Sample | G6F270335-1 PS |
| | CCV 3 | 19:04:21 Mon 17-Jul-06 | Sample | |
| | CCB 3 | 19:08:41 Mon 17-Jul-06 | Sample | |
| | CCV 4 | 19:13:02 Mon 17-Jul-06 | Sample | |
| | CCB 4 | 19:17:23 Mon 17-Jul-06 | Sample | |
| 6193191 | H8A98 | 19:21:43 Mon 17-Jul-06 | Sample | G6F270335-2 |
| 6193191 | H8L2H | 19:26:02 Mon 17-Jul-06 | Sample | G6G010204-3 |
| 6193191 | H8L2J | 19:30:20 Mon 17-Jul-06 | Sample | G6G010204-4 |
| 6193191 | H8L2K | 19:34:40 Mon 17-Jul-06 | Sample | G6G010204-5 |
| 6193191 | H8T13 | 19:38:59 Mon 17-Jul-06 | Sample | G6G070251-4 |
| 6193191 | H8T18 | 19:43:19 Mon 17-Jul-06 | Sample | G6G070251-5 |
| 6193191 | H8T19 | 19:47:39 Mon 17-Jul-06 | Sample | G6G070251-6 |
| | CCV 5 | 19:51:58 Mon 17-Jul-06 | Sample | |
| | CCB 5 | 19:56:20 Mon 17-Jul-06 | Sample | |
| | CCV 6 | 20:00:41 Mon 17-Jul-06 | Sample | |
| | CCB 6 | 20:05:02 Mon 17-Jul-06 | Sample | |
| 6193489 | H8411B | 20:09:23 Mon 17-Jul-06 | Sample | G6G120000-489 BLK |
| 6193489 | H8411C | 20:13:43 Mon 17-Jul-06 | Sample | G6G120000-489 LCS |
| 6193489 | H8411L | 20:18:00 Mon 17-Jul-06 | Sample | G6G120000-489 LCSD |
| 6193489 | H8GKJ | 20:22:17 Mon 17-Jul-06 | Sample | G6F290300-1 |
| 6193489 | H8GKJP5 | 20:26:34 Mon 17-Jul-06 | Sample | G6F290300-1 5X |
| 6193489 | H8GKJZ | 20:30:51 Mon 17-Jul-06 | Sample | G6F290300-1 PS |
| 6193489 | H8GKL | 20:35:09 Mon 17-Jul-06 | Sample | G6F290300-2 |
| 6193489 | H8GKM | 20:39:27 Mon 17-Jul-06 | Sample | G6F290300-3 |

| | | | | |
|---|---|---|---|---|
| 6193489 | H8GKQ | 20:43:45 Mon 17-Jul-06 | Sample | G6F290300-4 |
| 6193489 | H8GKR | 20:48:05 Mon 17-Jul-06 | Sample | G6F290300-5 |
| | CCV 7 | 20:52:25 Mon 17-Jul-06 | Sample — out A1 | |
| | CCB 7 | 20:56:46 Mon 17-Jul-06 | Sample | |
| | CCV 8 | 21:01:07 Mon 17-Jul-06 | Sample | |
| | CCB 8 | 21:05:27 Mon 17-Jul-06 | Sample | |
| 6193489 | H8GKV | 21:09:48 Mon 17-Jul-06 | Sample | G6F290300-6 |
| 6193489 | H8GKW | 21:14:08 Mon 17-Jul-06 | Sample | G6F290300-7 |
| 6193489 | H8GKX | 21:18:28 Mon 17-Jul-06 | Sample | G6F290300-8 |
| 6193489 | H8GK1 | 21:22:48 Mon 17-Jul-06 | Sample | G6F290300-9 |
| 6193489 | H8GK2 | 21:27:09 Mon 17-Jul-06 | Sample | G6F290300-10 |
| 6193489 | H8GK4 | 21:31:31 Mon 17-Jul-06 | Sample | G6F290300-11 |
| 6193489 | H8GK6 | 21:35:53 Mon 17-Jul-06 | Sample | G6F290300-12 |
| 6193489 | H8GK7 | 21:40:15 Mon 17-Jul-06 | Sample | G6F290300-13 |
| 6193489 | H8GK8 | 21:44:37 Mon 17-Jul-06 | Sample | G6F290300-14 |
| 6193489 | H8GLA | 21:48:59 Mon 17-Jul-06 | Sample | G6F290300-15 |
| | CCV 9 > RECAL | 21:53:21 Mon 17-Jul-06 | Sample — out A1 | |
| | CCB 9 | 21:57:43 Mon 17-Jul-06 | Sample | |
| | CCV 10 | 22:02:04 Mon 17-Jul-06 | Sample | |
| | CCB 10 | 22:06:25 Mon 17-Jul-06 | Sample | |
| 6194461 | H87HNB | 22:10:46 Mon 17-Jul-06 | Sample | G6G130000-461 BLK |
| 6194461 | H87HNC | 22:15:07 Mon 17-Jul-06 | Sample | G6G130000-461 LCS |
| 6194461 | H87HNL | 22:19:25 Mon 17-Jul-06 | Sample | G6G130000-461 LCSD |
| 6194461 | H8QTL | 22:23:42 Mon 17-Jul-06 | Sample | G6G060239-1 |
| 6194461 | H8QTLP5 | 22:27:57 Mon 17-Jul-06 | Sample | G6G060239-1 5X |
| 6194461 | H8QTLZ | 22:32:13 Mon 17-Jul-06 | Sample | G6G060239-1 PS |
| 6194461 | H8QTN | 22:36:31 Mon 17-Jul-06 | Sample | G6G060239-2 |
| 6194461 | H8QTQ | 22:40:48 Mon 17-Jul-06 | Sample | G6G060239-3 |
| 6194461 | H8QTT | 22:45:05 Mon 17-Jul-06 | Sample | G6G060239-4 |
| 6194461 | H8QTV | 22:49:24 Mon 17-Jul-06 | Sample | G6G060239-5 |
| | CCV 11 | 22:53:43 Mon 17-Jul-06 | Sample | |
| | CCB 11 | 22:58:04 Mon 17-Jul-06 | Sample | |
| | CCV 12 | 23:02:25 Mon 17-Jul-06 | Sample | |
| | CCB 12 | 23:06:47 Mon 17-Jul-06 | Sample | |
| 6194461 | H8QTW | 23:11:06 Mon 17-Jul-06 | Sample | G6G060239-6 |
| 6194461 | H8QTX | 23:15:24 Mon 17-Jul-06 | Sample | G6G060239-7 |
| 6194461 | H8QT1 | 23:19:43 Mon 17-Jul-06 | Sample | G6G060239-8 |
| 6194461 | H8QT2 | 23:24:03 Mon 17-Jul-06 | Sample | G6G060239-9 |
| 6194461 | H8QT3 | 23:28:23 Mon 17-Jul-06 | Sample | G6G060239-10 |
| 6194461 | H8QT5 | 23:32:44 Mon 17-Jul-06 | Sample | G6G060239-11 |
| 6194461 | H8QT6 | 23:37:05 Mon 17-Jul-06 | Sample | G6G060239-12 |
| 6194461 | H8QT7 | 23:41:27 Mon 17-Jul-06 | Sample | G6G060239-13 |
| 6194461 | H8QT8 | 23:45:49 Mon 17-Jul-06 | Sample | G6G060239-14 |
| 6194461 | H8QT9 | 23:50:10 Mon 17-Jul-06 | Sample | G6G060239-15 |
| | CCV 13 | 23:54:32 Mon 17-Jul-06 | Sample | |
| | CCB 13 | 23:58:52 Mon 17-Jul-06 | Sample | |

STL Sacramento

# RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 07/18/06 18:22:25

**File ID:** **060717B1** **Analyst: ionesb**

| # | Sample ID | Lot No. | Batch | | DF | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|
| 1 | H8A94 n.i. | G6F270335-1 | 6193191 | 2A | 1.0 | 07/17/06 17:10 | | ☐ |
| 2 | H8L2H n.i. | G6G010204-3 | 6193191 | 2A | 1.0 | 07/17/06 17:13 | | ☐ |
| 3 | H8T13 n.i. | G6G070251-4 | 6193191 | 2A | 1.0 | 07/17/06 17:16 | | ☐ |
| 4 | H8GKJ n.i. | G6F290300-1 | 6193489 | 2A | 1.0 | 07/17/06 17:18 | | ☐ |
| 5 | H8QTL n.i. | G6G060239-1 | 6194461 | 2A | 1.0 | 07/17/06 17:21 | | ☐ |
| 6 | Rinse 3X | | | | 3.0 | 07/17/06 17:26 | | ☐ |
| 7 | Blank | | | | 1.0 | 07/17/06 17:31 | | ☐ |
| 8 | Standard1 | | | | 1.0 | 07/17/06 17:35 | | ☐ |
| 9 | ICV | | | | 1.0 | 07/17/06 17:39 | | ☐ |
| 10 | ICB | | | | 1.0 | 07/17/06 17:44 | | ☐ |
| 11 | ICSA | | | | 1.0 | 07/17/06 17:48 | | ☐ |
| 12 | ICSAB | | | | 1.0 | 07/17/06 17:52 | | ☐ |
| 13 | Rinse | | | | 1.0 | 07/17/06 18:03 | | ☐ |
| 14 | FB | | | | 1.0 | 07/17/06 18:08 | | ☐ |
| 15 | FB | | | | 1.0 | 07/17/06 18:12 | | ☐ |
| 16 | CCV 1 | | | | 1.0 | 07/17/06 18:16 | | ☐ |
| 17 | CCB 1 | | | | 1.0 | 07/17/06 18:21 | | ☐ |
| 18 | CCV 2 | | | | 1.0 | 07/17/06 18:25 | | ☐ |
| 19 | CCB 2 | | | | 1.0 | 07/17/06 18:29 | | ☐ |
| 20 | H82HAC | G6G120000 | 6193191 | 2A | 1.0 | 07/17/06 18:34 | | ☐ |
| 21 | H82HAL | G6G120000 | 6193191 | 2A | 1.0 | 07/17/06 18:38 | | ☐ |
| 22 | Rinse | | | | 1.0 | 07/17/06 18:42 | | ☐ |
| 23 | H82HAB | G6G120000 | 6193191 | 2A | 1.0 | 07/17/06 18:47 | | ☐ |
| 24 | H8A94 | G6F270335-1 | 6193191 | 2A | 1.0 | 07/17/06 18:51 | | ☐ |
| 25 | H8A94P5 | G6F270335 | 6193191 | | 5.0 | 07/17/06 18:55 | | ☐ |
| 26 | H8A94Z | G6F270335-1 | 6193191 | | 1.0 | 07/17/06 19:00 | | ☐ |
| 27 | CCV 3 | | | | 1.0 | 07/17/06 19:04 | | ☐ |
| 28 | CCB 3 | | | | 1.0 | 07/17/06 19:08 | | ☐ |
| 29 | CCV 4 | | | | 1.0 | 07/17/06 19:13 | | ☐ |
| 30 | CCB 4 | | | | 1.0 | 07/17/06 19:17 | | ☐ |
| 31 | H8A98 | G6F270335-2 | 6193191 | 2A | 1.0 | 07/17/06 19:21 | | ☐ |
| 32 | H8L2H | G6G010204-3 | 6193191 | 2A | 1.0 | 07/17/06 19:26 | | ☐ |
| 33 | H8L2J | G6G010204-4 | 6193191 | 2A | 1.0 | 07/17/06 19:30 | | ☐ |
| 34 | H8L2K | G6G010204-5 | 6193191 | 2A | 1.0 | 07/17/06 19:34 | | ☐ |
| 35 | H8T13 | G6G070251-4 | 6193191 | 2A | 1.0 | 07/17/06 19:38 | | ☐ |
| 36 | H8T18 | G6G070251-5 | 6193191 | 2A | 1.0 | 07/17/06 19:43 | | ☐ |
| 37 | H8T19 | G6G070251-6 | 6193191 | 2A | 1.0 | 07/17/06 19:47 | | ☐ |
| 38 | CCV 5 | | | | 1.0 | 07/17/06 19:51 | | ☐ |
| 39 | CCB 5 | | | | 1.0 | 07/17/06 19:56 | | ☐ |
| 40 | CCV 6 | | | | 1.0 | 07/17/06 20:00 | | ☐ |
| 41 | CCB 6 | | | | 1.0 | 07/17/06 20:05 | | ☐ |
| 42 | H8411B | G6G120000 | 6193489 | 2A | 1.0 | 07/17/06 20:09 | | ☐ |
| 43 | H8411C | G6G120000 | 6193489 | 2A | 1.0 | 07/17/06 20:13 | | ☐ |
| 44 | H8411L | G6G120000 | 6193489 | 2A | 1.0 | 07/17/06 20:18 | | ☐ |
| 45 | H8GKJ | G6F290300-1 | 6193489 | 2A | 1.0 | 07/17/06 20:22 | | ☐ |
| 46 | H8GKJP5 | G6F290300 | 6193489 | | 5.0 | 07/17/06 20:26 | | ☐ |

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 07/18/06 18:22:25

**File ID:** 060717B1 Analyst: jonesb

| # | Sample ID | Lot No. | Batch | | DF | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|
| 47 | H8GKJZ | G6F290300-1 | 6193489 | | 1.0 | 07/17/06 20:30 | | ☐ |
| 48 | H8GKL | G6F290300-2 | 6193489 | 2A | 1.0 | 07/17/06 20:35 | | ☐ |
| 49 | H8GKM | G6F290300-3 | 6193489 | 2A | 1.0 | 07/17/06 20:39 | | ☐ |
| 50 | H8GKQ | G6F290300-4 | 6193489 | 2A | 1.0 | 07/17/06 20:43 | | ☐ |
| 51 | H8GKR | G6F290300-5 | 6193489 | 2A | 1.0 | 07/17/06 20:48 | | ☐ |
| 52 | CCV 7 | | | | 1.0 | 07/17/06 20:52 | | ☐ |
| 53 | CCB 7 | | | | 1.0 | 07/17/06 20:56 | | ☐ |
| 54 | CCV 8 | | | | 1.0 | 07/17/06 21:01 | | ☐ |
| 55 | CCB 8 | | | | 1.0 | 07/17/06 21:05 | | ☐ |
| 56 | H8GKV | G6F290300-6 | 6193489 | 2A | 1.0 | 07/17/06 21:09 | | ☐ |
| 57 | H8GKW | G6F290300-7 | 6193489 | 2A | 1.0 | 07/17/06 21:14 | | ☐ |
| 58 | H8GKX | G6F290300-8 | 6193489 | 2A | 1.0 | 07/17/06 21:18 | | ☐ |
| 59 | H8GK1 | G6F290300-9 | 6193489 | 2A | 1.0 | 07/17/06 21:22 | | ☐ |
| 60 | H8GK2 | G6F290300-10 | 6193489 | 2A | 1.0 | 07/17/06 21:27 | | ☐ |
| 61 | H8GK4 | G6F290300-11 | 6193489 | 2A | 1.0 | 07/17/06 21:31 | | ☐ |
| 62 | H8GK6 | G6F290300-12 | 6193489 | 2A | 1.0 | 07/17/06 21:35 | | ☐ |
| 63 | H8GK7 | G6F290300-13 | 6193489 | 2A | 1.0 | 07/17/06 21:40 | | ☐ |
| 64 | H8GK8 | G6F290300-14 | 6193489 | 2A | 1.0 | 07/17/06 21:44 | | ☐ |
| 65 | H8GLA | G6F290300-15 | 6193489 | 2A | 1.0 | 07/17/06 21:48 | | ☐ |
| 66 | CCV 9 | | | | 1.0 | 07/17/06 21:53 | | ☐ |
| 67 | CCB 9 | | | | 1.0 | 07/17/06 21:57 | | ☐ |
| 70 | CCV 10 | | | | 1.0 | 07/17/06 22:02 | | ☐ |
| 71 | CCB 10 | | | | 1.0 | 07/17/06 22:06 | | ☐ |
| 72 | H87HNB | G6G130000 | 6194461 | 2A | 1.0 | 07/17/06 22:10 | | ☐ |
| 73 | H87HNC | G6G130000 | 6194461 | 2A | 1.0 | 07/17/06 22:15 | | ☐ |
| 74 | H87HNL | G6G130000 | 6194461 | 2A | 1.0 | 07/17/06 22:19 | | ☐ |
| 75 | H8QTL | G6G060239-1 | 6194461 | 2A | 1.0 | 07/17/06 22:23 | | ☐ |
| 76 | H8QTLP5 | G6G060239 | 6194461 | | 5.0 | 07/17/06 22:27 | | ☐ |
| 77 | H8QTLZ | G6G060239-1 | 6194461 | | 1.0 | 07/17/06 22:32 | | ☐ |
| 78 | H8QTN | G6G060239-2 | 6194461 | 2A | 1.0 | 07/17/06 22:36 | | ☐ |
| 79 | H8QTQ | G6G060239-3 | 6194461 | 2A | 1.0 | 07/17/06 22:40 | | ☐ |
| 80 | H8QTT | G6G060239-4 | 6194461 | 2A | 1.0 | 07/17/06 22:45 | | ☐ |
| 81 | H8QTV | G6G060239-5 | 6194461 | 2A | 1.0 | 07/17/06 22:49 | | ☐ |
| 82 | CCV 11 | | | | 1.0 | 07/17/06 22:53 | | ☐ |
| 83 | CCB 11 | | | | 1.0 | 07/17/06 22:58 | | ☐ |
| 84 | CCV 12 | | | | 1.0 | 07/17/06 23:02 | | ☐ |
| 85 | CCB 12 | | | | 1.0 | 07/17/06 23:06 | | ☐ |
| 86 | H8QTW | G6G060239-6 | 6194461 | 2A | 1.0 | 07/17/06 23:11 | | ☐ |
| 87 | H8QTX | G6G060239-7 | 6194461 | 2A | 1.0 | 07/17/06 23:15 | | ☐ |
| 88 | H8QT1 | G6G060239-8 | 6194461 | 2A | 1.0 | 07/17/06 23:19 | | ☐ |
| 89 | H8QT2 | G6G060239-9 | 6194461 | 2A | 1.0 | 07/17/06 23:24 | | ☐ |
| 90 | H8QT3 | G6G060239-10 | 6194461 | 2A | 1.0 | 07/17/06 23:28 | | ☐ |
| 91 | H8QT5 | G6G060239-11 | 6194461 | 2A | 1.0 | 07/17/06 23:32 | | ☐ |
| 92 | H8QT6 | G6G060239-12 | 6194461 | 2A | 1.0 | 07/17/06 23:37 | | ☐ |
| 93 | H8QT7 | G6G060239-13 | 6194461 | 2A | 1.0 | 07/17/06 23:41 | | ☐ |
| 94 | H8QT8 | G6G060239-14 | 6194461 | 2A | 1.0 | 07/17/06 23:45 | | ☐ |

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 07/18/06 18:22:25

**File ID:** **060717B1** **Analyst: ionesb**

| # | Sample ID | Lot No. | Batch | | DF | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|
| 95 | H8QT9 | G6G060239-15 | 6194461 | 2A | 1.0 | 07/17/06 23:50 | | ☐ |
| 96 | CCV 13 | | | | 1.0 | 07/17/06 23:54 | | ☐ |
| 97 | CCB 13 | | | | 1.0 | 07/17/06 23:58 | | ☐ |

STL Sacramento

# INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 07/18/06 18:22:25

**File ID:** **060717B1** Analyst: ionesb

| # | Sample ID | Analyzed Date | Germanium | Indium | Lithium-6 | Thulium | Q |
|---|---|---|---|---|---|---|---|
| 1 | H8A94 n.i. | 07/17/06 17:10 | 0.6 | 0.1 | 0.1 | 0.1 | ☐ |
| 2 | H8L2H n.i. | 07/17/06 17:13 | 0.4 | 0.1 | 0.1 | 0.1 | ☐ |
| 3 | H8T13 n.i. | 07/17/06 17:16 | 0.3 | 0.1 | 0.1 | 0.1 | ☐ |
| 4 | H8GKJ n.i. | 07/17/06 17:18 | 0.1 | 0.1 | 0.1 | 0.1 | ☐ |
| 5 | H8QTL n.i. | 07/17/06 17:21 | 0.1 | 0.1 | 0.1 | 0.1 | ☐ |
| 6 | Rinse 3X | 07/17/06 17:26 | 100.2 | 100.2 | 98.4 | 101.0 | ☐ |
| 7 | Blank | 07/17/06 17:31 | 100.0 | 100.0 | 100.0 | 100.0 | ☑ |
| 8 | Standard1 | 07/17/06 17:35 | 97.7 | 96.4 | 98.3 | 99.4 | ☑ |
| 9 | ICV | 07/17/06 17:39 | 99.1 | 98.7 | 100.6 | 102.4 | ☑ |
| 10 | ICB | 07/17/06 17:44 | 101.0 | 100.8 | 100.5 | 103.6 | ☑ |
| 11 | ICSA | 07/17/06 17:48 | 85.7 | 86.9 | 80.4 | 85.5 | ☑ |
| 12 | ICSAB | 07/17/06 17:52 | 85.9 | 89.5 | 79.4 | 88.0 | ☑ |
| 13 | Rinse | 07/17/06 18:03 | 106.1 | 109.5 | 100.0 | 110.3 | ☑ |
| 14 | FB | 07/17/06 18:08 | 107.3 | 110.2 | 96.8 | 109.3 | ☑ |
| 15 | FB | 07/17/06 18:12 | 108.1 | 111.2 | 98.0 | 112.2 | ☑ |
| 16 | CCV 1 | 07/17/06 18:16 | 103.8 | 104.2 | 101.1 | 107.1 | ☑ |
| 17 | CCB 1 | 07/17/06 18:21 | 106.3 | 108.5 | 103.7 | 109.4 | ☑ |
| 18 | CCV 2 | 07/17/06 18:25 | 103.7 | 103.3 | 102.3 | 106.7 | ☑ |
| 19 | CCB 2 | 07/17/06 18:29 | 105.8 | 107.6 | 101.9 | 109.7 | ☑ |
| 20 | H82HAC | 07/17/06 18:34 | 104.0 | 106.6 | 101.2 | 110.5 | ☑ |
| 21 | H82HAL | 07/17/06 18:38 | 102.4 | 105.2 | 101.7 | 110.6 | ☑ |
| 22 | Rinse | 07/17/06 18:42 | 103.3 | 105.3 | 102.1 | 107.3 | ☑ |
| 23 | H82HAB | 07/17/06 18:47 | 103.7 | 106.5 | 101.0 | 111.2 | ☑ |
| 24 | H8A94 | 07/17/06 18:51 | 104.1 | 105.5 | 97.4 | 109.8 | ☑ |
| 25 | H8A94P5 | 07/17/06 18:55 | 105.1 | 105.5 | 100.2 | 110.2 | ☐ |
| 26 | H8A94Z | 07/17/06 19:00 | 102.1 | 104.1 | 99.4 | 108.4 | ☑ |
| 27 | CCV 3 | 07/17/06 19:04 | 101.3 | 100.6 | 100.2 | 107.0 | ☑ |
| 28 | CCB 3 | 07/17/06 19:08 | 104.1 | 104.4 | 100.9 | 107.8 | ☑ |
| 29 | CCV 4 | 07/17/06 19:13 | 102.8 | 102.1 | 101.2 | 106.7 | ☑ |
| 30 | CCB 4 | 07/17/06 19:17 | 104.3 | 105.4 | 101.6 | 107.3 | ☑ |
| 31 | H8A98 | 07/17/06 19:21 | 104.6 | 106.0 | 97.4 | 109.4 | ☑ |
| 32 | H8L2H | 07/17/06 19:26 | 105.1 | 105.7 | 98.4 | 110.5 | ☑ |
| 33 | H8L2J | 07/17/06 19:30 | 103.9 | 104.7 | 97.1 | 109.9 | ☑ |
| 34 | H8L2K | 07/17/06 19:34 | 103.7 | 105.2 | 98.1 | 109.4 | ☑ |
| 35 | H8T13 | 07/17/06 19:38 | 104.5 | 106.2 | 97.6 | 110.9 | ☑ |
| 36 | H8T18 | 07/17/06 19:43 | 103.9 | 104.8 | 97.4 | 109.3 | ☑ |
| 37 | H8T19 | 07/17/06 19:47 | 103.5 | 104.9 | 98.0 | 109.3 | ☑ |
| 38 | CCV 5 | 07/17/06 19:51 | 101.7 | 100.6 | 99.2 | 107.1 | ☑ |
| 39 | CCB 5 | 07/17/06 19:56 | 103.7 | 103.8 | 99.8 | 108.6 | ☑ |
| 40 | CCV 6 | 07/17/06 20:00 | 102.0 | 100.7 | 99.6 | 107.1 | ☑ |
| 41 | CCB 6 | 07/17/06 20:05 | 104.7 | 104.5 | 100.2 | 108.4 | ☑ |
| 42 | H8411B | 07/17/06 20:09 | 106.1 | 108.5 | 100.7 | 112.9 | ☑ |
| 43 | H8411C | 07/17/06 20:13 | 102.6 | 106.3 | 103.5 | 111.5 | ☑ |
| 44 | H8411L | 07/17/06 20:18 | 101.3 | 104.4 | 102.2 | 111.2 | ☑ |
| 45 | H8GKJ | 07/17/06 20:22 | 102.8 | 104.4 | 101.5 | 110.4 | ☑ |
| 46 | H8GKJP5 | 07/17/06 20:26 | 102.3 | 101.9 | 101.3 | 106.5 | ☐ |

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 07/18/06 18:22:25

**File ID:** **060717B1** **Analyst: ionesb**

| # | Sample ID | Analyzed Date | Germanium | Indium | Lithium-6 | Thulium | Q |
|---|---|---|---|---|---|---|---|
| 47 | H8GKJZ | 07/17/06 20:30 | 102.5 | 103.9 | 101.9 | 109.3 | ☑ |
| 48 | H8GKL | 07/17/06 20:35 | 103.4 | 103.8 | 102.4 | 111.0 | ☑ |
| 49 | H8GKM | 07/17/06 20:39 | 103.2 | 104.1 | 101.6 | 108.6 | ☑ |
| 50 | H8GKQ | 07/17/06 20:43 | 101.9 | 102.9 | 100.2 | 108.0 | ☑ |
| 51 | H8GKR | 07/17/06 20:48 | 103.2 | 104.0 | 102.1 | 110.1 | ☑ |
| 52 | CCV 7 | 07/17/06 20:52 | 103.1 | 100.6 | 102.7 | 108.1 | ☑ |
| 53 | CCB 7 | 07/17/06 20:56 | 103.2 | 102.0 | 101.0 | 106.7 | ☑ |
| 54 | CCV 8 | 07/17/06 21:01 | 102.1 | 100.3 | 101.5 | 106.0 | ☑ |
| 55 | CCB 8 | 07/17/06 21:05 | 104.1 | 102.9 | 101.9 | 108.6 | ☑ |
| 56 | H8GKV | 07/17/06 21:09 | 104.4 | 105.3 | 102.6 | 111.5 | ☑ |
| 57 | H8GKW | 07/17/06 21:14 | 104.2 | 105.3 | 100.8 | 110.5 | ☑ |
| 58 | H8GKX | 07/17/06 21:18 | 104.7 | 105.1 | 102.5 | 111.5 | ☑ |
| 59 | H8GK1 | 07/17/06 21:22 | 104.7 | 104.2 | 102.6 | 111.0 | ☑ |
| 60 | H8GK2 | 07/17/06 21:27 | 104.6 | 104.6 | 102.8 | 109.4 | ☑ |
| 61 | H8GK4 | 07/17/06 21:31 | 105.0 | 105.2 | 103.1 | 111.6 | ☑ |
| 62 | H8GK6 | 07/17/06 21:35 | 104.0 | 104.7 | 102.1 | 110.8 | ☑ |
| 63 | H8GK7 | 07/17/06 21:40 | 104.4 | 104.5 | 102.9 | 111.8 | ☑ |
| 64 | H8GK8 | 07/17/06 21:44 | 105.7 | 105.2 | 103.5 | 110.6 | ☑ |
| 65 | H8GLA | 07/17/06 21:48 | 105.9 | 106.1 | 103.8 | 113.2 | ☑ |
| 66 | CCV 9 | 07/17/06 21:53 | 103.5 | 101.0 | 103.1 | 107.8 | ☑ |
| 67 | CCB 9 | 07/17/06 21:57 | 104.0 | 102.8 | 103.0 | 108.7 | ☑ |
| 70 | CCV 10 | 07/17/06 22:02 | 99.3 | 97.6 | 100.6 | 98.7 | ☑ |
| 71 | CCB 10 | 07/17/06 22:06 | 100.4 | 99.9 | 100.6 | 100.1 | ☑ |
| 72 | H87HNB | 07/17/06 22:10 | 102.7 | 103.4 | 100.9 | 104.2 | ☑ |
| 73 | H87HNC | 07/17/06 22:15 | 99.3 | 102.3 | 103.0 | 103.9 | ☑ |
| 74 | H87HNL | 07/17/06 22:19 | 97.4 | 100.5 | 100.7 | 103.7 | ☑ |
| 75 | H8QTL | 07/17/06 22:23 | 98.5 | 101.7 | 99.5 | 103.3 | ☑ |
| 76 | H8QTLP5 | 07/17/06 22:27 | 98.9 | 99.2 | 99.8 | 101.4 | ☐ |
| 77 | H8QTLZ | 07/17/06 22:32 | 96.9 | 98.8 | 101.4 | 101.7 | ☑ |
| 78 | H8QTN | 07/17/06 22:36 | 97.4 | 99.4 | 99.5 | 102.4 | ☑ |
| 79 | H8QTQ | 07/17/06 22:40 | 97.9 | 100.1 | 100.4 | 102.6 | ☑ |
| 80 | H8QTT | 07/17/06 22:45 | 98.1 | 100.3 | 100.3 | 103.5 | ☑ |
| 81 | H8QTV | 07/17/06 22:49 | 98.5 | 100.4 | 100.3 | 103.3 | ☑ |
| 82 | CCV 11 | 07/17/06 22:53 | 98.0 | 96.4 | 99.8 | 99.6 | ☑ |
| 83 | CCB 11 | 07/17/06 22:58 | 98.1 | 97.8 | 98.1 | 98.7 | ☑ |
| 84 | CCV 12 | 07/17/06 23:02 | 97.7 | 96.1 | 99.3 | 99.3 | ☑ |
| 85 | CCB 12 | 07/17/06 23:06 | 99.9 | 99.1 | 99.1 | 100.3 | ☑ |
| 86 | H8QTW | 07/17/06 23:11 | 100.8 | 102.2 | 101.1 | 104.3 | ☑ |
| 87 | H8QTX | 07/17/06 23:15 | 99.7 | 102.0 | 99.2 | 103.9 | ☑ |
| 88 | H8QT1 | 07/17/06 23:19 | 98.7 | 100.8 | 99.2 | 103.6 | ☑ |
| 89 | H8QT2 | 07/17/06 23:24 | 98.3 | 100.4 | 99.4 | 102.2 | ☑ |
| 90 | H8QT3 | 07/17/06 23:28 | 97.6 | 99.0 | 98.6 | 101.8 | ☑ |
| 91 | H8QT5 | 07/17/06 23:32 | 97.8 | 98.9 | 99.3 | 102.7 | ☑ |
| 92 | H8QT6 | 07/17/06 23:37 | 97.5 | 100.0 | 98.9 | 101.4 | ☑ |
| 93 | H8QT7 | 07/17/06 23:41 | 97.0 | 98.7 | 99.1 | 102.9 | ☑ |
| 94 | H8QT8 | 07/17/06 23:45 | 99.4 | 101.1 | 99.1 | 102.2 | ☑ |

STL Sacramento

# INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 07/18/06 18:22:25

**File ID:** **060717B1** **Analyst: ionesb**

| # | Sample ID | Analyzed Date | Germanium | Indium | Lithium-6 | Thulium | Q |
|---|---|---|---|---|---|---|---|
| 95 | H8QT9 | 07/17/06 23:50 | 100.4 | 101.5 | 100.2 | 104.3 | ☑ |
| 96 | CCV 13 | 07/17/06 23:54 | 97.1 | 95.5 | 97.6 | 98.3 | ☑ |
| 97 | CCB 13 | 07/17/06 23:58 | 98.0 | 96.5 | 98.0 | 99.1 | ☑ |

**STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report**

File Name: 6193191.mth
File Path: C:\elandata\Method\6193191.mth

**Timing Parameters**

Sweeps/Reading: 50
Readings/Replicate: 1
Number of Replicates: 3
Tuning File: default.tun
Optimization File: default.dac
QC Enabled: Yes
Settling Time: Normal

| Analyte | Mass | Scan Mode | MCA Channels | Dwell Time | Integration Time |
|---|---|---|---|---|---|
| Sc | 44.956 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Li-1 | 6.015 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Be | 9.012 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Al | 26.982 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Ca | 43.956 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| V | 50.944 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Cr | 51.941 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Mn | 54.938 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Fe | 53.940 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Fe | 56.935 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Co | 58.933 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Ni | 59.933 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Cu | 64.928 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Zn | 67.925 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| As | 74.922 | Peak Hopping | 1 | 20.0 ms | 1000 ms |
| Se | 81.917 | Peak Hopping | 1 | 20.0 ms | 1000 ms |
| Mo | 96.906 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Ge-1 | 71.922 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Ag | 106.905 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Cd | 110.904 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Sb | 120.904 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Ba | 134.906 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| In-1 | 114.904 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Tl | 204.975 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Pb | 207.977 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Tm-1 | 168.934 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Cr | 49.946 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Cr | 52.941 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Ni | 60.931 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Cu | 62.930 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Zn | 66.927 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Zn | 65.926 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Se | 75.919 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Se | 76.920 | Peak Hopping | 1 | 20.0 ms | 1000 ms |
| Se | 77.917 | Peak Hopping | 1 | 20.0 ms | 1000 ms |
| Br | 78.918 | Peak Hopping | 1 | 20.0 ms | 1000 ms |
| Ge | 71.922 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Cd | 107.904 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| Cd | 113.904 | Peak Hopping | 1 | 14.0 ms | 700 ms |

| | | | | | |
|---|---|---|---|---|---|
| Ag | 108.905 | Peak Hopping | 1 | 5.0 ms | 250 ms |
| In | 114.904 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| 207.977 | 207.977 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Pb | 206.976 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Pb | 205.975 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Tm | 168.934 | Peak Hopping | 1 | 14.0 ms | 700 ms |
| Pd | 105.903 | Peak Hopping | 1 | 14.0 ms | 700 ms |

**Signal Processing**

| | |
|---|---|
| Detector Mode: | Dual |
| Measurement Units: | Counts |
| AutoLens: | On |
| Spectral Peak Processing: | Average |
| Signal Profile Processing: | Average |
| Blank Subtraction: | After Internal Standard |
| Baseline Readings: | 0 |
| Smoothing: | Yes, Factor 5 |

**Equations**

| Analyte | Mass | Corrections |
|---|---|---|
| V | 50.944 | -3.108 * Cr 53 + 0.3524 * Cr 52 |
| Fe | 53.940 | - 0.028226 * Cr 52 |
| Fe | 56.935 | -0.074 * Ca 43 |
| Ni | 59.933 | -0.005 * Ca 43 |
| Cu | 64.928 | -0.0078 * Ti 49 |
| As | 74.922 | -3.1278 * Se 77 + 1.0177 * Se 78 |
| Se | 81.917 | - 0.0035 * Br 79 |
| Cd | 110.904 | -1.073 * Pd 108 + 0.712 * Pd 106 |
| In-1 | 114.904 | - 0.014032 * Sn 118 |
| Pb | 207.977 | + 1.0 * Pb 207 + 1.0 * Pb 206 |
| Cr | 49.946 | - 0.739726 * Ti 47 - 0.002506 * V 51 |
| Se | 75.919 | - 0.268980 * Ge 72 |
| Se | 77.917 | - 0.030435 * Kr 83 |
| Cd | 107.904 | - 1.184953 * Pd 105 |
| Cd | 113.904 | - 0.026826 * Sn 118 |
| In | 114.904 | - 0.014032 * Sn 118 |

**Calibration Information**

| Analyte | Mass | Curve Type | Sample Units | Std Units | Std 1 | Std 2 | Std 3 | Std 4 |
|---|---|---|---|---|---|---|---|---|
| Sc | 44.956 | Linear Thru Zero | ug/L | ug/L | | | | |
| Li-1 | 6.015 | Linear Thru Zero | ug/L | ug/L | | | | |
| Be | 9.012 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Al | 26.982 | Linear Thru Zero | ug/L | ug/L | 5.1e+003 | | | |
| Ca | 43.956 | Linear Thru Zero | ug/L | ug/L | 5.1e+003 | | | |
| V | 50.944 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Cr | 51.941 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Mn | 54.938 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Fe | 53.940 | Linear Thru Zero | ug/L | ug/L | 5.1e+003 | | | |
| Fe | 56.935 | Linear Thru Zero | ug/L | ug/L | 5.1e+003 | | | |
| Co | 58.933 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Ni | 59.933 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Cu | 64.928 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| Zn | 67.925 | Linear Thru Zero | ug/L | ug/L | 100 | | | |
| As | 74.922 | Linear Thru Zero | ug/L | ug/L | 100 | | | |

| | | | | | |
|---|---|---|---|---|---|
| Se | 81.917 | Linear Thru Zero | ug/L | ug/L | 100 |
| Mo | 96.906 | Linear Thru Zero | ug/L | ug/L | 200 |
| Ge-1 | 71.922 | Linear Thru Zero | ug/L | ug/L | |
| Ag | 106.905 | Linear Thru Zero | ug/L | ug/L | 50 |
| Cd | 110.904 | Linear Thru Zero | ug/L | ug/L | 100 |
| Sb | 120.904 | Linear Thru Zero | ug/L | ug/L | 50 |
| Ba | 134.906 | Linear Thru Zero | ug/L | ug/L | 100 |
| In-1 | 114.904 | Linear Thru Zero | ug/L | ug/L | |
| Tl | 204.975 | Linear Thru Zero | ug/L | ug/L | 50 |
| Pb | 207.977 | Linear Thru Zero | ug/L | ug/L | 100 |
| Tm-1 | 168.934 | Linear Thru Zero | ug/L | ug/L | |
| Cr | 49.946 | Linear Thru Zero | ug/L | ug/L | 100 |
| Cr | 52.941 | Linear Thru Zero | ug/L | ug/L | 100 |
| Ni | 60.931 | Linear Thru Zero | ug/L | ug/L | 100 |
| Cu | 62.930 | Linear Thru Zero | ug/L | ug/L | 100 |
| Zn | 66.927 | Linear Thru Zero | ug/L | ug/L | 100 |
| Zn | 65.926 | Linear Thru Zero | ug/L | ug/L | 100 |
| Se | 75.919 | Linear Thru Zero | ug/L | ug/L | 100 |
| Se | 76.920 | Linear Thru Zero | ug/L | ug/L | 100 |
| Se | 77.917 | Linear Thru Zero | ug/L | ug/L | 100 |
| Br | 78.918 | Linear Thru Zero | ug/L | ug/L | 100 |
| Ge | 71.922 | Linear Thru Zero | ug/L | ug/L | |
| Cd | 107.904 | Linear Thru Zero | ug/L | ug/L | 100 |
| Cd | 113.904 | Linear Thru Zero | ug/L | ug/L | 100 |
| Ag | 108.905 | Linear Thru Zero | ug/L | ug/L | 50 |
| In | 114.904 | Linear Thru Zero | ug/L | ug/L | |
| 207.97 | 207.977 | Linear Thru Zero | ug/L | ug/L | 100 |
| Pb | 206.976 | Linear Thru Zero | ug/L | ug/L | 100 |
| Pb | 205.975 | Linear Thru Zero | ug/L | ug/L | 100 |
| Tm | 168.934 | Linear Thru Zero | ug/L | ug/L | |
| Pd | 105.903 | Linear Thru Zero | ug/L | ug/L | 100 |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8**

**AIR TOX STANDARDS - 4 % $HNO_3$, 0.5 % HCl**

## Standards for run:

Tuning standard: 2532-67B

Internal standard: 2830-2C

Blank, CCBs: 2531-26A

Standard 1, CCVs: 2830-3C

ICV: 2532-63D

ICSA: 2830-3A

ICSAB: 2830-3D

File Number: **060717B1**

# Instrument Tuning Report - Elan 6000

File Name: default.tun

## Sample Information

Sample Date/Time: Monday, July 17, 2006 12:24:24

Sample ID: TUNE BJONES

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Meas. Pk. Width | Res. DAC | Custom Res. |
|---|---|---|---|---|---|---|
| Li | 7.016 | 6.976 | 1556 | 0.758 | 2035 | |
| Be | 9.012 | 9.029 | 2064 | 0.744 | 2024 | |
| Co | 58.933 | 58.978 | 14290 | 0.755 | 1896 | |
| In | 114.904 | 114.879 | 27948 | 0.740 | 1863 | |
| Ce | 139.905 | 139.879 | 34026 | 0.732 | 1908 | |
| Tl | 204.975 | 204.979 | 49739 | 0.719 | 2132 | |
| Pb | 207.977 | 207.979 | 50476 | 0.720 | 2150 | |
| U | 238.050 | 238.076 | 57686 | 0.714 | 2313 | |

Report Date/Time: Monday, July 17, 2006 13:43:12

# Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

**Sample Information**

Sample Date/Time: Monday, July 17, 2006 12:24:24
Sample ID: TUNE BJONES

**Parameter Settings**

| | |
|---|---|
| Nebulizer Gas Flow | 0.9 |
| Lens Voltage | 6.5 |
| ICP RF Power | 1100.0 |
| Analog Stage Voltage | -2000.0 |
| Pulse Stage Voltage | 1400.0 |
| Discriminator Threshold | 70.0 |
| AC Rod Offset | -7.0 |
| Service DAC 1 | 60.0 |
| Quadrupole Rod Offset | 0.0 |

**AutoLens Calibration**

| | |
|---|---|
| Date: | 12:26:50 Mon 17-Jul-06 |
| Sample Filename: | AUTOLENS BJONES.002 |
| Dataset Pathname: | 060717A1\ |
| Lens Voltage Start: | 4.50 V |
| Lens Voltage End: | 8.50 V |
| Lens Voltage Step: | 0.25 V |
| Slope: | 0.0165 |
| Intercept: | 6.1632 |

| Analyte | Mass | Optimum Voltage | Maximum Intensity | # Points |
|---|---|---|---|---|
| Be | 9.012 | 6.3 V | 5020 cps | 17 |
| Co | 58.933 | 7.3 V | 186772 cps | 17 |
| In | 114.904 | 8.0 V | 358619 cps | 17 |

**Dual Detector Calibration**

| | |
|---|---|
| Date: | 16:40:06 Sat 01-Jul-06 |
| Sample Filename: | DUAL BJONES.756 |
| Dataset Pathname: | c:\elandata\Dataset\dual detector calibration\ |
| Points Acquired: | 37 |
| Lens Voltage Start: | -3.00 V |
| Lens Voltage End: | 15.00 V |
| Lens Voltage Step: | 0.50 V |

| Analyte | Mass | Gain | N(max) |
|---|---|---|---|
| Li | 6.013 | 6622 | 1.89e+009 cps |
| Li | 7.016 | 6011 | 2.08e+009 cps |
| Be | 9.011 | 5753 | 2.18e+009 cps |
| B | 11.010 | 5957 | 2.10e+009 cps |
| Na | 22.991 | 6030 | 2.08e+009 cps |

Report Date/Time: Monday, July 17, 2006 13:43:21

| | | | | |
|---|---|---|---|---|
| Mg | 23.987 | 5609 | 2.23e+009 | cps |
| Mg | 24.987 | 5239 | 2.39e+009 | cps |
| Al | 26.983 | 5294 | 2.36e+009 | cps |
| P | 30.996 | 4828 | 2.59e+009 | cps |
| K | 38.964 | 4742 | 2.64e+009 | cps |
| Ca | 42.960 | | | cps |
| Ca | 43.956 | 4694 | 2.67e+009 | cps |
| Sc | 44.956 | 4740 | 2.64e+009 | cps |
| V | 50.944 | 4676 | 2.68e+009 | cps |
| Cr | 51.940 | 4456 | 2.81e+009 | cps |
| Fe | 53.940 | 4410 | 2.84e+009 | cps |
| Mn | 54.936 | 4441 | 2.82e+009 | cps |
| Fe | 56.937 | 4236 | 2.96e+009 | cps |
| Co | 58.934 | 4249 | 2.95e+009 | cps |
| Ni | 59.933 | 4105 | 3.05e+009 | cps |
| Cu | 62.930 | 3979 | 3.15e+009 | cps |
| Cu | 64.928 | 3997 | 3.13e+009 | cps |
| Zn | 67.925 | 4017 | 3.12e+009 | cps |
| Ge | 71.921 | 4087 | 3.06e+009 | cps |
| As | 74.922 | | | cps |
| Se | 77.919 | 4165 | 3.01e+009 | cps |
| Br | 78.918 | | | cps |
| Se | 81.919 | 3973 | 3.15e+009 | cps |
| Sr | 87.904 | 4079 | 3.07e+009 | cps |
| Mo | 96.907 | 4076 | 3.07e+009 | cps |
| Ag | 106.905 | 3477 | 3.60e+009 | cps |
| Ag | 108.903 | 3565 | 3.51e+009 | cps |
| Cd | 110.905 | 3765 | 3.32e+009 | cps |
| Cd | 113.902 | 3825 | 3.27e+009 | cps |
| In | 114.904 | 3802 | 3.29e+009 | cps |
| Sn | 117.902 | 3827 | 3.27e+009 | cps |
| Sb | 120.904 | 3749 | 3.34e+009 | cps |
| Ba | 134.908 | 3706 | 3.38e+009 | cps |
| Tm | 168.933 | 3655 | 3.42e+009 | cps |
| Tl | 204.975 | 3492 | 3.59e+009 | cps |
| Pb | 207.975 | 3469 | 3.61e+009 | cps |
| Bi | 208.979 | 3451 | 3.63e+009 | cps |
| U | 238.050 | 3444 | 3.63e+009 | cps |

# Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Monday, July 17, 2006 12:29:18
Sample Description:
Sample File: C:\elandata\Sample\6186096R.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\060717A1\DAILY BJONES.003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

## Summary

| | Analyte | Mass | Net Intens. Mean | Net Intens. SD | Net Intens. RSD |
|---|---|---|---|---|---|
| | Mg | 24 | 55819.797 | 614.919 | 1.102 |
| | Rh | 103 | 248670.647 | 1751.685 | 0.704 |
| | Pb | 208 | 148774.770 | 1583.060 | 1.064 |
| ⌈> | Ba | 138 | 249131.450 | 3247.354 | 1.303 |
| ⌊ | Ba++ | 69 | 0.026 | 0.001 | 3.296 |
| ⌈> | Ce | 140 | 314078.223 | 5104.706 | 1.625 |
| ⌊ | CeO | 156 | 0.030 | 0.001 | 2.742 |
| | Bkgd | 220 | 7.143 | 3.350 | 46.904 |
| | Li | 7 | 15748.487 | 201.291 | 1.278 |
| | Be | 9 | 5033.013 | 85.639 | 1.702 |
| | Co | 59 | 156383.915 | 1188.091 | 0.760 |
| | In | 115 | 333177.782 | 5333.449 | 1.601 |
| | Tl | 205 | 215626.782 | 1009.020 | 0.468 |

**Sample ID: H8A94 n.i.**
Sample Description: G6F270335-1 N.I.
Batch ID: 6193191
Sample Date/Time: Monday, July 17, 2006 17:10:26
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060717B1\H8A94 n.i..001
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 27
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 6 | Li | | | 667.637 | ug/L | 0.000 |
| 45 | Sc | | | 15704.626 | ug/L | 0.000 |
| 69 | Ga | | | 26130.619 | ug/L | 0.000 |
| 72 | Ge | | | 6951.933 | ug/L | 0.000 |
| 89 | Y | | | 12721.709 | ug/L | 0.000 |
| 103 | Rh | | | 222.859 | ug/L | 0.000 |
| 115 | In | | | 1277.554 | ug/L | 0.000 |
| 133 | Cs | | | 17975.296 | ug/L | 0.000 |
| 165 | Ho | | | 461.913 | ug/L | 0.000 |
| 169 | Tm | | | 912.414 | ug/L | 0.000 |
| 209 | Bi | | | 36934.009 | ug/L | 0.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Li | 6 | 93.414 |
| Sc | 45 | |
| Ga | 69 | |
| Ge | 72 | |
| Y | 89 | |
| Rh | 103 | |
| In | 115 | 103.634 |
| Cs | 133 | |
| Ho | 165 | 101.459 |
| Tm | 169 | |
| Bi | 209 | |

**Sample ID: H8L2H n.i.**
Sample Description: G6G010204-3 N.I.
Batch ID: 6193191
Sample Date/Time: Monday, July 17, 2006 17:13:12
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060717B1\H8L2H n.i..002
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 31
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 6 | Li | | | 653.350 | ug/L | 0.000 |
| 45 | Sc | | | 13758.997 | ug/L | 0.000 |
| 69 | Ga | | | 14873.607 | ug/L | 0.000 |
| 72 | Ge | | | 4225.476 | ug/L | 0.000 |
| 89 | Y | | | 10577.331 | ug/L | 0.000 |
| 103 | Rh | | | 298.099 | ug/L | 0.000 |
| 115 | In | | | 1048.835 | ug/L | 0.000 |
| 133 | Cs | | | 7912.981 | ug/L | 0.000 |
| 165 | Ho | | | 324.290 | ug/L | 0.000 |
| 169 | Tm | | | 664.780 | ug/L | 0.000 |
| 209 | Bi | | | 6908.099 | ug/L | 0.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Li | 6 | 93.414 |
| Sc | 45 | |
| Ga | 69 | |
| Ge | 72 | |
| Y | 89 | |
| Rh | 103 | |
| In | 115 | 103.634 |
| Cs | 133 | |
| Ho | 165 | 101.459 |
| Tm | 169 | |
| Bi | 209 | |

**Sample ID: H8T13 n.i.**
Sample Description: G6G070251-4 N.I.
Batch ID: 6193191
Sample Date/Time: Monday, July 17, 2006 17:16:00
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060717B1\H8T13 n.i..003
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 34
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 6 | Li | | | 630.968 | ug/L | 0.000 |
| 45 | Sc | | | 11531.508 | ug/L | 0.000 |
| 69 | Ga | | | 11250.775 | ug/L | 0.000 |
| 72 | Ge | | | 3630.051 | ug/L | 0.000 |
| 89 | Y | | | 5854.228 | ug/L | 0.000 |
| 103 | Rh | | | 201.906 | ug/L | 0.000 |
| 115 | In | | | 694.647 | ug/L | 0.000 |
| 133 | Cs | | | 9211.012 | ug/L | 0.000 |
| 165 | Ho | | | 215.240 | ug/L | 0.000 |
| 169 | Tm | | | 473.819 | ug/L | 0.000 |
| 209 | Bi | | | 20816.371 | ug/L | 0.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Li | 6 | 93.414 |
| Sc | 45 | |
| Ga | 69 | |
| Ge | 72 | |
| Y | 89 | |
| Rh | 103 | |
| In | 115 | 103.634 |
| Cs | 133 | |
| Ho | 165 | 101.459 |
| Tm | 169 | |
| Bi | 209 | |

**Sample ID: H8GKJ n.i.**
Sample Description: G6F290300-1 N.I.
Batch ID: 6193489
Sample Date/Time: Monday, July 17, 2006 17:18:47
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060717B1\H8GKJ n.i..004
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 46
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 6 | Li | | | 704.306 | ug/L | 0.000 |
| 45 | Sc | | | 18086.409 | ug/L | 0.000 |
| 69 | Ga | | | 8016.379 | ug/L | 0.000 |
| 72 | Ge | | | 1642.489 | ug/L | 0.000 |
| 89 | Y | | | 11169.750 | ug/L | 0.000 |
| 103 | Rh | | | 218.097 | ug/L | 0.000 |
| 115 | In | | | 746.082 | ug/L | 0.000 |
| 133 | Cs | | | 7268.303 | ug/L | 0.000 |
| 165 | Ho | | | 451.913 | ug/L | 0.000 |
| 169 | Tm | | | 607.634 | ug/L | 0.000 |
| 209 | Bi | | | 1367.694 | ug/L | 0.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Li | 6 | 93.414 |
| Sc | 45 | |
| Ga | 69 | |
| Ge | 72 | |
| Y | 89 | |
| Rh | 103 | |
| In | 115 | 103.634 |
| Cs | 133 | |
| Ho | 165 | 101.459 |
| Tm | 169 | |
| Bi | 209 | |

**Sample ID: H8QTL n.i.**
Sample Description: G6G060239-1 N.I.
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 17:21:32
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTL n.i..005
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 64
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 6 | Li | | | 710.973 | ug/L | 0.000 |
| 45 | Sc | | | 13211.270 | ug/L | 0.000 |
| 69 | Ga | | | 5112.951 | ug/L | 0.000 |
| 72 | Ge | | | 1280.066 | ug/L | 0.000 |
| 89 | Y | | | 5785.149 | ug/L | 0.000 |
| 103 | Rh | | | 40.000 | ug/L | 0.000 |
| 115 | In | | | 1091.559 | ug/L | 0.000 |
| 133 | Cs | | | 3870.599 | ug/L | 0.000 |
| 165 | Ho | | | 235.240 | ug/L | 0.000 |
| 169 | Tm | | | 496.200 | ug/L | 0.000 |
| 209 | Bi | | | 1106.716 | ug/L | 0.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Li | 6 | 93.414 |
| Sc | 45 | |
| Ga | 69 | |
| Ge | 72 | |
| Y | 89 | |
| Rh | 103 | |
| In | 115 | 103.634 |
| Cs | 133 | |
| Ho | 165 | 101.459 |
| Tm | 169 | |
| Bi | 209 | |

**Sample ID: Rinse 3X**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:26:29
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\Rinse 3X.006
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 6
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1025054.098 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 509676.876 | ug/L | 517895.891 |
| 9 | Be | 0.004868 | 90.900 | 2.333 | ug/L | 0.667 |
| 27 | Al | -0.060569 | 37.096 | 16246.068 | ug/L | 16546.635 |
| 44 | Ca | 0.882056 | 67.769 | 17211.912 | ug/L | 16941.051 |
| 51 | V | 0.295973 | 82.458 | -37278.143 | ug/L | -40229.573 |
| 52 | Cr | -0.080802 | 26.927 | 27793.406 | ug/L | 28466.564 |
| 55 | Mn | 0.001358 | 231.850 | 1755.176 | ug/L | 1731.838 |
| 54 | Fe | -2.970718 | 23.589 | 98675.263 | ug/L | 100632.136 |
| 57 | Fe | 0.423395 | 254.013 | 16876.770 | ug/L | 16706.412 |
| 59 | Co | -0.000365 | 250.989 | 66.334 | ug/L | 70.334 |
| 60 | Ni | -0.010701 | 49.925 | 70.585 | ug/L | 96.227 |
| 65 | Cu | -0.003300 | 158.150 | 111.065 | ug/L | 118.329 |
| 68 | Zn | 0.393799 | 100.728 | 2936.164 | ug/L | 2597.056 |
| 75 | As | -0.045241 | 684.851 | 13250.242 | ug/L | 13310.662 |
| 82 | Se | 0.069279 | 504.296 | 1330.582 | ug/L | 1314.299 |
| 97 | Mo | 0.003503 | 93.744 | 21.667 | ug/L | 15.667 |
| 72 | Ge-1 | | | 808327.103 | ug/L | 806434.181 |
| 107 | Ag | 0.000481 | 69.136 | 28.000 | ug/L | 24.000 |
| 111 | Cd | 0.004094 | 13.068 | 16.471 | ug/L | 9.169 |
| 121 | Sb | -0.001217 | 98.046 | 45.667 | ug/L | 52.333 |
| 135 | Ba | -0.004427 | 24.470 | 128.001 | ug/L | 134.334 |
| 115 | In-1 | | | 780835.377 | ug/L | 779344.025 |
| 205 | Tl | -0.000364 | 33.007 | 39.667 | ug/L | 44.333 |
| 208 | Pb | 0.002122 | 133.278 | 488.005 | ug/L | 445.338 |
| 169 | Tm-1 | | | 491293.713 | ug/L | 486382.024 |
| 50 | Cr | 0.119061 | 115.457 | -826.130 | ug/L | -846.502 |
| 53 | Cr | -3.696926 | 39.211 | 142175.801 | ug/L | 144961.310 |
| 61 | Ni | 0.367112 | 265.469 | 1819.530 | ug/L | 1800.519 |
| 63 | Cu | -0.010198 | 54.149 | 59.667 | ug/L | 77.668 |
| 67 | Zn | 1.517168 | 39.205 | 1978.626 | ug/L | 1863.889 |
| 66 | Zn | 0.359396 | 135.004 | 1290.271 | ug/L | 1133.878 |
| 76 | Se | 2.292110 | 781.879 | -104837.949 | ug/L | -104694.433 |
| 77 | Se | -2.723786 | 47.102 | 12926.682 | ug/L | 13238.006 |
| 78 | Se | -0.306180 | 132.045 | 15729.419 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 15.884867 | 356.550 | 35953.322 | ug/L | 35557.190 |
| 72 | Ge | | | 808327.103 | ug/L | 806434.181 |
| 108 | Cd | 0.003465 | 367.642 | 5.148 | ug/L | 4.692 |
| 114 | Cd | 0.001013 | 855.231 | 10.105 | ug/L | 5.763 |
| 109 | Ag | 0.000363 | 796.254 | 8.667 | ug/L | 7.667 |
| 115 | In | | | 780835.377 | ug/L | 779344.025 |
| 208 | 207.977 | 0.004257 | 51.790 | 264.337 | ug/L | 223.336 |
| 207 | Pb | -0.002839 | 119.160 | 93.334 | ug/L | 103.001 |
| 206 | Pb | 0.001990 | 183.238 | 130.334 | ug/L | 119.001 |
| 169 | Tm | | | 491293.713 | ug/L | 486382.024 |
| 106 | Pd | 0.024074 | 95.779 | 8.333 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 98.413 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 100.235 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.191 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 101.010 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 100.235 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.191 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 101.010 |
| Pd | 106 | |

**Sample ID: Blank**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:31:05
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\Blank.007
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1035979.525 | ug/L | |
| 6 | Li-1 | | | 517895.891 | ug/L | |
| 9 | Be | | | 0.667 | ug/L | |
| 27 | Al | | | 16546.635 | ug/L | |
| 44 | Ca | | | 16941.051 | ug/L | |
| 51 | V | | | -40229.573 | ug/L | |
| 52 | Cr | | | 28466.564 | ug/L | |
| 55 | Mn | | | 1731.838 | ug/L | |
| 54 | Fe | | | 100632.136 | ug/L | |
| 57 | Fe | | | 16706.412 | ug/L | |
| 59 | Co | | | 70.334 | ug/L | |
| 60 | Ni | | | 96.227 | ug/L | |
| 65 | Cu | | | 118.329 | ug/L | |
| 68 | Zn | | | 2597.056 | ug/L | |
| 75 | As | | | 13310.662 | ug/L | |
| 82 | Se | | | 1314.299 | ug/L | |
| 97 | Mo | | | 15.667 | ug/L | |
| 72 | Ge-1 | | | 806434.181 | ug/L | |
| 107 | Ag | | | 24.000 | ug/L | |
| 111 | Cd | | | 9.169 | ug/L | |
| 121 | Sb | | | 52.333 | ug/L | |
| 135 | Ba | | | 134.334 | ug/L | |
| 115 | In-1 | | | 779344.025 | ug/L | |
| 205 | Tl | | | 44.333 | ug/L | |
| 208 | Pb | | | 445.338 | ug/L | |
| 169 | Tm-1 | | | 486382.024 | ug/L | |
| 50 | Cr | | | -846.502 | ug/L | |
| 53 | Cr | | | 144961.310 | ug/L | |
| 61 | Ni | | | 1800.519 | ug/L | |
| 63 | Cu | | | 77.668 | ug/L | |
| 67 | Zn | | | 1863.889 | ug/L | |
| 66 | Zn | | | 1133.878 | ug/L | |
| 76 | Se | | | -104694.433 | ug/L | |
| 77 | Se | | | 13238.006 | ug/L | |
| 78 | Se | | | 15837.476 | ug/L | |

| | | | |
|---|---|---|---|
| 79 | Br | 35557.190 | ug/L |
| 72 | Ge | 806434.181 | ug/L |
| 108 | Cd | 4.692 | ug/L |
| 114 | Cd | 5.763 | ug/L |
| 109 | Ag | 7.667 | ug/L |
| 115 | In | 779344.025 | ug/L |
| 208 | 207.977 | 223.336 | ug/L |
| 207 | Pb | 103.001 | ug/L |
| 206 | Pb | 119.001 | ug/L |
| 169 | Tm | 486382.024 | ug/L |
| 106 | Pd | 4.667 | ug/L |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | |
| Pd | 106 | |

**Sample ID: Standard 1**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:35:37
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\Standard 1.008
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1010775.528 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 508969.311 | ug/L | 517895.891 |
| 9 | Be | 100.000000 | 1.153 | 34415.885 | ug/L | 0.667 |
| 27 | Al | 5100.000000 | 0.538 | 27853210.980 | ug/L | 16546.635 |
| 44 | Ca | 5100.000000 | 0.305 | 1321813.405 | ug/L | 16941.051 |
| 51 | V | 100.000000 | 0.924 | 965163.337 | ug/L | -40229.573 |
| 52 | Cr | 100.000000 | 0.064 | 920223.879 | ug/L | 28466.564 |
| 55 | Mn | 100.000000 | 1.789 | 1398009.315 | ug/L | 1731.838 |
| 54 | Fe | 5100.000000 | 0.230 | 3767997.147 | ug/L | 100632.136 |
| 57 | Fe | 5100.000000 | 0.724 | 1571582.483 | ug/L | 16706.412 |
| 59 | Co | 100.000000 | 0.489 | 1106520.250 | ug/L | 70.334 |
| 60 | Ni | 100.000000 | 0.372 | 236117.235 | ug/L | 96.227 |
| 65 | Cu | 100.000000 | 0.512 | 224346.598 | ug/L | 118.329 |
| 68 | Zn | 100.000000 | 1.472 | 84691.643 | ug/L | 2597.056 |
| 75 | As | 100.000000 | 0.334 | 206672.030 | ug/L | 13310.662 |
| 82 | Se | 100.000000 | 1.204 | 20229.806 | ug/L | 1314.299 |
| 97 | Mo | 200.000000 | 0.958 | 332697.576 | ug/L | 15.667 |
| 72 | Ge-1 | | | 788087.965 | ug/L | 806434.181 |
| 107 | Ag | 50.000000 | 1.323 | 396058.244 | ug/L | 24.000 |
| 111 | Cd | 100.000000 | 1.536 | 170996.669 | ug/L | 9.169 |
| 121 | Sb | 50.000000 | 0.722 | 268932.237 | ug/L | 52.333 |
| 135 | Ba | 100.000000 | 1.688 | 143144.039 | ug/L | 134.334 |
| 115 | In-1 | | | 751122.756 | ug/L | 779344.025 |
| 205 | Tl | 50.000000 | 1.565 | 690766.327 | ug/L | 44.333 |
| 208 | Pb | 100.000000 | 0.947 | 1767741.730 | ug/L | 445.338 |
| 169 | Tm-1 | | | 483665.466 | ug/L | 486382.024 |
| 50 | Cr | 100.000000 | 5.323 | 17513.471 | ug/L | -846.502 |
| 53 | Cr | 100.000000 | 6.061 | 224011.807 | ug/L | 144961.310 |
| 61 | Ni | 100.000000 | 2.180 | 5722.903 | ug/L | 1800.519 |
| 63 | Cu | 100.000000 | 1.020 | 173661.003 | ug/L | 77.668 |
| 67 | Zn | 100.000000 | 1.563 | 8920.048 | ug/L | 1863.889 |
| 66 | Zn | 100.000000 | 1.254 | 42630.859 | ug/L | 1133.878 |
| 76 | Se | 100.000000 | 17.186 | -97820.350 | ug/L | -104694.433 |
| 77 | Se | 100.000000 | 2.738 | 25213.408 | ug/L | 13238.006 |
| 78 | Se | 100.000000 | 0.261 | 61609.682 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 100.000000 | 47.589 | 36693.139 | ug/L | 35557.190 |
| 72 | Ge | | | 788087.965 | ug/L | 806434.181 |
| 108 | Cd | 100.000000 | 2.272 | 12228.737 | ug/L | 4.692 |
| 114 | Cd | 100.000000 | 1.223 | 402745.472 | ug/L | 5.763 |
| 109 | Ag | 50.000000 | 0.729 | 137845.737 | ug/L | 7.667 |
| 115 | In | | | 751122.756 | ug/L | 779344.025 |
| 208 | 207.977 | 100.000000 | 1.051 | 895374.403 | ug/L | 223.336 |
| 207 | Pb | 100.000000 | 1.729 | 372142.426 | ug/L | 103.001 |
| 206 | Pb | 100.000000 | 0.835 | 500224.901 | ug/L | 119.001 |
| 169 | Tm | | | 483665.466 | ug/L | 486382.024 |
| 106 | Pd | 100.000000 | 1.446 | 15235.588 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: ICV**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:39:51
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\ICV .009
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1019945.732 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 521082.832 | ug/L | 517895.891 |
| 9 | Be | 81.060127 | 0.812 | 28561.544 | ug/L | 0.667 |
| 27 | Al | 816.968026 | 0.447 | 4537210.099 | ug/L | 16546.635 |
| 44 | Ca | 882.648081 | 0.971 | 245802.574 | ug/L | 16941.051 |
| 51 | V | 80.443130 | 0.515 | 779344.642 | ug/L | -40229.573 |
| 52 | Cr | 81.178834 | 0.669 | 762639.524 | ug/L | 28466.564 |
| 55 | Mn | 80.663132 | 1.503 | 1143462.008 | ug/L | 1731.838 |
| 54 | Fe | 819.832800 | 0.890 | 697739.252 | ug/L | 100632.136 |
| 57 | Fe | 811.172550 | 1.227 | 267334.674 | ug/L | 16706.412 |
| 59 | Co | 82.088241 | 1.156 | 920825.784 | ug/L | 70.334 |
| 60 | Ni | 82.910935 | 1.275 | 198476.339 | ug/L | 96.227 |
| 65 | Cu | 82.992084 | 1.229 | 188773.304 | ug/L | 118.329 |
| 68 | Zn | 80.872395 | 1.785 | 69922.281 | ug/L | 2597.056 |
| 75 | As | 79.143772 | 0.606 | 168577.206 | ug/L | 13310.662 |
| 82 | Se | 80.912171 | 1.481 | 16843.054 | ug/L | 1314.299 |
| 97 | Mo | 80.506536 | 1.370 | 135773.636 | ug/L | 15.667 |
| 72 | Ge-1 | | | 798987.650 | ug/L | 806434.181 |
| 107 | Ag | 40.714910 | 1.184 | 330403.659 | ug/L | 24.000 |
| 111 | Cd | 80.392862 | 0.565 | 140838.872 | ug/L | 9.169 |
| 121 | Sb | 39.751880 | 0.252 | 219051.739 | ug/L | 52.333 |
| 135 | Ba | 79.389374 | 1.535 | 116456.249 | ug/L | 134.334 |
| 115 | In-1 | | | 769463.610 | ug/L | 779344.025 |
| 205 | Tl | 39.862452 | 1.816 | 567043.464 | ug/L | 44.333 |
| 208 | Pb | 82.132879 | 0.352 | 1495064.728 | ug/L | 445.338 |
| 169 | Tm-1 | | | 498015.533 | ug/L | 486382.024 |
| 50 | Cr | 75.029334 | 2.139 | 13111.693 | ug/L | -846.502 |
| 53 | Cr | 77.550922 | 5.211 | 208340.267 | ug/L | 144961.310 |
| 61 | Ni | 77.687207 | 1.351 | 4905.180 | ug/L | 1800.519 |
| 63 | Cu | 82.578375 | 0.848 | 145393.389 | ug/L | 77.668 |
| 67 | Zn | 80.120060 | 3.267 | 7611.594 | ug/L | 1863.889 |
| 66 | Zn | 80.098949 | 0.948 | 34839.800 | ug/L | 1133.878 |
| 76 | Se | 83.806766 | 5.855 | -99911.468 | ug/L | -104694.433 |
| 77 | Se | 77.688581 | 3.078 | 22783.412 | ug/L | 13238.006 |
| 78 | Se | 78.787007 | 1.645 | 52538.107 | ug/L | 15837.476 |

| | | | | | |
|---|---|---|---|---|---|
| 79 Br | 394.454241 | 3.328 | 42997.160 | ug/L | 35557.190 |
| 72 Ge | | | 798987.650 | ug/L | 806434.181 |
| 108 Cd | 75.589986 | 1.031 | 9471.450 | ug/L | 4.692 |
| 114 Cd | 80.997788 | 0.375 | 334203.528 | ug/L | 5.763 |
| 109 Ag | 40.757308 | 3.190 | 115102.702 | ug/L | 7.667 |
| 115 In | | | 769463.610 | ug/L | 779344.025 |
| 208 207.977 | 82.929290 | 0.998 | 764600.596 | ug/L | 223.336 |
| 207 Pb | 80.411061 | 0.946 | 308135.456 | ug/L | 103.001 |
| 206 Pb | 81.988234 | 1.248 | 422328.675 | ug/L | 119.001 |
| 169 Tm | | | 498015.533 | ug/L | 486382.024 |
| 106 Pd | 81.587262 | 1.011 | 12431.158 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.615 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.077 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 98.732 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.392 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.077 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 98.732 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.392 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: ICB**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:44:11
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\ICB.010
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1040689.294 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 520379.486 | ug/L | 517895.891 |
| 9 | Be | 0.004730 | 138.887 | 2.333 | ug/L | 0.667 |
| 27 | Al | -0.017997 | 60.659 | 16613.425 | ug/L | 16546.635 |
| 44 | Ca | -2.257100 | 21.413 | 16515.238 | ug/L | 16941.051 |
| 51 | V | 0.960890 | 6.217 | -30664.082 | ug/L | -40229.573 |
| 52 | Cr | 0.328822 | 9.364 | 31788.646 | ug/L | 28466.564 |
| 55 | Mn | 0.004190 | 104.647 | 1809.521 | ug/L | 1731.838 |
| 54 | Fe | -0.086237 | 591.068 | 101587.098 | ug/L | 100632.136 |
| 57 | Fe | 4.070480 | 26.453 | 18156.877 | ug/L | 16706.412 |
| 59 | Co | 0.001602 | 32.179 | 89.334 | ug/L | 70.334 |
| 60 | Ni | 0.000261 | 629.888 | 97.866 | ug/L | 96.227 |
| 65 | Cu | 0.009481 | 37.154 | 141.502 | ug/L | 118.329 |
| 68 | Zn | -0.409100 | 33.425 | 2275.296 | ug/L | 2597.056 |
| 75 | As | 0.087012 | 100.498 | 13618.853 | ug/L | 13310.662 |
| 82 | Se | -0.104581 | 99.849 | 1307.111 | ug/L | 1314.299 |
| 97 | Mo | 0.233643 | 17.048 | 417.343 | ug/L | 15.667 |
| 72 | Ge-1 | | | 814618.651 | ug/L | 806434.181 |
| 107 | Ag | 0.006814 | 18.413 | 80.667 | ug/L | 24.000 |
| 111 | Cd | 0.001852 | 26.324 | 12.551 | ug/L | 9.169 |
| 121 | Sb | 0.017628 | 14.970 | 152.001 | ug/L | 52.333 |
| 135 | Ba | 0.004329 | 210.746 | 142.001 | ug/L | 134.334 |
| 115 | In-1 | | | 785692.513 | ug/L | 779344.025 |
| 205 | Tl | 0.166670 | 24.249 | 2443.354 | ug/L | 44.333 |
| 208 | Pb | 0.001813 | 80.794 | 494.672 | ug/L | 445.338 |
| 169 | Tm-1 | | | 504123.561 | ug/L | 486382.024 |
| 50 | Cr | 0.491550 | 49.264 | -761.631 | ug/L | -846.502 |
| 53 | Cr | -24.743049 | 5.801 | 125367.412 | ug/L | 144961.310 |
| 61 | Ni | -1.575212 | 120.626 | 1753.826 | ug/L | 1800.519 |
| 63 | Cu | -0.003020 | 123.633 | 73.001 | ug/L | 77.668 |
| 67 | Zn | -0.025736 | 3664.786 | 1880.566 | ug/L | 1863.889 |
| 66 | Zn | -0.430188 | 37.202 | 960.481 | ug/L | 1133.878 |
| 76 | Se | 10.351839 | 141.783 | -105280.481 | ug/L | -104694.433 |
| 77 | Se | -12.494657 | 6.318 | 11786.555 | ug/L | 13238.006 |
| 78 | Se | -0.382557 | 159.205 | 15814.179 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 22.905326 | 270.274 | 36372.872 | ug/L | 35557.190 |
| 72 | Ge | | | 814618.651 | ug/L | 806434.181 |
| 108 | Cd | -0.021163 | 137.221 | 2.050 | ug/L | 4.692 |
| 114 | Cd | 0.004328 | 71.679 | 24.113 | ug/L | 5.763 |
| 109 | Ag | 0.009568 | 7.950 | 35.334 | ug/L | 7.667 |
| 115 | In | | | 785692.513 | ug/L | 779344.025 |
| 208 | 207.977 | 0.002087 | 129.862 | 250.670 | ug/L | 223.336 |
| 207 | Pb | 0.001883 | 113.624 | 114.001 | ug/L | 103.001 |
| 206 | Pb | 0.001269 | 58.213 | 130.001 | ug/L | 119.001 |
| 169 | Tm | | | 504123.561 | ug/L | 486382.024 |
| 106 | Pd | 0.00(2004876322.525 | | 4.667 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.480 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 101.015 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.815 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.648 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 101.015 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.815 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.648 |
| Pd | 106 | |

**Sample ID: ICSA**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:48:30
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\ICSA.011
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 869993.108 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 416611.391 | ug/L | 517895.891 |
| 9 | Be | 0.041925 | 14.262 | 12.333 | ug/L | 0.667 |
| 27 | Al | 95955.325012 | 0.439 | 459518425.754 | ug/L | 16546.635 |
| 44 | Ca | 95462.403897 | 0.548 | 21448894.164 | ug/L | 16941.051 |
| 51 | V | 1.251807 | 14.368 | -23460.142 | ug/L | -40229.573 |
| 52 | Cr | 1.743297 | 2.945 | 38055.587 | ug/L | 28466.564 |
| 55 | Mn | 2.592096 | 9.925 | 33224.284 | ug/L | 1731.838 |
| 54 | Fe | 89078.957866 | 1.860 | 56314657.640 | ug/L | 100632.136 |
| 57 | Fe | 90068.764074 | 1.959 | 24110106.590 | ug/L | 16706.412 |
| 59 | Co | 1.654070 | 1.977 | 16115.161 | ug/L | 70.334 |
| 60 | Ni | 3.337198 | 15.757 | 6989.131 | ug/L | 96.227 |
| 65 | Cu | 1.063666 | 16.773 | 2192.665 | ug/L | 118.329 |
| 68 | Zn | 5.069380 | 23.360 | 5876.998 | ug/L | 2597.056 |
| 75 | As | 0.232254 | 74.715 | 11805.473 | ug/L | 13310.662 |
| 82 | Se | 0.990513 | 23.027 | 1291.554 | ug/L | 1314.299 |
| 97 | Mo | 1960.591996 | 0.833 | 2861226.171 | ug/L | 15.667 |
| 72 | Ge-1 | | | 691408.302 | ug/L | 806434.181 |
| 107 | Ag | 0.262852 | 4.089 | 1898.206 | ug/L | 24.000 |
| 111 | Cd | 0.736215 | 21.750 | 1142.726 | ug/L | 9.169 |
| 121 | Sb | 2.132646 | 1.719 | 10387.830 | ug/L | 52.333 |
| 135 | Ba | 0.851820 | 7.371 | 1214.751 | ug/L | 134.334 |
| 115 | In-1 | | | 677407.106 | ug/L | 779344.025 |
| 205 | Tl | 0.095852 | 3.156 | 1176.746 | ug/L | 44.333 |
| 208 | Pb | 1.101292 | 5.633 | 17118.475 | ug/L | 445.338 |
| 169 | Tm-1 | | | 416021.166 | ug/L | 486382.024 |
| 50 | Cr | 160.598498 | 8.200 | 25108.777 | ug/L | -846.502 |
| 53 | Cr | -37.234755 | 7.139 | 97379.605 | ug/L | 144961.310 |
| 61 | Ni | 31.778110 | 3.191 | 2648.789 | ug/L | 1800.519 |
| 63 | Cu | 5.714667 | 2.041 | 8768.620 | ug/L | 77.668 |
| 67 | Zn | 26.118705 | 4.142 | 3224.329 | ug/L | 1863.889 |
| 66 | Zn | 10.605281 | 10.321 | 4833.750 | ug/L | 1133.878 |
| 76 | Se | -114.011183 | 5.366 | -94254.065 | ug/L | -104694.433 |
| 77 | Se | 12.333078 | 11.667 | 12677.426 | ug/L | 13238.006 |
| 78 | Se | 1.177318 | 12.349 | 14054.745 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 183966.969432 | 0.566 | 3165971.204 | ug/L | 35557.190 |
| 72 | Ge | | | 691408.302 | ug/L | 806434.181 |
| 108 | Cd | 77.421001 | 1.078 | 8540.557 | ug/L | 4.692 |
| 114 | Cd | 4.682280 | 0.882 | 17011.953 | ug/L | 5.763 |
| 109 | Ag | 0.225506 | 10.718 | 566.718 | ug/L | 7.667 |
| 115 | In | | | 677407.106 | ug/L | 779344.025 |
| 208 | 207.977 | 1.128934 | 5.905 | 8881.513 | ug/L | 223.336 |
| 207 | Pb | 1.125984 | 6.442 | 3690.446 | ug/L | 103.001 |
| 206 | Pb | 1.033447 | 4.611 | 4546.515 | ug/L | 119.001 |
| 169 | Tm | | | 416021.166 | ug/L | 486382.024 |
| 106 | Pd | 0.619358 | 10.223 | 99.001 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 80.443 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 85.736 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 86.920 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 85.534 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 85.736 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 86.920 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 85.534 |
| Pd | 106 | |

**Sample ID: ICSAB**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 17:52:48
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\ICSAB.012
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 884013.833 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 411026.963 | ug/L | 517895.891 |
| 9 | Be | 98.257005 | 1.473 | 27307.546 | ug/L | 0.667 |
| 27 | Al | 94312.090901 | 0.170 | 452613981.286 | ug/L | 16546.635 |
| 44 | Ca | 95386.903043 | 0.972 | 21477988.527 | ug/L | 16941.051 |
| 51 | V | 96.823472 | 1.326 | 820546.302 | ug/L | -40229.573 |
| 52 | Cr | 95.403772 | 0.828 | 773000.439 | ug/L | 28466.564 |
| 55 | Mn | 96.638335 | 0.649 | 1187816.924 | ug/L | 1731.838 |
| 54 | Fe | 87536.859220 | 0.728 | 55463877.254 | ug/L | 100632.136 |
| 57 | Fe | 88548.636760 | 1.135 | 23756204.699 | ug/L | 16706.412 |
| 59 | Co | 98.178390 | 0.720 | 955121.995 | ug/L | 70.334 |
| 60 | Ni | 96.202010 | 0.925 | 199711.996 | ug/L | 96.227 |
| 65 | Cu | 94.402467 | 0.389 | 186210.593 | ug/L | 118.329 |
| 68 | Zn | 93.366514 | 0.331 | 69667.921 | ug/L | 2597.056 |
| 75 | As | 99.377733 | 0.388 | 180647.074 | ug/L | 13310.662 |
| 82 | Se | 106.016022 | 1.259 | 18788.728 | ug/L | 1314.299 |
| 97 | Mo | 2077.800032 | 0.548 | 3038769.375 | ug/L | 15.667 |
| 72 | Ge-1 | | | 692890.806 | ug/L | 806434.181 |
| 107 | Ag | 44.865589 | 0.437 | 330221.888 | ug/L | 24.000 |
| 111 | Cd | 96.183707 | 0.630 | 152826.222 | ug/L | 9.169 |
| 121 | Sb | 52.279249 | 0.478 | 261271.026 | ug/L | 52.333 |
| 135 | Ba | 98.323862 | 0.770 | 130791.964 | ug/L | 134.334 |
| 115 | In-1 | | | 697883.147 | ug/L | 779344.025 |
| 205 | Tl | 46.768248 | 1.127 | 572098.071 | ug/L | 44.333 |
| 208 | Pb | 94.423065 | 1.346 | 1477886.475 | ug/L | 445.338 |
| 169 | Tm-1 | | | 428238.061 | ug/L | 486382.024 |
| 50 | Cr | 229.117729 | 6.050 | 36220.965 | ug/L | -846.502 |
| 53 | Cr | 86.067885 | 3.455 | 186855.556 | ug/L | 144961.310 |
| 61 | Ni | 125.237321 | 0.689 | 5910.918 | ug/L | 1800.519 |
| 63 | Cu | 97.926746 | 0.440 | 149517.013 | ug/L | 77.668 |
| 67 | Zn | 118.914170 | 0.974 | 9023.009 | ug/L | 1863.889 |
| 66 | Zn | 101.101775 | 0.176 | 37882.568 | ug/L | 1133.878 |
| 76 | Se | -33.560836 | 17.047 | -91279.234 | ug/L | -104694.433 |
| 77 | Se | 129.415623 | 2.029 | 25342.333 | ug/L | 13238.006 |
| 78 | Se | 103.527395 | 0.827 | 55597.758 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 1947.885663 | 19.460 | 63824.986 | ug/L | 35557.190 |
| 72 | Ge | | | 692890.806 | ug/L | 806434.181 |
| 108 | Cd | 166.850434 | 0.897 | 18957.361 | ug/L | 4.692 |
| 114 | Cd | 100.471114 | 0.457 | 375991.038 | ug/L | 5.763 |
| 109 | Ag | 44.970277 | 0.298 | 115201.010 | ug/L | 7.667 |
| 115 | In | | | 697883.147 | ug/L | 779344.025 |
| 208 | 207.977 | 94.692098 | 0.881 | 750705.005 | ug/L | 223.336 |
| 207 | Pb | 94.126126 | 1.736 | 310142.335 | ug/L | 103.001 |
| 206 | Pb | 94.162409 | 2.129 | 417039.134 | ug/L | 119.001 |
| 169 | Tm | | | 428238.061 | ug/L | 486382.024 |
| 106 | Pd | 87.577331 | 1.280 | 13343.501 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 79.365 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 85.920 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 89.548 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 88.046 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 85.920 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 89.548 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 88.046 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: CCV 1**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 18:16:47
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 1.016
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1080444.393 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 523388.609 | ug/L | 517895.891 |
| 9 | Be | 101.125327 | 0.737 | 35790.047 | ug/L | 0.667 |
| 27 | Al | 4842.784645 | 1.012 | 28104977.014 | ug/L | 16546.635 |
| 44 | Ca | 5033.543510 | 0.424 | 1386459.916 | ug/L | 16941.051 |
| 51 | V | 98.880053 | 0.176 | 1013649.099 | ug/L | -40229.573 |
| 52 | Cr | 99.311217 | 0.641 | 971301.118 | ug/L | 28466.564 |
| 55 | Mn | 95.947928 | 0.635 | 1425298.136 | ug/L | 1731.838 |
| 54 | Fe | 4822.370944 | 0.391 | 3791605.036 | ug/L | 100632.136 |
| 57 | Fe | 4895.511441 | 0.588 | 1603677.341 | ug/L | 16706.412 |
| 59 | Co | 101.500532 | 0.590 | 1193379.318 | ug/L | 70.334 |
| 60 | Ni | 102.466607 | 1.092 | 257083.397 | ug/L | 96.227 |
| 65 | Cu | 103.906367 | 0.761 | 247704.727 | ug/L | 118.329 |
| 68 | Zn | 99.480776 | 0.469 | 89534.754 | ug/L | 2597.056 |
| 75 | As | 100.347705 | 0.344 | 220322.917 | ug/L | 13310.662 |
| 82 | Se | 100.296444 | 1.279 | 21555.853 | ug/L | 1314.299 |
| 97 | Mo | 198.213935 | 0.462 | 350367.201 | ug/L | 15.667 |
| 72 | Ge-1 | | | 837414.076 | ug/L | 806434.181 |
| 107 | Ag | 49.598481 | 1.410 | 424865.297 | ug/L | 24.000 |
| 111 | Cd | 100.110403 | 1.307 | 185125.134 | ug/L | 9.169 |
| 121 | Sb | 49.715252 | 0.465 | 289162.710 | ug/L | 52.333 |
| 135 | Ba | 98.760085 | 1.103 | 152895.397 | ug/L | 134.334 |
| 115 | In-1 | | | 812210.264 | ug/L | 779344.025 |
| 205 | Tl | 50.227772 | 0.852 | 747461.538 | ug/L | 44.333 |
| 208 | Pb | 101.440246 | 0.964 | 1931513.743 | ug/L | 445.338 |
| 169 | Tm-1 | | | 520981.716 | ug/L | 486382.024 |
| 50 | Cr | 99.656222 | 1.088 | 18544.082 | ug/L | -846.502 |
| 53 | Cr | 83.850617 | 5.997 | 223902.575 | ug/L | 144961.310 |
| 61 | Ni | 99.914902 | 0.743 | 6077.571 | ug/L | 1800.519 |
| 63 | Cu | 102.458043 | 1.092 | 189067.772 | ug/L | 77.668 |
| 67 | Zn | 97.869848 | 1.219 | 9317.538 | ug/L | 1863.889 |
| 66 | Zn | 100.797713 | 1.022 | 45649.358 | ug/L | 1133.878 |
| 76 | Se | 92.999295 | 8.946 | -104278.694 | ug/L | -104694.433 |
| 77 | Se | 86.845069 | 3.057 | 25075.464 | ug/L | 13238.006 |
| 78 | Se | 99.398547 | 1.247 | 65172.278 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 180.739828 | 27.681 | 40656.716 | ug/L | 35557.190 |
| 72 | Ge | | | 837414.076 | ug/L | 806434.181 |
| 108 | Cd | 98.927639 | 1.187 | 13083.640 | ug/L | 4.692 |
| 114 | Cd | 100.499854 | 0.428 | 437715.494 | ug/L | 5.763 |
| 109 | Ag | 49.270120 | 0.699 | 146890.423 | ug/L | 7.667 |
| 115 | In | | | 812210.264 | ug/L | 779344.025 |
| 208 | 207.977 | 101.848274 | 1.294 | 982263.784 | ug/L | 223.336 |
| 207 | Pb | 101.807450 | 0.821 | 408089.737 | ug/L | 103.001 |
| 206 | Pb | 100.436733 | 1.171 | 541160.222 | ug/L | 119.001 |
| 169 | Tm | | | 520981.716 | ug/L | 486382.024 |
| 106 | Pd | 108.081541 | 1.204 | 16466.481 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.061 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.842 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 104.217 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.114 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.842 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 104.217 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.114 |
| Pd | 106 | |

**Sample ID: CCB 1**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 18:21:08
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 1.017
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1100099.649 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 536904.623 | ug/L | 517895.891 |
| 9 | Be | 0.008188 | 18.611 | 3.667 | ug/L | 0.667 |
| 27 | Al | 0.095317 | 144.688 | 18154.503 | ug/L | 16546.635 |
| 44 | Ca | -10.983202 | 10.337 | 14949.761 | ug/L | 16941.051 |
| 51 | V | 1.101712 | 25.171 | -30706.278 | ug/L | -40229.573 |
| 52 | Cr | -0.204375 | 23.674 | 28275.280 | ug/L | 28466.564 |
| 55 | Mn | -0.007133 | 62.003 | 1732.505 | ug/L | 1731.838 |
| 54 | Fe | -2.955631 | 31.759 | 104663.668 | ug/L | 100632.136 |
| 57 | Fe | 4.382208 | 29.201 | 19211.081 | ug/L | 16706.412 |
| 59 | Co | 0.001433 | 45.149 | 92.000 | ug/L | 70.334 |
| 60 | Ni | 0.000980 | 826.727 | 104.817 | ug/L | 96.227 |
| 65 | Cu | 0.006068 | 72.592 | 140.516 | ug/L | 118.329 |
| 68 | Zn | -0.167708 | 146.275 | 2612.392 | ug/L | 2597.056 |
| 75 | As | 0.110814 | 165.426 | 14381.101 | ug/L | 13310.662 |
| 82 | Se | 0.209857 | 36.230 | 1440.595 | ug/L | 1314.299 |
| 97 | Mo | 0.477693 | 31.905 | 880.380 | ug/L | 15.667 |
| 72 | Ge-1 | | | 857320.454 | ug/L | 806434.181 |
| 107 | Ag | 0.009385 | 40.791 | 109.667 | ug/L | 24.000 |
| 111 | Cd | 0.001290 | 300.258 | 12.420 | ug/L | 9.169 |
| 121 | Sb | 0.027301 | 18.844 | 222.003 | ug/L | 52.333 |
| 135 | Ba | 0.008218 | 167.908 | 159.001 | ug/L | 134.334 |
| 115 | In-1 | | | 845537.020 | ug/L | 779344.025 |
| 205 | Tl | 0.121474 | 19.344 | 1893.876 | ug/L | 44.333 |
| 208 | Pb | 0.000963 | 145.647 | 505.672 | ug/L | 445.338 |
| 169 | Tm-1 | | | 531936.318 | ug/L | 486382.024 |
| 50 | Cr | 1.201353 | 2.643 | -660.195 | ug/L | -846.502 |
| 53 | Cr | -41.869838 | 5.958 | 116587.950 | ug/L | 144961.310 |
| 61 | Ni | 0.909760 | 118.384 | 1953.611 | ug/L | 1800.519 |
| 63 | Cu | -0.003454 | 173.400 | 76.001 | ug/L | 77.668 |
| 67 | Zn | -1.401687 | 13.730 | 1873.228 | ug/L | 1863.889 |
| 66 | Zn | -0.215817 | 132.426 | 1108.532 | ug/L | 1133.878 |
| 76 | Se | -7.565276 | 447.839 | -111679.341 | ug/L | -104694.433 |
| 77 | Se | -27.132531 | 2.373 | 10449.700 | ug/L | 13238.006 |
| 78 | Se | -0.543639 | 78.097 | 16562.523 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 66.046147 | 61.183 | 39191.686 | ug/L | 35557.190 |
| 72 | Ge | | | 857320.454 | ug/L | 806434.181 |
| 108 | Cd | -0.012654 | 154.660 | 3.347 | ug/L | 4.692 |
| 114 | Cd | 0.009231 | 38.155 | 48.132 | ug/L | 5.763 |
| 109 | Ag | 0.009567 | 14.980 | 38.000 | ug/L | 7.667 |
| 115 | In | | | 845537.020 | ug/L | 779344.025 |
| 208 | 207.977 | 0.002215 | 67.089 | 266.004 | ug/L | 223.336 |
| 207 | Pb | -0.002424 | 159.714 | 102.667 | ug/L | 103.001 |
| 206 | Pb | 0.001243 | 70.354 | 137.001 | ug/L | 119.001 |
| 169 | Tm | | | 531936.318 | ug/L | 486382.024 |
| 106 | Pd | 0.019697 | 83.887 | 7.667 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 103.670 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 106.310 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 108.493 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 109.366 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 106.310 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 108.493 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 109.366 |
| Pd | 106 | |

**Sample ID: CCV 2**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 18:25:30
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 2.018
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1077382.553 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 529692.516 | ug/L | 517895.891 |
| 9 | Be | 100.352747 | 1.222 | 35944.012 | ug/L | 0.667 |
| 27 | Al | 4827.146151 | 0.728 | 27979890.725 | ug/L | 16546.635 |
| 44 | Ca | 5047.719457 | 0.411 | 1388625.176 | ug/L | 16941.051 |
| 51 | V | 99.768487 | 0.472 | 1021875.362 | ug/L | -40229.573 |
| 52 | Cr | 99.592064 | 0.247 | 972761.006 | ug/L | 28466.564 |
| 55 | Mn | 96.321546 | 0.684 | 1429137.048 | ug/L | 1731.838 |
| 54 | Fe | 4836.703364 | 0.788 | 3797869.184 | ug/L | 100632.136 |
| 57 | Fe | 4895.929222 | 1.181 | 1601898.625 | ug/L | 16706.412 |
| 59 | Co | 100.846754 | 0.764 | 1184279.852 | ug/L | 70.334 |
| 60 | Ni | 101.751861 | 0.629 | 254979.228 | ug/L | 96.227 |
| 65 | Cu | 102.226818 | 1.182 | 243396.354 | ug/L | 118.329 |
| 68 | Zn | 98.016579 | 0.632 | 88150.142 | ug/L | 2597.056 |
| 75 | As | 99.544083 | 0.501 | 218403.015 | ug/L | 13310.662 |
| 82 | Se | 99.265365 | 1.254 | 21322.730 | ug/L | 1314.299 |
| 97 | Mo | 197.670730 | 0.626 | 348984.649 | ug/L | 15.667 |
| 72 | Ge-1 | | | 836390.980 | ug/L | 806434.181 |
| 107 | Ag | 49.700111 | 0.449 | 422174.666 | ug/L | 24.000 |
| 111 | Cd | 99.506793 | 0.583 | 182470.344 | ug/L | 9.169 |
| 121 | Sb | 50.245932 | 0.276 | 289812.492 | ug/L | 52.333 |
| 135 | Ba | 98.779779 | 0.715 | 151647.213 | ug/L | 134.334 |
| 115 | In-1 | | | 805450.318 | ug/L | 779344.025 |
| 205 | Tl | 51.044518 | 0.461 | 756436.644 | ug/L | 44.333 |
| 208 | Pb | 102.353256 | 1.911 | 1940604.385 | ug/L | 445.338 |
| 169 | Tm-1 | | | 518813.791 | ug/L | 486382.024 |
| 50 | Cr | 105.701177 | 3.437 | 19698.748 | ug/L | -846.502 |
| 53 | Cr | 83.072848 | 3.565 | 222939.326 | ug/L | 144961.310 |
| 61 | Ni | 100.539205 | 1.059 | 6096.274 | ug/L | 1800.519 |
| 63 | Cu | 102.589522 | 0.484 | 189071.435 | ug/L | 77.668 |
| 67 | Zn | 96.377068 | 2.121 | 9193.505 | ug/L | 1863.889 |
| 66 | Zn | 99.433422 | 0.493 | 44992.580 | ug/L | 1133.878 |
| 76 | Se | 105.017423 | 14.247 | -103576.710 | ug/L | -104694.433 |
| 77 | Se | 87.196535 | 2.766 | 25090.158 | ug/L | 13238.006 |
| 78 | Se | 99.065788 | 0.596 | 64928.073 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 123.847985 | 31.866 | 39432.117 | ug/L | 35557.190 |
| 72 | Ge | | | 836390.980 | ug/L | 806434.181 |
| 108 | Cd | 98.547444 | 1.098 | 12923.765 | ug/L | 4.692 |
| 114 | Cd | 101.080725 | 0.798 | 436556.949 | ug/L | 5.763 |
| 109 | Ag | 49.734749 | 1.523 | 147027.291 | ug/L | 7.667 |
| 115 | In | | | 805450.318 | ug/L | 779344.025 |
| 208 | 207.977 | 102.881354 | 2.524 | 987962.737 | ug/L | 223.336 |
| 207 | Pb | 102.416244 | 1.672 | 408783.774 | ug/L | 103.001 |
| 206 | Pb | 101.361132 | 1.516 | 543857.874 | ug/L | 119.001 |
| 169 | Tm | | | 518813.791 | ug/L | 486382.024 |
| 106 | Pd | 105.654319 | 0.455 | 16096.793 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 102.278 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.715 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 103.350 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 106.668 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.715 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 103.350 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 106.668 |
| Pd | 106 | |

**Sample ID: CCB 2**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 18:29:51
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 2.019
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1090530.065 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 527821.888 | ug/L | 517895.891 |
| 9 | Be | 0.005605 | 105.820 | 2.667 | ug/L | 0.667 |
| 27 | Al | 0.288341 | 12.609 | 19209.737 | ug/L | 16546.635 |
| 44 | Ca | -9.878521 | 9.613 | 15183.162 | ug/L | 16941.051 |
| 51 | V | 1.189121 | 14.471 | -29642.378 | ug/L | -40229.573 |
| 52 | Cr | -0.141599 | 17.065 | 28745.140 | ug/L | 28466.564 |
| 55 | Mn | -0.001940 | 129.225 | 1802.519 | ug/L | 1731.838 |
| 54 | Fe | -2.741794 | 43.363 | 104318.805 | ug/L | 100632.136 |
| 57 | Fe | 4.812533 | 31.954 | 19260.709 | ug/L | 16706.412 |
| 59 | Co | 0.003148 | 42.785 | 112.001 | ug/L | 70.334 |
| 60 | Ni | 0.000712 | 560.964 | 103.609 | ug/L | 96.227 |
| 65 | Cu | 0.009393 | 25.911 | 147.999 | ug/L | 118.329 |
| 68 | Zn | -0.602646 | 63.186 | 2213.285 | ug/L | 2597.056 |
| 75 | As | 0.423461 | 48.561 | 14966.851 | ug/L | 13310.662 |
| 82 | Se | 0.250136 | 143.022 | 1442.111 | ug/L | 1314.299 |
| 97 | Mo | 0.486982 | 34.449 | 891.382 | ug/L | 15.667 |
| 72 | Ge-1 | | | 853122.872 | ug/L | 806434.181 |
| 107 | Ag | 0.012120 | 8.059 | 133.001 | ug/L | 24.000 |
| 111 | Cd | 0.000178 | 877.550 | 10.190 | ug/L | 9.169 |
| 121 | Sb | 0.030532 | 19.008 | 239.670 | ug/L | 52.333 |
| 135 | Ba | -0.003508 | 34.451 | 139.001 | ug/L | 134.334 |
| 115 | In-1 | | | 838918.858 | ug/L | 779344.025 |
| 205 | Tl | 0.140944 | 18.243 | 2196.949 | ug/L | 44.333 |
| 208 | Pb | 0.003436 | 28.462 | 555.340 | ug/L | 445.338 |
| 169 | Tm-1 | | | 533489.917 | ug/L | 486382.024 |
| 50 | Cr | 1.131903 | 12.639 | -670.662 | ug/L | -846.502 |
| 53 | Cr | -41.628261 | 4.784 | 116238.008 | ug/L | 144961.310 |
| 61 | Ni | 0.590664 | 101.518 | 1929.929 | ug/L | 1800.519 |
| 63 | Cu | -0.004693 | 60.321 | 73.334 | ug/L | 77.668 |
| 67 | Zn | -1.689573 | 50.716 | 1841.543 | ug/L | 1863.889 |
| 66 | Zn | -0.564595 | 65.805 | 946.480 | ug/L | 1133.878 |
| 76 | Se | 13.924708 | 122.192 | -110084.801 | ug/L | -104694.433 |
| 77 | Se | -27.861895 | 0.176 | 10301.911 | ug/L | 13238.006 |
| 78 | Se | -0.032565 | 488.294 | 16737.766 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 50.212571 | 107.458 | 38663.382 | ug/L | 35557.190 |
| 72 | Ge | | | 853122.872 | ug/L | 806434.181 |
| 108 | Cd | 0.021338 | 94.881 | 7.963 | ug/L | 4.692 |
| 114 | Cd | 0.008893 | 65.943 | 46.027 | ug/L | 5.763 |
| 109 | Ag | 0.012164 | 27.649 | 45.667 | ug/L | 7.667 |
| 115 | In | | | 838918.858 | ug/L | 779344.025 |
| 208 | 207.977 | 0.003756 | 54.192 | 282.005 | ug/L | 223.336 |
| 207 | Pb | -0.000316 | 1408.261 | 111.667 | ug/L | 103.001 |
| 206 | Pb | 0.005655 | 28.585 | 161.668 | ug/L | 119.001 |
| 169 | Tm | | | 533489.917 | ug/L | 486382.024 |
| 106 | Pd | -0.006566 | 115.470 | 3.667 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.917 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 105.790 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 107.644 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 109.685 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 105.790 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 107.644 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 109.685 |
| Pd | 106 | |

**Sample ID: CCV 3**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:04:21
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 3.027
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1036227.513 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 518984.916 | ug/L | 517895.891 |
| 9 | Be | 99.303678 | 0.314 | 34850.599 | ug/L | 0.667 |
| 27 | Al | 4732.841014 | 0.561 | 26804716.990 | ug/L | 16546.635 |
| 44 | Ca | 5045.350685 | 0.359 | 1356147.700 | ug/L | 16941.051 |
| 51 | V | 99.855127 | 0.509 | 999334.800 | ug/L | -40229.573 |
| 52 | Cr | 99.545294 | 0.698 | 950009.676 | ug/L | 28466.564 |
| 55 | Mn | 96.559672 | 0.755 | 1399792.019 | ug/L | 1731.838 |
| 54 | Fe | 4847.420255 | 0.696 | 3718715.742 | ug/L | 100632.136 |
| 57 | Fe | 4884.098580 | 0.431 | 1561400.436 | ug/L | 16706.412 |
| 59 | Co | 100.137690 | 0.545 | 1148967.786 | ug/L | 70.334 |
| 60 | Ni | 100.415237 | 0.486 | 245857.371 | ug/L | 96.227 |
| 65 | Cu | 101.122793 | 0.835 | 235248.828 | ug/L | 118.329 |
| 68 | Zn | 96.714559 | 1.012 | 85020.088 | ug/L | 2597.056 |
| 75 | As | 99.975202 | 0.502 | 214260.611 | ug/L | 13310.662 |
| 82 | Se | 98.176179 | 0.951 | 20619.756 | ug/L | 1314.299 |
| 97 | Mo | 195.602901 | 1.001 | 337414.090 | ug/L | 15.667 |
| 72 | Ge-1 | | | 817207.496 | ug/L | 806434.181 |
| 107 | Ag | 49.502983 | 0.615 | 409210.186 | ug/L | 24.000 |
| 111 | Cd | 99.489920 | 0.957 | 177541.504 | ug/L | 9.169 |
| 121 | Sb | 50.464864 | 0.713 | 283257.583 | ug/L | 52.333 |
| 135 | Ba | 99.673834 | 0.516 | 148910.422 | ug/L | 134.334 |
| 115 | In-1 | | | 783810.688 | ug/L | 779344.025 |
| 205 | Tl | 51.267303 | 0.790 | 762228.620 | ug/L | 44.333 |
| 208 | Pb | 103.566275 | 1.123 | 1970297.495 | ug/L | 445.338 |
| 169 | Tm-1 | | | 520495.764 | ug/L | 486382.024 |
| 50 | Cr | 106.699558 | 1.547 | 19435.811 | ug/L | -846.502 |
| 53 | Cr | 81.824630 | 2.766 | 216758.421 | ug/L | 144961.310 |
| 61 | Ni | 96.405842 | 2.815 | 5786.688 | ug/L | 1800.519 |
| 63 | Cu | 100.746717 | 0.468 | 181418.176 | ug/L | 77.668 |
| 67 | Zn | 96.972086 | 0.717 | 9026.685 | ug/L | 1863.889 |
| 66 | Zn | 97.213449 | 0.370 | 43005.229 | ug/L | 1133.878 |
| 76 | Se | 82.620665 | 33.054 | -102246.721 | ug/L | -104694.433 |
| 77 | Se | 82.206055 | 1.491 | 23879.120 | ug/L | 13238.006 |
| 78 | Se | 97.409795 | 1.144 | 62646.612 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 85.234360 | 40.316 | 37749.596 | ug/L | 35557.190 |
| 72 | Ge | | | 817207.496 | ug/L | 806434.181 |
| 108 | Cd | 96.363720 | 1.434 | 12299.159 | ug/L | 4.692 |
| 114 | Cd | 100.381163 | 0.365 | 421911.122 | ug/L | 5.763 |
| 109 | Ag | 49.395253 | 0.714 | 142114.710 | ug/L | 7.667 |
| 115 | In | | | 783810.688 | ug/L | 779344.025 |
| 208 | 207.977 | 104.416059 | 1.882 | 1006193.754 | ug/L | 223.336 |
| 207 | Pb | 103.654058 | 0.948 | 415125.246 | ug/L | 103.001 |
| 206 | Pb | 101.979908 | 0.264 | 548978.495 | ug/L | 119.001 |
| 169 | Tm | | | 520495.764 | ug/L | 486382.024 |
| 106 | Pd | 103.295188 | 1.511 | 15737.475 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.210 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 101.336 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.573 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.014 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 101.336 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.573 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.014 |
| Pd | 106 | |

**Sample ID: CCB 3**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:08:41
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 3.028
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1070748.315 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 522517.448 | ug/L | 517895.891 |
| 9 | Be | 0.009462 | 61.119 | 4.000 | ug/L | 0.667 |
| 27 | Al | 0.319818 | 5.573 | 19080.783 | ug/L | 16546.635 |
| 44 | Ca | -12.156725 | 4.243 | 14318.373 | ug/L | 16941.051 |
| 51 | V | 1.231017 | 7.991 | -28702.259 | ug/L | -40229.573 |
| 52 | Cr | -0.031966 | 35.152 | 29324.057 | ug/L | 28466.564 |
| 55 | Mn | -0.001893 | 195.999 | 1774.180 | ug/L | 1731.838 |
| 54 | Fe | -0.851357 | 119.249 | 104084.538 | ug/L | 100632.136 |
| 57 | Fe | 3.565177 | 32.855 | 18546.532 | ug/L | 16706.412 |
| 59 | Co | 0.004458 | 29.433 | 125.668 | ug/L | 70.334 |
| 60 | Ni | 0.001058 | 440.163 | 102.764 | ug/L | 96.227 |
| 65 | Cu | 0.007272 | 77.701 | 140.462 | ug/L | 118.329 |
| 68 | Zn | -0.468998 | 12.519 | 2292.634 | ug/L | 2597.056 |
| 75 | As | 0.133070 | 85.805 | 14127.030 | ug/L | 13310.662 |
| 82 | Se | 0.053428 | 193.379 | 1378.618 | ug/L | 1314.299 |
| 97 | Mo | 0.477223 | 29.610 | 860.711 | ug/L | 15.667 |
| 72 | Ge-1 | | | 839330.845 | ug/L | 806434.181 |
| 107 | Ag | 0.016960 | 5.389 | 170.668 | ug/L | 24.000 |
| 111 | Cd | 0.004437 | 102.873 | 17.814 | ug/L | 9.169 |
| 121 | Sb | 0.110660 | 9.383 | 699.695 | ug/L | 52.333 |
| 135 | Ba | 0.011851 | 80.754 | 158.668 | ug/L | 134.334 |
| 115 | In-1 | | | 813974.926 | ug/L | 779344.025 |
| 205 | Tl | 0.116916 | 15.921 | 1798.188 | ug/L | 44.333 |
| 208 | Pb | 0.006905 | 36.107 | 612.342 | ug/L | 445.338 |
| 169 | Tm-1 | | | 524238.694 | ug/L | 486382.024 |
| 50 | Cr | 1.192532 | 10.022 | -648.033 | ug/L | -846.502 |
| 53 | Cr | -42.660843 | 4.757 | 113456.868 | ug/L | 144961.310 |
| 61 | Ni | -0.658803 | 44.814 | 1846.212 | ug/L | 1800.519 |
| 63 | Cu | 0.004243 | 77.365 | 88.668 | ug/L | 77.668 |
| 67 | Zn | -0.931436 | 128.799 | 1869.226 | ug/L | 1863.889 |
| 66 | Zn | -0.523349 | 11.368 | 948.811 | ug/L | 1133.878 |
| 76 | Se | -8.651124 | 320.603 | -109385.112 | ug/L | -104694.433 |
| 77 | Se | -29.533518 | 2.586 | 9916.933 | ug/L | 13238.006 |
| 78 | Se | -1.295011 | 35.365 | 15847.191 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -23.599948 | 156.941 | 36515.933 | ug/L | 35557.190 |
| 72 | Ge | | | 839330.845 | ug/L | 806434.181 |
| 108 | Cd | -0.011934 | 149.899 | 3.322 | ug/L | 4.692 |
| 114 | Cd | 0.006889 | 38.530 | 36.072 | ug/L | 5.763 |
| 109 | Ag | 0.018405 | 15.439 | 63.001 | ug/L | 7.667 |
| 115 | In | | | 813974.926 | ug/L | 779344.025 |
| 208 | 207.977 | 0.008444 | 34.310 | 322.673 | ug/L | 223.336 |
| 207 | Pb | 0.003543 | 96.482 | 125.334 | ug/L | 103.001 |
| 206 | Pb | 0.006653 | 24.389 | 164.335 | ug/L | 119.001 |
| 169 | Tm | | | 524238.694 | ug/L | 486382.024 |
| 106 | Pd | -0.008754 | 43.301 | 3.333 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.892 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 104.079 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 104.444 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.783 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 104.079 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 104.444 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.783 |
| Pd | 106 | |

**Sample ID: CCV 4**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:13:02
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 4.029
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1067529.167 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 524072.630 | ug/L | 517895.891 |
| 9 | Be | 99.723608 | 2.261 | 35335.210 | ug/L | 0.667 |
| 27 | Al | 4749.883774 | 0.791 | 27285143.947 | ug/L | 16546.635 |
| 44 | Ca | 5063.104980 | 1.521 | 1380291.413 | ug/L | 16941.051 |
| 51 | V | 100.715057 | 0.329 | 1022736.941 | ug/L | -40229.573 |
| 52 | Cr | 99.677797 | 0.569 | 964866.330 | ug/L | 28466.564 |
| 55 | Mn | 95.974243 | 0.255 | 1411249.352 | ug/L | 1731.838 |
| 54 | Fe | 4844.441159 | 0.830 | 3769620.798 | ug/L | 100632.136 |
| 57 | Fe | 4875.579690 | 0.805 | 1580981.570 | ug/L | 16706.412 |
| 59 | Co | 100.009549 | 0.888 | 1163883.744 | ug/L | 70.334 |
| 60 | Ni | 101.018525 | 1.502 | 250863.693 | ug/L | 96.227 |
| 65 | Cu | 100.670466 | 1.394 | 237535.726 | ug/L | 118.329 |
| 68 | Zn | 95.729118 | 0.608 | 85382.559 | ug/L | 2597.056 |
| 75 | As | 99.567981 | 0.823 | 216490.805 | ug/L | 13310.662 |
| 82 | Se | 97.620657 | 1.482 | 20802.634 | ug/L | 1314.299 |
| 97 | Mo | 194.380293 | 0.845 | 340097.524 | ug/L | 15.667 |
| 72 | Ge-1 | | | 828903.198 | ug/L | 806434.181 |
| 107 | Ag | 48.835727 | 2.048 | 409922.398 | ug/L | 24.000 |
| 111 | Cd | 98.093366 | 1.034 | 177748.805 | ug/L | 9.169 |
| 121 | Sb | 49.743659 | 1.317 | 283511.671 | ug/L | 52.333 |
| 135 | Ba | 97.445234 | 1.223 | 147827.655 | ug/L | 134.334 |
| 115 | In-1 | | | 795928.483 | ug/L | 779344.025 |
| 205 | Tl | 50.549600 | 2.460 | 749294.331 | ug/L | 44.333 |
| 208 | Pb | 102.295939 | 1.172 | 1940430.164 | ug/L | 445.338 |
| 169 | Tm-1 | | | 519043.915 | ug/L | 486382.024 |
| 50 | Cr | 104.307082 | 0.914 | 19251.918 | ug/L | -846.502 |
| 53 | Cr | 82.410064 | 4.529 | 220369.664 | ug/L | 144961.310 |
| 61 | Ni | 97.322197 | 3.123 | 5907.246 | ug/L | 1800.519 |
| 63 | Cu | 101.561571 | 0.995 | 185495.417 | ug/L | 77.668 |
| 67 | Zn | 95.600902 | 1.922 | 9053.096 | ug/L | 1863.889 |
| 66 | Zn | 97.208119 | 1.199 | 43615.938 | ug/L | 1133.878 |
| 76 | Se | 88.766550 | 26.937 | -103422.008 | ug/L | -104694.433 |
| 77 | Se | 83.567306 | 0.725 | 24397.120 | ug/L | 13238.006 |
| 78 | Se | 97.010972 | 1.398 | 63349.209 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 41.324181 | 87.436 | 37394.540 | ug/L | 35557.190 |
| 72 | Ge | | | 828903.198 | ug/L | 806434.181 |
| 108 | Cd | 96.753145 | 2.186 | 12539.243 | ug/L | 4.692 |
| 114 | Cd | 99.208227 | 1.033 | 423430.880 | ug/L | 5.763 |
| 109 | Ag | 48.445974 | 0.687 | 141537.066 | ug/L | 7.667 |
| 115 | In | | | 795928.483 | ug/L | 779344.025 |
| 208 | 207.977 | 102.267541 | 1.753 | 982536.492 | ug/L | 223.336 |
| 207 | Pb | 102.192211 | 0.814 | 408085.688 | ug/L | 103.001 |
| 206 | Pb | 102.423936 | 0.444 | 549807.984 | ug/L | 119.001 |
| 169 | Tm | | | 519043.915 | ug/L | 486382.024 |
| 106 | Pd | 103.770956 | 1.533 | 15809.939 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.193 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 102.786 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.128 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 106.715 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 102.786 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.128 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 106.715 |
| Pd | 106 | |

**Sample ID: CCB 4**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:17:23
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 4.030
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1076041.583 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 526339.144 | ug/L | 517895.891 |
| 9 | Be | 0.010268 | 31.450 | 4.333 | ug/L | 0.667 |
| 27 | Al | 0.387213 | 8.543 | 19509.393 | ug/L | 16546.635 |
| 44 | Ca | -11.981691 | 1.429 | 14394.164 | ug/L | 16941.051 |
| 51 | V | 1.203001 | 10.966 | -29048.488 | ug/L | -40229.573 |
| 52 | Cr | 0.017102 | 176.829 | 29847.492 | ug/L | 28466.564 |
| 55 | Mn | 0.004343 | 108.457 | 1870.867 | ug/L | 1731.838 |
| 54 | Fe | -1.779888 | 21.975 | 103572.875 | ug/L | 100632.136 |
| 57 | Fe | 3.761027 | 20.654 | 18643.916 | ug/L | 16706.412 |
| 59 | Co | 0.006098 | 11.299 | 145.335 | ug/L | 70.334 |
| 60 | Ni | 0.003755 | 16.451 | 109.799 | ug/L | 96.227 |
| 65 | Cu | 0.007368 | 87.935 | 140.996 | ug/L | 118.329 |
| 68 | Zn | -0.681193 | 33.860 | 2111.256 | ug/L | 2597.056 |
| 75 | As | 0.194239 | 28.841 | 14281.060 | ug/L | 13310.662 |
| 82 | Se | 0.069083 | 382.067 | 1384.853 | ug/L | 1314.299 |
| 97 | Mo | 0.473257 | 28.015 | 855.044 | ug/L | 15.667 |
| 72 | Ge-1 | | | 840951.738 | ug/L | 806434.181 |
| 107 | Ag | 0.016503 | 9.433 | 168.335 | ug/L | 24.000 |
| 111 | Cd | 0.006729 | 17.670 | 22.260 | ug/L | 9.169 |
| 121 | Sb | 0.064617 | 6.316 | 435.344 | ug/L | 52.333 |
| 135 | Ba | 0.013581 | 85.620 | 163.002 | ug/L | 134.334 |
| 115 | In-1 | | | 821775.971 | ug/L | 779344.025 |
| 205 | Tl | 0.136901 | 18.771 | 2087.921 | ug/L | 44.333 |
| 208 | Pb | 0.007733 | 28.307 | 625.342 | ug/L | 445.338 |
| 169 | Tm-1 | | | 522124.219 | ug/L | 486382.024 |
| 50 | Cr | 0.996876 | 8.226 | -687.585 | ug/L | -846.502 |
| 53 | Cr | -41.245860 | 6.676 | 114913.065 | ug/L | 144961.310 |
| 61 | Ni | -1.828618 | 83.731 | 1799.852 | ug/L | 1800.519 |
| 63 | Cu | 0.007360 | 102.962 | 94.668 | ug/L | 77.668 |
| 67 | Zn | -0.664721 | 159.579 | 1892.907 | ug/L | 1863.889 |
| 66 | Zn | -0.650675 | 26.945 | 894.129 | ug/L | 1133.878 |
| 76 | Se | 11.812320 | 54.095 | -108610.979 | ug/L | -104694.433 |
| 77 | Se | -28.092164 | 1.459 | 10124.432 | ug/L | 13238.006 |
| 78 | Se | -0.763894 | 16.173 | 16139.142 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2.570945 | 1760.541 | 37020.752 | ug/L | 35557.190 |
| 72 | Ge | | | 840951.738 | ug/L | 806434.181 |
| 108 | Cd | -0.034504 | 75.718 | 0.347 | ug/L | 4.692 |
| 114 | Cd | 0.015483 | 40.229 | 74.297 | ug/L | 5.763 |
| 109 | Ag | 0.016118 | 21.296 | 56.667 | ug/L | 7.667 |
| 115 | In | | | 821775.971 | ug/L | 779344.025 |
| 208 | 207.977 | 0.008529 | 29.258 | 322.006 | ug/L | 223.336 |
| 207 | Pb | 0.004436 | 48.318 | 128.334 | ug/L | 103.001 |
| 206 | Pb | 0.008761 | 19.699 | 175.002 | ug/L | 119.001 |
| 169 | Tm | | | 522124.219 | ug/L | 486382.024 |
| 106 | Pd | 0.013131 | 104.083 | 6.667 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.630 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 104.280 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 105.445 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.349 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 104.280 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 105.445 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.349 |
| Pd | 106 | |

**Sample ID: CCV 5**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:51:58
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 5.038
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1044719.246 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 513921.293 | ug/L | 517895.891 |
| 9 | Be | 98.413264 | 1.173 | 34197.363 | ug/L | 0.667 |
| 27 | Al | 4605.991906 | 0.734 | 26170521.537 | ug/L | 16546.635 |
| 44 | Ca | 4991.477906 | 0.597 | 1346178.645 | ug/L | 16941.051 |
| 51 | V | 99.902512 | 0.049 | 1003053.571 | ug/L | -40229.573 |
| 52 | Cr | 99.142102 | 0.490 | 949339.971 | ug/L | 28466.564 |
| 55 | Mn | 95.707404 | 0.485 | 1391935.987 | ug/L | 1731.838 |
| 54 | Fe | 4846.265943 | 0.182 | 3729866.138 | ug/L | 100632.136 |
| 57 | Fe | 4830.034689 | 0.911 | 1549287.232 | ug/L | 16706.412 |
| 59 | Co | 99.037806 | 0.537 | 1140016.998 | ug/L | 70.334 |
| 60 | Ni | 99.428864 | 0.089 | 244228.942 | ug/L | 96.227 |
| 65 | Cu | 99.150789 | 0.508 | 231405.687 | ug/L | 118.329 |
| 68 | Zn | 94.742283 | 0.423 | 83608.224 | ug/L | 2597.056 |
| 75 | As | 98.748138 | 0.336 | 212477.357 | ug/L | 13310.662 |
| 82 | Se | 97.044780 | 0.412 | 20462.869 | ug/L | 1314.299 |
| 97 | Mo | 191.544994 | 0.426 | 331477.810 | ug/L | 15.667 |
| 72 | Ge-1 | | | 819840.139 | ug/L | 806434.181 |
| 107 | Ag | 49.551304 | 1.274 | 409719.958 | ug/L | 24.000 |
| 111 | Cd | 98.064209 | 0.227 | 175059.437 | ug/L | 9.169 |
| 121 | Sb | 49.168297 | 0.494 | 276068.174 | ug/L | 52.333 |
| 135 | Ba | 98.533279 | 1.052 | 147250.712 | ug/L | 134.334 |
| 115 | In-1 | | | 784077.076 | ug/L | 779344.025 |
| 205 | Tl | 51.769056 | 0.387 | 770550.289 | ug/L | 44.333 |
| 208 | Pb | 103.882437 | 0.512 | 1978444.069 | ug/L | 445.338 |
| 169 | Tm-1 | | | 521089.490 | ug/L | 486382.024 |
| 50 | Cr | 103.765521 | 4.361 | 18939.806 | ug/L | -846.502 |
| 53 | Cr | 80.797237 | 2.792 | 216577.366 | ug/L | 144961.310 |
| 61 | Ni | 98.557022 | 3.110 | 5893.888 | ug/L | 1800.519 |
| 63 | Cu | 99.860647 | 0.705 | 180404.832 | ug/L | 77.668 |
| 67 | Zn | 94.101047 | 1.819 | 8843.832 | ug/L | 1863.889 |
| 66 | Zn | 95.500805 | 1.048 | 42403.774 | ug/L | 1133.878 |
| 76 | Se | 78.763180 | 9.700 | -102754.248 | ug/L | -104694.433 |
| 77 | Se | 76.766094 | 2.261 | 23261.291 | ug/L | 13238.006 |
| 78 | Se | 96.351374 | 1.306 | 62340.186 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 55.065935 | 84.640 | 37261.143 | ug/L | 35557.190 |
| 72 | Ge | | | 819840.139 | ug/L | 806434.181 |
| 108 | Cd | 96.527070 | 2.422 | 12322.108 | ug/L | 4.692 |
| 114 | Cd | 98.923697 | 0.391 | 415915.989 | ug/L | 5.763 |
| 109 | Ag | 48.819473 | 0.229 | 140504.317 | ug/L | 7.667 |
| 115 | In | | | 784077.076 | ug/L | 779344.025 |
| 208 | 207.977 | 104.455816 | 0.700 | 1007627.347 | ug/L | 223.336 |
| 207 | Pb | 104.260341 | 1.081 | 418009.375 | ug/L | 103.001 |
| 206 | Pb | 102.574993 | 0.644 | 552807.347 | ug/L | 119.001 |
| 169 | Tm | | | 521089.490 | ug/L | 486382.024 |
| 106 | Pd | 101.913943 | 1.146 | 15527.099 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.233 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 101.662 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.607 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.136 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 101.662 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.607 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.136 |
| Pd | 106 | |

**Sample ID: CCB 5**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 19:56:20
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 5.039
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1059563.170 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 516619.483 | ug/L | 517895.891 |
| 9 | Be | 0.010498 | 15.383 | 4.333 | ug/L | 0.667 |
| 27 | Al | 0.449978 | 4.370 | 19757.951 | ug/L | 16546.635 |
| 44 | Ca | -16.172552 | 7.381 | 13168.904 | ug/L | 16941.051 |
| 51 | V | 1.207120 | 16.770 | -28832.967 | ug/L | -40229.573 |
| 52 | Cr | -0.437878 | 10.435 | 25362.376 | ug/L | 28466.564 |
| 55 | Mn | -0.000507 | 535.504 | 1787.516 | ug/L | 1731.838 |
| 54 | Fe | -3.462990 | 59.424 | 101663.607 | ug/L | 100632.136 |
| 57 | Fe | 0.198641 | 785.554 | 17381.047 | ug/L | 16706.412 |
| 59 | Co | 0.007249 | 12.458 | 158.001 | ug/L | 70.334 |
| 60 | Ni | 0.007921 | 22.861 | 119.582 | ug/L | 96.227 |
| 65 | Cu | 0.014381 | 49.813 | 156.859 | ug/L | 118.329 |
| 68 | Zn | -0.689829 | 41.024 | 2091.252 | ug/L | 2597.056 |
| 75 | As | 0.179352 | 163.499 | 14168.353 | ug/L | 13310.662 |
| 82 | Se | 0.107716 | 183.795 | 1384.185 | ug/L | 1314.299 |
| 97 | Mo | 0.427486 | 29.084 | 769.702 | ug/L | 15.667 |
| 72 | Ge-1 | | | 835947.143 | ug/L | 806434.181 |
| 107 | Ag | 0.014662 | 9.729 | 150.001 | ug/L | 24.000 |
| 111 | Cd | 0.011134 | 25.034 | 30.065 | ug/L | 9.169 |
| 121 | Sb | 0.041020 | 9.857 | 291.672 | ug/L | 52.333 |
| 135 | Ba | 0.005925 | 148.651 | 148.668 | ug/L | 134.334 |
| 115 | In-1 | | | 808762.944 | ug/L | 779344.025 |
| 205 | Tl | 0.122932 | 18.947 | 1903.545 | ug/L | 44.333 |
| 208 | Pb | 0.007654 | 12.243 | 631.009 | ug/L | 445.338 |
| 169 | Tm-1 | | | 527970.433 | ug/L | 486382.024 |
| 50 | Cr | 1.531541 | 4.631 | -579.488 | ug/L | -846.502 |
| 53 | Cr | -46.027255 | 4.080 | 110058.866 | ug/L | 144961.310 |
| 61 | Ni | -1.049292 | 206.237 | 1822.532 | ug/L | 1800.519 |
| 63 | Cu | 0.006436 | 54.156 | 92.335 | ug/L | 77.668 |
| 67 | Zn | -1.962157 | 26.550 | 1784.176 | ug/L | 1863.889 |
| 66 | Zn | -0.819920 | 29.408 | 814.441 | ug/L | 1133.878 |
| 76 | Se | 7.006544 | 62.169 | -108193.042 | ug/L | -104694.433 |
| 77 | Se | -33.182756 | 4.889 | 9400.534 | ug/L | 13238.006 |
| 78 | Se | -1.122812 | 39.406 | 15867.642 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -24.298636 | 154.683 | 36354.129 | ug/L | 35557.190 |
| 72 | Ge | | | 835947.143 | ug/L | 806434.181 |
| 108 | Cd | -0.023391 | 82.209 | 1.804 | ug/L | 4.692 |
| 114 | Cd | 0.009570 | 29.063 | 47.489 | ug/L | 5.763 |
| 109 | Ag | 0.012702 | 17.952 | 45.667 | ug/L | 7.667 |
| 115 | In | | | 808762.944 | ug/L | 779344.025 |
| 208 | 207.977 | 0.008070 | 13.547 | 321.339 | ug/L | 223.336 |
| 207 | Pb | 0.006539 | 19.757 | 138.334 | ug/L | 103.001 |
| 206 | Pb | 0.007737 | 37.480 | 171.335 | ug/L | 119.001 |
| 169 | Tm | | | 527970.433 | ug/L | 486382.024 |
| 106 | Pd | 0.024074 | 139.953 | 8.333 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.754 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.660 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 103.775 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 108.551 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.660 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 103.775 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 108.551 |
| Pd | 106 | |

**Sample ID: CCV 6**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 20:00:41
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 6.040
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1053105.061 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 515916.203 | ug/L | 517895.891 |
| 9 | Be | 98.104598 | 0.755 | 34225.808 | ug/L | 0.667 |
| 27 | Al | 4645.454062 | 0.685 | 26487619.263 | ug/L | 16546.635 |
| 44 | Ca | 5042.181839 | 0.869 | 1364424.333 | ug/L | 16941.051 |
| 51 | V | 100.444183 | 0.812 | 1012301.514 | ug/L | -40229.573 |
| 52 | Cr | 100.203729 | 0.419 | 962574.611 | ug/L | 28466.564 |
| 55 | Mn | 96.567047 | 0.570 | 1409378.161 | ug/L | 1731.838 |
| 54 | Fe | 4821.370951 | 0.042 | 3724382.550 | ug/L | 100632.136 |
| 57 | Fe | 4884.559691 | 0.452 | 1572093.347 | ug/L | 16706.412 |
| 59 | Co | 100.109499 | 0.753 | 1156444.287 | ug/L | 70.334 |
| 60 | Ni | 100.134156 | 0.722 | 246833.488 | ug/L | 96.227 |
| 65 | Cu | 100.230325 | 0.745 | 234749.442 | ug/L | 118.329 |
| 68 | Zn | 95.645674 | 0.347 | 84677.096 | ug/L | 2597.056 |
| 75 | As | 98.963950 | 0.746 | 213657.919 | ug/L | 13310.662 |
| 82 | Se | 97.155964 | 0.540 | 20557.512 | ug/L | 1314.299 |
| 97 | Mo | 192.495077 | 1.241 | 334284.879 | ug/L | 15.667 |
| 72 | Ge-1 | | | 822744.499 | ug/L | 806434.181 |
| 107 | Ag | 49.442552 | 1.678 | 409043.728 | ug/L | 24.000 |
| 111 | Cd | 98.825114 | 0.363 | 176524.654 | ug/L | 9.169 |
| 121 | Sb | 49.505656 | 0.581 | 278129.078 | ug/L | 52.333 |
| 135 | Ba | 100.039597 | 0.985 | 149594.062 | ug/L | 134.334 |
| 115 | In-1 | | | 784567.323 | ug/L | 779344.025 |
| 205 | Tl | 51.550611 | 1.653 | 766836.073 | ug/L | 44.333 |
| 208 | Pb | 102.956319 | 1.456 | 1959821.872 | ug/L | 445.338 |
| 169 | Tm-1 | | | 520848.680 | ug/L | 486382.024 |
| 50 | Cr | 109.315985 | 3.910 | 20066.864 | ug/L | -846.502 |
| 53 | Cr | 82.184970 | 1.913 | 218545.678 | ug/L | 144961.310 |
| 61 | Ni | 96.622661 | 0.604 | 5834.776 | ug/L | 1800.519 |
| 63 | Cu | 100.947113 | 0.682 | 183011.568 | ug/L | 77.668 |
| 67 | Zn | 93.633720 | 0.759 | 8840.153 | ug/L | 1863.889 |
| 66 | Zn | 96.485127 | 0.391 | 42981.256 | ug/L | 1133.878 |
| 76 | Se | 97.643418 | 24.856 | -102240.096 | ug/L | -104694.433 |
| 77 | Se | 80.411144 | 3.677 | 23812.668 | ug/L | 13238.006 |
| 78 | Se | 96.874648 | 0.503 | 62812.359 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 41.638195 | 23.958 | 37122.048 | ug/L | 35557.190 |
| 72 | Ge | | | 822744.499 | ug/L | 806434.181 |
| 108 | Cd | 96.909838 | 1.288 | 12378.927 | ug/L | 4.692 |
| 114 | Cd | 99.169264 | 0.657 | 417193.249 | ug/L | 5.763 |
| 109 | Ag | 48.773479 | 0.189 | 140464.339 | ug/L | 7.667 |
| 115 | In | | | 784567.323 | ug/L | 779344.025 |
| 208 | 207.977 | 103.577798 | 1.233 | 998623.767 | ug/L | 223.336 |
| 207 | Pb | 102.820611 | 1.933 | 412005.934 | ug/L | 103.001 |
| 206 | Pb | 101.944864 | 2.134 | 549192.172 | ug/L | 119.001 |
| 169 | Tm | | | 520848.680 | ug/L | 486382.024 |
| 106 | Pd | 102.483974 | 1.155 | 15613.920 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.618 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 102.023 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.670 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.086 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 102.023 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.670 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.086 |
| Pd | 106 | |

**Sample ID: CCB 6**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 20:05:02
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 6.041
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1066597.828 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 518695.565 | ug/L | 517895.891 |
| 9 | Be | 0.017112 | 25.583 | 6.667 | ug/L | 0.667 |
| 27 | Al | 0.573336 | 6.925 | 20671.055 | ug/L | 16546.635 |
| 44 | Ca | -15.411942 | 1.488 | 13508.086 | ug/L | 16941.051 |
| 51 | V | 1.273401 | 22.340 | -28397.010 | ug/L | -40229.573 |
| 52 | Cr | -0.267272 | 13.495 | 27240.672 | ug/L | 28466.564 |
| 55 | Mn | -0.001042 | 284.592 | 1797.185 | ug/L | 1731.838 |
| 54 | Fe | -2.921698 | 18.057 | 103081.417 | ug/L | 100632.136 |
| 57 | Fe | 1.601820 | 48.595 | 18009.561 | ug/L | 16706.412 |
| 59 | Co | 0.007681 | 18.291 | 164.668 | ug/L | 70.334 |
| 60 | Ni | 0.007695 | 23.790 | 120.176 | ug/L | 96.227 |
| 65 | Cu | 0.008425 | 49.052 | 144.136 | ug/L | 118.329 |
| 68 | Zn | -0.724412 | 39.666 | 2080.250 | ug/L | 2597.056 |
| 75 | As | 0.160977 | 101.555 | 14266.173 | ug/L | 13310.662 |
| 82 | Se | 0.080688 | 187.575 | 1391.967 | ug/L | 1314.299 |
| 97 | Mo | 0.462153 | 25.864 | 840.375 | ug/L | 15.667 |
| 72 | Ge-1 | | | 844120.567 | ug/L | 806434.181 |
| 107 | Ag | 0.015319 | 4.848 | 156.668 | ug/L | 24.000 |
| 111 | Cd | 0.007268 | 98.617 | 23.111 | ug/L | 9.169 |
| 121 | Sb | 0.043700 | 17.287 | 309.672 | ug/L | 52.333 |
| 135 | Ba | 0.015011 | 40.177 | 163.668 | ug/L | 134.334 |
| 115 | In-1 | | | 814628.840 | ug/L | 779344.025 |
| 205 | Tl | 0.142526 | 16.859 | 2193.279 | ug/L | 44.333 |
| 208 | Pb | 0.008871 | 14.664 | 653.676 | ug/L | 445.338 |
| 169 | Tm-1 | | | 527338.159 | ug/L | 486382.024 |
| 50 | Cr | 1.331710 | 6.239 | -624.417 | ug/L | -846.502 |
| 53 | Cr | -43.780425 | 3.899 | 113120.908 | ug/L | 144961.310 |
| 61 | Ni | -0.497436 | 95.476 | 1863.556 | ug/L | 1800.519 |
| 63 | Cu | 0.006656 | 8.878 | 93.668 | ug/L | 77.668 |
| 67 | Zn | -1.390973 | 21.457 | 1845.211 | ug/L | 1863.889 |
| 66 | Zn | -0.767437 | 48.575 | 845.117 | ug/L | 1133.878 |
| 76 | Se | -8.184372 | 117.342 | -109981.989 | ug/L | -104694.433 |
| 77 | Se | -31.347118 | 4.411 | 9734.122 | ug/L | 13238.006 |
| 78 | Se | -0.948394 | 62.179 | 16107.930 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -29.397033 | 97.106 | 36607.203 | ug/L | 35557.190 |
| 72 | Ge | | | 844120.567 | ug/L | 806434.181 |
| 108 | Cd | 0.027715 | 112.750 | 8.568 | ug/L | 4.692 |
| 114 | Cd | 0.010845 | 49.598 | 53.311 | ug/L | 5.763 |
| 109 | Ag | 0.018613 | 10.563 | 63.667 | ug/L | 7.667 |
| 115 | In | | | 814628.840 | ug/L | 779344.025 |
| 208 | 207.977 | 0.009933 | 19.834 | 339.007 | ug/L | 223.336 |
| 207 | Pb | 0.004937 | 65.474 | 131.668 | ug/L | 103.001 |
| 206 | Pb | 0.009897 | 9.693 | 183.002 | ug/L | 119.001 |
| 169 | Tm | | | 527338.159 | ug/L | 486382.024 |
| 106 | Pd | 0.008754 | 198.431 | 6.000 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.154 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 104.673 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 104.528 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 108.421 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 104.673 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 104.528 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 108.421 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: CCV 7**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 20:52:25
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 7.052
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1056667.745 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 531632.085 | ug/L | 517895.891 |
| 9 | Be | 95.047156 | 2.564 | 34164.581 | ug/L | 0.667 |
| 27 | Al | 4557.691684 | 1.989 | 26266925.619 | ug/L | 16546.635 |
| 44 | Ca | 4983.311035 | 1.530 | 1363273.922 | ug/L | 16941.051 |
| 51 | V | 100.060851 | 1.488 | 1019110.426 | ug/L | -40229.573 |
| 52 | Cr | 99.303006 | 1.427 | 964468.850 | ug/L | 28466.564 |
| 55 | Mn | 95.174944 | 2.139 | 1403994.774 | ug/L | 1731.838 |
| 54 | Fe | 4788.306712 | 0.394 | 3739606.870 | ug/L | 100632.136 |
| 57 | Fe | 4790.114495 | 1.772 | 1558627.503 | ug/L | 16706.412 |
| 59 | Co | 98.386977 | 1.092 | 1148796.264 | ug/L | 70.334 |
| 60 | Ni | 99.042559 | 1.871 | 246769.009 | ug/L | 96.227 |
| 65 | Cu | 98.067178 | 1.062 | 232175.875 | ug/L | 118.329 |
| 68 | Zn | 92.102633 | 0.914 | 82521.981 | ug/L | 2597.056 |
| 75 | As | 96.545141 | 1.230 | 211026.848 | ug/L | 13310.662 |
| 82 | Se | 94.621049 | 1.103 | 20272.482 | ug/L | 1314.299 |
| 97 | Mo | 188.003147 | 1.191 | 330018.396 | ug/L | 15.667 |
| 72 | Ge-1 | | | 831672.398 | ug/L | 806434.181 |
| 107 | Ag | 48.624767 | 2.206 | 402129.394 | ug/L | 24.000 |
| 111 | Cd | 96.966372 | 2.129 | 173120.800 | ug/L | 9.169 |
| 121 | Sb | 48.886829 | 1.655 | 274540.146 | ug/L | 52.333 |
| 135 | Ba | 98.655849 | 1.654 | 147465.250 | ug/L | 134.334 |
| 115 | In-1 | | | 784361.850 | ug/L | 779344.025 |
| 205 | Tl | 50.830168 | 1.793 | 763009.733 | ug/L | 44.333 |
| 208 | Pb | 102.789245 | 0.649 | 1974440.986 | ug/L | 445.338 |
| 169 | Tm-1 | | | 525542.529 | ug/L | 486382.024 |
| 50 | Cr | 108.984573 | 3.071 | 20225.954 | ug/L | -846.502 |
| 53 | Cr | 84.960477 | 1.670 | 223328.530 | ug/L | 144961.310 |
| 61 | Ni | 91.422285 | 2.721 | 5680.158 | ug/L | 1800.519 |
| 63 | Cu | 98.722968 | 1.408 | 180907.156 | ug/L | 77.668 |
| 67 | Zn | 92.200735 | 2.567 | 8828.120 | ug/L | 1863.889 |
| 66 | Zn | 93.304928 | 1.988 | 42049.034 | ug/L | 1133.878 |
| 76 | Se | 70.485605 | 43.023 | -104637.300 | ug/L | -104694.433 |
| 77 | Se | 89.166546 | 2.117 | 25202.381 | ug/L | 13238.006 |
| 78 | Se | 93.784806 | 1.559 | 61986.712 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 25.164319 | 61.729 | 37187.243 | ug/L | 35557.190 |
| 72 | Ge | | | 831672.398 | ug/L | 806434.181 |
| 108 | Cd | 94.610088 | 0.619 | 12082.939 | ug/L | 4.692 |
| 114 | Cd | 97.652673 | 1.061 | 410676.725 | ug/L | 5.763 |
| 109 | Ag | 48.224990 | 2.870 | 138796.192 | ug/L | 7.667 |
| 115 | In | | | 784361.850 | ug/L | 779344.025 |
| 208 | 207.977 | 103.331127 | 1.078 | 1005358.178 | ug/L | 223.336 |
| 207 | Pb | 103.064473 | 0.660 | 416748.731 | ug/L | 103.001 |
| 206 | Pb | 101.614564 | 0.916 | 552334.077 | ug/L | 119.001 |
| 169 | Tm | | | 525542.529 | ug/L | 486382.024 |
| 106 | Pd | 100.241157 | 1.381 | 15272.318 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 102.652 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.130 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.644 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 108.051 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.130 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.644 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 108.051 |
| Pd | 106 | |

**Sample ID: CCB 7**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 20:56:46
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 7.053
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1052082.247 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 523111.944 | ug/L | 517895.891 |
| 9 | Be | 0.013185 | 33.265 | 5.333 | ug/L | 0.667 |
| 27 | Al | 0.641230 | 7.843 | 20760.600 | ug/L | 16546.635 |
| 44 | Ca | -12.530829 | 8.989 | 14088.335 | ug/L | 16941.051 |
| 51 | V | 1.328504 | 12.825 | -27402.411 | ug/L | -40229.573 |
| 52 | Cr | 0.103333 | 74.372 | 30332.492 | ug/L | 28466.564 |
| 55 | Mn | 0.012805 | 20.616 | 1974.890 | ug/L | 1731.838 |
| 54 | Fe | -0.963705 | 192.692 | 103061.607 | ug/L | 100632.136 |
| 57 | Fe | 3.118910 | 11.302 | 18236.280 | ug/L | 16706.412 |
| 59 | Co | 0.010562 | 10.729 | 196.002 | ug/L | 70.334 |
| 60 | Ni | 0.010622 | 45.978 | 125.769 | ug/L | 96.227 |
| 65 | Cu | 0.011710 | 62.184 | 149.692 | ug/L | 118.329 |
| 68 | Zn | -0.456285 | 154.808 | 2287.648 | ug/L | 2597.056 |
| 75 | As | 0.363489 | 151.668 | 14466.478 | ug/L | 13310.662 |
| 82 | Se | 0.344928 | 100.035 | 1424.156 | ug/L | 1314.299 |
| 97 | Mo | 0.468928 | 25.516 | 838.375 | ug/L | 15.667 |
| 72 | Ge-1 | | | 831860.456 | ug/L | 806434.181 |
| 107 | Ag | 0.018918 | 3.513 | 183.002 | ug/L | 24.000 |
| 111 | Cd | 0.010505 | 54.907 | 28.328 | ug/L | 9.169 |
| 121 | Sb | 0.053882 | 3.856 | 360.007 | ug/L | 52.333 |
| 135 | Ba | 0.008914 | 128.649 | 150.335 | ug/L | 134.334 |
| 115 | In-1 | | | 794751.828 | ug/L | 779344.025 |
| 205 | Tl | 0.125197 | 19.726 | 1902.212 | ug/L | 44.333 |
| 208 | Pb | 0.010641 | 23.532 | 677.010 | ug/L | 445.338 |
| 169 | Tm-1 | | | 518810.321 | ug/L | 486382.024 |
| 50 | Cr | 1.078651 | 10.619 | -664.315 | ug/L | -846.502 |
| 53 | Cr | -41.201871 | 7.604 | 113706.171 | ug/L | 144961.310 |
| 61 | Ni | -3.794711 | 68.113 | 1697.795 | ug/L | 1800.519 |
| 63 | Cu | 0.007418 | 37.888 | 93.668 | ug/L | 77.668 |
| 67 | Zn | -1.206190 | 17.412 | 1832.204 | ug/L | 1863.889 |
| 66 | Zn | -0.439331 | 161.827 | 979.165 | ug/L | 1133.878 |
| 76 | Se | 19.116217 | 64.485 | -107092.712 | ug/L | -104694.433 |
| 77 | Se | -23.958219 | 4.249 | 10550.451 | ug/L | 13238.006 |
| 78 | Se | -0.665942 | 35.604 | 16011.662 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -24.416813 | 147.272 | 36173.272 | ug/L | 35557.190 |
| > 72 | Ge | | | 831860.456 | ug/L | 806434.181 |
| 108 | Cd | 0.003918 | 297.705 | 5.297 | ug/L | 4.692 |
| 114 | Cd | 0.012406 | 52.081 | 58.530 | ug/L | 5.763 |
| 109 | Ag | 0.019967 | 13.190 | 66.001 | ug/L | 7.667 |
| > 115 | In | | | 794751.828 | ug/L | 779344.025 |
| 208 | 207.977 | 0.012076 | 23.218 | 354.341 | ug/L | 223.336 |
| 207 | Pb | 0.004954 | 62.770 | 129.668 | ug/L | 103.001 |
| 206 | Pb | 0.012301 | 21.325 | 193.002 | ug/L | 119.001 |
| > 169 | Tm | | | 518810.321 | ug/L | 486382.024 |
| 106 | Pd | 0.017508 | 114.564 | 7.333 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.007 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.153 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 101.977 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 106.667 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.153 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 101.977 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 106.667 |
| Pd | 106 | |

**Sample ID: CCV 8**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:01:07
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 8.054
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1046213.683 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 525733.553 | ug/L | 517895.891 |
| 9 | Be | 95.680942 | 0.624 | 34015.658 | ug/L | 0.667 |
| 27 | Al | 4577.952193 | 0.728 | 26126701.499 | ug/L | 16546.635 |
| 44 | Ca | 4989.514430 | 1.207 | 1351617.208 | ug/L | 16941.051 |
| 51 | V | 100.187404 | 0.309 | 1010486.457 | ug/L | -40229.573 |
| 52 | Cr | 99.554764 | 0.677 | 957388.648 | ug/L | 28466.564 |
| 55 | Mn | 95.861373 | 0.494 | 1400341.496 | ug/L | 1731.838 |
| 54 | Fe | 4812.282658 | 0.271 | 3720838.353 | ug/L | 100632.136 |
| 57 | Fe | 4786.636623 | 0.211 | 1542315.930 | ug/L | 16706.412 |
| 59 | Co | 98.888961 | 0.535 | 1143345.869 | ug/L | 70.334 |
| 60 | Ni | 98.740474 | 0.628 | 243613.247 | ug/L | 96.227 |
| 65 | Cu | 98.236353 | 0.523 | 230288.018 | ug/L | 118.329 |
| 68 | Zn | 93.038829 | 0.479 | 82515.925 | ug/L | 2597.056 |
| 75 | As | 98.228301 | 0.628 | 212367.195 | ug/L | 13310.662 |
| 82 | Se | 95.011890 | 0.726 | 20151.138 | ug/L | 1314.299 |
| 97 | Mo | 189.971543 | 1.036 | 330209.819 | ug/L | 15.667 |
| 72 | Ge-1 | | | 823471.102 | ug/L | 806434.181 |
| 107 | Ag | 48.696028 | 1.086 | 401282.812 | ug/L | 24.000 |
| 111 | Cd | 96.887472 | 1.224 | 172358.011 | ug/L | 9.169 |
| 121 | Sb | 48.883546 | 0.677 | 273526.857 | ug/L | 52.333 |
| 135 | Ba | 99.077068 | 0.621 | 147559.527 | ug/L | 134.334 |
| 115 | In-1 | | | 781364.503 | ug/L | 779344.025 |
| 205 | Tl | 51.501126 | 0.548 | 758373.715 | ug/L | 44.333 |
| 208 | Pb | 104.563657 | 0.475 | 1970067.847 | ug/L | 445.338 |
| 169 | Tm-1 | | | 515503.719 | ug/L | 486382.024 |
| 50 | Cr | 107.572155 | 2.547 | 19752.250 | ug/L | -846.502 |
| 53 | Cr | 84.724727 | 4.289 | 220916.060 | ug/L | 144961.310 |
| 61 | Ni | 94.143684 | 3.574 | 5737.264 | ug/L | 1800.519 |
| 63 | Cu | 99.015870 | 0.553 | 179670.115 | ug/L | 77.668 |
| 67 | Zn | 91.744916 | 1.673 | 8708.118 | ug/L | 1863.889 |
| 66 | Zn | 93.188199 | 0.785 | 41588.247 | ug/L | 1133.878 |
| 76 | Se | 91.674184 | 6.755 | -102603.762 | ug/L | -104694.433 |
| 77 | Se | 87.232495 | 1.169 | 24707.061 | ug/L | 13238.006 |
| 78 | Se | 95.402804 | 0.649 | 62159.732 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 7.770374 | 259.822 | 36466.118 | ug/L | 35557.190 |
| 72 | Ge | | | 823471.102 | ug/L | 806434.181 |
| 108 | Cd | 93.480864 | 1.100 | 11893.677 | ug/L | 4.692 |
| 114 | Cd | 97.831740 | 0.845 | 409908.057 | ug/L | 5.763 |
| 109 | Ag | 48.347683 | 1.714 | 138664.110 | ug/L | 7.667 |
| 115 | In | | | 781364.503 | ug/L | 779344.025 |
| 208 | 207.977 | 105.848098 | 0.679 | 1010099.865 | ug/L | 223.336 |
| 207 | Pb | 103.869886 | 0.609 | 411975.193 | ug/L | 103.001 |
| 206 | Pb | 102.780691 | 0.696 | 547992.788 | ug/L | 119.001 |
| 169 | Tm | | | 515503.719 | ug/L | 486382.024 |
| 106 | Pd | 99.881635 | 2.401 | 15217.560 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.513 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 102.113 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.259 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 105.987 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 102.113 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.259 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 105.987 |
| Pd | 106 | |

**Sample ID: CCB 8**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:05:27
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 8.055
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1058788.806 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 527514.705 | ug/L | 517895.891 |
| 9 | Be | 0.026166 | 67.313 | 10.000 | ug/L | 0.667 |
| 27 | Al | 0.745479 | 6.735 | 21563.540 | ug/L | 16546.635 |
| 44 | Ca | -13.364818 | 2.778 | 13994.850 | ug/L | 16941.051 |
| 51 | V | 1.414859 | 10.851 | -26746.680 | ug/L | -40229.573 |
| 52 | Cr | 0.088310 | 27.218 | 30479.327 | ug/L | 28466.564 |
| 55 | Mn | 0.012696 | 37.210 | 1991.894 | ug/L | 1731.838 |
| 54 | Fe | -1.386926 | 13.865 | 103718.274 | ug/L | 100632.136 |
| 57 | Fe | 2.646783 | 34.181 | 18255.317 | ug/L | 16706.412 |
| 59 | Co | 0.012082 | 13.516 | 215.669 | ug/L | 70.334 |
| 60 | Ni | 0.009150 | 47.891 | 123.238 | ug/L | 96.227 |
| 65 | Cu | 0.020079 | 47.115 | 171.122 | ug/L | 118.329 |
| 68 | Zn | -0.922877 | 22.702 | 1896.874 | ug/L | 2597.056 |
| 75 | As | 0.546178 | 30.254 | 14987.637 | ug/L | 13310.662 |
| 82 | Se | 0.346026 | 41.112 | 1438.331 | ug/L | 1314.299 |
| 97 | Mo | 0.485488 | 27.181 | 876.046 | ug/L | 15.667 |
| 72 | Ge-1 | | | 839687.228 | ug/L | 806434.181 |
| 107 | Ag | 0.018444 | 3.318 | 180.669 | ug/L | 24.000 |
| 111 | Cd | 0.009214 | 27.259 | 26.254 | ug/L | 9.169 |
| 121 | Sb | 0.052625 | 7.971 | 356.007 | ug/L | 52.333 |
| 135 | Ba | 0.014708 | 118.671 | 160.668 | ug/L | 134.334 |
| 115 | In-1 | | | 801886.944 | ug/L | 779344.025 |
| 205 | Tl | 0.148179 | 16.908 | 2284.304 | ug/L | 44.333 |
| 208 | Pb | 0.011918 | 12.094 | 713.344 | ug/L | 445.338 |
| 169 | Tm-1 | | | 528041.960 | ug/L | 486382.024 |
| 50 | Cr | 1.059691 | 3.510 | -674.289 | ug/L | -846.502 |
| 53 | Cr | -43.891327 | 7.322 | 112424.492 | ug/L | 144961.310 |
| 61 | Ni | -5.801360 | 5.194 | 1629.758 | ug/L | 1800.519 |
| 63 | Cu | 0.014295 | 38.125 | 107.335 | ug/L | 77.668 |
| 67 | Zn | -1.986888 | 58.257 | 1790.180 | ug/L | 1863.889 |
| 66 | Zn | -0.967675 | 19.037 | 752.758 | ug/L | 1133.878 |
| 76 | Se | 5.742123 | 455.408 | -108740.716 | ug/L | -104694.433 |
| 77 | Se | -26.692968 | 6.184 | 10291.903 | ug/L | 13238.006 |
| 78 | Se | -0.951579 | 30.345 | 16022.868 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -47.912856 | 100.422 | 36028.532 | ug/L | 35557.190 |
| 72 | Ge | | | 839687.228 | ug/L | 806434.181 |
| 108 | Cd | 0.021461 | 61.445 | 7.630 | ug/L | 4.692 |
| 114 | Cd | 0.014865 | 33.516 | 69.846 | ug/L | 5.763 |
| 109 | Ag | 0.021103 | 13.193 | 70.001 | ug/L | 7.667 |
| 115 | In | | | 801886.944 | ug/L | 779344.025 |
| 208 | 207.977 | 0.012237 | 13.261 | 362.007 | ug/L | 223.336 |
| 207 | Pb | 0.008825 | 13.521 | 147.668 | ug/L | 103.001 |
| 206 | Pb | 0.013647 | 14.768 | 203.669 | ug/L | 119.001 |
| 169 | Tm | | | 528041.960 | ug/L | 486382.024 |
| 106 | Pd | 0.015320 | 128.571 | 7.000 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.857 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 104.123 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.893 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 108.565 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 104.123 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.893 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 108.565 |
| Pd | 106 | |

**Sample ID: CCV 9**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:53:21
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 9.066
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1053311.693 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 534194.948 | ug/L | 517895.891 |
| 9 | Be | 93.063662 | 0.798 | 33617.792 | ug/L | 0.667 |
| 27 | Al X | 4435.090171 | 0.496 | 25657030.369 | ug/L | 16546.635 |
| 44 | Ca | 4891.442401 | 0.386 | 1343486.193 | ug/L | 16941.051 |
| 51 | V | 98.615397 | 0.530 | 1007560.218 | ug/L | -40229.573 |
| 52 | Cr | 98.616076 | 0.500 | 961588.414 | ug/L | 28466.564 |
| 55 | Mn | 94.080350 | 1.104 | 1393109.194 | ug/L | 1731.838 |
| 54 | Fe | 4722.772387 | 0.193 | 3703395.024 | ug/L | 100632.136 |
| 57 | Fe | 4688.451444 | 0.351 | 1531642.160 | ug/L | 16706.412 |
| 59 | Co | 96.719040 | 0.456 | 1133531.855 | ug/L | 70.334 |
| 60 | Ni | 96.362675 | 0.683 | 240996.170 | ug/L | 96.227 |
| 65 | Cu | 96.445572 | 0.380 | 229175.795 | ug/L | 118.329 |
| 68 | Zn | 90.680872 | 0.589 | 81589.293 | ug/L | 2597.056 |
| 75 | As | 96.340138 | 0.172 | 211392.527 | ug/L | 13310.662 |
| 82 | Se | 92.114455 | 0.273 | 19844.761 | ug/L | 1314.299 |
| 97 | Mo | 183.991192 | 0.563 | 324184.247 | ug/L | 15.667 |
| 72 | Ge-1 | | | 834709.158 | ug/L | 806434.181 |
| 107 | Ag | 48.171531 | 0.967 | 399873.017 | ug/L | 24.000 |
| 111 | Cd | 95.308656 | 1.603 | 170780.871 | ug/L | 9.169 |
| 121 | Sb | 48.179469 | 0.151 | 271568.053 | ug/L | 52.333 |
| 135 | Ba | 98.111678 | 0.714 | 147189.000 | ug/L | 134.334 |
| 115 | In-1 | | | 787101.833 | ug/L | 779344.025 |
| 205 | Tl | 50.404842 | 0.258 | 754573.264 | ug/L | 44.333 |
| 208 | Pb | 103.771223 | 0.722 | 1987683.575 | ug/L | 445.338 |
| 169 | Tm-1 | | | 524093.726 | ug/L | 486382.024 |
| 50 | Cr | 109.197307 | 2.372 | 20337.828 | ug/L | -846.502 |
| 53 | Cr | 83.798320 | 6.295 | 223135.056 | ug/L | 144961.310 |
| 61 | Ni | 86.527547 | 3.220 | 5496.164 | ug/L | 1800.519 |
| 63 | Cu | 97.095312 | 0.478 | 178588.952 | ug/L | 77.668 |
| 67 | Zn | 88.441530 | 1.042 | 8578.760 | ug/L | 1863.889 |
| 66 | Zn | 91.129682 | 0.556 | 41250.136 | ug/L | 1133.878 |
| 76 | Se | 78.238969 | 22.801 | -104645.470 | ug/L | -104694.433 |
| 77 | Se | 89.175665 | 2.240 | 25297.576 | ug/L | 13238.006 |
| 78 | Se | 93.059287 | 0.872 | 61863.291 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -22.713822 | 99.978 | 36337.751 | ug/L | 35557.190 |
| 72 | Ge | | | 834709.158 | ug/L | 806434.181 |
| 108 | Cd | 93.040049 | 2.416 | 11924.678 | ug/L | 4.692 |
| 114 | Cd | 95.723912 | 0.957 | 404006.702 | ug/L | 5.763 |
| 109 | Ag | 47.579193 | 0.960 | 137457.804 | ug/L | 7.667 |
| 115 | In | | | 787101.833 | ug/L | 779344.025 |
| 208 | 207.977 | 104.200558 | 1.108 | 1010918.245 | ug/L | 223.336 |
| 207 | Pb | 104.123443 | 0.942 | 419859.348 | ug/L | 103.001 |
| 206 | Pb | 102.740718 | 0.539 | 556905.981 | ug/L | 119.001 |
| 169 | Tm | | | 524093.726 | ug/L | 486382.024 |
| 106 | Pd | 99.408063 | 0.923 | 15145.430 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 103.147 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 103.506 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.995 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 107.754 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 103.506 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.995 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 107.754 |
| Pd | 106 | |

**Sample ID: CCB 9**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:57:43
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 9.067
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1057975.987 | ug/L | 1035979.525 |
| 6 | Li-1 | | | 533211.627 | ug/L | 517895.891 |
| 9 | Be | 0.013836 | 70.774 | 5.667 | ug/L | 0.667 |
| 27 | Al | 0.765222 | 3.998 | 21656.102 | ug/L | 16546.635 |
| 44 | Ca | -14.417849 | 7.054 | 13691.705 | ug/L | 16941.051 |
| 51 | V | 1.542605 | 9.761 | -25351.494 | ug/L | -40229.573 |
| 52 | Cr | 0.085977 | 77.539 | 30421.463 | ug/L | 28466.564 |
| 55 | Mn | 0.010866 | 33.544 | 1962.553 | ug/L | 1731.838 |
| 54 | Fe | -1.891273 | 48.651 | 103219.336 | ug/L | 100632.136 |
| 57 | Fe | 1.653657 | 68.850 | 17911.054 | ug/L | 16706.412 |
| 59 | Co | 0.014966 | 6.238 | 249.337 | ug/L | 70.334 |
| 60 | Ni | 0.006235 | 6.268 | 115.754 | ug/L | 96.227 |
| 65 | Cu | 0.013236 | 25.185 | 154.638 | ug/L | 118.329 |
| 68 | Zn | -0.988842 | 8.122 | 1837.193 | ug/L | 2597.056 |
| 75 | As | 0.323542 | 71.302 | 14510.311 | ug/L | 13310.662 |
| 82 | Se | 0.131872 | 96.814 | 1393.483 | ug/L | 1314.299 |
| 97 | Mo | 0.478680 | 23.002 | 862.377 | ug/L | 15.667 |
| 72 | Ge-1 | | | 838809.520 | ug/L | 806434.181 |
| 107 | Ag | 0.021233 | 3.630 | 204.002 | ug/L | 24.000 |
| 111 | Cd | 0.010464 | 81.213 | 28.514 | ug/L | 9.169 |
| 121 | Sb | 0.041594 | 8.859 | 292.338 | ug/L | 52.333 |
| 135 | Ba | 0.017440 | 40.275 | 164.668 | ug/L | 134.334 |
| 115 | In-1 | | | 801078.607 | ug/L | 779344.025 |
| 205 | Tl | 0.129818 | 16.570 | 2008.901 | ug/L | 44.333 |
| 208 | Pb | 0.013641 | 17.104 | 747.679 | ug/L | 445.338 |
| 169 | Tm-1 | | | 528723.356 | ug/L | 486382.024 |
| 50 | Cr | 1.087323 | 11.173 | -668.039 | ug/L | -846.502 |
| 53 | Cr | -45.104931 | 7.233 | 111230.953 | ug/L | 144961.310 |
| 61 | Ni | -7.062628 | 22.231 | 1574.397 | ug/L | 1800.519 |
| 63 | Cu | 0.013454 | 35.317 | 105.668 | ug/L | 77.668 |
| 67 | Zn | -2.371498 | 60.539 | 1758.829 | ug/L | 1863.889 |
| 66 | Zn | -1.045287 | 19.190 | 718.083 | ug/L | 1133.878 |
| 76 | Se | 22.226301 | 55.161 | -107838.220 | ug/L | -104694.433 |
| 77 | Se | -23.457950 | 3.373 | 10703.915 | ug/L | 13238.006 |
| 78 | Se | -0.788633 | 47.278 | 16084.716 | ug/L | 15837.476 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -66.436533 | 79.618 | 35602.642 | ug/L | 35557.190 |
| > 72 | Ge | | | 838809.520 | ug/L | 806434.181 |
| 108 | Cd | 0.001962 | 694.402 | 5.075 | ug/L | 4.692 |
| 114 | Cd | 0.021932 | 17.569 | 100.238 | ug/L | 5.763 |
| 109 | Ag | 0.019303 | 10.877 | 64.667 | ug/L | 7.667 |
| > 115 | In | | | 801078.607 | ug/L | 779344.025 |
| 208 | 207.977 | 0.015110 | 33.093 | 390.675 | ug/L | 223.336 |
| 207 | Pb | 0.009767 | 29.170 | 151.668 | ug/L | 103.001 |
| 206 | Pb | 0.013895 | 17.477 | 205.336 | ug/L | 119.001 |
| > 169 | Tm | | | 528723.356 | ug/L | 486382.024 |
| 106 | Pd | 0.015320 | 171.429 | 7.000 | ug/L | 4.667 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 102.957 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 104.015 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.789 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 108.705 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 104.015 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.789 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 108.705 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: BLK RECAL**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:57:43
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 9.067
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1057975.987 | ug/L | |
| > 6 | Li-1 | | | 533211.627 | ug/L | |
| 9 | Be | | | 5.667 | ug/L | |
| 27 | Al | | | 21656.102 | ug/L | |
| 44 | Ca | | | 13691.705 | ug/L | |
| 51 | V | | | -25351.494 | ug/L | |
| 52 | Cr | | | 30421.463 | ug/L | |
| 55 | Mn | | | 1962.553 | ug/L | |
| 54 | Fe | | | 103219.336 | ug/L | |
| 57 | Fe | | | 17911.054 | ug/L | |
| 59 | Co | | | 249.337 | ug/L | |
| 60 | Ni | | | 115.754 | ug/L | |
| 65 | Cu | | | 154.638 | ug/L | |
| 68 | Zn | | | 1837.193 | ug/L | |
| 75 | As | | | 14510.311 | ug/L | |
| 82 | Se | | | 1393.483 | ug/L | |
| 97 | Mo | | | 862.377 | ug/L | |
| > 72 | Ge-1 | | | 838809.520 | ug/L | |
| 107 | Ag | | | 204.002 | ug/L | |
| 111 | Cd | | | 28.514 | ug/L | |
| 121 | Sb | | | 292.338 | ug/L | |
| 135 | Ba | | | 164.668 | ug/L | |
| > 115 | In-1 | | | 801078.607 | ug/L | |
| 205 | Tl | | | 2008.901 | ug/L | |
| 208 | Pb | | | 747.679 | ug/L | |
| > 169 | Tm-1 | | | 528723.356 | ug/L | |
| 50 | Cr | | | -668.039 | ug/L | |
| 53 | Cr | | | 111230.953 | ug/L | |
| 61 | Ni | | | 1574.397 | ug/L | |
| 63 | Cu | | | 105.668 | ug/L | |
| 67 | Zn | | | 1758.829 | ug/L | |
| 66 | Zn | | | 718.083 | ug/L | |
| 76 | Se | | | -107838.220 | ug/L | |
| 77 | Se | | | 10703.915 | ug/L | |
| 78 | Se | | | 16084.716 | ug/L | |

| | | | |
|---|---|---|---|
| 79 | Br | 35602.642 | ug/L |
| 72 | Ge | 838809.520 | ug/L |
| 108 | Cd | 5.075 | ug/L |
| 114 | Cd | 100.238 | ug/L |
| 109 | Ag | 64.667 | ug/L |
| 115 | In | 801078.607 | ug/L |
| 208 | 207.977 | 390.675 | ug/L |
| 207 | Pb | 151.668 | ug/L |
| 206 | Pb | 205.336 | ug/L |
| 169 | Tm | 528723.356 | ug/L |
| 106 | Pd | 7.000 | ug/L |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | |
| Pd | 106 | |

**Sample ID: STD1 RECAL**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 21:53:21
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 9.066
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1053311.693 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 534194.948 | ug/L | 533211.627 |
| 9 | Be | 100.000000 | 0.799 | 33617.792 | ug/L | 5.667 |
| 27 | Al | 5100.000000 | 0.497 | 25657030.369 | ug/L | 21656.102 |
| 44 | Ca | 5100.000000 | 0.385 | 1343486.193 | ug/L | 13691.705 |
| 51 | V | 100.000000 | 0.539 | 1007560.218 | ug/L | -25351.494 |
| 52 | Cr | 100.000000 | 0.500 | 961588.414 | ug/L | 30421.463 |
| 55 | Mn | 100.000000 | 1.104 | 1393109.194 | ug/L | 1962.553 |
| 54 | Fe | 5100.000000 | 0.193 | 3703395.024 | ug/L | 103219.336 |
| 57 | Fe | 5100.000000 | 0.351 | 1531642.160 | ug/L | 17911.054 |
| 59 | Co | 100.000000 | 0.456 | 1133531.855 | ug/L | 249.337 |
| 60 | Ni | 100.000000 | 0.683 | 240996.170 | ug/L | 115.754 |
| 65 | Cu | 100.000000 | 0.380 | 229175.795 | ug/L | 154.638 |
| 68 | Zn | 100.000000 | 0.583 | 81589.293 | ug/L | 1837.193 |
| 75 | As | 100.000000 | 0.173 | 211392.527 | ug/L | 14510.311 |
| 82 | Se | 100.000000 | 0.273 | 19844.761 | ug/L | 1393.483 |
| 97 | Mo | 200.000000 | 0.564 | 324184.247 | ug/L | 862.377 |
| 72 | Ge-1 | | | 834709.158 | ug/L | 838809.520 |
| 107 | Ag | 50.000000 | 0.967 | 399873.017 | ug/L | 204.002 |
| 111 | Cd | 100.000000 | 1.604 | 170780.871 | ug/L | 28.514 |
| 121 | Sb | 50.000000 | 0.151 | 271568.053 | ug/L | 292.338 |
| 135 | Ba | 100.000000 | 0.714 | 147189.000 | ug/L | 164.668 |
| 115 | In-1 | | | 787101.833 | ug/L | 801078.607 |
| 205 | Tl | 50.000000 | 0.259 | 754573.264 | ug/L | 2008.901 |
| 208 | Pb | 100.000000 | 0.722 | 1987683.575 | ug/L | 747.679 |
| 169 | Tm-1 | | | 524093.726 | ug/L | 528723.356 |
| 50 | Cr | 100.000000 | 2.396 | 20337.828 | ug/L | -668.039 |
| 53 | Cr | 100.000000 | 4.091 | 223135.056 | ug/L | 111230.953 |
| 61 | Ni | 100.000000 | 2.977 | 5496.164 | ug/L | 1574.397 |
| 63 | Cu | 100.000000 | 0.478 | 178588.952 | ug/L | 105.668 |
| 67 | Zn | 100.000000 | 1.015 | 8578.760 | ug/L | 1758.829 |
| 66 | Zn | 100.000000 | 0.550 | 41250.136 | ug/L | 718.083 |
| 76 | Se | 100.000000 | 31.810 | -104645.470 | ug/L | -107838.220 |
| 77 | Se | 100.000000 | 1.773 | 25297.576 | ug/L | 10703.915 |
| 78 | Se | 100.000000 | 0.865 | 61863.291 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 100.000000 | 51.467 | 36337.751 | ug/L | 35602.642 |
| 72 | Ge | | | 834709.158 | ug/L | 838809.520 |
| 108 | Cd | 100.000000 | 2.416 | 11924.678 | ug/L | 5.075 |
| 114 | Cd | 100.000000 | 0.957 | 404006.702 | ug/L | 100.238 |
| 109 | Ag | 50.000000 | 0.961 | 137457.804 | ug/L | 64.667 |
| 115 | In | | | 787101.833 | ug/L | 801078.607 |
| 208 | 207.977 | 100.000000 | 1.108 | 1010918.245 | ug/L | 390.675 |
| 207 | Pb | 100.000000 | 0.942 | 419859.348 | ug/L | 151.668 |
| 206 | Pb | 100.000000 | 0.539 | 556905.981 | ug/L | 205.336 |
| 169 | Tm | | | 524093.726 | ug/L | 528723.356 |
| 106 | Pd | 100.000000 | 0.924 | 15145.430 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | |
| Pd | 106 | |

**Sample ID: CCV 10**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 22:02:04
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 10.068
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1045422.940 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 536531.166 | ug/L | 533211.627 |
| 9 | Be | 98.384196 | 0.327 | 33219.608 | ug/L | 5.667 |
| 27 | Al | 5158.697883 | 0.820 | 25884097.836 | ug/L | 21656.102 |
| 44 | Ca | 5116.351089 | 0.157 | 1344232.323 | ug/L | 13691.705 |
| 51 | V | 100.413219 | 0.298 | 1009174.429 | ug/L | -25351.494 |
| 52 | Cr | 99.859671 | 0.268 | 957763.747 | ug/L | 30421.463 |
| 55 | Mn | 99.675634 | 1.201 | 1384933.871 | ug/L | 1962.553 |
| 54 | Fe | 5064.346021 | 0.924 | 3668539.632 | ug/L | 103219.336 |
| 57 | Fe | 5101.881901 | 0.379 | 1528218.066 | ug/L | 17911.054 |
| 59 | Co | 99.899003 | 0.423 | 1129433.860 | ug/L | 249.337 |
| 60 | Ni | 99.590849 | 0.353 | 239379.945 | ug/L | 115.754 |
| 65 | Cu | 99.751896 | 0.329 | 228014.306 | ug/L | 154.638 |
| 68 | Zn | 99.864372 | 1.006 | 81267.662 | ug/L | 1837.193 |
| 75 | As | 99.779098 | 0.329 | 210405.199 | ug/L | 14510.311 |
| 82 | Se | 100.381890 | 0.849 | 19862.990 | ug/L | 1393.483 |
| 97 | Mo | 200.574219 | 0.073 | 324260.403 | ug/L | 862.377 |
| 72 | Ge-1 | | | 832532.463 | ug/L | 838809.520 |
| 107 | Ag | 50.044515 | 0.204 | 397568.488 | ug/L | 204.002 |
| 111 | Cd | 99.951049 | 0.476 | 169576.690 | ug/L | 28.514 |
| 121 | Sb | 50.077765 | 0.598 | 270176.468 | ug/L | 292.338 |
| 135 | Ba | 100.907381 | 0.970 | 147536.813 | ug/L | 164.668 |
| 115 | In-1 | | | 781853.986 | ug/L | 801078.607 |
| 205 | Tl | 49.866554 | 0.224 | 749612.703 | ug/L | 2008.901 |
| 208 | Pb | 99.448600 | 0.613 | 1969014.693 | ug/L | 747.679 |
| 169 | Tm-1 | | | 522032.066 | ug/L | 528723.356 |
| 50 | Cr | 98.270591 | 3.218 | 19920.428 | ug/L | -668.039 |
| 53 | Cr | 96.496870 | 2.415 | 218619.892 | ug/L | 111230.953 |
| 61 | Ni | 100.256152 | 1.016 | 5491.488 | ug/L | 1574.397 |
| 63 | Cu | 99.125339 | 0.710 | 176564.662 | ug/L | 105.668 |
| 67 | Zn | 99.095692 | 1.593 | 8494.866 | ug/L | 1758.829 |
| 66 | Zn | 99.969737 | 0.932 | 41131.616 | ug/L | 718.083 |
| 76 | Se | 94.408165 | 67.624 | -104524.130 | ug/L | -107838.220 |
| 77 | Se | 98.449225 | 2.453 | 25005.324 | ug/L | 10703.915 |
| 78 | Se | 100.164858 | 1.041 | 61778.375 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 104.112847 | 57.585 | 36280.588 | ug/L | 35602.642 |
| 72 | Ge | | | 832532.463 | ug/L | 838809.520 |
| 108 | Cd | 100.165313 | 1.145 | 11864.604 | ug/L | 5.075 |
| 114 | Cd | 100.422688 | 0.520 | 403023.917 | ug/L | 100.238 |
| 109 | Ag | 50.045081 | 1.194 | 136673.830 | ug/L | 64.667 |
| 115 | In | | | 781853.986 | ug/L | 801078.607 |
| 208 | 207.977 | 100.103988 | 0.741 | 1008054.032 | ug/L | 390.675 |
| 207 | Pb | 98.319717 | 0.613 | 411194.454 | ug/L | 151.668 |
| 206 | Pb | 99.109966 | 0.656 | 549766.208 | ug/L | 205.336 |
| 169 | Tm | | | 522032.066 | ug/L | 528723.356 |
| 106 | Pd | 99.144190 | 1.050 | 15015.874 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.623 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.252 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 97.600 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 98.734 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.252 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 97.600 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 98.734 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: CCB 10**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 22:06:25
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 10.069
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1061343.122 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 536299.970 | ug/L | 533211.627 |
| 9 | Be | 0.005831 | 29.862 | 7.667 | ug/L | 5.667 |
| 27 | Al | 0.229742 | 20.554 | 22905.611 | ug/L | 21656.102 |
| 44 | Ca | -0.050378 | 2024.269 | 13731.435 | ug/L | 13691.705 |
| 51 | V | -0.067674 | 257.198 | -26153.199 | ug/L | -25351.494 |
| 52 | Cr | 0.041150 | 60.707 | 30926.225 | ug/L | 30421.463 |
| 55 | Mn | 0.007965 | 49.657 | 2081.914 | ug/L | 1962.553 |
| 54 | Fe | 0.308448 | 217.931 | 103840.594 | ug/L | 103219.336 |
| 57 | Fe | -0.491086 | 178.908 | 17833.499 | ug/L | 17911.054 |
| 59 | Co | 0.001695 | 85.569 | 269.671 | ug/L | 249.337 |
| 60 | Ni | 0.011081 | 78.519 | 143.151 | ug/L | 115.754 |
| 65 | Cu | 0.012074 | 27.393 | 183.138 | ug/L | 154.638 |
| 68 | Zn | -0.275379 | 42.368 | 1622.817 | ug/L | 1837.193 |
| 75 | As | 0.097588 | 509.817 | 14761.056 | ug/L | 14510.311 |
| 82 | Se | -0.098437 | 281.590 | 1380.613 | ug/L | 1393.483 |
| 97 | Mo | 0.058794 | 208.284 | 961.388 | ug/L | 862.377 |
| 72 | Ge-1 | | | 842072.389 | ug/L | 838809.520 |
| 107 | Ag | 0.003739 | 32.148 | 234.336 | ug/L | 204.002 |
| 111 | Cd | 0.008466 | 39.978 | 43.231 | ug/L | 28.514 |
| 121 | Sb | 0.005239 | 65.848 | 321.006 | ug/L | 292.338 |
| 135 | Ba | 0.009117 | 191.423 | 178.335 | ug/L | 164.668 |
| 115 | In-1 | | | 800576.588 | ug/L | 801078.607 |
| 205 | Tl | 0.018309 | 115.116 | 2293.305 | ug/L | 2008.901 |
| 208 | Pb | 0.003494 | 48.347 | 819.015 | ug/L | 747.679 |
| 169 | Tm-1 | | | 529259.745 | ug/L | 528723.356 |
| 50 | Cr | 0.057687 | 172.456 | -658.391 | ug/L | -668.039 |
| 53 | Cr | -1.087519 | 206.720 | 110427.660 | ug/L | 111230.953 |
| 61 | Ni | 0.636024 | 151.021 | 1605.746 | ug/L | 1574.397 |
| 63 | Cu | -0.000966 | 269.445 | 104.335 | ug/L | 105.668 |
| 67 | Zn | 0.071205 | 1471.029 | 1770.502 | ug/L | 1758.829 |
| 66 | Zn | -0.113958 | 246.741 | 674.408 | ug/L | 718.083 |
| 76 | Se | -2.926253 | 876.555 | -108335.952 | ug/L | -107838.220 |
| 77 | Se | -0.920186 | 147.702 | 10609.502 | ug/L | 10703.915 |
| 78 | Se | -0.064249 | 546.273 | 16117.748 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 1.673660 | 6049.634 | 35755.418 | ug/L | 35602.642 |
| 72 | Ge | | | 842072.389 | ug/L | 838809.520 |
| 108 | Cd | 0.000037 | 134238.356 | 5.050 | ug/L | 5.075 |
| 114 | Cd | -0.001960 | 420.533 | 92.147 | ug/L | 100.238 |
| 109 | Ag | 0.001216 | 260.439 | 68.001 | ug/L | 64.667 |
| 115 | In | | | 800576.588 | ug/L | 801078.607 |
| 208 | 207.977 | 0.002585 | 149.755 | 418.010 | ug/L | 390.675 |
| 207 | Pb | 0.006256 | 14.055 | 178.335 | ug/L | 151.668 |
| 206 | Pb | 0.003060 | 47.344 | 222.670 | ug/L | 205.336 |
| 169 | Tm | | | 529259.745 | ug/L | 528723.356 |
| 106 | Pd | 0.002202 | 458.258 | 7.333 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.579 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 100.389 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.937 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 100.101 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 100.389 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.937 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 100.101 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: H87HNB**
Sample Description: G6G130000-461 BLK
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:10:46
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H87HNB.070
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 22
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1072716.080 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 537805.623 | ug/L | 533211.627 |
| 9 | Be | -0.005071 | 100.833 | 4.000 | ug/L | 5.667 |
| 27 | Al | -0.319539 | 25.262 | 20584.521 | ug/L | 21656.102 |
| 44 | Ca | 47.425349 | 2.429 | 26826.394 | ug/L | 13691.705 |
| 51 | V | 1.848297 | 4.311 | -6333.356 | ug/L | -25351.494 |
| 52 | Cr | -1.147116 | 3.584 | 20218.334 | ug/L | 30421.463 |
| 55 | Mn | 0.885959 | 0.679 | 14737.735 | ug/L | 1962.553 |
| 54 | Fe | 40.841114 | 2.710 | 135784.616 | ug/L | 103219.336 |
| 57 | Fe | 0.998089 | 26.818 | 18702.737 | ug/L | 17911.054 |
| 59 | Co | 0.070402 | 2.695 | 1079.733 | ug/L | 249.337 |
| 60 | Ni | 0.198275 | 7.001 | 611.895 | ug/L | 115.754 |
| 65 | Cu | 0.239120 | 10.180 | 723.832 | ug/L | 154.638 |
| 68 | Zn | 2.787739 | 93.796 | 4174.167 | ug/L | 1837.193 |
| 75 | As | 0.549460 | 50.367 | 16019.374 | ug/L | 14510.311 |
| 82 | Se | -0.018569 | 843.220 | 1427.754 | ug/L | 1393.483 |
| 97 | Mo | -0.381028 | 3.297 | 250.004 | ug/L | 862.377 |
| 72 | Ge-1 | | | 861579.085 | ug/L | 838809.520 |
| 107 | Ag | -0.021270 | 3.506 | 32.000 | ug/L | 204.002 |
| 111 | Cd | -0.010883 | 8.021 | 9.931 | ug/L | 28.514 |
| 121 | Sb | -0.036125 | 1.558 | 96.001 | ug/L | 292.338 |
| 135 | Ba | -0.002124 | 602.452 | 167.002 | ug/L | 164.668 |
| 115 | In-1 | | | 828287.112 | ug/L | 801078.607 |
| 205 | Tl | -0.086739 | 5.495 | 720.363 | ug/L | 2008.901 |
| 208 | Pb | 0.038733 | 6.256 | 1587.723 | ug/L | 747.679 |
| 169 | Tm-1 | | | 550904.684 | ug/L | 528723.356 |
| 50 | Cr | 2.796054 | 4.744 | -80.165 | ug/L | -668.039 |
| 53 | Cr | -65.856763 | 3.550 | 37810.757 | ug/L | 111230.953 |
| 61 | Ni | 0.834439 | 151.959 | 1650.769 | ug/L | 1574.397 |
| 63 | Cu | 0.233847 | 3.584 | 539.380 | ug/L | 105.668 |
| 67 | Zn | -10.218787 | 45.311 | 1085.199 | ug/L | 1758.829 |
| 66 | Zn | 2.915558 | 83.788 | 1953.719 | ug/L | 718.083 |
| 76 | Se | -22.240434 | 136.768 | -111381.947 | ug/L | -107838.220 |
| 77 | Se | -51.876103 | 2.091 | 3152.065 | ug/L | 10703.915 |
| 78 | Se | 0.075513 | 518.082 | 16556.288 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2468.926838 | 4.213 | 13428.564 | ug/L | 35602.642 |
| 72 | Ge | | | 861579.085 | ug/L | 838809.520 |
| 108 | Cd | -0.026703 | 51.238 | 1.902 | ug/L | 5.075 |
| 114 | Cd | -0.018402 | 11.571 | 25.472 | ug/L | 100.238 |
| 109 | Ag | -0.019896 | 6.043 | 9.333 | ug/L | 64.667 |
| 115 | In | | | 828287.112 | ug/L | 801078.607 |
| 208 | 207.977 | 0.040432 | 7.124 | 836.373 | ug/L | 390.675 |
| 207 | Pb | 0.040505 | 10.343 | 336.673 | ug/L | 151.668 |
| 206 | Pb | 0.034314 | 8.051 | 414.677 | ug/L | 205.336 |
| 169 | Tm | | | 550904.684 | ug/L | 528723.356 |
| 106 | Pd | -0.006606 | 173.205 | 6.000 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.862 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 102.715 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 103.396 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 104.195 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 102.715 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 103.396 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 104.195 |
| Pd | 106 | |

**Sample ID: H87HNC**
Sample Description: G6G130000-461 LCS
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:15:07
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H87HNC.071
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 105
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1045735.175 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 548995.568 | ug/L | 533211.627 |
| 9 | Be | 179.196374 | 0.137 | 61906.558 | ug/L | 5.667 |
| 27 | Al | 985.243617 | 0.525 | 4964063.326 | ug/L | 21656.102 |
| 44 | Ca | 1066.484441 | 1.072 | 291145.097 | ug/L | 13691.705 |
| 51 | V | 188.158114 | 1.264 | 1914204.795 | ug/L | -25351.494 |
| 52 | Cr | 188.860704 | 0.800 | 1785565.034 | ug/L | 30421.463 |
| 55 | Mn | 197.260228 | 0.607 | 2740663.795 | ug/L | 1962.553 |
| 54 | Fe | 1096.775191 | 1.439 | 875330.708 | ug/L | 103219.336 |
| 57 | Fe | 1038.602559 | 0.876 | 325456.510 | ug/L | 17911.054 |
| 59 | Co | 190.410347 | 0.502 | 2153854.095 | ug/L | 249.337 |
| 60 | Ni | 196.782522 | 0.687 | 473201.236 | ug/L | 115.754 |
| 65 | Cu | 197.616404 | 0.668 | 451867.736 | ug/L | 154.638 |
| 68 | Zn | 188.995205 | 0.580 | 152270.868 | ug/L | 1837.193 |
| 75 | As | 185.010948 | 0.483 | 378080.252 | ug/L | 14510.311 |
| 82 | Se | 185.267772 | 0.346 | 35512.774 | ug/L | 1393.483 |
| 97 | Mo | 204.633942 | 0.288 | 331020.930 | ug/L | 862.377 |
| 72 | Ge-1 | | | 833066.313 | ug/L | 838809.520 |
| 107 | Ag | 48.188354 | 1.506 | 401231.497 | ug/L | 204.002 |
| 111 | Cd | 186.284545 | 1.059 | 331206.368 | ug/L | 28.514 |
| 121 | Sb | 46.014359 | 0.328 | 260221.611 | ug/L | 292.338 |
| 135 | Ba | 198.559273 | 0.917 | 304107.817 | ug/L | 164.668 |
| 115 | In-1 | | | 819459.498 | ug/L | 801078.607 |
| 205 | Tl | 50.733486 | 1.374 | 802669.604 | ug/L | 2008.901 |
| 208 | Pb | 187.012651 | 0.657 | 3896715.719 | ug/L | 747.679 |
| 169 | Tm-1 | | | 549497.260 | ug/L | 528723.356 |
| 50 | Cr | 169.911071 | 2.180 | 34951.125 | ug/L | -668.039 |
| 53 | Cr | 131.198694 | 2.679 | 257712.387 | ug/L | 111230.953 |
| 61 | Ni | 198.976832 | 0.935 | 9366.686 | ug/L | 1574.397 |
| 63 | Cu | 194.830449 | 0.878 | 347175.623 | ug/L | 105.668 |
| 67 | Zn | 177.469772 | 1.989 | 13841.932 | ug/L | 1758.829 |
| 66 | Zn | 186.544208 | 0.273 | 76180.731 | ug/L | 718.083 |
| 76 | Se | 266.004040 | 5.778 | -100019.225 | ug/L | -107838.220 |
| 77 | Se | 126.730867 | 0.310 | 29153.960 | ug/L | 10703.915 |
| 78 | Se | 183.330011 | 0.559 | 99877.473 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2418.662768 | 4.797 | 13448.266 | ug/L | 35602.642 |
| 72 | Ge | | | 833066.313 | ug/L | 838809.520 |
| 108 | Cd | 180.765181 | 2.382 | 22435.506 | ug/L | 5.075 |
| 114 | Cd | 185.740107 | 1.218 | 781152.151 | ug/L | 100.238 |
| 109 | Ag | 47.947779 | 2.080 | 137231.126 | ug/L | 64.667 |
| 115 | In | | | 819459.498 | ug/L | 801078.607 |
| 208 | 207.977 | 187.787841 | 0.677 | 1990095.813 | ug/L | 390.675 |
| 207 | Pb | 194.951742 | 0.332 | 858060.257 | ug/L | 151.668 |
| 206 | Pb | 179.619674 | 0.895 | 1048559.648 | ug/L | 205.336 |
| 169 | Tm | | | 549497.260 | ug/L | 528723.356 |
| 106 | Pd | 193.860863 | 0.739 | 29354.492 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 102.960 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.315 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.295 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.929 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.315 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.295 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.929 |
| Pd | 106 | |

**Sample ID: H87HNL**
Sample Description: G6G130000-461 LCSD
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:19:25
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H87HNL.072
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 106
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1023531.686 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 537152.620 | ug/L | 533211.627 |
| 9 | Be | 177.664900 | 0.387 | 60054.409 | ug/L | 5.667 |
| 27 | Al | 972.257558 | 0.898 | 4805576.707 | ug/L | 21656.102 |
| 44 | Ca | 1060.122833 | 0.362 | 283961.820 | ug/L | 13691.705 |
| 51 | V | 188.443880 | 1.065 | 1880612.059 | ug/L | -25351.494 |
| 52 | Cr | 186.602626 | 1.148 | 1730939.195 | ug/L | 30421.463 |
| 55 | Mn | 196.574213 | 0.053 | 2679100.123 | ug/L | 1962.553 |
| 54 | Fe | 1080.118318 | 0.549 | 847106.530 | ug/L | 103219.336 |
| 57 | Fe | 1029.997589 | 0.494 | 316757.851 | ug/L | 17911.054 |
| 59 | Co | 190.200005 | 0.430 | 2110436.188 | ug/L | 249.337 |
| 60 | Ni | 196.083074 | 0.756 | 462505.329 | ug/L | 115.754 |
| 65 | Cu | 195.463259 | 0.588 | 438397.324 | ug/L | 154.638 |
| 68 | Zn | 189.016216 | 0.522 | 149384.410 | ug/L | 1837.193 |
| 75 | As | 183.696393 | 0.667 | 368324.943 | ug/L | 14510.311 |
| 82 | Se | 185.059611 | 0.826 | 34797.742 | ug/L | 1393.483 |
| 97 | Mo | 203.445985 | 0.261 | 322820.917 | ug/L | 862.377 |
| 72 | Ge-1 | | | 817166.918 | ug/L | 838809.520 |
| 107 | Ag | 47.526652 | 0.983 | 388873.810 | ug/L | 204.002 |
| 111 | Cd | 185.400447 | 0.785 | 323934.711 | ug/L | 28.514 |
| 121 | Sb | 46.152768 | 0.578 | 256476.589 | ug/L | 292.338 |
| 135 | Ba | 198.306008 | 1.547 | 298458.244 | ug/L | 164.668 |
| 115 | In-1 | | | 805261.935 | ug/L | 801078.607 |
| 205 | Tl | 49.687213 | 0.302 | 784611.191 | ug/L | 2008.901 |
| 208 | Pb | 187.097339 | 0.496 | 3890606.854 | ug/L | 747.679 |
| 169 | Tm-1 | | | 548382.561 | ug/L | 528723.356 |
| 50 | Cr | 170.789783 | 1.575 | 34464.654 | ug/L | -668.039 |
| 53 | Cr | 129.917594 | 3.118 | 251363.393 | ug/L | 111230.953 |
| 61 | Ni | 193.762412 | 3.205 | 8986.910 | ug/L | 1574.397 |
| 63 | Cu | 192.174606 | 0.451 | 335898.183 | ug/L | 105.668 |
| 67 | Zn | 176.785871 | 2.782 | 13531.243 | ug/L | 1758.829 |
| 66 | Zn | 184.747838 | 0.572 | 74014.590 | ug/L | 718.083 |
| 76 | Se | 263.848645 | 15.087 | -98164.688 | ug/L | -107838.220 |
| 77 | Se | 125.527383 | 0.206 | 28425.283 | ug/L | 10703.915 |
| 78 | Se | 181.798286 | 0.187 | 97284.824 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2431.328105 | 5.216 | 13072.865 | ug/L | 35602.642 |
| 72 | Ge | | | 817166.918 | ug/L | 838809.520 |
| 108 | Cd | 180.254640 | 0.911 | 21986.357 | ug/L | 5.075 |
| 114 | Cd | 184.345705 | 0.750 | 761887.626 | ug/L | 100.238 |
| 109 | Ag | 48.145934 | 0.834 | 135424.280 | ug/L | 64.667 |
| 115 | In | | | 805261.935 | ug/L | 801078.607 |
| 208 | 207.977 | 188.377378 | 0.431 | 1992351.090 | ug/L | 390.675 |
| 207 | Pb | 195.087955 | 1.207 | 856894.705 | ug/L | 151.668 |
| 206 | Pb | 178.749035 | 1.032 | 1041361.059 | ug/L | 205.336 |
| 169 | Tm | | | 548382.561 | ug/L | 528723.356 |
| 106 | Pd | 189.475603 | 1.312 | 28690.632 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.739 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.420 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.522 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.718 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.420 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.522 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.718 |
| Pd | 106 | |

**STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020** **QUANTITATIVE ANALYSIS REPORT**
**SOP No. SAC-MT-0001**
**BJones**

**Sample ID: H8QTL**
Sample Description: G6G060239-1
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:23:42
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTL.073
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 64
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1029292.716 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 530681.973 | ug/L | 533211.627 |
| 9 | Be | 0.003105 | 393.001 | 6.667 | ug/L | 5.667 |
| 27 | Al | 360.393452 | 1.008 | 1813726.294 | ug/L | 21656.102 |
| 44 | Ca | 844.422985 | 0.840 | 231342.389 | ug/L | 13691.705 |
| 51 | V | 2.919705 | 3.855 | 4874.891 | ug/L | -25351.494 |
| 52 | Cr | 0.690992 | 5.746 | 36320.228 | ug/L | 30421.463 |
| 55 | Mn | 19.227139 | 0.535 | 266588.179 | ug/L | 1962.553 |
| 54 | Fe | 476.229550 | 0.926 | 434302.859 | ug/L | 103219.336 |
| 57 | Fe | 447.546215 | 0.899 | 149076.764 | ug/L | 17911.054 |
| 59 | Co | 0.759816 | 1.407 | 8765.389 | ug/L | 249.337 |
| 60 | Ni | 1.842679 | 1.403 | 4505.967 | ug/L | 115.754 |
| 65 | Cu | 28.058071 | 0.706 | 63733.079 | ug/L | 154.638 |
| 68 | Zn | 7.068400 | 1.125 | 7387.451 | ug/L | 1837.193 |
| 75 | As | 0.680558 | 22.201 | 15613.114 | ug/L | 14510.311 |
| 82 | Se | 0.350970 | 67.824 | 1436.268 | ug/L | 1393.483 |
| 97 | Mo | 0.657746 | 16.200 | 1901.208 | ug/L | 862.377 |
| 72 | Ge-1 | | | 825907.636 | ug/L | 838809.520 |
| 107 | Ag | 0.004014 | 49.376 | 240.670 | ug/L | 204.002 |
| 111 | Cd | 0.061823 | 12.056 | 138.397 | ug/L | 28.514 |
| 121 | Sb | 0.345335 | 17.050 | 2235.623 | ug/L | 292.338 |
| 135 | Ba | 6.404135 | 2.000 | 9915.616 | ug/L | 164.668 |
| 115 | In-1 | | | 814930.100 | ug/L | 801078.607 |
| 205 | Tl | -0.093932 | 2.122 | 601.687 | ug/L | 2008.901 |
| 208 | Pb | 1.438592 | 1.695 | 30558.490 | ug/L | 747.679 |
| 169 | Tm-1 | | | 546220.355 | ug/L | 528723.356 |
| 50 | Cr | 7.030594 | 5.094 | 803.093 | ug/L | -668.039 |
| 53 | Cr | -65.906367 | 4.272 | 36197.077 | ug/L | 111230.953 |
| 61 | Ni | 1.984283 | 75.845 | 1627.424 | ug/L | 1574.397 |
| 63 | Cu | 28.110786 | 1.043 | 49747.524 | ug/L | 105.668 |
| 67 | Zn | -6.041298 | 27.574 | 1323.615 | ug/L | 1758.829 |
| 66 | Zn | 7.312409 | 1.969 | 3639.785 | ug/L | 718.083 |
| 76 | Se | -65.078279 | 85.573 | -107901.848 | ug/L | -107838.220 |
| 77 | Se | -52.229208 | 2.333 | 2970.687 | ug/L | 10703.915 |
| 78 | Se | -0.205024 | 93.987 | 15744.498 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1872.296898 | 5.073 | 18234.976 | ug/L | 35602.642 |
| 72 | Ge | | | 825907.636 | ug/L | 838809.520 |
| 108 | Cd | 0.182327 | 19.810 | 27.673 | ug/L | 5.075 |
| 114 | Cd | 0.040717 | 11.765 | 272.287 | ug/L | 100.238 |
| 109 | Ag | 0.003481 | 80.962 | 75.668 | ug/L | 64.667 |
| 115 | In | | | 814930.100 | ug/L | 801078.607 |
| 208 | 207.977 | 1.492084 | 0.760 | 16117.832 | ug/L | 390.675 |
| 207 | Pb | 1.488552 | 2.451 | 6666.539 | ug/L | 151.668 |
| 206 | Pb | 1.303819 | 3.381 | 7774.119 | ug/L | 205.336 |
| 169 | Tm | | | 546220.355 | ug/L | 528723.356 |
| 106 | Pd | 0.808104 | 3.686 | 129.334 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.526 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.462 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 101.729 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.309 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.462 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 101.729 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.309 |
| Pd | 106 | |

**Sample ID: H8QTLP5**
Sample Description: G6G060239-1 5X
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:27:57
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTLP5.074
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 65
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1025000.756 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 532130.755 | ug/L | 533211.627 |
| 9 | Be | -0.011921 | 28.716 | 1.667 | ug/L | 5.667 |
| 27 | Al | 73.835599 | 0.219 | 390115.842 | ug/L | 21656.102 |
| 44 | Ca | 162.748520 | 1.590 | 55690.667 | ug/L | 13691.705 |
| 51 | V | 0.720359 | 14.930 | -17665.555 | ug/L | -25351.494 |
| 52 | Cr | -0.108748 | 45.306 | 29065.531 | ug/L | 30421.463 |
| 55 | Mn | 3.803779 | 0.105 | 54508.593 | ug/L | 1962.553 |
| 54 | Fe | 90.090486 | 1.082 | 165224.639 | ug/L | 103219.336 |
| 57 | Fe | 83.811978 | 0.074 | 42420.537 | ug/L | 17911.054 |
| 59 | Co | 0.137480 | 2.927 | 1794.184 | ug/L | 249.337 |
| 60 | Ni | 0.349784 | 2.594 | 951.436 | ug/L | 115.754 |
| 65 | Cu | 5.495768 | 1.734 | 12657.018 | ug/L | 154.638 |
| 68 | Zn | 2.331375 | 15.270 | 3664.771 | ug/L | 1837.193 |
| 75 | As | 0.061339 | 311.317 | 14462.889 | ug/L | 14510.311 |
| 82 | Se | -0.161125 | 189.080 | 1347.866 | ug/L | 1393.483 |
| 97 | Mo | -0.250608 | 5.492 | 450.012 | ug/L | 862.377 |
| 72 | Ge-1 | | | 829221.565 | ug/L | 838809.520 |
| 107 | Ag | -0.009961 | 14.608 | 122.001 | ug/L | 204.002 |
| 111 | Cd | 0.005799 | 31.736 | 38.276 | ug/L | 28.514 |
| 121 | Sb | 0.065037 | 13.843 | 646.024 | ug/L | 292.338 |
| 135 | Ba | 1.318112 | 1.087 | 2119.923 | ug/L | 164.668 |
| 115 | In-1 | | | 794602.033 | ug/L | 801078.607 |
| 205 | Tl | -0.116130 | 1.336 | 249.004 | ug/L | 2008.901 |
| 208 | Pb | 0.270050 | 0.791 | 6250.208 | ug/L | 747.679 |
| 169 | Tm-1 | | | 536368.894 | ug/L | 528723.356 |
| 50 | Cr | 1.720709 | 5.594 | -301.360 | ug/L | -668.039 |
| 53 | Cr | -21.924165 | 10.590 | 85458.439 | ug/L | 111230.953 |
| 61 | Ni | -1.525546 | 59.100 | 1496.692 | ug/L | 1574.397 |
| 63 | Cu | 5.620227 | 0.634 | 10069.531 | ug/L | 105.668 |
| 67 | Zn | -1.770518 | 38.060 | 1618.419 | ug/L | 1758.829 |
| 66 | Zn | 2.377361 | 12.146 | 1667.780 | ug/L | 718.083 |
| 76 | Se | -34.832744 | 116.445 | -107523.889 | ug/L | -107838.220 |
| 77 | Se | -17.294678 | 3.484 | 8064.934 | ug/L | 10703.915 |
| 78 | Se | -0.806710 | 35.347 | 15532.739 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -294.140237 | 30.758 | 32538.972 | ug/L | 35602.642 |
| 72 | Ge | | | 829221.565 | ug/L | 838809.520 |
| 108 | Cd | 0.000581 | 10959.100 | 5.125 | ug/L | 5.075 |
| 114 | Cd | -0.007010 | 29.366 | 70.824 | ug/L | 100.238 |
| 109 | Ag | -0.007137 | 16.589 | 44.334 | ug/L | 64.667 |
| 115 | In | | | 794602.033 | ug/L | 801078.607 |
| 208 | 207.977 | 0.281370 | 2.225 | 3306.625 | ug/L | 390.675 |
| 207 | Pb | 0.272615 | 3.408 | 1324.767 | ug/L | 151.668 |
| 206 | Pb | 0.247566 | 1.831 | 1618.816 | ug/L | 205.336 |
| 169 | Tm | | | 536368.894 | ug/L | 528723.356 |
| 106 | Pd | 0.121105 | 19.156 | 25.333 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.797 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.857 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.192 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 101.446 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.857 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.192 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 101.446 |
| Pd | 106 | |

**Sample ID: H8QTLZ**
Sample Description: G6G060239-1 PS
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:32:13
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTLZ.075
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 66
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1016887.871 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 540734.887 | ug/L | 533211.627 |
| 9 | Be | 178.004424 | 0.107 | 60569.584 | ug/L | 5.667 |
| 27 | Al | 1306.833134 | 1.745 | 6420276.623 | ug/L | 21656.102 |
| 44 | Ca | 1846.169789 | 0.990 | 482250.469 | ug/L | 13691.705 |
| 51 | V | 187.602556 | 1.111 | 1862960.571 | ug/L | -25351.494 |
| 52 | Cr | 187.330250 | 0.561 | 1729135.825 | ug/L | 30421.463 |
| 55 | Mn | 211.063423 | 0.117 | 2862476.850 | ug/L | 1962.553 |
| 54 | Fe | 1468.051555 | 0.319 | 1109825.378 | ug/L | 103219.336 |
| 57 | Fe | 1439.857134 | 1.150 | 433727.009 | ug/L | 17911.054 |
| 59 | Co | 186.534409 | 0.368 | 2059692.722 | ug/L | 249.337 |
| 60 | Ni | 195.263300 | 0.571 | 458332.169 | ug/L | 115.754 |
| 65 | Cu | 221.259447 | 0.476 | 493824.380 | ug/L | 154.638 |
| 68 | Zn | 197.638365 | 0.938 | 155354.347 | ug/L | 1837.193 |
| 75 | As | 185.882199 | 0.612 | 370727.673 | ug/L | 14510.311 |
| 82 | Se | 186.981629 | 0.180 | 34974.999 | ug/L | 1393.483 |
| 97 | Mo | 200.285303 | 0.710 | 316267.599 | ug/L | 862.377 |
| 72 | Ge-1 | | | 813206.491 | ug/L | 838809.520 |
| 107 | Ag | 48.202179 | 1.351 | 387454.325 | ug/L | 204.002 |
| 111 | Cd | 186.859043 | 1.635 | 320719.291 | ug/L | 28.514 |
| 121 | Sb | 46.271052 | 2.345 | 252579.636 | ug/L | 292.338 |
| 135 | Ba | 203.373016 | 1.542 | 300683.736 | ug/L | 164.668 |
| 115 | In-1 | | | 791167.640 | ug/L | 801078.607 |
| 205 | Tl | 50.159433 | 1.026 | 776880.215 | ug/L | 2008.901 |
| 208 | Pb | 186.454922 | 0.822 | 3803341.641 | ug/L | 747.679 |
| 169 | Tm-1 | | | 537897.198 | ug/L | 528723.356 |
| 50 | Cr | 173.265163 | 2.972 | 34804.503 | ug/L | -668.039 |
| 53 | Cr | 131.737797 | 1.812 | 252151.212 | ug/L | 111230.953 |
| 61 | Ni | 192.085996 | 0.420 | 8879.264 | ug/L | 1574.397 |
| 63 | Cu | 216.336585 | 0.659 | 376284.183 | ug/L | 105.668 |
| 67 | Zn | 182.517438 | 0.646 | 13846.945 | ug/L | 1758.829 |
| 66 | Zn | 192.655583 | 0.589 | 76777.389 | ug/L | 718.083 |
| 76 | Se | 270.849186 | 20.552 | -97513.089 | ug/L | -107838.220 |
| 77 | Se | 128.642175 | 0.738 | 28731.315 | ug/L | 10703.915 |
| 78 | Se | 184.725648 | 1.131 | 98117.606 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1909.479266 | 5.269 | 17629.449 | ug/L | 35602.642 |
| 72 | Ge | | | 813206.491 | ug/L | 838809.520 |
| 108 | Cd | 180.490993 | 0.344 | 21630.891 | ug/L | 5.075 |
| 114 | Cd | 185.561806 | 1.805 | 753370.111 | ug/L | 100.238 |
| 109 | Ag | 47.750361 | 1.113 | 131946.046 | ug/L | 64.667 |
| 115 | In | | | 791167.640 | ug/L | 801078.607 |
| 208 | 207.977 | 186.961401 | 1.579 | 1939737.491 | ug/L | 390.675 |
| 207 | Pb | 195.633193 | 1.184 | 842859.750 | ug/L | 151.668 |
| 206 | Pb | 178.615464 | 1.010 | 1020744.400 | ug/L | 205.336 |
| 169 | Tm | | | 537897.198 | ug/L | 528723.356 |
| 106 | Pd | 188.991799 | 1.177 | 28617.392 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.411 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 96.948 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 98.763 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 101.735 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 96.948 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 98.763 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 101.735 |
| Pd | 106 | |

**Sample ID: H8QTN**
Sample Description: G6G060239-2
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:36:31
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTN.076
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 67
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1006204.324 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 530469.928 | ug/L | 533211.627 |
| 9 | Be | 0.012077 | 38.359 | 9.667 | ug/L | 5.667 |
| 27 | Al | 509.021540 | 0.430 | 2525478.234 | ug/L | 21656.102 |
| 44 | Ca | 861.127271 | 0.705 | 233115.870 | ug/L | 13691.705 |
| 51 | V | 3.032097 | 1.477 | 5959.203 | ug/L | -25351.494 |
| 52 | Cr | 0.656208 | 6.395 | 35611.656 | ug/L | 30421.463 |
| 55 | Mn | 28.669952 | 0.148 | 392301.655 | ug/L | 1962.553 |
| 54 | Fe | 554.730710 | 0.978 | 483872.733 | ug/L | 103219.336 |
| 57 | Fe | 518.079831 | 0.905 | 167962.991 | ug/L | 17911.054 |
| 59 | Co | 0.545826 | 0.863 | 6297.265 | ug/L | 249.337 |
| 60 | Ni | 1.509115 | 1.767 | 3670.638 | ug/L | 115.754 |
| 65 | Cu | 21.712906 | 0.172 | 48824.124 | ug/L | 154.638 |
| 68 | Zn | 7.376213 | 4.263 | 7548.591 | ug/L | 1837.193 |
| 75 | As | 0.536537 | 12.662 | 15167.552 | ug/L | 14510.311 |
| 82 | Se | 0.298469 | 15.339 | 1411.177 | ug/L | 1393.483 |
| 97 | Mo | 0.666978 | 16.712 | 1894.873 | ug/L | 862.377 |
| 72 | Ge-1 | | | 817012.401 | ug/L | 838809.520 |
| 107 | Ag | 0.005564 | 61.834 | 247.670 | ug/L | 204.002 |
| 111 | Cd | 0.071549 | 36.760 | 152.067 | ug/L | 28.514 |
| 121 | Sb | 0.319487 | 10.828 | 2044.574 | ug/L | 292.338 |
| 135 | Ba | 8.311647 | 0.903 | 12526.628 | ug/L | 164.668 |
| 115 | In-1 | | | 796227.379 | ug/L | 801078.607 |
| 205 | Tl | -0.100410 | 0.563 | 495.681 | ug/L | 2008.901 |
| 208 | Pb | 1.363354 | 0.857 | 28739.911 | ug/L | 747.679 |
| 169 | Tm-1 | | | 541244.520 | ug/L | 528723.356 |
| 50 | Cr | 9.082642 | 12.824 | 1217.011 | ug/L | -668.039 |
| 53 | Cr | -66.050945 | 4.094 | 35643.089 | ug/L | 111230.953 |
| 61 | Ni | 0.453130 | 414.762 | 1550.718 | ug/L | 1574.397 |
| 63 | Cu | 21.986091 | 0.190 | 38513.208 | ug/L | 105.668 |
| 67 | Zn | -6.108836 | 21.919 | 1304.606 | ug/L | 1758.829 |
| 66 | Zn | 7.258439 | 1.311 | 3579.382 | ug/L | 718.083 |
| 76 | Se | -37.808189 | 119.068 | -106025.912 | ug/L | -107838.220 |
| 77 | Se | -52.993018 | 1.610 | 2828.987 | ug/L | 10703.915 |
| 78 | Se | -0.659968 | 20.612 | 15370.405 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1922.252889 | 4.393 | 17593.385 | ug/L | 35602.642 |
| 72 | Ge | | | 817012.401 | ug/L | 838809.520 |
| 108 | Cd | 0.223622 | 38.180 | 31.983 | ug/L | 5.075 |
| 114 | Cd | 0.044969 | 15.048 | 283.276 | ug/L | 100.238 |
| 109 | Ag | 0.005543 | 28.996 | 79.668 | ug/L | 64.667 |
| 115 | In | | | 796227.379 | ug/L | 801078.607 |
| 208 | 207.977 | 1.396161 | 1.732 | 14969.127 | ug/L | 390.675 |
| 207 | Pb | 1.429614 | 1.822 | 6352.640 | ug/L | 151.668 |
| 206 | Pb | 1.253842 | 1.894 | 7418.144 | ug/L | 205.336 |
| 169 | Tm | | | 541244.520 | ug/L | 528723.356 |
| 106 | Pd | 0.946826 | 10.838 | 150.335 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.486 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.401 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.394 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.368 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.401 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.394 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.368 |
| Pd | 106 | |

**Sample ID: H8QTQ**
Sample Description: G6G060239-3
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:40:48
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTQ.077
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 68
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1016989.680 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 535582.265 | ug/L | 533211.627 |
| 9 | Be | 0.002848 | 207.455 | 6.667 | ug/L | 5.667 |
| 27 | Al | 325.929058 | 1.372 | 1633423.023 | ug/L | 21656.102 |
| 44 | Ca | 890.432261 | 1.624 | 241855.988 | ug/L | 13691.705 |
| 51 | V | 2.856718 | 5.234 | 4209.758 | ug/L | -25351.494 |
| 52 | Cr | 0.600144 | 9.943 | 35285.338 | ug/L | 30421.463 |
| 55 | Mn | 17.180876 | 1.202 | 237097.715 | ug/L | 1962.553 |
| 54 | Fe | 425.181565 | 2.528 | 396407.757 | ug/L | 103219.336 |
| 57 | Fe | 391.816630 | 2.239 | 131963.902 | ug/L | 17911.054 |
| 59 | Co | 0.440150 | 0.765 | 5152.517 | ug/L | 249.337 |
| 60 | Ni | 1.491079 | 1.556 | 3648.107 | ug/L | 115.754 |
| 65 | Cu | 22.756661 | 1.616 | 51431.103 | ug/L | 154.638 |
| 68 | Zn | 8.058075 | 3.936 | 8123.438 | ug/L | 1837.193 |
| 75 | As | 0.647900 | 25.891 | 15463.302 | ug/L | 14510.311 |
| 82 | Se | 0.404097 | 103.095 | 1437.614 | ug/L | 1393.483 |
| 97 | Mo | 0.289337 | 18.146 | 1304.097 | ug/L | 862.377 |
| 72 | Ge-1 | | | 821389.396 | ug/L | 838809.520 |
| 107 | Ag | 0.000115 | 3800.275 | 205.336 | ug/L | 204.002 |
| 111 | Cd | 0.139743 | 4.393 | 271.683 | ug/L | 28.514 |
| 121 | Sb | 0.164862 | 9.351 | 1203.750 | ug/L | 292.338 |
| 135 | Ba | 8.405651 | 1.980 | 12757.963 | ug/L | 164.668 |
| 115 | In-1 | | | 802024.469 | ug/L | 801078.607 |
| 205 | Tl | -0.107892 | 2.563 | 379.675 | ug/L | 2008.901 |
| 208 | Pb | 1.494931 | 2.393 | 31516.230 | ug/L | 747.679 |
| 169 | Tm-1 | | | 542722.651 | ug/L | 528723.356 |
| 50 | Cr | 6.957515 | 11.251 | 782.676 | ug/L | -668.039 |
| 53 | Cr | -65.603731 | 4.342 | 36329.624 | ug/L | 111230.953 |
| 61 | Ni | 1.009113 | 192.641 | 1580.400 | ug/L | 1574.397 |
| 63 | Cu | 22.798878 | 1.138 | 40144.219 | ug/L | 105.668 |
| 67 | Zn | -5.914281 | 20.704 | 1324.948 | ug/L | 1758.829 |
| 66 | Zn | 7.962401 | 4.946 | 3879.410 | ug/L | 718.083 |
| 76 | Se | 5.611059 | 238.470 | -105451.920 | ug/L | -107838.220 |
| 77 | Se | -52.749281 | 2.059 | 2879.332 | ug/L | 10703.915 |
| 78 | Se | -0.568260 | 59.462 | 15493.122 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1829.175975 | 6.037 | 18517.060 | ug/L | 35602.642 |
| 72 | Ge | | | 821389.396 | ug/L | 838809.520 |
| 108 | Cd | 0.298954 | 26.614 | 41.340 | ug/L | 5.075 |
| 114 | Cd | 0.115548 | 4.852 | 576.050 | ug/L | 100.238 |
| 109 | Ag | -0.003612 | 81.423 | 54.667 | ug/L | 64.667 |
| 115 | In | | | 802024.469 | ug/L | 801078.607 |
| 208 | 207.977 | 1.526801 | 1.682 | 16375.312 | ug/L | 390.675 |
| 207 | Pb | 1.577013 | 3.816 | 7005.470 | ug/L | 151.668 |
| 206 | Pb | 1.375190 | 2.749 | 8135.448 | ug/L | 205.336 |
| 169 | Tm | | | 542722.651 | ug/L | 528723.356 |
| 106 | Pd | 0.962240 | 7.341 | 152.668 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.445 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.923 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.118 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.648 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.923 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.118 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.648 |
| Pd | 106 | |

**Sample ID: H8QTT**
Sample Description: G6G060239-4
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:45:05
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTT.078
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 69
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1024452.492 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 534651.665 | ug/L | 533211.627 |
| 9 | Be | 0.014828 | 42.412 | 10.667 | ug/L | 5.667 |
| 27 | Al | 456.916629 | 0.797 | 2285420.366 | ug/L | 21656.102 |
| 44 | Ca | 1074.546538 | 0.953 | 289648.377 | ug/L | 13691.705 |
| 51 | V | 3.347751 | 2.480 | 9214.814 | ug/L | -25351.494 |
| 52 | Cr | 1.179194 | 6.085 | 40667.625 | ug/L | 30421.463 |
| 55 | Mn | 24.913002 | 1.039 | 343584.974 | ug/L | 1962.553 |
| 54 | Fe | 626.204550 | 1.143 | 537092.821 | ug/L | 103219.336 |
| 57 | Fe | 589.309818 | 0.300 | 190017.925 | ug/L | 17911.054 |
| 59 | Co | 0.626811 | 1.926 | 7247.000 | ug/L | 249.337 |
| 60 | Ni | 1.517454 | 1.921 | 3717.148 | ug/L | 115.754 |
| 65 | Cu | 17.108069 | 0.278 | 38778.361 | ug/L | 154.638 |
| 68 | Zn | 11.434837 | 2.137 | 10794.323 | ug/L | 1837.193 |
| 75 | As | 0.831197 | 17.538 | 15848.788 | ug/L | 14510.311 |
| 82 | Se | 0.352936 | 107.938 | 1431.035 | ug/L | 1393.483 |
| 97 | Mo | -0.011516 | 132.287 | 827.706 | ug/L | 862.377 |
| 72 | Ge-1 | | | 822896.897 | ug/L | 838809.520 |
| 107 | Ag | -0.003884 | 17.083 | 173.002 | ug/L | 204.002 |
| 111 | Cd | 0.125867 | 9.659 | 248.093 | ug/L | 28.514 |
| 121 | Sb | 0.192470 | 1.916 | 1359.772 | ug/L | 292.338 |
| 135 | Ba | 11.069862 | 0.419 | 16786.086 | ug/L | 164.668 |
| 115 | In-1 | | | 803767.596 | ug/L | 801078.607 |
| 205 | Tl | -0.105288 | 0.435 | 424.344 | ug/L | 2008.901 |
| 208 | Pb | 1.581633 | 0.735 | 33580.110 | ug/L | 747.679 |
| 169 | Tm-1 | | | 547092.009 | ug/L | 528723.356 |
| 50 | Cr | 8.481792 | 3.904 | 1101.025 | ug/L | -668.039 |
| 53 | Cr | -64.444217 | 4.258 | 37682.628 | ug/L | 111230.953 |
| 61 | Ni | 0.632432 | 272.132 | 1569.061 | ug/L | 1574.397 |
| 63 | Cu | 17.267164 | 1.172 | 30485.311 | ug/L | 105.668 |
| 67 | Zn | -3.297480 | 31.842 | 1503.362 | ug/L | 1758.829 |
| 66 | Zn | 11.403876 | 3.514 | 5261.093 | ug/L | 718.083 |
| 76 | Se | -57.862490 | 19.643 | -107315.699 | ug/L | -107838.220 |
| 77 | Se | -52.191695 | 2.203 | 2965.019 | ug/L | 10703.915 |
| 78 | Se | -0.629084 | 38.488 | 15495.513 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1825.400122 | 5.644 | 18587.163 | ug/L | 35602.642 |
| 72 | Ge | | | 822896.897 | ug/L | 838809.520 |
| 108 | Cd | 0.310516 | 36.973 | 42.847 | ug/L | 5.075 |
| 114 | Cd | 0.095883 | 3.507 | 496.066 | ug/L | 100.238 |
| 109 | Ag | -0.002227 | 151.993 | 58.667 | ug/L | 64.667 |
| 115 | In | | | 803767.596 | ug/L | 801078.607 |
| 208 | 207.977 | 1.636675 | 1.500 | 17669.491 | ug/L | 390.675 |
| 207 | Pb | 1.623034 | 0.510 | 7268.017 | ug/L | 151.668 |
| 206 | Pb | 1.450499 | 2.024 | 8642.602 | ug/L | 205.336 |
| 169 | Tm | | | 547092.009 | ug/L | 528723.356 |
| 106 | Pd | 0.990865 | 10.089 | 157.001 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.270 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.103 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.336 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.474 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.103 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.336 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.474 |
| Pd | 106 | |

**Sample ID: H8QTV**
Sample Description: G6G060239-5
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 22:49:24
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTV.079
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 70
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1026848.147 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 534676.221 | ug/L | 533211.627 |
| 9 | Be | 0.000971 | 820.737 | 6.000 | ug/L | 5.667 |
| 27 | Al | 316.759943 | 1.012 | 1597526.694 | ug/L | 21656.102 |
| 44 | Ca | 763.310542 | 0.719 | 210528.383 | ug/L | 13691.705 |
| 51 | V | 2.893845 | 3.014 | 4613.120 | ug/L | -25351.494 |
| 52 | Cr | 0.600646 | 15.117 | 35503.565 | ug/L | 30421.463 |
| 55 | Mn | 16.990478 | 1.029 | 235917.828 | ug/L | 1962.553 |
| 54 | Fe | 443.614153 | 0.437 | 411742.662 | ug/L | 103219.336 |
| 57 | Fe | 410.663325 | 0.549 | 138316.792 | ug/L | 17911.054 |
| 59 | Co | 0.447237 | 1.090 | 5263.249 | ug/L | 249.337 |
| 60 | Ni | 1.064611 | 1.512 | 2652.683 | ug/L | 115.754 |
| 65 | Cu | 14.857939 | 0.315 | 33838.871 | ug/L | 154.638 |
| 68 | Zn | 6.009057 | 4.733 | 6555.457 | ug/L | 1837.193 |
| 75 | As | 0.561785 | 54.078 | 15387.640 | ug/L | 14510.311 |
| 82 | Se | 0.626165 | 27.862 | 1487.087 | ug/L | 1393.483 |
| 97 | Mo | -0.141005 | 13.091 | 624.022 | ug/L | 862.377 |
| 72 | Ge-1 | | | 826337.718 | ug/L | 838809.520 |
| 107 | Ag | -0.007690 | 11.498 | 142.001 | ug/L | 204.002 |
| 111 | Cd | 0.079135 | 1.827 | 166.737 | ug/L | 28.514 |
| 121 | Sb | 0.092512 | 8.206 | 806.704 | ug/L | 292.338 |
| 135 | Ba | 6.432793 | 1.343 | 9831.521 | ug/L | 164.668 |
| 115 | In-1 | | | 804437.390 | ug/L | 801078.607 |
| 205 | Tl | -0.107013 | 0.692 | 396.342 | ug/L | 2008.901 |
| 208 | Pb | 1.185113 | 1.129 | 25301.230 | ug/L | 747.679 |
| 169 | Tm-1 | | | 545959.808 | ug/L | 528723.356 |
| 50 | Cr | 6.624222 | 6.466 | 719.382 | ug/L | -668.039 |
| 53 | Cr | -64.137731 | 4.657 | 38176.141 | ug/L | 111230.953 |
| 61 | Ni | 0.945805 | 26.656 | 1587.737 | ug/L | 1574.397 |
| 63 | Cu | 15.008070 | 1.213 | 26623.279 | ug/L | 105.668 |
| 67 | Zn | -7.314306 | 21.690 | 1237.913 | ug/L | 1758.829 |
| 66 | Zn | 6.052071 | 7.251 | 3136.577 | ug/L | 718.083 |
| 76 | Se | -69.132134 | 17.861 | -108059.330 | ug/L | -107838.220 |
| 77 | Se | -51.037550 | 1.543 | 3145.063 | ug/L | 10703.915 |
| 78 | Se | -0.579464 | 93.520 | 15581.647 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1983.677439 | 4.664 | 17240.562 | ug/L | 35602.642 |
| 72 | Ge | | | 826337.718 | ug/L | 838809.520 |
| 108 | Cd | 0.136186 | 29.922 | 21.673 | ug/L | 5.075 |
| 114 | Cd | 0.062714 | 4.164 | 359.575 | ug/L | 100.238 |
| 109 | Ag | -0.007334 | 35.378 | 44.334 | ug/L | 64.667 |
| 115 | In | | | 804437.390 | ug/L | 801078.607 |
| 208 | 207.977 | 1.223404 | 1.512 | 13282.409 | ug/L | 390.675 |
| 207 | Pb | 1.225991 | 0.845 | 5516.739 | ug/L | 151.668 |
| 206 | Pb | 1.084780 | 1.665 | 6502.082 | ug/L | 205.336 |
| 169 | Tm | | | 545959.808 | ug/L | 528723.356 |
| 106 | Pd | 0.680392 | 16.590 | 110.001 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.275 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.513 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.419 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.260 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.513 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.419 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.260 |
| Pd | 106 | |

**Sample ID: CCV 11**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 22:53:43
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 11.080
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1031206.599 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 532072.410 | ug/L | 533211.627 |
| 9 | Be | 98.173455 | 0.222 | 32873.308 | ug/L | 5.667 |
| 27 | Al | 5063.776056 | 1.333 | 25089760.064 | ug/L | 21656.102 |
| 44 | Ca | 5050.748478 | 0.990 | 1310528.994 | ug/L | 13691.705 |
| 51 | V | 100.346218 | 0.417 | 995864.217 | ug/L | -25351.494 |
| 52 | Cr | 99.685196 | 0.914 | 944158.542 | ug/L | 30421.463 |
| 55 | Mn | 99.352659 | 0.497 | 1363207.263 | ug/L | 1962.553 |
| 54 | Fe | 5082.358028 | 1.249 | 3635163.104 | ug/L | 103219.336 |
| 57 | Fe | 5091.268550 | 1.072 | 1505932.930 | ug/L | 17911.054 |
| 59 | Co | 99.233721 | 0.458 | 1107853.051 | ug/L | 249.337 |
| 60 | Ni | 98.266207 | 0.263 | 233244.407 | ug/L | 115.754 |
| 65 | Cu | 97.988532 | 0.714 | 221178.055 | ug/L | 154.638 |
| 68 | Zn | 98.930883 | 1.063 | 79516.679 | ug/L | 1837.193 |
| 75 | As | 99.254839 | 0.763 | 206753.805 | ug/L | 14510.311 |
| 82 | Se | 99.817236 | 1.161 | 19511.368 | ug/L | 1393.483 |
| 97 | Mo | 201.114908 | 0.316 | 321063.720 | ug/L | 862.377 |
| 72 | Ge-1 | | | 822121.911 | ug/L | 838809.520 |
| 107 | Ag | 49.559827 | 1.201 | 388926.407 | ug/L | 204.002 |
| 111 | Cd | 99.856223 | 0.625 | 167361.384 | ug/L | 28.514 |
| 121 | Sb | 50.196195 | 0.960 | 267525.859 | ug/L | 292.338 |
| 135 | Ba | 100.293262 | 2.043 | 144845.734 | ug/L | 164.668 |
| 115 | In-1 | | | 772421.881 | ug/L | 801078.607 |
| 205 | Tl | 49.190752 | 0.492 | 746234.564 | ug/L | 2008.901 |
| 208 | Pb | 98.459169 | 0.265 | 1967253.411 | ug/L | 747.679 |
| 169 | Tm-1 | | | 526802.648 | ug/L | 528723.356 |
| 50 | Cr | 100.359971 | 2.937 | 20106.928 | ug/L | -668.039 |
| 53 | Cr | 95.988728 | 2.009 | 215322.901 | ug/L | 111230.953 |
| 61 | Ni | 98.433537 | 1.426 | 5352.581 | ug/L | 1574.397 |
| 63 | Cu | 98.255517 | 1.393 | 172824.334 | ug/L | 105.668 |
| 67 | Zn | 97.301997 | 1.365 | 8267.589 | ug/L | 1758.829 |
| 66 | Zn | 98.785434 | 1.037 | 40141.843 | ug/L | 718.083 |
| 76 | Se | 120.762442 | 8.954 | -102520.855 | ug/L | -107838.220 |
| 77 | Se | 95.367090 | 0.936 | 24247.497 | ug/L | 10703.915 |
| 78 | Se | 98.916739 | 0.818 | 60439.287 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 146.195098 | 37.492 | 36203.700 | ug/L | 35602.642 |
| 72 | Ge | | | 822121.911 | ug/L | 838809.520 |
| 108 | Cd | 98.817705 | 1.319 | 11562.657 | ug/L | 5.075 |
| 114 | Cd | 99.567124 | 1.129 | 394732.538 | ug/L | 100.238 |
| 109 | Ag | 50.188842 | 1.535 | 135391.782 | ug/L | 64.667 |
| 115 | In | | | 772421.881 | ug/L | 801078.607 |
| 208 | 207.977 | 98.946443 | 0.795 | 1005509.161 | ug/L | 390.675 |
| 207 | Pb | 98.259214 | 0.681 | 414701.566 | ug/L | 151.668 |
| 206 | Pb | 97.725352 | 0.456 | 547042.684 | ug/L | 205.336 |
| 169 | Tm | | | 526802.648 | ug/L | 528723.356 |
| 106 | Pd | 98.658960 | 2.051 | 14942.418 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.786 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.011 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 96.423 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 99.637 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.011 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 96.423 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 99.637 |
| Pd | 106 | |

**Sample ID: CCB 11**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 22:58:04
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 11.081
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1022912.829 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 522817.955 | ug/L | 533211.627 |
| 9 | Be | 0.010481 | 104.018 | 9.000 | ug/L | 5.667 |
| 27 | Al | 0.190559 | 18.453 | 22185.426 | ug/L | 21656.102 |
| 44 | Ca | 0.844611 | 117.023 | 13644.965 | ug/L | 13691.705 |
| 51 | V | 0.019318 | 1124.507 | -24681.519 | ug/L | -25351.494 |
| 52 | Cr | 0.068679 | 112.772 | 30464.280 | ug/L | 30421.463 |
| 55 | Mn | 0.007547 | 59.094 | 2027.902 | ug/L | 1962.553 |
| 54 | Fe | -0.023608 | 15109.033 | 101203.948 | ug/L | 103219.336 |
| 57 | Fe | 1.549902 | 60.612 | 18019.794 | ug/L | 17911.054 |
| 59 | Co | 0.002826 | 87.437 | 276.338 | ug/L | 249.337 |
| 60 | Ni | 0.004495 | 118.110 | 124.123 | ug/L | 115.754 |
| 65 | Cu | 0.009802 | 36.280 | 173.728 | ug/L | 154.638 |
| 68 | Zn | 0.008941 | 4123.340 | 1807.523 | ug/L | 1837.193 |
| 75 | As | -0.113452 | 259.859 | 14009.622 | ug/L | 14510.311 |
| 82 | Se | 0.077293 | 345.363 | 1380.497 | ug/L | 1393.483 |
| 97 | Mo | 0.038805 | 338.566 | 909.049 | ug/L | 862.377 |
| 72 | Ge-1 | | | 822783.665 | ug/L | 838809.520 |
| 107 | Ag | 0.001554 | 238.974 | 211.669 | ug/L | 204.002 |
| 111 | Cd | 0.013065 | 26.758 | 50.059 | ug/L | 28.514 |
| 121 | Sb | 0.018080 | 36.539 | 384.009 | ug/L | 292.338 |
| 135 | Ba | 0.007167 | 131.054 | 171.668 | ug/L | 164.668 |
| 115 | In-1 | | | 783210.613 | ug/L | 801078.607 |
| 205 | Tl | 0.014656 | 129.957 | 2205.615 | ug/L | 2008.901 |
| 208 | Pb | 0.003080 | 34.627 | 799.015 | ug/L | 747.679 |
| 169 | Tm-1 | | | 522088.413 | ug/L | 528723.356 |
| 50 | Cr | 0.094884 | 134.036 | -635.538 | ug/L | -668.039 |
| 53 | Cr | -3.334117 | 41.756 | 105406.913 | ug/L | 111230.953 |
| 61 | Ni | -0.114558 | 1206.354 | 1540.380 | ug/L | 1574.397 |
| 63 | Cu | -0.003437 | 174.063 | 97.668 | ug/L | 105.668 |
| 67 | Zn | 0.124751 | 487.682 | 1733.481 | ug/L | 1758.829 |
| 66 | Zn | 0.013523 | 2927.317 | 709.083 | ug/L | 718.083 |
| 76 | Se | -11.274365 | 592.148 | -106092.319 | ug/L | -107838.220 |
| 77 | Se | -1.305004 | 115.106 | 10310.586 | ug/L | 10703.915 |
| 78 | Se | -0.390303 | 126.836 | 15598.828 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 1.225520 | 3723.920 | 34931.414 | ug/L | 35602.642 |
| 72 | Ge | | | 822783.665 | ug/L | 838809.520 |
| 108 | Cd | -0.013240 | 138.987 | 3.383 | ug/L | 5.075 |
| 114 | Cd | 0.003481 | 74.222 | 111.850 | ug/L | 100.238 |
| 109 | Ag | 0.007611 | 14.352 | 84.001 | ug/L | 64.667 |
| 115 | In | | | 783210.613 | ug/L | 801078.607 |
| 208 | 207.977 | 0.005129 | 18.283 | 437.344 | ug/L | 390.675 |
| 207 | Pb | 0.003105 | 123.160 | 162.668 | ug/L | 151.668 |
| 206 | Pb | -0.000659 | 239.269 | 199.002 | ug/L | 205.336 |
| 169 | Tm | | | 522088.413 | ug/L | 528723.356 |
| 106 | Pd | 0.024221 | 31.492 | 10.667 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 98.051 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.089 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 97.770 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 98.745 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.089 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 97.770 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 98.745 |
| Pd | 106 | |

**Sample ID: CCV 12**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 23:02:25
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 12.082
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1032659.822 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 529441.602 | ug/L | 533211.627 |
| 9 | Be | 98.767397 | 0.700 | 32908.101 | ug/L | 5.667 |
| 27 | Al | 5064.021970 | 0.728 | 25011680.725 | ug/L | 21656.102 |
| 44 | Ca | 5062.334526 | 0.599 | 1309325.717 | ug/L | 13691.705 |
| 51 | V | 100.359078 | 0.658 | 992810.498 | ug/L | -25351.494 |
| 52 | Cr | 99.603831 | 0.915 | 940412.641 | ug/L | 30421.463 |
| 55 | Mn | 99.512633 | 0.281 | 1361046.483 | ug/L | 1962.553 |
| 54 | Fe | 5070.898406 | 0.965 | 3615650.514 | ug/L | 103219.336 |
| 57 | Fe | 5075.685571 | 0.534 | 1496627.634 | ug/L | 17911.054 |
| 59 | Co | 99.566295 | 0.502 | 1108015.940 | ug/L | 249.337 |
| 60 | Ni | 98.784977 | 0.864 | 233723.241 | ug/L | 115.754 |
| 65 | Cu | 99.327179 | 0.929 | 223483.136 | ug/L | 154.638 |
| 68 | Zn | 98.958883 | 0.593 | 79287.623 | ug/L | 1837.193 |
| 75 | As | 99.313896 | 0.485 | 206209.576 | ug/L | 14510.311 |
| 82 | Se | 99.405917 | 1.393 | 19374.831 | ug/L | 1393.483 |
| 97 | Mo | 200.083012 | 0.283 | 318398.147 | ug/L | 862.377 |
| 72 | Ge-1 | | | 819487.284 | ug/L | 838809.520 |
| 107 | Ag | 49.636109 | 0.136 | 388280.008 | ug/L | 204.002 |
| 111 | Cd | 99.858702 | 0.735 | 166818.927 | ug/L | 28.514 |
| 121 | Sb | 50.242171 | 0.717 | 266904.985 | ug/L | 292.338 |
| 135 | Ba | 101.199015 | 0.484 | 145697.368 | ug/L | 164.668 |
| 115 | In-1 | | | 769867.937 | ug/L | 801078.607 |
| 205 | Tl | 49.399304 | 1.430 | 746958.344 | ug/L | 2008.901 |
| 208 | Pb | 98.554010 | 1.475 | 1962643.929 | ug/L | 747.679 |
| 169 | Tm-1 | | | 525090.202 | ug/L | 528723.356 |
| 50 | Cr | 100.445628 | 2.309 | 20058.122 | ug/L | -668.039 |
| 53 | Cr | 95.197223 | 3.173 | 213748.242 | ug/L | 111230.953 |
| 61 | Ni | 100.581309 | 2.718 | 5418.027 | ug/L | 1574.397 |
| 63 | Cu | 98.552912 | 0.269 | 172798.299 | ug/L | 105.668 |
| 67 | Zn | 98.197928 | 0.485 | 8301.345 | ug/L | 1758.829 |
| 66 | Zn | 99.166640 | 0.402 | 40166.488 | ug/L | 718.083 |
| 76 | Se | 123.914516 | 14.720 | -102109.155 | ug/L | -107838.220 |
| 77 | Se | 98.505551 | 0.977 | 24620.557 | ug/L | 10703.915 |
| 78 | Se | 99.537170 | 0.581 | 60526.621 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 116.419668 | 50.404 | 35819.587 | ug/L | 35602.642 |
| 72 | Ge | | | 819487.284 | ug/L | 838809.520 |
| 108 | Cd | 100.294163 | 1.273 | 11697.588 | ug/L | 5.075 |
| 114 | Cd | 100.376653 | 0.815 | 396667.430 | ug/L | 100.238 |
| 109 | Ag | 49.897656 | 0.212 | 134180.533 | ug/L | 64.667 |
| 115 | In | | | 769867.937 | ug/L | 801078.607 |
| 208 | 207.977 | 99.142244 | 1.380 | 1004172.292 | ug/L | 390.675 |
| 207 | Pb | 97.648959 | 1.986 | 410756.101 | ug/L | 151.668 |
| 206 | Pb | 98.168527 | 1.267 | 547715.535 | ug/L | 205.336 |
| 169 | Tm | | | 525090.202 | ug/L | 528723.356 |
| 106 | Pd | 97.847260 | 0.692 | 14819.539 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.293 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.696 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 96.104 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 99.313 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.696 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 96.104 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 99.313 |
| Pd | 106 | |

**Sample ID: CCB 12**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 23:06:47
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 12.083
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1032441.054 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 528358.385 | ug/L | 533211.627 |
| 9 | Be | 0.007182 | 73.253 | 8.000 | ug/L | 5.667 |
| 27 | Al | 0.370292 | 13.859 | 23507.203 | ug/L | 21656.102 |
| 44 | Ca | -1.057738 | 33.715 | 13403.592 | ug/L | 13691.705 |
| 51 | V | 0.070472 | 444.121 | -24597.994 | ug/L | -25351.494 |
| 52 | Cr | 0.051804 | 38.711 | 30881.066 | ug/L | 30421.463 |
| 55 | Mn | 0.007803 | 60.782 | 2069.912 | ug/L | 1962.553 |
| 54 | Fe | -1.776192 | 28.112 | 101875.758 | ug/L | 103219.336 |
| 57 | Fe | 0.139612 | 541.232 | 17937.922 | ug/L | 17911.054 |
| 59 | Co | 0.004589 | 26.631 | 301.339 | ug/L | 249.337 |
| 60 | Ni | 0.007370 | 91.468 | 133.476 | ug/L | 115.754 |
| 65 | Cu | 0.007743 | 176.619 | 172.299 | ug/L | 154.638 |
| 68 | Zn | 0.386889 | 130.407 | 2145.603 | ug/L | 1837.193 |
| 75 | As | -0.017239 | 1157.152 | 14464.318 | ug/L | 14510.311 |
| 82 | Se | 0.059944 | 586.028 | 1403.496 | ug/L | 1393.483 |
| 97 | Mo | 0.078725 | 179.598 | 989.391 | ug/L | 862.377 |
| 72 | Ge-1 | | | 838125.356 | ug/L | 838809.520 |
| 107 | Ag | 0.004530 | 86.248 | 238.670 | ug/L | 204.002 |
| 111 | Cd | 0.004404 | 46.224 | 35.852 | ug/L | 28.514 |
| 121 | Sb | 0.023628 | 32.070 | 419.010 | ug/L | 292.338 |
| 135 | Ba | 0.005769 | 235.277 | 171.668 | ug/L | 164.668 |
| 115 | In-1 | | | 793886.703 | ug/L | 801078.607 |
| 205 | Tl | 0.030072 | 68.962 | 2476.021 | ug/L | 2008.901 |
| 208 | Pb | 0.006441 | 18.169 | 880.017 | ug/L | 747.679 |
| 169 | Tm-1 | | | 530560.554 | ug/L | 528723.356 |
| 50 | Cr | 0.160323 | 94.302 | -633.700 | ug/L | -668.039 |
| 53 | Cr | -3.801751 | 59.249 | 106846.961 | ug/L | 111230.953 |
| 61 | Ni | -0.407347 | 127.634 | 1557.055 | ug/L | 1574.397 |
| 63 | Cu | 0.002842 | 440.038 | 110.669 | ug/L | 105.668 |
| 67 | Zn | 0.702353 | 186.633 | 1805.522 | ug/L | 1758.829 |
| 66 | Zn | 0.332277 | 178.831 | 852.789 | ug/L | 718.083 |
| 76 | Se | -60.630036 | 55.460 | -109374.486 | ug/L | -107838.220 |
| 77 | Se | -2.835399 | 9.789 | 10278.224 | ug/L | 10703.915 |
| 78 | Se | -0.682201 | 73.733 | 15757.472 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 2.824286 | 1653.414 | 35599.292 | ug/L | 35602.642 |
| 72 | Ge | | | 838125.356 | ug/L | 838809.520 |
| 108 | Cd | 0.006759 | 69.527 | 5.840 | ug/L | 5.075 |
| 114 | Cd | -0.001306 | 101.069 | 93.996 | ug/L | 100.238 |
| 109 | Ag | 0.005997 | 57.317 | 80.668 | ug/L | 64.667 |
| 115 | In | | | 793886.703 | ug/L | 801078.607 |
| 208 | 207.977 | 0.005924 | 37.785 | 452.678 | ug/L | 390.675 |
| 207 | Pb | 0.006616 | 51.436 | 180.335 | ug/L | 151.668 |
| 206 | Pb | 0.007247 | 34.545 | 247.003 | ug/L | 205.336 |
| 169 | Tm | | | 530560.554 | ug/L | 528723.356 |
| 106 | Pd | -0.004404 | 346.410 | 6.333 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.090 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.918 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.102 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 100.347 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.918 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.102 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 100.347 |
| Pd | 106 | |

**Sample ID: H8QTW**
Sample Description: G6G060239-6
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:11:06
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTW.084
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 71
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1043667.714 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 539243.587 | ug/L | 533211.627 |
| 9 | Be | 0.021415 | 54.487 | 13.000 | ug/L | 5.667 |
| 27 | Al | 409.227038 | 0.603 | 2104955.260 | ug/L | 21656.102 |
| 44 | Ca | 781.886562 | 1.216 | 220263.033 | ug/L | 13691.705 |
| 51 | V | 2.763849 | 4.744 | 3361.442 | ug/L | -25351.494 |
| 52 | Cr | 0.966540 | 2.750 | 39772.522 | ug/L | 30421.463 |
| 55 | Mn | 19.456298 | 0.223 | 276080.135 | ug/L | 1962.553 |
| 54 | Fe | 488.933625 | 0.808 | 453589.356 | ug/L | 103219.336 |
| 57 | Fe | 463.900517 | 0.755 | 157494.550 | ug/L | 17911.054 |
| 59 | Co | 0.511633 | 1.981 | 6123.142 | ug/L | 249.337 |
| 60 | Ni | 1.460990 | 1.212 | 3680.440 | ug/L | 115.754 |
| 65 | Cu | 23.666793 | 0.918 | 55045.697 | ug/L | 154.638 |
| 68 | Zn | 7.573114 | 5.176 | 7968.965 | ug/L | 1837.193 |
| 75 | As | 0.918542 | 7.273 | 16454.686 | ug/L | 14510.311 |
| 82 | Se | 0.299598 | 77.537 | 1460.228 | ug/L | 1393.483 |
| 97 | Mo | -0.062893 | 54.607 | 766.034 | ug/L | 862.377 |
| 72 | Ge-1 | | | 845303.985 | ug/L | 838809.520 |
| 107 | Ag | -0.005782 | 20.098 | 160.335 | ug/L | 204.002 |
| 111 | Cd | 0.086590 | 14.091 | 183.167 | ug/L | 28.514 |
| 121 | Sb | 0.089099 | 5.522 | 801.703 | ug/L | 292.338 |
| 135 | Ba | 6.811517 | 2.777 | 10583.397 | ug/L | 164.668 |
| 115 | In-1 | | | 818755.525 | ug/L | 801078.607 |
| 205 | Tl | -0.070587 | 3.042 | 977.388 | ug/L | 2008.901 |
| 208 | Pb | 1.384542 | 1.359 | 29732.726 | ug/L | 747.679 |
| 169 | Tm-1 | | | 551598.692 | ug/L | 528723.356 |
| 50 | Cr | 7.819677 | 2.136 | 990.028 | ug/L | -668.039 |
| 53 | Cr | -64.529498 | 4.243 | 38612.690 | ug/L | 111230.953 |
| 61 | Ni | 1.205298 | 132.444 | 1634.428 | ug/L | 1574.397 |
| 63 | Cu | 23.851580 | 0.301 | 43218.813 | ug/L | 105.668 |
| 67 | Zn | -6.865940 | 18.126 | 1297.603 | ug/L | 1758.829 |
| 66 | Zn | 7.543539 | 7.488 | 3820.340 | ug/L | 718.083 |
| 76 | Se | 0.436360 | 5844.882 | -108662.578 | ug/L | -107838.220 |
| 77 | Se | -51.631599 | 1.533 | 3129.059 | ug/L | 10703.915 |
| 78 | Se | -0.539437 | 15.178 | 15958.716 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1927.856429 | 4.770 | 18151.854 | ug/L | 35602.642 |
| 72 | Ge | | | 845303.985 | ug/L | 838809.520 |
| 108 | Cd | 0.291673 | 42.442 | 41.228 | ug/L | 5.075 |
| 114 | Cd | 0.069753 | 10.223 | 395.297 | ug/L | 100.238 |
| 109 | Ag | -0.007250 | 17.927 | 45.334 | ug/L | 64.667 |
| 115 | In | | | 818755.525 | ug/L | 801078.607 |
| 208 | 207.977 | 1.435347 | 1.287 | 15673.359 | ug/L | 390.675 |
| 207 | Pb | 1.399620 | 2.865 | 6340.297 | ug/L | 151.668 |
| 206 | Pb | 1.280946 | 0.840 | 7719.070 | ug/L | 205.336 |
| 169 | Tm | | | 551598.692 | ug/L | 528723.356 |
| 106 | Pd | 0.880768 | 3.031 | 140.334 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 101.131 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 100.774 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.207 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 104.327 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 100.774 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.207 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 104.327 |
| Pd | 106 | |

**Sample ID: H8QTX**
Sample Description: G6G060239-7
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:15:24
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QTX.085
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 72
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1039886.518 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 529141.150 | ug/L | 533211.627 |
| 9 | Be | 0.008140 | 21.273 | 8.333 | ug/L | 5.667 |
| 27 | Al | 355.698026 | 0.221 | 1813464.868 | ug/L | 21656.102 |
| 44 | Ca | 744.260032 | 0.968 | 208141.874 | ug/L | 13691.705 |
| 51 | V | 2.784307 | 7.559 | 3542.605 | ug/L | -25351.494 |
| 52 | Cr | 0.756159 | 5.465 | 37395.073 | ug/L | 30421.463 |
| 55 | Mn | 17.143392 | 0.454 | 240966.264 | ug/L | 1962.553 |
| 54 | Fe | 465.038770 | 1.071 | 431969.784 | ug/L | 103219.336 |
| 57 | Fe | 435.479679 | 0.692 | 147404.936 | ug/L | 17911.054 |
| 59 | Co | 0.501492 | 1.060 | 5944.352 | ug/L | 249.337 |
| 60 | Ni | 0.970311 | 0.330 | 2457.791 | ug/L | 115.754 |
| 65 | Cu | 31.900979 | 0.254 | 73373.846 | ug/L | 154.638 |
| 68 | Zn | 6.659833 | 6.429 | 7156.931 | ug/L | 1837.193 |
| 75 | As | 0.696214 | 17.138 | 15845.313 | ug/L | 14510.311 |
| 82 | Se | 0.383072 | 20.106 | 1460.520 | ug/L | 1393.483 |
| 97 | Mo | -0.141369 | 11.523 | 631.023 | ug/L | 862.377 |
| 72 | Ge-1 | | | 836530.221 | ug/L | 838809.520 |
| 107 | Ag | -0.006237 | 13.138 | 156.335 | ug/L | 204.002 |
| 111 | Cd | 0.061268 | 8.088 | 137.695 | ug/L | 28.514 |
| 121 | Sb | 0.088487 | 3.956 | 796.703 | ug/L | 292.338 |
| 135 | Ba | 6.151636 | 1.991 | 9558.886 | ug/L | 164.668 |
| 115 | In-1 | | | 817282.747 | ug/L | 801078.607 |
| 205 | Tl | -0.090953 | 2.883 | 652.024 | ug/L | 2008.901 |
| 208 | Pb | 1.559986 | 2.518 | 33251.796 | ug/L | 747.679 |
| 169 | Tm-1 | | | 549270.637 | ug/L | 528723.356 |
| 50 | Cr | 7.431628 | 13.121 | 897.406 | ug/L | -668.039 |
| 53 | Cr | -63.925711 | 5.087 | 38884.664 | ug/L | 111230.953 |
| 61 | Ni | 1.819037 | 28.024 | 1641.765 | ug/L | 1574.397 |
| 63 | Cu | 31.898798 | 0.131 | 57164.447 | ug/L | 105.668 |
| 67 | Zn | -6.254057 | 33.085 | 1325.616 | ug/L | 1758.829 |
| 66 | Zn | 6.670037 | 8.626 | 3426.551 | ug/L | 718.083 |
| 76 | Se | -28.599509 | 74.465 | -108311.536 | ug/L | -107838.220 |
| 77 | Se | -51.315605 | 1.547 | 3142.729 | ug/L | 10703.915 |
| 78 | Se | -0.356957 | 96.984 | 15876.949 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1947.550982 | 4.704 | 17782.655 | ug/L | 35602.642 |
| 72 | Ge | | | 836530.221 | ug/L | 838809.520 |
| 108 | Cd | 0.162126 | 39.382 | 25.253 | ug/L | 5.075 |
| 114 | Cd | 0.037273 | 12.065 | 258.503 | ug/L | 100.238 |
| 109 | Ag | -0.005138 | 29.893 | 51.334 | ug/L | 64.667 |
| 115 | In | | | 817282.747 | ug/L | 801078.607 |
| 208 | 207.977 | 1.601257 | 2.220 | 17360.205 | ug/L | 390.675 |
| 207 | Pb | 1.631668 | 2.924 | 7332.071 | ug/L | 151.668 |
| 206 | Pb | 1.431017 | 4.119 | 8559.521 | ug/L | 205.336 |
| 169 | Tm | | | 549270.637 | ug/L | 528723.356 |
| 106 | Pd | 0.792691 | 5.069 | 127.001 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.237 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.728 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 102.023 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.886 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.728 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 102.023 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.886 |
| Pd | 106 | |

**Sample ID: H8QT1**
Sample Description: G6G060239-8
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:19:43
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT1.086
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 73
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1033888.051 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 528885.323 | ug/L | 533211.627 |
| 9 | Be | 0.045222 | 15.600 | 20.667 | ug/L | 5.667 |
| 27 | Al | 995.565295 | 0.665 | 4983670.303 | ug/L | 21656.102 |
| 44 | Ca | 1625.082664 | 0.618 | 433698.112 | ug/L | 13691.705 |
| 51 | V | 4.310185 | 0.205 | 19125.031 | ug/L | -25351.494 |
| 52 | Cr | 1.267433 | 8.284 | 41722.267 | ug/L | 30421.463 |
| 55 | Mn | 48.437120 | 0.122 | 670116.490 | ug/L | 1962.553 |
| 54 | Fe | 1237.251765 | 0.775 | 968030.407 | ug/L | 103219.336 |
| 57 | Fe | 1203.380831 | 0.327 | 371872.768 | ug/L | 17911.054 |
| 59 | Co | 0.972118 | 1.881 | 11170.127 | ug/L | 249.337 |
| 60 | Ni | 1.615158 | 0.624 | 3972.085 | ug/L | 115.754 |
| 65 | Cu | 148.650739 | 0.780 | 337736.939 | ug/L | 154.638 |
| 68 | Zn | 12.249149 | 12.924 | 11502.283 | ug/L | 1837.193 |
| 75 | As | 1.179313 | 3.373 | 16621.385 | ug/L | 14510.311 |
| 82 | Se | 0.569987 | 17.397 | 1479.345 | ug/L | 1393.483 |
| 97 | Mo | -0.053818 | 12.542 | 764.700 | ug/L | 862.377 |
| 72 | Ge-1 | | | 827700.429 | ug/L | 838809.520 |
| 107 | Ag | 0.042029 | 16.925 | 550.017 | ug/L | 204.002 |
| 111 | Cd | 0.109782 | 4.571 | 221.027 | ug/L | 28.514 |
| 121 | Sb | 0.161986 | 4.558 | 1196.082 | ug/L | 292.338 |
| 135 | Ba | 17.093515 | 1.384 | 25943.745 | ug/L | 164.668 |
| 115 | In-1 | | | 807265.565 | ug/L | 801078.607 |
| 205 | Tl | -0.076753 | 2.193 | 873.710 | ug/L | 2008.901 |
| 208 | Pb | 2.542727 | 0.522 | 53580.256 | ug/L | 747.679 |
| 169 | Tm-1 | | | 547755.227 | ug/L | 528723.356 |
| 50 | Cr | 13.254983 | 7.571 | 2101.501 | ug/L | -668.039 |
| 53 | Cr | -63.017424 | 4.710 | 39497.690 | ug/L | 111230.953 |
| 61 | Ni | 2.049483 | 21.734 | 1633.427 | ug/L | 1574.397 |
| 63 | Cu | 145.641218 | 0.257 | 257871.917 | ug/L | 105.668 |
| 67 | Zn | -1.961923 | 31.133 | 1602.744 | ug/L | 1758.829 |
| 66 | Zn | 12.111552 | 14.864 | 5577.697 | ug/L | 718.083 |
| 76 | Se | -8.943268 | 159.864 | -106646.525 | ug/L | -107838.220 |
| 77 | Se | -51.001667 | 2.275 | 3155.399 | ug/L | 10703.915 |
| 78 | Se | -0.023452 | 1087.981 | 15860.875 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1783.801599 | 4.583 | 19071.552 | ug/L | 35602.642 |
| 72 | Ge | | | 827700.429 | ug/L | 838809.520 |
| 108 | Cd | 0.087770 | 188.611 | 15.818 | ug/L | 5.075 |
| 114 | Cd | 0.067846 | 12.888 | 382.093 | ug/L | 100.238 |
| 109 | Ag | 0.044775 | 13.198 | 191.339 | ug/L | 64.667 |
| 115 | In | | | 807265.565 | ug/L | 801078.607 |
| 208 | 207.977 | 2.630475 | 0.499 | 28189.006 | ug/L | 390.675 |
| 207 | Pb | 2.576277 | 0.751 | 11458.498 | ug/L | 151.668 |
| 206 | Pb | 2.358137 | 0.663 | 13932.751 | ug/L | 205.336 |
| 169 | Tm | | | 547755.227 | ug/L | 528723.356 |
| 106 | Pd | 1.512727 | 2.311 | 236.003 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.189 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.676 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.772 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 103.600 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.676 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.772 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 103.600 |
| Pd | 106 | |

**Sample ID: H8QT2**
Sample Description: G6G060239-9
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:24:03
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT2.087
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 74
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1026890.179 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 530097.034 | ug/L | 533211.627 |
| 9 | Be | 0.041137 | 24.680 | 19.333 | ug/L | 5.667 |
| 27 | Al | 1131.733061 | 1.317 | 5642695.036 | ug/L | 21656.102 |
| 44 | Ca | 1600.860294 | 2.745 | 425875.559 | ug/L | 13691.705 |
| 51 | V | 4.331389 | 1.690 | 19269.133 | ug/L | -25351.494 |
| 52 | Cr | 1.217822 | 10.976 | 41112.366 | ug/L | 30421.463 |
| 55 | Mn | 67.847735 | 1.900 | 934541.921 | ug/L | 1962.553 |
| 54 | Fe | 1214.395208 | 2.740 | 948590.683 | ug/L | 103219.336 |
| 57 | Fe | 1182.224164 | 2.783 | 364324.138 | ug/L | 17911.054 |
| 59 | Co | 0.977807 | 2.917 | 11193.156 | ug/L | 249.337 |
| 60 | Ni | 1.514394 | 3.044 | 3717.911 | ug/L | 115.754 |
| 65 | Cu | 74.423520 | 1.807 | 168574.352 | ug/L | 154.638 |
| 68 | Zn | 11.692898 | 3.061 | 11022.942 | ug/L | 1837.193 |
| 75 | As | 0.883385 | 8.876 | 15988.115 | ug/L | 14510.311 |
| 82 | Se | 0.471298 | 74.849 | 1456.663 | ug/L | 1393.483 |
| 97 | Mo | -0.130678 | 12.891 | 639.023 | ug/L | 862.377 |
| 72 | Ge-1 | | | 824947.553 | ug/L | 838809.520 |
| 107 | Ag | 0.025309 | 8.293 | 411.343 | ug/L | 204.002 |
| 111 | Cd | 0.100449 | 7.287 | 203.713 | ug/L | 28.514 |
| 121 | Sb | 0.124279 | 8.016 | 982.055 | ug/L | 292.338 |
| 135 | Ba | 19.901267 | 1.668 | 30051.861 | ug/L | 164.668 |
| 115 | In-1 | | | 804013.636 | ug/L | 801078.607 |
| 205 | Tl | -0.082326 | 1.120 | 775.701 | ug/L | 2008.901 |
| 208 | Pb | 2.337286 | 1.091 | 48652.831 | ug/L | 747.679 |
| 169 | Tm-1 | | | 540448.299 | ug/L | 528723.356 |
| 50 | Cr | 15.599660 | 3.700 | 2580.066 | ug/L | -668.039 |
| 53 | Cr | -62.755674 | 5.150 | 39617.812 | ug/L | 111230.953 |
| 61 | Ni | 0.957674 | 113.041 | 1585.402 | ug/L | 1574.397 |
| 63 | Cu | 73.982435 | 1.693 | 130583.270 | ug/L | 105.668 |
| 67 | Zn | -2.862444 | 53.148 | 1535.378 | ug/L | 1758.829 |
| 66 | Zn | 11.286752 | 4.961 | 5228.712 | ug/L | 718.083 |
| 76 | Se | -44.212888 | 80.644 | -107232.171 | ug/L | -107838.220 |
| 77 | Se | -50.859125 | 2.957 | 3163.068 | ug/L | 10703.915 |
| 78 | Se | -0.806263 | 65.298 | 15450.514 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1838.644634 | 6.365 | 18503.699 | ug/L | 35602.642 |
| 72 | Ge | | | 824947.553 | ug/L | 838809.520 |
| 108 | Cd | 0.293037 | 22.646 | 40.830 | ug/L | 5.075 |
| 114 | Cd | 0.065044 | 3.997 | 369.044 | ug/L | 100.238 |
| 109 | Ag | 0.020095 | 24.844 | 121.336 | ug/L | 64.667 |
| 115 | In | | | 804013.636 | ug/L | 801078.607 |
| 208 | 207.977 | 2.405967 | 1.488 | 25471.356 | ug/L | 390.675 |
| 207 | Pb | 2.395291 | 1.248 | 10521.656 | ug/L | 151.668 |
| 206 | Pb | 2.168874 | 1.224 | 12659.819 | ug/L | 205.336 |
| 169 | Tm | | | 540448.299 | ug/L | 528723.356 |
| 106 | Pd | 1.638239 | 5.288 | 255.004 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.416 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 98.347 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 100.366 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.218 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 98.347 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 100.366 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.218 |
| Pd | 106 | |

**Sample ID: H8QT3**
Sample Description: G6G060239-10
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:28:23
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT3.088
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 75
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1012477.696 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 525984.182 | ug/L | 533211.627 |
| 9 | Be | 0.022413 | 24.527 | 13.000 | ug/L | 5.667 |
| 27 | Al | 581.689887 | 0.773 | 2888587.000 | ug/L | 21656.102 |
| 44 | Ca | 1361.179577 | 0.991 | 361433.949 | ug/L | 13691.705 |
| 51 | V | 3.690726 | 1.131 | 12640.425 | ug/L | -25351.494 |
| 52 | Cr | 1.009387 | 3.643 | 38907.316 | ug/L | 30421.463 |
| 55 | Mn | 30.901024 | 0.297 | 423495.084 | ug/L | 1962.553 |
| 54 | Fe | 765.088165 | 0.775 | 630456.567 | ug/L | 103219.336 |
| 57 | Fe | 725.446306 | 0.207 | 228654.739 | ug/L | 17911.054 |
| 59 | Co | 0.714322 | 0.641 | 8182.157 | ug/L | 249.337 |
| 60 | Ni | 1.453986 | 1.656 | 3547.699 | ug/L | 115.754 |
| 65 | Cu | 140.682917 | 1.099 | 316117.707 | ug/L | 154.638 |
| 68 | Zn | 10.141511 | 4.365 | 9725.406 | ug/L | 1837.193 |
| 75 | As | 0.934155 | 18.137 | 15964.072 | ug/L | 14510.311 |
| 82 | Se | 0.367910 | 95.412 | 1426.338 | ug/L | 1393.483 |
| 97 | Mo | -0.120391 | 15.020 | 650.691 | ug/L | 862.377 |
| 72 | Ge-1 | | | 818589.329 | ug/L | 838809.520 |
| 107 | Ag | 0.044579 | 14.233 | 561.018 | ug/L | 204.002 |
| 111 | Cd | 0.164382 | 1.160 | 311.088 | ug/L | 28.514 |
| 121 | Sb | 0.123960 | 3.035 | 967.053 | ug/L | 292.338 |
| 135 | Ba | 11.976463 | 1.436 | 17906.640 | ug/L | 164.668 |
| 115 | In-1 | | | 793095.094 | ug/L | 801078.607 |
| 205 | Tl | -0.097462 | 0.546 | 538.683 | ug/L | 2008.901 |
| 208 | Pb | 2.123191 | 0.397 | 44104.810 | ug/L | 747.679 |
| 169 | Tm-1 | | | 538451.451 | ug/L | 528723.356 |
| 50 | Cr | 11.079792 | 8.690 | 1630.607 | ug/L | -668.039 |
| 53 | Cr | -62.256593 | 4.188 | 39905.450 | ug/L | 111230.953 |
| 61 | Ni | 0.794910 | 24.446 | 1567.059 | ug/L | 1574.397 |
| 63 | Cu | 139.507412 | 1.020 | 244293.717 | ug/L | 105.668 |
| 67 | Zn | -3.979742 | 45.267 | 1450.005 | ug/L | 1758.829 |
| 66 | Zn | 9.977504 | 3.420 | 4666.817 | ug/L | 718.083 |
| 76 | Se | -41.529795 | 72.211 | -106327.102 | ug/L | -107838.220 |
| 77 | Se | -50.608529 | 1.186 | 3177.404 | ug/L | 10703.915 |
| 78 | Se | -0.287844 | 187.831 | 15566.982 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1877.972520 | 4.202 | 18023.999 | ug/L | 35602.642 |
| > 72 | Ge | | | 818589.329 | ug/L | 838809.520 |
| 108 | Cd | 0.202467 | 6.864 | 29.344 | ug/L | 5.075 |
| 114 | Cd | 0.122300 | 16.494 | 597.097 | ug/L | 100.238 |
| 109 | Ag | 0.039353 | 14.525 | 173.005 | ug/L | 64.667 |
| > 115 | In | | | 793095.094 | ug/L | 801078.607 |
| 208 | 207.977 | 2.185937 | 0.452 | 23093.435 | ug/L | 390.675 |
| 207 | Pb | 2.182855 | 1.393 | 9567.228 | ug/L | 151.668 |
| 206 | Pb | 1.964299 | 0.481 | 11444.147 | ug/L | 205.336 |
| > 169 | Tm | | | 538451.451 | ug/L | 528723.356 |
| 106 | Pd | 1.266108 | 11.670 | 198.669 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 98.645 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.589 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.003 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 101.840 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.589 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.003 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 101.840 |
| Pd | 106 | |

**Sample ID: H8QT5**
Sample Description: G6G060239-11
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:32:44
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT5.089
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 76
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1029252.504 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 529712.411 | ug/L | 533211.627 |
| 9 | Be | 0.027062 | 26.223 | 14.667 | ug/L | 5.667 |
| 27 | Al | 861.743900 | 1.199 | 4276269.244 | ug/L | 21656.102 |
| 44 | Ca | 1825.915662 | 1.381 | 481082.623 | ug/L | 13691.705 |
| 51 | V | 4.544183 | 0.634 | 21321.470 | ug/L | -25351.494 |
| 52 | Cr | 1.355533 | 1.886 | 42139.561 | ug/L | 30421.463 |
| 55 | Mn | 45.302525 | 0.797 | 621014.484 | ug/L | 1962.553 |
| 54 | Fe | 1150.762448 | 0.604 | 899033.821 | ug/L | 103219.336 |
| 57 | Fe | 1109.649182 | 0.533 | 341074.103 | ug/L | 17911.054 |
| 59 | Co | 0.962011 | 0.692 | 10953.519 | ug/L | 249.337 |
| 60 | Ni | 1.624033 | 3.232 | 3956.095 | ug/L | 115.754 |
| 65 | Cu | 79.017610 | 1.137 | 177920.324 | ug/L | 154.638 |
| 68 | Zn | 20.021872 | 3.057 | 17483.792 | ug/L | 1837.193 |
| 75 | As | 1.293492 | 7.875 | 16688.513 | ug/L | 14510.311 |
| 82 | Se | 0.632381 | 52.020 | 1476.990 | ug/L | 1393.483 |
| 97 | Mo | 0.095888 | 9.438 | 995.390 | ug/L | 862.377 |
| 72 | Ge-1 | | | 819994.991 | ug/L | 838809.520 |
| 107 | Ag | 0.024298 | 8.557 | 397.342 | ug/L | 204.002 |
| 111 | Cd | 0.226046 | 4.242 | 416.894 | ug/L | 28.514 |
| 121 | Sb | 0.199589 | 4.996 | 1379.442 | ug/L | 292.338 |
| 135 | Ba | 19.526352 | 0.482 | 29068.538 | ug/L | 164.668 |
| 115 | In-1 | | | 792465.848 | ug/L | 801078.607 |
| 205 | Tl | -0.092627 | 2.453 | 619.022 | ug/L | 2008.901 |
| 208 | Pb | 2.377616 | 0.129 | 49736.920 | ug/L | 747.679 |
| 169 | Tm-1 | | | 543234.008 | ug/L | 528723.356 |
| 50 | Cr | 12.858397 | 8.668 | 1999.375 | ug/L | -668.039 |
| 53 | Cr | -61.533030 | 4.792 | 40772.518 | ug/L | 111230.953 |
| 61 | Ni | 1.197085 | 54.050 | 1585.402 | ug/L | 1574.397 |
| 63 | Cu | 79.065919 | 0.499 | 138739.862 | ug/L | 105.668 |
| 67 | Zn | 5.479553 | 20.656 | 2087.031 | ug/L | 1758.829 |
| 66 | Zn | 19.943336 | 3.026 | 8643.610 | ug/L | 718.083 |
| 76 | Se | -14.729360 | 225.212 | -105809.656 | ug/L | -107838.220 |
| 77 | Se | -50.477611 | 1.755 | 3201.410 | ug/L | 10703.915 |
| 78 | Se | -0.118533 | 15.908 | 15670.579 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1805.881748 | 5.095 | 18696.656 | ug/L | 35602.642 |
| 72 | Ge | | | 819994.991 | ug/L | 838809.520 |
| 108 | Cd | 0.329730 | 40.432 | 44.570 | ug/L | 5.075 |
| 114 | Cd | 0.182378 | 1.363 | 840.832 | ug/L | 100.238 |
| 109 | Ag | 0.020495 | 19.134 | 120.669 | ug/L | 64.667 |
| 115 | In | | | 792465.848 | ug/L | 801078.607 |
| 208 | 207.977 | 2.451297 | 0.511 | 26078.807 | ug/L | 390.675 |
| 207 | Pb | 2.439782 | 2.090 | 10770.962 | ug/L | 151.668 |
| 206 | Pb | 2.196989 | 2.291 | 12887.152 | ug/L | 205.336 |
| 169 | Tm | | | 543234.008 | ug/L | 528723.356 |
| 106 | Pd | 1.620624 | 3.269 | 252.337 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.344 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.757 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 98.925 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.744 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.757 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 98.925 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.744 |
| Pd | 106 | |

**Sample ID: H8QT6**
Sample Description: G6G060239-12
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:37:05
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT6.090
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 77
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1022880.693 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 527243.527 | ug/L | 533211.627 |
| 9 | Be | 0.020281 | 16.695 | 12.333 | ug/L | 5.667 |
| 27 | Al | 737.199078 | 0.488 | 3652020.442 | ug/L | 21656.102 |
| 44 | Ca | 1482.186046 | 0.680 | 392022.577 | ug/L | 13691.705 |
| 51 | V | 3.869935 | 1.014 | 14440.313 | ug/L | -25351.494 |
| 52 | Cr | 1.219003 | 5.960 | 40781.151 | ug/L | 30421.463 |
| 55 | Mn | 36.894857 | 1.225 | 504783.404 | ug/L | 1962.553 |
| 54 | Fe | 996.837286 | 0.595 | 790196.037 | ug/L | 103219.336 |
| 57 | Fe | 959.517603 | 0.512 | 296519.534 | ug/L | 17911.054 |
| 59 | Co | 0.767468 | 0.566 | 8764.721 | ug/L | 249.337 |
| 60 | Ni | 1.582229 | 4.052 | 3846.931 | ug/L | 115.754 |
| 65 | Cu | 57.132418 | 0.584 | 128353.177 | ug/L | 154.638 |
| 68 | Zn | 13.094457 | 1.119 | 12024.925 | ug/L | 1837.193 |
| 75 | As | 0.921537 | 12.890 | 15926.636 | ug/L | 14510.311 |
| 82 | Se | 0.768347 | 11.736 | 1497.731 | ug/L | 1393.483 |
| 97 | Mo | -0.068970 | 41.599 | 731.364 | ug/L | 862.377 |
| 72 | Ge-1 | | | 817857.278 | ug/L | 838809.520 |
| 107 | Ag | 0.014633 | 7.433 | 323.006 | ug/L | 204.002 |
| 111 | Cd | 0.114537 | 4.119 | 227.552 | ug/L | 28.514 |
| 121 | Sb | 0.141055 | 4.991 | 1071.066 | ug/L | 292.338 |
| 135 | Ba | 13.631152 | 1.426 | 20560.797 | ug/L | 164.668 |
| 115 | In-1 | | | 801021.305 | ug/L | 801078.607 |
| 205 | Tl | -0.091780 | 0.381 | 624.022 | ug/L | 2008.901 |
| 208 | Pb | 2.220738 | 0.634 | 45910.491 | ug/L | 747.679 |
| 169 | Tm-1 | | | 536277.328 | ug/L | 528723.356 |
| 50 | Cr | 11.868109 | 6.874 | 1791.827 | ug/L | -668.039 |
| 53 | Cr | -61.105223 | 5.304 | 41116.101 | ug/L | 111230.953 |
| 61 | Ni | 1.165446 | 68.650 | 1580.066 | ug/L | 1574.397 |
| 63 | Cu | 57.406824 | 0.304 | 100495.702 | ug/L | 105.668 |
| 67 | Zn | -0.400738 | 411.212 | 1687.456 | ug/L | 1758.829 |
| 66 | Zn | 12.872429 | 2.033 | 5813.070 | ug/L | 718.083 |
| 76 | Se | 8.351155 | 420.346 | -104931.827 | ug/L | -107838.220 |
| 77 | Se | -49.642962 | 2.959 | 3311.773 | ug/L | 10703.915 |
| 78 | Se | -0.066664 | 683.195 | 15652.253 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1834.357116 | 5.480 | 18390.533 | ug/L | 35602.642 |
| 72 | Ge | | | 817857.278 | ug/L | 838809.520 |
| 108 | Cd | 0.279319 | 9.281 | 38.962 | ug/L | 5.075 |
| 114 | Cd | 0.086924 | 8.204 | 457.589 | ug/L | 100.238 |
| 109 | Ag | 0.011569 | 17.188 | 97.002 | ug/L | 64.667 |
| 115 | In | | | 801021.305 | ug/L | 801078.607 |
| 208 | 207.977 | 2.291342 | 0.083 | 24090.785 | ug/L | 390.675 |
| 207 | Pb | 2.276114 | 1.821 | 9929.298 | ug/L | 151.668 |
| 206 | Pb | 2.050817 | 0.783 | 11890.407 | ug/L | 205.336 |
| 169 | Tm | | | 536277.328 | ug/L | 528723.356 |
| 106 | Pd | 1.426851 | 3.036 | 223.003 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 98.881 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.502 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 99.993 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 101.429 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.502 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 99.993 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 101.429 |
| Pd | 106 | |

**Sample ID: H8QT7**
Sample Description: G6G060239-13
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:41:27
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT7.091
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 78
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1017118.161 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 528633.518 | ug/L | 533211.627 |
| 9 | Be | 0.045217 | 8.838 | 20.667 | ug/L | 5.667 |
| 27 | Al | 963.648827 | 0.686 | 4743761.821 | ug/L | 21656.102 |
| 44 | Ca | 1699.719949 | 0.420 | 445413.876 | ug/L | 13691.705 |
| 51 | V | 4.456529 | 0.169 | 20278.421 | ug/L | -25351.494 |
| 52 | Cr | 1.512231 | 5.486 | 43246.964 | ug/L | 30421.463 |
| 55 | Mn | 47.185439 | 0.453 | 641915.141 | ug/L | 1962.553 |
| 54 | Fe | 1212.872872 | 0.060 | 935046.233 | ug/L | 103219.336 |
| 57 | Fe | 1179.347892 | 0.931 | 358694.988 | ug/L | 17911.054 |
| 59 | Co | 0.991021 | 1.554 | 11192.155 | ug/L | 249.337 |
| 60 | Ni | 1.641404 | 0.669 | 3967.246 | ug/L | 115.754 |
| 65 | Cu | 69.830710 | 0.706 | 156078.731 | ug/L | 154.638 |
| 68 | Zn | 13.115856 | 2.584 | 11982.535 | ug/L | 1837.193 |
| 75 | As | 1.480270 | 13.505 | 16920.348 | ug/L | 14510.311 |
| 82 | Se | 0.644302 | 52.821 | 1468.049 | ug/L | 1393.483 |
| 97 | Mo | -0.009967 | 168.887 | 821.039 | ug/L | 862.377 |
| 72 | Ge-1 | | | 813839.609 | ug/L | 838809.520 |
| 107 | Ag | 0.015231 | 26.584 | 323.339 | ug/L | 204.002 |
| 111 | Cd | 0.132184 | 4.697 | 254.727 | ug/L | 28.514 |
| 121 | Sb | 0.154518 | 2.384 | 1130.073 | ug/L | 292.338 |
| 135 | Ba | 16.965579 | 1.484 | 25207.259 | ug/L | 164.668 |
| 115 | In-1 | | | 790301.285 | ug/L | 801078.607 |
| 205 | Tl | -0.090384 | 1.778 | 655.025 | ug/L | 2008.901 |
| 208 | Pb | 2.315597 | 0.403 | 48547.349 | ug/L | 747.679 |
| 169 | Tm-1 | | | 544231.875 | ug/L | 528723.356 |
| 50 | Cr | 13.847809 | 12.892 | 2188.090 | ug/L | -668.039 |
| 53 | Cr | -61.312578 | 4.876 | 40702.504 | ug/L | 111230.953 |
| 61 | Ni | 0.719412 | 156.566 | 1555.054 | ug/L | 1574.397 |
| 63 | Cu | 69.498701 | 0.433 | 121046.882 | ug/L | 105.668 |
| 67 | Zn | -0.885156 | 180.358 | 1647.435 | ug/L | 1758.829 |
| 66 | Zn | 13.031235 | 2.280 | 5847.134 | ug/L | 718.083 |
| 76 | Se | -9.454526 | 236.581 | -104873.213 | ug/L | -107838.220 |
| 77 | Se | -50.580281 | 2.033 | 3162.734 | ug/L | 10703.915 |
| 78 | Se | -0.213301 | 202.076 | 15510.258 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -1791.947303 | 4.205 | 18679.624 | ug/L | 35602.642 |
| 72 | Ge | | | 813839.609 | ug/L | 838809.520 |
| 108 | Cd | 0.310884 | 23.211 | 42.248 | ug/L | 5.075 |
| 114 | Cd | 0.085893 | 10.454 | 447.416 | ug/L | 100.238 |
| 109 | Ag | 0.015432 | 44.166 | 106.335 | ug/L | 64.667 |
| 115 | In | | | 790301.285 | ug/L | 801078.607 |
| 208 | 207.977 | 2.408088 | 0.170 | 25673.614 | ug/L | 390.675 |
| 207 | Pb | 2.343875 | 0.661 | 10371.477 | ug/L | 151.668 |
| 206 | Pb | 2.126373 | 1.444 | 12502.259 | ug/L | 205.336 |
| 169 | Tm | | | 544231.875 | ug/L | 528723.356 |
| 106 | Pd | 1.704298 | 3.697 | 265.004 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.141 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.023 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 98.655 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.933 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.023 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 98.655 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.933 |
| Pd | 106 | |

**Sample ID: H8QT8**
Sample Description: G6G060239-14
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:45:49
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT8.092
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 79
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1017699.608 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 528621.255 | ug/L | 533211.627 |
| 9 | Be | -0.007844 | 77.451 | 3.000 | ug/L | 5.667 |
| 27 | Al | 9.211214 | 1.694 | 67793.684 | ug/L | 21656.102 |
| 44 | Ca | 272.557961 | 0.515 | 84616.177 | ug/L | 13691.705 |
| 51 | V | 1.805318 | 3.869 | -6572.508 | ug/L | -25351.494 |
| 52 | Cr | 0.388949 | 15.443 | 33860.727 | ug/L | 30421.463 |
| 55 | Mn | 1.526748 | 0.976 | 23169.970 | ug/L | 1962.553 |
| 54 | Fe | 36.954640 | 2.124 | 128683.898 | ug/L | 103219.336 |
| 57 | Fe | 9.891950 | 4.649 | 20741.395 | ug/L | 17911.054 |
| 59 | Co | 0.192377 | 0.381 | 2426.003 | ug/L | 249.337 |
| 60 | Ni | 0.563868 | 4.487 | 1472.162 | ug/L | 115.754 |
| 65 | Cu | 0.966293 | 4.692 | 2364.235 | ug/L | 154.638 |
| 68 | Zn | 1.680858 | 5.451 | 3165.573 | ug/L | 1837.193 |
| 75 | As | 0.158236 | 93.972 | 14739.089 | ug/L | 14510.311 |
| 82 | Se | -0.142206 | 206.356 | 1358.862 | ug/L | 1393.483 |
| 97 | Mo | -0.346055 | 3.664 | 298.338 | ug/L | 862.377 |
| 72 | Ge-1 | | | 833942.664 | ug/L | 838809.520 |
| 107 | Ag | -0.021065 | 0.893 | 33.000 | ug/L | 204.002 |
| 111 | Cd | -0.005656 | 88.416 | 18.892 | ug/L | 28.514 |
| 121 | Sb | -0.028760 | 7.183 | 135.001 | ug/L | 292.338 |
| 135 | Ba | 0.589341 | 2.825 | 1058.397 | ug/L | 164.668 |
| 115 | In-1 | | | 810174.155 | ug/L | 801078.607 |
| 205 | Tl | -0.123000 | 0.764 | 144.335 | ug/L | 2008.901 |
| 208 | Pb | 0.247283 | 1.259 | 5830.755 | ug/L | 747.679 |
| 169 | Tm-1 | | | 540434.911 | ug/L | 528723.356 |
| 50 | Cr | 3.419768 | 4.112 | 53.581 | ug/L | -668.039 |
| 53 | Cr | -61.416352 | 4.904 | 41576.220 | ug/L | 111230.953 |
| 61 | Ni | -3.089974 | 19.823 | 1444.000 | ug/L | 1574.397 |
| 63 | Cu | 0.982030 | 2.903 | 1856.218 | ug/L | 105.668 |
| 67 | Zn | -11.359070 | 19.933 | 972.820 | ug/L | 1758.829 |
| 66 | Zn | 1.863120 | 6.531 | 1468.679 | ug/L | 718.083 |
| 76 | Se | -46.463394 | 44.620 | -108453.137 | ug/L | -107838.220 |
| 77 | Se | -50.969160 | 2.338 | 3183.072 | ug/L | 10703.915 |
| 78 | Se | -1.167450 | 28.302 | 15457.334 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2477.469238 | 3.902 | 12919.022 | ug/L | 35602.642 |
| 72 | Ge | | | 833942.664 | ug/L | 838809.520 |
| 108 | Cd | 0.107487 | 71.833 | 18.361 | ug/L | 5.075 |
| 114 | Cd | -0.017145 | 10.688 | 30.063 | ug/L | 100.238 |
| 109 | Ag | -0.019706 | 6.248 | 9.667 | ug/L | 64.667 |
| 115 | In | | | 810174.155 | ug/L | 801078.607 |
| 208 | 207.977 | 0.255185 | 1.478 | 3058.534 | ug/L | 390.675 |
| 207 | Pb | 0.268220 | 3.830 | 1315.766 | ug/L | 151.668 |
| 206 | Pb | 0.217151 | 1.971 | 1456.455 | ug/L | 205.336 |
| 169 | Tm | | | 540434.911 | ug/L | 528723.356 |
| 106 | Pd | 0.332488 | 11.976 | 57.334 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 99.139 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 99.420 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 101.135 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 102.215 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 99.420 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 101.135 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 102.215 |
| Pd | 106 | |

**Sample ID: H8QT9**
Sample Description: G6G060239-15
Batch ID: 6194461
Sample Date/Time: Monday, July 17, 2006 23:50:10
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\H8QT9.093
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 80
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1030462.699 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 534170.957 | ug/L | 533211.627 |
| 9 | Be | -0.009008 | 49.128 | 2.667 | ug/L | 5.667 |
| 27 | Al | 7.903090 | 0.922 | 61794.107 | ug/L | 21656.102 |
| 44 | Ca | 228.914810 | 0.921 | 73934.047 | ug/L | 13691.705 |
| 51 | V | 1.678558 | 6.702 | -7957.855 | ug/L | -25351.494 |
| 52 | Cr | 0.157988 | 29.414 | 32010.782 | ug/L | 30421.463 |
| 55 | Mn | 1.273524 | 0.774 | 19835.792 | ug/L | 1962.553 |
| 54 | Fe | 17.745087 | 4.482 | 116216.770 | ug/L | 103219.336 |
| 57 | Fe | 8.906465 | 5.373 | 20639.977 | ug/L | 17911.054 |
| 59 | Co | 0.265261 | 1.237 | 3281.949 | ug/L | 249.337 |
| 60 | Ni | 0.566011 | 2.520 | 1490.958 | ug/L | 115.754 |
| 65 | Cu | 0.747958 | 2.246 | 1882.569 | ug/L | 154.638 |
| 68 | Zn | 1.052756 | 24.064 | 2691.416 | ug/L | 1837.193 |
| 75 | As | 0.236207 | 15.517 | 15030.865 | ug/L | 14510.311 |
| 82 | Se | -0.014990 | 416.986 | 1395.604 | ug/L | 1393.483 |
| 97 | Mo | -0.359028 | 3.702 | 280.004 | ug/L | 862.377 |
| 72 | Ge-1 | | | 841774.774 | ug/L | 838809.520 |
| 107 | Ag | -0.021885 | 0.951 | 26.333 | ug/L | 204.002 |
| 111 | Cd | -0.011666 | 25.198 | 8.341 | ug/L | 28.514 |
| 121 | Sb | -0.033435 | 4.710 | 109.334 | ug/L | 292.338 |
| 135 | Ba | 0.475098 | 2.295 | 888.712 | ug/L | 164.668 |
| 115 | In-1 | | | 812986.045 | ug/L | 801078.607 |
| 205 | Tl | -0.123752 | 0.859 | 135.334 | ug/L | 2008.901 |
| 208 | Pb | 0.134740 | 2.596 | 3596.619 | ug/L | 747.679 |
| 169 | Tm-1 | | | 551509.680 | ug/L | 528723.356 |
| 50 | Cr | 3.262109 | 3.216 | 20.602 | ug/L | -668.039 |
| 53 | Cr | -61.162938 | 4.843 | 42257.481 | ug/L | 111230.953 |
| 61 | Ni | -1.243421 | 43.438 | 1530.708 | ug/L | 1574.397 |
| 63 | Cu | 0.763845 | 1.342 | 1481.018 | ug/L | 105.668 |
| 67 | Zn | -11.953267 | 12.188 | 941.476 | ug/L | 1758.829 |
| 66 | Zn | 1.267210 | 24.887 | 1239.248 | ug/L | 718.083 |
| 76 | Se | -23.074076 | 110.555 | -108837.058 | ug/L | -107838.220 |
| 77 | Se | -49.972875 | 1.983 | 3360.452 | ug/L | 10703.915 |
| 78 | Se | -0.617186 | 31.915 | 15856.079 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -2524.130373 | 4.346 | 12613.049 | ug/L | 35602.642 |
| 72 | Ge | | | 841774.774 | ug/L | 838809.520 |
| 108 | Cd | 0.108275 | 45.931 | 18.509 | ug/L | 5.075 |
| 114 | Cd | -0.018751 | 11.511 | 23.488 | ug/L | 100.238 |
| 109 | Ag | -0.019832 | 2.127 | 9.333 | ug/L | 64.667 |
| 115 | In | | | 812986.045 | ug/L | 801078.607 |
| 208 | 207.977 | 0.137714 | 1.198 | 1871.867 | ug/L | 390.675 |
| 207 | Pb | 0.146359 | 3.932 | 804.370 | ug/L | 151.668 |
| 206 | Pb | 0.120579 | 6.799 | 920.382 | ug/L | 205.336 |
| 169 | Tm | | | 551509.680 | ug/L | 528723.356 |
| 106 | Pd | 0.266431 | 14.098 | 47.333 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 100.180 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 100.354 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 101.486 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 104.310 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 100.354 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 101.486 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 104.310 |
| Pd | 106 | |

**Sample ID: CCV 13**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 23:54:32
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCV 13.094
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1015369.648 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 520185.235 | ug/L | 533211.627 |
| 9 | Be | 98.047136 | 0.961 | 32095.089 | ug/L | 5.667 |
| 27 | Al | 4946.952127 | 0.469 | 24290243.560 | ug/L | 21656.102 |
| 44 | Ca | 4991.978884 | 0.653 | 1283690.023 | ug/L | 13691.705 |
| 51 | V | 100.057838 | 0.616 | 983913.746 | ug/L | -25351.494 |
| 52 | Cr | 99.475580 | 0.722 | 933699.614 | ug/L | 30421.463 |
| 55 | Mn | 101.817287 | 0.219 | 1384332.265 | ug/L | 1962.553 |
| 54 | Fe | 5046.516354 | 0.308 | 3577574.555 | ug/L | 103219.336 |
| 57 | Fe | 5016.860314 | 0.858 | 1470743.337 | ug/L | 17911.054 |
| 59 | Co | 97.419963 | 0.892 | 1077749.023 | ug/L | 249.337 |
| 60 | Ni | 97.888591 | 0.597 | 230245.705 | ug/L | 115.754 |
| 65 | Cu | 97.558091 | 0.799 | 218209.293 | ug/L | 154.638 |
| 68 | Zn | 97.860558 | 0.551 | 77963.794 | ug/L | 1837.193 |
| 75 | As | 98.241899 | 0.773 | 202930.523 | ug/L | 14510.311 |
| 82 | Se | 98.317869 | 0.823 | 19064.880 | ug/L | 1393.483 |
| 97 | Mo | 198.848056 | 1.277 | 314563.021 | ug/L | 862.377 |
| 72 | Ge-1 | | | 814660.398 | ug/L | 838809.520 |
| 107 | Ag | 49.499656 | 2.123 | 384697.229 | ug/L | 204.002 |
| 111 | Cd | 99.110064 | 2.325 | 164494.214 | ug/L | 28.514 |
| 121 | Sb | 49.588655 | 1.547 | 261742.158 | ug/L | 292.338 |
| 135 | Ba | 99.992625 | 2.188 | 143027.249 | ug/L | 164.668 |
| 115 | In-1 | | | 764999.485 | ug/L | 801078.607 |
| 205 | Tl | 49.256273 | 1.015 | 737490.119 | ug/L | 2008.901 |
| 208 | Pb | 98.614456 | 0.343 | 1944632.593 | ug/L | 747.679 |
| 169 | Tm-1 | | | 519925.285 | ug/L | 528723.356 |
| 50 | Cr | 99.850615 | 3.696 | 19819.471 | ug/L | -668.039 |
| 53 | Cr | 98.038781 | 4.151 | 215609.487 | ug/L | 111230.953 |
| 61 | Ni | 96.628430 | 1.396 | 5234.380 | ug/L | 1574.397 |
| 63 | Cu | 96.948286 | 0.146 | 168985.799 | ug/L | 105.668 |
| 67 | Zn | 96.643927 | 1.504 | 8148.611 | ug/L | 1758.829 |
| 66 | Zn | 97.761010 | 1.607 | 39372.163 | ug/L | 718.083 |
| 76 | Se | 91.715088 | 32.139 | -102348.053 | ug/L | -107838.220 |
| 77 | Se | 98.588400 | 2.522 | 24487.968 | ug/L | 10703.915 |
| 78 | Se | 97.293507 | 0.732 | 59164.773 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | 112.407579 | 77.442 | 35572.893 | ug/L | 35602.642 |
| 72 | Ge | | | 814660.398 | ug/L | 838809.520 |
| 108 | Cd | 99.115783 | 3.326 | 11484.362 | ug/L | 5.075 |
| 114 | Cd | 99.009424 | 2.345 | 388717.453 | ug/L | 100.238 |
| 109 | Ag | 49.342948 | 3.085 | 131816.622 | ug/L | 64.667 |
| 115 | In | | | 764999.485 | ug/L | 801078.607 |
| 208 | 207.977 | 99.470295 | 0.676 | 997637.156 | ug/L | 390.675 |
| 207 | Pb | 98.011753 | 0.393 | 408252.041 | ug/L | 151.668 |
| 206 | Pb | 97.515215 | 0.288 | 538743.396 | ug/L | 205.336 |
| 169 | Tm | | | 519925.285 | ug/L | 528723.356 |
| 106 | Pd | 96.470961 | 0.436 | 14611.189 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 97.557 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.121 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 95.496 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 98.336 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.121 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 95.496 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 98.336 |
| Pd | 106 | |

**Sample ID: CCB 13**
Sample Description:
Batch ID:
Sample Date/Time: Monday, July 17, 2006 23:58:52
Method File: C:\elandata\Method\6193191.mth
Dataset File: C:\elandata\Dataset\060717B1\CCB 13.095
Tuning File: C:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

## Sample Result Summary

| Mass | Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|---|---|---|---|---|---|
| 45 | Sc | | | 1016829.188 | ug/L | 1057975.987 |
| 6 | Li-1 | | | 522696.463 | ug/L | 533211.627 |
| 9 | Be | 0.013515 | 89.294 | 10.000 | ug/L | 5.667 |
| 27 | Al | 0.434795 | 17.239 | 23372.175 | ug/L | 21656.102 |
| 44 | Ca | 0.412313 | 246.079 | 13521.440 | ug/L | 13691.705 |
| 51 | V | 0.358631 | 94.463 | -21175.373 | ug/L | -25351.494 |
| 52 | Cr | 0.046809 | 137.855 | 30237.159 | ug/L | 30421.463 |
| 55 | Mn | 0.011657 | 31.801 | 2082.581 | ug/L | 1962.553 |
| 54 | Fe | -2.507798 | 59.834 | 99399.580 | ug/L | 103219.336 |
| 57 | Fe | 0.615405 | 131.410 | 17731.251 | ug/L | 17911.054 |
| 59 | Co | 0.004218 | 35.618 | 291.338 | ug/L | 249.337 |
| 60 | Ni | 0.006793 | 17.193 | 129.549 | ug/L | 115.754 |
| 65 | Cu | 0.007014 | 59.832 | 167.376 | ug/L | 154.638 |
| 68 | Zn | -0.322754 | 43.627 | 1547.137 | ug/L | 1837.193 |
| 75 | As | -0.151841 | 166.475 | 13923.714 | ug/L | 14510.311 |
| 82 | Se | -0.258107 | 32.434 | 1318.579 | ug/L | 1393.483 |
| 97 | Mo | 0.059813 | 235.257 | 939.052 | ug/L | 862.377 |
| 72 | Ge-1 | | | 821989.252 | ug/L | 838809.520 |
| 107 | Ag | 0.002983 | 76.347 | 220.336 | ug/L | 204.002 |
| 111 | Cd | 0.006447 | 154.136 | 38.298 | ug/L | 28.514 |
| 121 | Sb | 0.006283 | 39.236 | 315.672 | ug/L | 292.338 |
| 135 | Ba | 0.016436 | 20.519 | 182.669 | ug/L | 164.668 |
| 115 | In-1 | | | 773183.229 | ug/L | 801078.607 |
| 205 | Tl | 0.023144 | 95.838 | 2341.318 | ug/L | 2008.901 |
| 208 | Pb | 0.008126 | 8.986 | 902.685 | ug/L | 747.679 |
| 169 | Tm-1 | | | 524142.032 | ug/L | 528723.356 |
| 50 | Cr | 0.024667 | 303.501 | -649.457 | ug/L | -668.039 |
| 53 | Cr | -2.817799 | 110.983 | 105860.767 | ug/L | 111230.953 |
| 61 | Ni | -2.140424 | 24.587 | 1460.008 | ug/L | 1574.397 |
| 63 | Cu | 0.011215 | 71.453 | 123.336 | ug/L | 105.668 |
| 67 | Zn | -0.498347 | 186.600 | 1689.790 | ug/L | 1758.829 |
| 66 | Zn | -0.264336 | 69.823 | 598.391 | ug/L | 718.083 |
| 76 | Se | -30.253103 | 196.314 | -106480.181 | ug/L | -107838.220 |
| 77 | Se | -1.558636 | 77.359 | 10263.879 | ug/L | 10703.915 |
| 78 | Se | -1.223696 | 23.731 | 15208.954 | ug/L | 16084.716 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 79 | Br | -8.029875 | 1525.807 | 34810.755 | ug/L | 35602.642 |
| 72 | Ge | | | 821989.252 | ug/L | 838809.520 |
| 108 | Cd | 0.014365 | 332.118 | 6.594 | ug/L | 5.075 |
| 114 | Cd | 0.003151 | 143.949 | 109.270 | ug/L | 100.238 |
| 109 | Ag | 0.007132 | 12.738 | 81.668 | ug/L | 64.667 |
| 115 | In | | | 773183.229 | ug/L | 801078.607 |
| 208 | 207.977 | 0.007994 | 19.046 | 468.013 | ug/L | 390.675 |
| 207 | Pb | 0.008943 | 53.959 | 188.002 | ug/L | 151.668 |
| 206 | Pb | 0.007750 | 23.812 | 246.670 | ug/L | 205.336 |
| 169 | Tm | | | 524142.032 | ug/L | 528723.356 |
| 106 | Pd | 0.004404 | 458.258 | 7.667 | ug/L | 7.000 |

## Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---|---|---|
| Sc | 45 | |
| Li-1 | 6 | 98.028 |
| Be | 9 | |
| Al | 27 | |
| Ca | 44 | |
| V | 51 | |
| Cr | 52 | |
| Mn | 55 | |
| Fe | 54 | |
| Fe | 57 | |
| Co | 59 | |
| Ni | 60 | |
| Cu | 65 | |
| Zn | 68 | |
| As | 75 | |
| Se | 82 | |
| Mo | 97 | |
| Ge-1 | 72 | 97.995 |
| Ag | 107 | |
| Cd | 111 | |
| Sb | 121 | |
| Ba | 135 | |
| In-1 | 115 | 96.518 |
| Tl | 205 | |
| Pb | 208 | |
| Tm-1 | 169 | 99.134 |
| Cr | 50 | |
| Cr | 53 | |
| Ni | 61 | |
| Cu | 63 | |
| Zn | 67 | |
| Zn | 66 | |
| Se | 76 | |
| Se | 77 | |
| Se | 78 | |
| Br | 79 | |
| Ge | 72 | 97.995 |
| Cd | 108 | |
| Cd | 114 | |
| Ag | 109 | |
| In | 115 | 96.518 |
| 207.977 | 208 | |
| Pb | 207 | |
| Pb | 206 | |
| Tm | 169 | 99.134 |
| Pd | 106 | |

# Mercury

STL Sacramento G6F290300/G6G060239 RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 07/18/06 08:34:00

**Sequence:** 17JUL06B **Date:** 07/17/06 18:00 **Analyst:** phomsophat **ICV:** _____ **CAL/CCV:** _____

| # | Sample ID | Lot No. | Batch | Matrix | Raw | DF | Result | Units | %R | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Std01Rep1 | | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:00 | | ☐ |
| 2 | Std02Rep1 | = 0.200 | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:01 | | ☐ |
| 3 | Std03Rep1 | = 0.500 | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:03 | | ☐ |
| 4 | Std04Rep1 | = 1.00 | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:05 | | ☐ |
| 5 | Std05Rep1 | = 5.00 | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:07 | | ☐ |
| 6 | Std06Rep1 | = 10.0 | | | 0.00 | 1.0 | 0.00 | ug/L | | 07/17/06 18:08 | | ☐ |
| 7 | ICV | = 2.00 | | | 1.97 | 1.0 | 1.97 | ug/L | 98.5% | 07/17/06 18:18 | | ☐ |
| 8 | ICB | | | | 0.01 | 1.0 | 0.01 | ug/L | | 07/17/06 18:20 | | ☐ |
| 9 | H9E0DB | G6G160000 | 6197510 | | 0.07 | 1.0 | 0.04 | ug/L | | 07/17/06 18:22 | | ☐ |
| 10 | H9E0DC | G6G160000 = 1.80 | 6197510 | | 1.07 | 1.0 | 0.64 | ug/L | 35.7% | 07/17/06 18:23 | 107% | ☐ |
| 11 | H9E0DL | G6G160000 = 1.80 | 6197510 | | 1.03 | 1.0 | 0.62 | ug/L | 34.3% | 07/17/06 18:25 | 103% | ☐ |
| 12 | H9E0FB | G6G160000 | 6197511 | | 0.06 | 1.0 | 0.03 | ug/L | | 07/17/06 18:27 | | ☐ |
| 13 | H9E0FC | G6G160000 = 1.80 | 6197511 | | 1.04 | 1.0 | 0.62 | ug/L | 34.7% | 07/17/06 18:29 | 104% | ☐ |
| 14 | H9E0FL | G6G160000 = 1.80 | 6197511 | | 1.08 | 1.0 | 0.65 | ug/L | 36.0% | 07/17/06 18:30 | 108% | ☐ |
| 15 | H8GKJ | G6F290300-1 Tr 7/18/06 | 6197510 | AIR | 0.17 | 1.0 | 0.10 | ug/L | Tr 7/18/06 | 07/17/06 18:32 | | ☐ |
| 16 | H8GKL | G6F290300-2 | 6197510 | AIR | 0.18 | 1.0 | 0.11 | ug/L | | 07/17/06 18:34 | | ☐ |
| 17 | H8GKM | G6F290300-3 | 6197510 | AIR | 0.22 | 1.0 | 0.13 | ug/L | | 07/17/06 18:35 | | ☐ |
| 18 | H8GKQ | G6F290300-4 | 6197510 | AIR | 0.20 | 1.0 | 0.12 | ug/L | | 07/17/06 18:37 | | ☐ |
| 19 | CCV | = 5.00 | | | 4.90 | 1.0 | 4.90 | ug/L | 98.0% | 07/17/06 18:39 | | ☐ |
| 20 | CCB | | | | 0.04 | 1.0 | 0.04 | ug/L | | 07/17/06 18:41 | | ☐ |
| 21 | H8GKR | G6F290300-5 | 6197510 | AIR | 0.22 | 1.0 | 0.13 | ug/L | | 07/17/06 18:43 | | ☐ |
| 22 | H8GKV | G6F290300-6 | 6197510 | AIR | 0.35 | 1.0 | 0.21 | ug/L | | 07/17/06 18:44 | | ☐ |
| 23 | H8GKW | G6F290300-7 | 6197510 | AIR | 0.28 | 1.0 | 0.17 | ug/L | | 07/17/06 18:46 | | ☐ |
| 24 | H8GKX | G6F290300-8 | 6197510 | AIR | 0.18 | 1.0 | 0.11 | ug/L | | 07/17/06 18:48 | | ☐ |
| 25 | H8GK1 | G6F290300-9 | 6197510 | AIR | 0.26 | 1.0 | 0.15 | ug/L | | 07/17/06 18:50 | | ☐ |
| 26 | H8GK2 | G6F290300-10 | 6197510 | AIR | 0.25 | 1.0 | 0.15 | ug/L | | 07/17/06 18:52 | | ☐ |
| 27 | H8GK4 | G6F290300-11 | 6197510 | AIR | 0.31 | 1.0 | 0.18 | ug/L | | 07/17/06 18:54 | | ☐ |
| 28 | H8GK6 | G6F290300-12 | 6197510 | AIR | 0.30 | 1.0 | 0.18 | ug/L | | 07/17/06 18:55 | | ☐ |
| 29 | H8GK7 | G6F290300-13 | 6197510 | AIR | 0.33 | 1.0 | 0.20 | ug/L | | 07/17/06 18:57 | | ☐ |
| 30 | H8GK8 | G6F290300-14 | 6197510 | AIR | 0.33 | 1.0 | 0.20 | ug/L | | 07/17/06 18:59 | | ☐ |
| 31 | CCV | = 5.00 | | | 4.80 | 1.0 | 4.80 | ug/L | 96.0% | 07/17/06 19:00 | | ☐ |
| 32 | CCB | | | | 0.15 | 1.0 | 0.15 | ug/L | | 07/17/06 19:03 | | ☐ |
| 33 | H8GLA | G6F290300-15 | 6197510 | AIR | 0.28 | 1.0 | 0.17 | ug/L | | 07/17/06 19:04 | | ☐ |
| 34 | H8QTL | G6G060239-1 | 6197511 | AIR | 0.46 | 1.0 | 0.27 | ug/L | | 07/17/06 19:06 | | ☐ |

STL Sacramento

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 07/18/06 08:34:00

**Sequence:** 17JUL06B **Date:** 07/17/06 18:00 **Analyst:** phomsophat **ICV:** _____ **CAL/CCV:** _____

| # | Sample ID | Lot No. | Batch | Matrix | Raw | DF | Result | Units | %R | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | H8QTN | G6G060239-2 | 6197511 | AIR | 0.46 | 1.0 | 0.28 | ug/L | | 07/17/06 19:08 | | ☐ |
| 36 | H8QTQ | G6G060239-3 | 6197511 | AIR | 0.43 | 1.0 | 0.26 | ug/L | | 07/17/06 19:10 | | ☐ |
| 37 | H8QTT | G6G060239-4 | 6197511 | AIR | 0.47 | 1.0 | 0.28 | ug/L | | 07/17/06 19:12 | | ☐ |
| 38 | H8QTV | G6G060239-5 | 6197511 | AIR | 0.44 | 1.0 | 0.26 | ug/L | | 07/17/06 19:13 | | ☐ |
| 39 | H8QTW | G6G060239-6 | 6197511 | AIR | 0.48 | 1.0 | 0.29 | ug/L | | 07/17/06 19:15 | | ☐ |
| 40 | H8QTX | G6G060239-7 | 6197511 | AIR | 0.36 | 1.0 | 0.22 | ug/L | | 07/17/06 19:17 | | ☐ |
| 41 | H8QT1 | G6G060239-8 | 6197511 | AIR | 0.48 | 1.0 | 0.29 | ug/L | | 07/17/06 19:19 | | ☐ |
| 42 | H8QT2 | G6G060239-9 | 6197511 | AIR | 0.72 | 1.0 | 0.43 | ug/L | | 07/17/06 19:21 | | ☐ |
| 43 | CCV | = 5.00 | | | 4.71 | 1.0 | 4.71 | ug/L | 94.2% | 07/17/06 19:23 | | ☐ |
| 44 | CCB | | | | 0.11 | 1.0 | 0.11 | ug/L | | 07/17/06 19:25 | | ☐ |
| 45 | H8QT3 | G6G060239-10 | 6197511 | AIR | 0.80 | 1.0 | 0.48 | ug/L | | 07/17/06 19:27 | | ☐ |
| 46 | H8QT5 | G6G060239-11 | 6197511 | AIR | 0.49 | 1.0 | 0.29 | ug/L | | 07/17/06 19:29 | | ☐ |
| 47 | H8QT6 | G6G060239-12 | 6197511 | AIR | 0.45 | 1.0 | 0.27 | ug/L | | 07/17/06 19:30 | | ☐ |
| 48 | H8QT7 | G6G060239-13 | 6197511 | AIR | 0.41 | 1.0 | 0.25 | ug/L | | 07/17/06 19:32 | | ☐ |
| 49 | H8QT8 | G6G060239-14 | 6197511 | AIR | 0.37 | 1.0 | 0.22 | ug/L | | 07/17/06 19:34 | | ☐ |
| 50 | H8QT9 | G6G060239-15 | 6197511 | AIR | 0.44 | 1.0 | 0.26 | ug/L | | 07/17/06 19:36 | | ☐ |
| 51 | CCV | = 5.00 | | | 4.71 | 1.0 | 4.71 | ug/L | 94.2% | 07/17/06 19:37 | | ☐ |
| 52 | CCB | | | | 0.13 | 1.0 | 0.13 | ug/L | | 07/17/06 19:39 | | ☐ |

STL Sacramento

# CALIBRATION CHECK SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 07/18/06 08:34:09

**Sequence:** 17JUL06B **Date:** 07/17/06 18:18 **Analyst:** phomsophat **ICV:** _____ **CAL/CCV:** _____

| # | Sample ID | Lot No. | Batch | Matrix | Raw | DF | Result | Units | %R | Analyzed Date | Comment | Q |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | ICV | = 2.00 | | | 1.97 | 1.0 | 1.97 | ug/L | 98.5% | 07/17/06 18:18 | | ☐ |
| 8 | ICB | | | | 0.01 | 1.0 | 0.01 | ug/L | | 07/17/06 18:20 | | ☐ |
| 19 | CCV | = 5.00 | | | 4.90 | 1.0 | 4.90 | ug/L | 98.0% | 07/17/06 18:39 | | ☐ |
| 20 | CCB | | | | 0.04 | 1.0 | 0.04 | ug/L | | 07/17/06 18:41 | | ☐ |
| 31 | CCV | = 5.00 | | | 4.80 | 1.0 | 4.80 | ug/L | 96.0% | 07/17/06 19:00 | | ☐ |
| 32 | CCB | | | | 0.15 | 1.0 | 0.15 | ug/L | | 07/17/06 19:03 | | ☐ |
| 43 | CCV | = 5.00 | | | 4.71 | 1.0 | 4.71 | ug/L | 94.2% | 07/17/06 19:23 | | ☐ |
| 44 | CCB | | | | 0.11 | 1.0 | 0.11 | ug/L | | 07/17/06 19:25 | | ☐ |
| 51 | CCV | = 5.00 | | | 4.71 | 1.0 | 4.71 | ug/L | 94.2% | 07/17/06 19:37 | | ☐ |
| 52 | CCB | | | | 0.13 | 1.0 | 0.13 | ug/L | | 07/17/06 19:39 | | ☐ |

WinHg Database 1.5

File Utility Help

Protocol STL2 Dataset/Proto 17JUL06B/STL2

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 3.15193e-4

C -4.46877e-2

Rho 999996

Type Linear

Calibrated

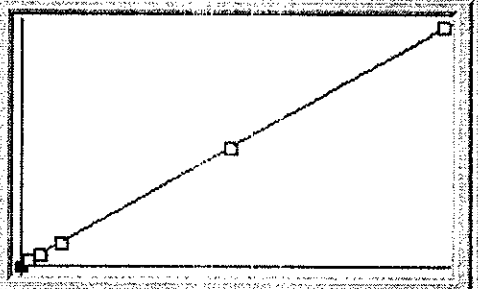
Accepted

Accept

µ Abs. 31897

Accepted

New



17-Jul-06 18:13 Conc. 10.0

Include S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

| S | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 |
|---|---|---|---|---|---|---|---|---|
| 01 | .00000 | .009 | .009 | 172 | 0 | 171 | | |
| 02 | .20000 | .209 | .009 | 806 | 0% | 805 | | |
| 03 | .50000 | .502 | .002 | 1737 | 0% | 1736 | | |
| 04 | 1.0000 | .986 | -.014 | 3271 | 0% | 3271 | | |
| 05 | 5.0000 | 4.98 | -.016 | 15955 | 0% | 15954 | | |
| 06 | 10.000 | 10.0 | .009 | 31898 | 0% | 31897 | | |

Ready CAP NUM

CHEMIST INITIAL: TP
DATE OF RUN: 7/17/06
INSTRUMENT ID.: 403
TYPE OF ANALYSIS: Hg
CALIBRATION STD.: 1767-21-15
ICV STD.: 1767-21-14
CCV STD.: 1767-21-15

***POST-RUN REPORT***

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| *** Standard: 1 Rep: 1 | | | | Seq: 1 | 18:00:14 17 Jul 06 | HG | | |
| Hg | .000 | ug/L | 171 | | | | | |
| *** Standard: 2 Rep: 1 | | | | Seq: 2 | 18:01:52 17 Jul 06 | HG | | |
| Hg | .200 | ug/L | 805 | | | | | |
| *** Standard: 3 Rep: 1 | | | | Seq: 3 | 18:03:28 17 Jul 06 | HG | | |
| Hg | .500 | ug/L | 1736 | | | | | |
| *** Standard: 4 Rep: 1 | | | | Seq: 4 | 18:05:20 17 Jul 06 | HG | | |
| Hg | 1.00 | ug/L | 3271 | | | | | |
| *** Standard: 5 Rep: 1 | | | | Seq: 5 | 18:07:00 17 Jul 06 | HG | | |
| Hg | 5.00 | ug/L | 15954 | | | | | |
| *** Standard: 6 Rep: 1 | | | | Seq: 6 | 18:08:39 17 Jul 06 | HG | | |
| Hg | 10.0 | ug/L | 31897 | | | | | |

***POST-RUN REPORT***

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Standard: 1 Rep: 1 Seq: 1 18:00:14 17 Jul 06 HG

Hg .000 ug/L 171

*** Standard: 2 Rep: 1 Seq: 2 18:01:52 17 Jul 06 HG

Hg .200 ug/L 805

*** Standard: 3 Rep: 1 Seq: 3 18:03:28 17 Jul 06 HG

Hg .500 ug/L 1736

*** Standard: 4 Rep: 1 Seq: 4 18:05:20 17 Jul 06 HG

Hg 1.00 ug/L 3271

*** Standard: 5 Rep: 1 Seq: 5 18:07:00 17 Jul 06 HG

Hg 5.00 ug/L 15954

*** Standard: 6 Rep: 1 Seq: 6 18:08:39 17 Jul 06 HG

Hg 10.0 ug/L 31897

*** Sample ID: ICV Seq: 7 18:18:37 17 Jul 06 HG

Hg 1.97 ug/L .000 % 1.97 99%

*** Sample ID: ICB Seq: 8 18:20:12 17 Jul 06 HG

Hg .011 ug/L .000 % .011

*** Sample ID: H9E0DB Seq: 9 18:22:08 17 Jul 06 HG
G6G160000-510

Hg .070 ug/L .000 % .070

*** Sample ID: H9E0DC Seq: 10 18:23:46 17 Jul 06 HG
G6G160000-510

Hg 1.07 ug/L .000 % 1.07 107%

*** Sample ID: H9E0DL Seq: 11 18:25:22 17 Jul 06 HG
G6G160000-510

Hg 1.03 ug/L .000 % 1.03 103%

*** Sample ID: H9E0FB Seq: 12 18:27:29 17 Jul 06 HG
G6G160000-511

Hg .056 ug/L .000 % .056

*** Sample ID: H9E0FC Seq: 13 18:29:07 17 Jul 06 HG
G6G160000-511

Hg 1.04 ug/L .000 % 1.04 104%

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: H9E0FL Seq: 14 18:30:47 17 Jul 06 HG
G6G160000-511
Hg 1.08 ug/L .000 % 1.08
108%

*** Sample ID: H8GKJ Seq: 15 18:32:33 17 Jul 06 HG
G6F290300-1
Hg .166 ug/L .000 % .166

*** Sample ID: H8GKL Seq: 16 18:34:10 17 Jul 06 HG
G6F290300-2
Hg .184 ug/L .000 % .184

*** Sample ID: H8GKM Seq: 17 18:35:53 17 Jul 06 HG
G6F290300-3
Hg .220 ug/L .000 % .220

*** Sample ID: H8GKQ Seq: 18 18:37:33 17 Jul 06 HG
G6F290300-4
Hg .196 ug/L .000 % .196

*** Sample ID: CCV Seq: 19 18:39:30 17 Jul 06 HG
Hg 4.90 ug/L .000 % 4.90
98%

*** Sample ID: CCB Seq: 20 18:41:29 17 Jul 06 HG
Hg .035 ug/L .000 % .035

*** Sample ID: H8GKR Seq: 21 18:43:06 17 Jul 06 HG
G6F290300-5
Hg .224 ug/L .000 % .224

*** Sample ID: H8GKV Seq: 22 18:44:54 17 Jul 06 HG
G6F290300-6
Hg .355 ug/L .000 % .355

*** Sample ID: H8GKW Seq: 23 18:46:30 17 Jul 06 HG
G6F290300-7
Hg .283 ug/L .000 % .283

*** Sample ID: H8GKX Seq: 24 18:48:18 17 Jul 06 HG
G6F290300-8
Hg .182 ug/L .000 % .182

*** Sample ID: H8GK1 Seq: 25 18:50:06 17 Jul 06 HG
G6F290300-9
Hg .256 ug/L .000 % .256

***POST-RUN REPORT***

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: H8GK2 Seq: 26 18:52:35 17 Jul 06 HG
G6F290300-10

| | | | | | |
|---|---|---|---|---|---|
| Hg | .255 | ug/L | .000 | % | .255 |

*** Sample ID: H8GK4 Seq: 27 18:54:12 17 Jul 06 HG
G6F290300-11

| | | | | | |
|---|---|---|---|---|---|
| Hg | .307 | ug/L | .000 | % | .307 |

*** Sample ID: H8GK6 Seq: 28 18:55:51 17 Jul 06 HG
G6F290300-12

| | | | | | |
|---|---|---|---|---|---|
| Hg | .303 | ug/L | .000 | % | .303 |

*** Sample ID: H8GK7 Seq: 29 18:57:28 17 Jul 06 HG
G6F290300-13

| | | | | | |
|---|---|---|---|---|---|
| Hg | .329 | ug/L | .000 | % | .329 |

*** Sample ID: H8GK8 Seq: 30 18:59:18 17 Jul 06 HG
G6F290300-14

| | | | | | |
|---|---|---|---|---|---|
| Hg | .334 | ug/L | .000 | % | .334 |

*** Sample ID: CCV Seq: 31 19:00:56 17 Jul 06 HG

| | | | | | |
|---|---|---|---|---|---|
| Hg | 4.80 | ug/L | .000 | % | 4.80 |

96%

*** Sample ID: CCB Seq: 32 19:03:06 17 Jul 06 HG

| | | | | | |
|---|---|---|---|---|---|
| Hg | .154 | ug/L | .000 | % | .154 |

*** Sample ID: H8GLA Seq: 33 19:04:54 17 Jul 06 HG
G6F290300-15

| | | | | | |
|---|---|---|---|---|---|
| Hg | .285 | ug/L | .000 | % | .285 |

*** Sample ID: H8QTL Seq: 34 19:06:32 17 Jul 06 HG
G6G060239-1

| | | | | | |
|---|---|---|---|---|---|
| Hg | .457 | ug/L | .000 | % | .457 |

*** Sample ID: H8QTN Seq: 35 19:08:24 17 Jul 06 HG
G6G060239-2

| | | | | | |
|---|---|---|---|---|---|
| Hg | .463 | ug/L | .000 | % | .463 |

*** Sample ID: H8QTQ Seq: 36 19:10:17 17 Jul 06 HG
G6G060239-3

| | | | | | |
|---|---|---|---|---|---|
| Hg | .434 | ug/L | .000 | % | .434 |

*** Sample ID: H8QTT Seq: 37 19:12:04 17 Jul 06 HG
G6G060239-4

| | | | | | |
|---|---|---|---|---|---|
| Hg | .466 | ug/L | .000 | % | .466 |

***POST-RUN REPORT***

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: H8QTV Seq: 38 19:13:52 17 Jul 06 HG
G6G060239-5
Hg .436 ug/L .000 % .436

*** Sample ID: H8QTW Seq: 39 19:15:33 17 Jul 06 HG
G6G060239-6
Hg .483 ug/L .000 % .483

*** Sample ID: H8QTX Seq: 40 19:17:14 17 Jul 06 HG
G6G060239-7
Hg .361 ug/L .000 % .361

*** Sample ID: H8QT1 Seq: 41 19:19:31 17 Jul 06 HG
G6G060239-8
Hg .476 ug/L .000 % .476

*** Sample ID: H8QT2 Seq: 42 19:21:49 17 Jul 06 HG
G6G060239-9
Hg .719 ug/L .000 % .719

*** Sample ID: CCV Seq: 43 19:23:48 17 Jul 06 HG
Hg 4.71 ug/L .000 % 4.71 94%

*** Sample ID: CCB Seq: 44 19:25:38 17 Jul 06 HG
Hg .114 ug/L .000 % .114

*** Sample ID: H8QT3 Seq: 45 19:27:27 17 Jul 06 HG
G6G060239-10
Hg .800 ug/L .000 % .800

*** Sample ID: H8QT5 Seq: 46 19:29:04 17 Jul 06 HG
G6G060239-11
Hg .490 ug/L .000 % .490

*** Sample ID: H8QT6 Seq: 47 19:30:54 17 Jul 06 HG
G6G060239-12
Hg .454 ug/L .000 % .454

*** Sample ID: H8QT7 Seq: 48 19:32:42 17 Jul 06 HG
G6G060239-13
Hg .411 ug/L .000 % .411

*** Sample ID: H8QT8 Seq: 49 19:34:19 17 Jul 06 HG
G6G060239-14
Hg .374 ug/L .000 % .374

***POST-RUN REPORT***

| Line | Conc. | Units | SD/RSD | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|

*** Sample ID: H8QT9 Seq: 50 19:36:03 17 Jul 06 HG
G6G060239-15

| | | | | | |
|---|---|---|---|---|---|
| Hg | .441 | ug/L | .000 | % | .441 |

=

*** Sample ID: CCV Seq: 51 19:37:51 17 Jul 06 HG

| | | | | | |
|---|---|---|---|---|---|
| Hg | 4.71 | ug/L | .000 | % | 4.71 |

94%

=

*** Sample ID: CCB Seq: 52 19:39:32 17 Jul 06 HG

| | | | | | |
|---|---|---|---|---|---|
| Hg | .130 | ug/L | .000 | % | .130 |

=

STL Sacramento
Hg Data Review Checklist

SEVERN TRENT STL

**Run Date:** 7/17/06 **Analyst:** TP **Instrument** H03

**Prep Batches Run:** 6197510/6197511

**Circle Methods Used:** **7470A / 245.1** **7471 / 245.5**

| A. Calibration/Instrument Run QC | Yes | No | N/A | 2ndLevel |
|---|---|---|---|---|
| 1. Instrument calibrated per manufacturer's instructions and at SOP specified levels? | ✓ | | | ✓ |
| 2. ICV/CCV analyzed at appropriate frequency and within control limits? | ✓ | | | ✓ |
| 3. ICB/CCB analyzed at appropriate frequency and within ± RL? | ✓ | | | ✓ |
| B. Sample Results | | | | |
| 1. Were samples with concentrations > the high calibration standard diluted and reanalyzed? | | | ✓ | ✓ |
| 2. All reported results bracketed by in control QC? | ✓ | | | ✓ |
| 3. Sample analyses done within holding time? | ✓ | | | ✓ |
| C. Preparation/Matrix QC | | | | |
| 1. LCS done per prep batch and within QC limits? | ✓ | | | ✓ |
| 2. Method blank done per prep batch and < RL? | ✓ | | | ✓ |
| 3. MS run at required frequency and within limits? | | | ✓ | ✓ |
| 4. MSD or DU run at required frequency and RPD within SOP limits? | | | ✓ | ✓ |
| D. Other | | | | |
| 1. Are all nonconformances documented appropriately? | | | ✓ | ✓ |
| 2. Current IDL/MDL data on file? | ✓ | | | ✓ |
| 3. Calculations and transcriptions checked for error? | ✓ | | | ✓ |
| 4. All client / project specific requirements met? | ✓ | | | ✓ |
| 5. Date of analysis verified as correct? | ✓ | | | ✓ |

Analyst: TP Date: 7/18/06

Comments:

2nd Level Reviewer: MSK Date: 7/18/06

Comments:

q:\forms\checklists\qa-506_hg_review.doc

*QA-506 Hg Review*
*ERS 7/13/04*

# Sample Preparation Log

# STL SACRAMENTO
## Metals - Air Toxics - Preparation Log

**Date:** 13-Jul-06 **Analyst:** merrittn **Matrix:** AIR

**Fraction:** Filter **SOP:** **Method:** ICPMS

| LOT ID | | Workorder | | Volume Received | Volume Removed | Initial Prep Volume | Final Prep Volume | Batch | Prep Factor |
|---|---|---|---|---|---|---|---|---|---|
| G6G130000 | 461 | H87HNB | 2A | NA | NA | NA | 100 | 6194461 | 1.2 |
| G6G130000 | 461 | H87HNC | 2A | NA | NA | NA | 100 | 6194461 | 1.2 |
| G6G130000 | 461 | H87HNL | 2A | NA | NA | NA | 100 | 6194461 | 1.2 |
| G6G060239 | 1 | H8QTL | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 2 | H8QTN | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 3 | H8QTQ | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 4 | H8QTT | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 5 | H8QTV | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 6 | H8QTW | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 7 | H8QTX | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 8 | H8QT1 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 9 | H8QT2 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 10 | H8QT3 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 11 | H8QT5 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 12 | H8QT6 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 13 | H8QT7 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 14 | H8QT8 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| G6G060239 | 15 | H8QT9 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |
| MB-control | 1 | F1815158 | 2A | 9 | 0.75 | 0.75 | 100 | 6194461 | 1.2 |

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

# STL Sacramento
# Metals Preparation Spiking
# Documentation Form

SEVERN TRENT STL

Lot # G6G060239

Batch Number: 6194461 Method: 6020 Spiked Date: 07/13/06

MS Run #: N/A Prep Code: 2A Hot Plate Microwave ID: 4

Analyst Initial/Date: 07/13/06 NM Witness Initial/Date: OS 07/13/06 Hot Plate Temp: 90

| Check If Used | Bottle Name | Elements | Stock Concentration (mg/L) | Tracking Number | LCS/DCS Volume Spiked | MS/SD Volume Spiked | Expiration Date |
|---|---|---|---|---|---|---|---|
| | ICP Part 1 5% $HNO_3$ | Ca, Mg<br>Al, As, Ba, Se, Sn, Tl<br>Fe,Mo,Ti<br>Sb,Co,Pb,Mn,Ni,V,Zn<br>Cu<br>Cr<br>,Be,Cd<br>Ag | 5,000<br>200<br>100<br>50<br>25<br>20<br>5<br>5 | | | | |
| | ICP Part 2 2% $HNO_3$ | K,Na<br>P,S<br>B,Li,Sr | 5,000<br>1,000<br>100 | | | | |
| | Si H20/Tr HF | Si | 1,000 | | 07/13/06 NA | | |
| | XCAL-45 5% $HNO_3$ | Al,K,Mg,Ca,Na,Fe,P,B,Si<br>As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, Li Sn,Sr,Ti<br>Sb,Ag,Tl | 50<br>10<br>2.5 | 1774-Met7-8 | 2.0mL | N/A | 11/07 |
| | Misc. Elements | | | | 07/13/06 NA | | |

Prep Reagents:

| Check If Used | Reagent | Supplier | Lot Number | Check If Used | Reagent | Supplier | Lot Number |
|---|---|---|---|---|---|---|---|
| | 70% $HNO_3$ | Mallinckrodt | C16035 | | 30% $H_2O_2$ | Mallinckrodt | |
| | 37% HCl | Mallinckrodt | | | 49% HF | Fisher | |

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

# STL SACRAMENTO
## Metals - Air Toxics - Preparation Log

**Date:** 13-Jul-06 **Analyst:** merrittn **Matrix:** AIR

**Fraction:** Filter **SOP:** **Method:** ICPTRACE

| LOT ID | | Workorder | | Volume Received | Volume Removed | Initial Prep Volume | Final Prep Volume | Batch | Prep Factor |
|---|---|---|---|---|---|---|---|---|---|
| G6G130000 | 464 | H87JAB | 2A | NA | NA | NA | 100 | 6194464 | 1.2 |
| G6G130000 | 464 | H87JAC | 2A | NA | NA | NA | 100 | 6194464 | 1.2 |
| G6G130000 | 464 | H87JAL | 2A | NA | NA | NA | 100 | 6194464 | 1.2 |
| G6G060239 | 1 | H8QTL | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 2 | H8QTN | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 3 | H8QTQ | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 4 | H8QTT | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 5 | H8QTV | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 6 | H8QTW | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 7 | H8QTX | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 8 | H8QT1 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 9 | H8QT2 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 10 | H8QT3 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 11 | H8QT5 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 12 | H8QT6 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 13 | H8QT7 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 14 | H8QT8 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| G6G060239 | 15 | H8QT9 | 2A | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |
| Mbcontrol | 1 | F1815158 | | 9 | 0.75 | 0.75 | 100 | 6194464 | 1.2 |

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

Page 1 of 1
QA-372B mlt 02/20/03

# STL Sacramento
# Metals Preparation Spiking Documentation Form

SEVERN TRENT STL

Lot # G6G060239

Batch Number: 6194464 Method: 6010 Spiked Date: 07/13/06

MS Run #: N/A Prep Code: 2A Hot Plate Microwave ID: 4

Analyst Initial/Date: 07/13/06 Witness Initial/Date: os 07/13/06 Hot Plate Temp: 90

| Check If Used | Bottle Name | Elements | Stock Concentration (mg/L) | Tracking Number | LCS/DCS Volume Spiked | MS/SD Volume Spiked | Expiration Date |
|---|---|---|---|---|---|---|---|
| | ICP Part 1 5% $HNO_3$ | Ca, Mg<br>Al, As, Ba, Se, Sn, Tl<br>Fe,Mo,Ti<br>Sb,Co,Pb,Mn,Ni,V,Zn<br>Cu<br>Cr<br>,Be,Cd<br>Ag | 5,000<br>200<br>100<br>50<br>25<br>20<br>5<br>5 | 1774-Met | 1.0 mL | N/A | 11/06 |
| | ICP Part 2 2% $HNO_3$ | K,Na<br>P,S<br>B,Li,Sr | 5,000<br>1,000<br>100 | 1774-Met | 1.0 mL | N/A | 11/06 |
| | Si H20/Tr HF | Si | 1,000 | | | | |
| | XCAL-45 5% $HNO_3$ | Al,K,Mg,Ca,Na,Fe,P,B,Si<br>As,Be,Cd,Cr,Co,Cu,Pb,<br>Mn,Mo,Ni,Se,U,V,Zn,Ba,<br>Li,Sn,Sr,Tl<br>Sb,Ag,Tl | 50<br>10<br>2.5 | | | | |
| | Misc. Elements | | | | 07/13/06 | NI | |

Prep Reagents:

| Check If Used | Reagent | Supplier | Lot Number | Check If Used | Reagent | Supplier | Lot Number |
|---|---|---|---|---|---|---|---|
| | 70% $HNO_3$ | Mallinckrodt | C16035 | | 30% $H_2O_2$ | Mallinckrodt | |
| | 37% HCl | Mallinckrodt | | | 49% HF | Fisher | 07/13/06 NI |

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

# STL Sacramento
## Mercury Sample Preparation Log

| STL Lot Number | WO # | pH | Matrix | Wt/Vol | Final Vol. |
|---|---|---|---|---|---|
| 0 | Std1Rep1 | <2 | AQUEOUS | 50 | 50 |
| 0.2 | Std2Rep1 | <2 | AQUEOUS | 50 | 50 |
| 0.5 | Std3Rep1 | <2 | AQUEOUS | 50 | 50 |
| 1 | Std4Rep1 | <2 | AQUEOUS | 50 | 50 |
| 5 | Std5Rep1 | <2 | AQUEOUS | 50 | 50 |
| 10 | Std6Rep1 | <2 | AQUEOUS | 50 | 50 |
| ICV | ICV | <2 | AQUEOUS | 50 | 50 |
| ICB | ICB | <2 | AQUEOUS | 50 | 50 |
| G6G160000-510 | H9E0DB | N/A | AQUEOUS | 50 | 50 |
| G6G160000-510 | H9E0DC | N/A | AQUEOUS | 50 | 50 |
| G6G160000-510 | H9E0DL | N/A | AQUEOUS | 50 | 50 |
| G6F290300-1 | H8GKJ | N/A | AIR | 0.75 | 50 |
| G6F290300-2 | H8GKL | N/A | AIR | 0.75 | 50 |
| G6F290300-3 | H8GKM | N/A | AIR | 0.75 | 50 |
| G6F290300-4 | H8GKQ | N/A | AIR | 0.75 | 50 |
| G6F290300-5 | H8GKR | N/A | AIR | 0.75 | 50 |
| G6F290300-6 | H8GKV | N/A | AIR | 0.75 | 50 |
| G6F290300-7 | H8GKW | N/A | AIR | 0.75 | 50 |
| G6F290300-8 | H8GKX | N/A | AIR | 0.75 | 50 |
| G6F290300-9 | H8GK1 | N/A | AIR | 0.75 | 50 |
| G6F290300-10 | H8GK2 | N/A | AIR | 0.75 | 50 |
| G6F290300-11 | H8GK4 | N/A | AIR | 0.75 | 50 |
| G6F290300-12 | H8GK6 | N/A | AIR | 0.75 | 50 |
| G6F290300-13 | H8GK7 | N/A | AIR | 0.75 | 50 |
| G6F290300-14 | H8GK8 | N/A | AIR | 0.75 | 50 |
| G6F290300-15 | H8GLA | N/A | AIR | 0.75 | 50 |
| G6G160000-511 | H9E0FB | N/A | AQUEOUS | 50 | 50 |
| G6G160000-511 | H9E0FC | N/A | AQUEOUS | 50 | 50 |
| G6G160000-511 | H9E0FL | N/A | AQUEOUS | 50 | 50 |
| G6G060239-1 | H8QTL | N/A | AIR | 0.75 | 50 |
| G6G060239-2 | H8QTN | N/A | AIR | 0.75 | 50 |
| G6G060239-3 | H8QTQ | N/A | AIR | 0.75 | 50 |
| G6G060239-4 | H8QTT | N/A | AIR | 0.75 | 50 |
| G6G060239-5 | H8QTV | N/A | AIR | 0.75 | 50 |
| G6G060239-6 | H8QTW | N/A | AIR | 0.75 | 50 |
| G6G060239-7 | H8QTX | N/A | AIR | 0.75 | 50 |
| G6G060239-8 | H8QT1 | N/A | AIR | 0.75 | 50 |
| G6G060239-9 | H8QT2 | N/A | AIR | 0.75 | 50 |

| | | | |
|---|---|---|---|
| **Chemist:** | Phomsophat | **Date:** | 07/13/06 |
| **SOP#:** | SAC-MT-0005 | | |
| **Autoclave: Start Time:** | 14:00 | | 15:00 |
| **Balance ID:** | QA-007 | | |
| **STANDARDS:** | | | |
| **Initial Calibration Standard (ICV)** | | | |
| Tracking#1767-21-14 | | Conc: | 100ppb |
| **Calibration Stds./CCV/Matrix Spike/LCSW** | | | |
| Tracking#1767-21-15 | | Conc: | 100ppb |

| | |
|---|---|
| ***SOILS (0.6g/50ml)*** | |
| ***WATER (30/30ml) , DI Leach (30/30)*** | |
| ***STLC (3/30 ml) , TCLP (6/30ml)*** | |
| Curve/QC (ppb) | Spike Volume |
| Conc | Waters/Soils |
| 0.0 | 0.0 ul/0.0ul |
| 0.2 | 60 ul/100ul |
| 0.5 | 150 ul/250ul |
| 1.0 | 300 ul/0.5ml |
| 5.0 | 1.5 ml/2.5ml |
| 10.0 | 3.0 ml/5.0ml |
| CCV/5.0 | 1.5 ml/2.5ml |
| LCS/1.0 | 300 ul/0.5ml |
| MS/SD(1.0 H20)(3.0 soils) | 300 ul/1.5ml |
| ICV/2.0 | 600 ul/1.0ml |
| **REAGENTS:** | |
| HNO3 Lot#: C16035 | |
| HCl Lot# C07001 | |
| KMnO4 Lot#: 2626-Met-46-3 | |
| K2S2O8 Lot#: 2626-met-46-2 | |
| NaCl(NH2OH)2626-MET-46-1 | |
| Stannous Chloride Lot#2626-49-1 | |
| H2S04 Lot#C06073 | |

QA392 Rev.2/21/2003

# STL Sacramento
## Mercury Sample Preparation Log

| STL Lot Number | WO # | pH | Matrix | Wt/Vol | Final Vol. | Chemist: | Phomsophat | Date: | 07/13/06 |
|---|---|---|---|---|---|---|---|---|---|
| G6G060239-10 | H8QT3 | N/A | AIR | 0.75 | 50 | | | | |
| G6G060239-11 | H8QT5 | N/A | AIR | 0.75 | 50 | | | | |
| G6G060239-12 | H8QT6 | N/A | AIR | 0.75 | 50 | | | | |
| G6G060239-13 | H8QT7 | N/A | AIR | 0.75 | 50 | | | | |
| G6G060239-14 | H8QT8 | N/A | AIR | 0.75 | 50 | | | | |
| G6G060239-15 | H8QT9 | N/A | AIR | 0.75 | 50 | | | | |
| CCV | CCV | N/A | AQUEOUS | 50 | 50 | | | | |
| CCB | CCB | N/A | AQUEOUS | 50 | 50 | | | | |
| CCV | CCV | N/A | AQUEOUS | 50 | 50 | | | | |
| CCB | CCB | N/A | AQUEOUS | 50 | 50 | | | | |
| CCV | CCV | N/A | AQUEOUS | 50 | 50 | | | | |
| CCB | CCB | N/A | AQUEOUS | 50 | 50 | | | | |

Untitled Dataset
Serial Number - M10399
User ID - merrit
Temperature
°C
122.2
102.1
81.96
61.84
41.72
21.6
3:13:43 PM
Jul 13, 2006
7:56:07 PM
Jul 13, 2006
12:38:31 AM
Jul 14, 2006
5:20:55 AM
Jul 14, 2006
10:03:19 AM
Jul 14, 2006
2:45:43 PM
Jul 14, 2006

| | |
|---|---|
| **Device Name:** | HiTemp102 |
| **Device Description:** | Temperature Recorder |
| **Serial Number:** | M10399 |
| **User ID:** | merrit |

| Reading Number | Date and Time | Channel 1 Temperature (°C) |
|---|---|---|
| 1 | 2006-07-13 15:13:43 | 27.4 |
| 2 | 2006-07-13 15:14:43 | 27.8 |
| 3 | 2006-07-13 15:15:43 | 27.8 |
| 4 | 2006-07-13 15:16:43 | 27.9 |
| 5 | 2006-07-13 15:17:43 | 27.9 |
| 6 | 2006-07-13 15:18:43 | 27.9 |
| 7 | 2006-07-13 15:19:43 | 28 |
| 8 | 2006-07-13 15:20:43 | 28 |
| 9 | 2006-07-13 15:21:43 | 28.1 |
| 10 | 2006-07-13 15:22:43 | 28.2 |
| 11 | 2006-07-13 15:23:43 | 28.2 |
| 12 | 2006-07-13 15:24:43 | 28.3 |
| 13 | 2006-07-13 15:25:43 | 28.4 |
| 14 | 2006-07-13 15:26:43 | 28.5 |
| 15 | 2006-07-13 15:27:43 | 28.5 |
| 16 | 2006-07-13 15:28:43 | 28.6 |
| 17 | 2006-07-13 15:29:43 | 28.6 |
| 18 | 2006-07-13 15:30:43 | 28.7 |
| 19 | 2006-07-13 15:31:43 | 28.7 |
| 20 | 2006-07-13 15:32:43 | 28.7 |
| 21 | 2006-07-13 15:33:43 | 28.8 |
| 22 | 2006-07-13 15:34:43 | 28.9 |
| 23 | 2006-07-13 15:35:43 | 28.9 |
| 24 | 2006-07-13 15:36:43 | 29 |
| 25 | 2006-07-13 15:37:43 | 29 |
| 26 | 2006-07-13 15:38:43 | 29.2 |
| 27 | 2006-07-13 15:39:43 | 29.2 |
| 28 | 2006-07-13 15:40:43 | 29.2 |
| 29 | 2006-07-13 15:41:43 | 29.3 |
| 30 | 2006-07-13 15:42:43 | 29.4 |
| 31 | 2006-07-13 15:43:43 | 29.6 |
| 32 | 2006-07-13 15:44:43 | 30 |
| 33 | 2006-07-13 15:45:43 | 32.4 |
| 34 | 2006-07-13 15:46:43 | 42.9 |
| 35 | 2006-07-13 15:47:43 | 59.4 |
| 36 | 2006-07-13 15:48:43 | 75.4 |
| 37 | 2006-07-13 15:49:43 | 88.9 |
| 38 | 2006-07-13 15:50:43 | 99.8 |
| 39 | 2006-07-13 15:51:43 | 107.2 |
| 40 | 2006-07-13 15:52:43 | 111.4 |
| 41 | 2006-07-13 15:53:43 | 114.2 |
| 42 | 2006-07-13 15:54:43 | 116.2 |
| 43 | 2006-07-13 15:55:43 | 117.4 |
| 44 | 2006-07-13 15:56:43 | 118 |
| 45 | 2006-07-13 15:57:43 | 118.4 |

| | | |
|---|---|---|
| 46 | 2006-07-13 15:58:43 | 119.3 |
| 47 | 2006-07-13 15:59:43 | 119.8 |
| 48 | 2006-07-13 16:00:43 | 120.1 |
| 49 | 2006-07-13 16:01:43 | 120.3 |
| 50 | 2006-07-13 16:02:43 | 120.5 |
| 51 | 2006-07-13 16:03:43 | 120.6 |
| 52 | 2006-07-13 16:04:43 | 120.8 |
| 53 | 2006-07-13 16:05:43 | 120.9 |
| 54 | 2006-07-13 16:06:43 | 121.1 |
| 55 | 2006-07-13 16:07:43 | 121.2 |
| 56 | 2006-07-13 16:08:43 | 121.4 |
| 57 | 2006-07-13 16:09:43 | 121.5 |
| 58 | 2006-07-13 16:10:43 | 121.6 |
| 59 | 2006-07-13 16:11:43 | 121.7 |
| 60 | 2006-07-13 16:12:43 | 121.9 |
| 61 | 2006-07-13 16:13:43 | 122 |
| 62 | 2006-07-13 16:14:43 | 122 |
| 63 | 2006-07-13 16:15:43 | 122.2 |
| 64 | 2006-07-13 16:16:43 | 122.2 |
| 65 | 2006-07-13 16:17:43 | 121.3 |
| 66 | 2006-07-13 16:18:43 | 119.1 |
| 67 | 2006-07-13 16:19:43 | 116.6 |
| 68 | 2006-07-13 16:20:43 | 114.1 |
| 69 | 2006-07-13 16:21:43 | 111.9 |
| 70 | 2006-07-13 16:22:43 | 109.9 |
| 71 | 2006-07-13 16:23:43 | 108 |
| 72 | 2006-07-13 16:24:43 | 106.3 |

# AIR, PM-10 & TSP

QC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 7/14/06
Time: 16:30:54

STL Sacramento

PRODUCTION FIGURES - WET CHEM

| TOTAL NUMBER | SAMPLE NUMBER | QC | RE-RUN MATRIX | RE-RUN OTHER | MISC NUMBER | TOTAL HOURS | EXPANDED DELIVERABLE |
|---|---|---|---|---|---|---|---|

METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)
QC BATCH #: **6195488** INITIALS: SV DATA ENTRY: DL
PREP DATE: 7/08/06 11:35 PREP SV INITIALS DL
COMP DATE: 7/09/06 11:40 ANAL SV DATE 7/14/06
USER: VALMORES

| Work Order | Lab Number | Structured Analysis | Exp. Del. | Analysis Date | Sample ID: |
|---|---|---|---|---|---|
| 3QTL-1-AA | G-6G060239-001 | XX S 88 JR 01 | Y-D | 7/9/06 | P-0691 |
| 3QTN-1-AD | G-6G060239-002 | XX S 88 JR 01 | Y-D | | P-0692 |
| 3QTQ-1-AD | G-6G060239-003 | XX S 88 JR 01 | Y-D | | P-0693 |
| 3QTT-1-AD | G-6G060239-004 | XX S 88 JR 01 | Y-D | | P-0694 |
| 3QTV-1-AD | G-6G060239-005 | XX S 88 JR 01 | Y-D | | P-0695 |
| 3QTW-1-AD | G-6G060239-006 | XX S 88 JR 01 | Y-D | | P-0696 |
| 3QTX-1-AD | G-6G060239-007 | XX S 88 JR 01 | Y-D | | P-0697 |

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

## PARTICULATE ANALYSIS

### LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6G060239 - 1 -> 7 Batch #: 6195488

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 7/14/06 ANALYST: [illegible]

| LEVEL 1 ANALYSIS REVIEW | YES | NO | NA |
|---|---|---|---|
| 1. Samples are in good condition. | ✓ | | |
| 2. Sample filter number matches the folder or petri ID number. | ✓ | | |
| 3. Desiccator temperature and % humidity criteria in control. | ✓ | | |
| 4. Balance calibration criteria met. | ✓ | | |
| 5. Beginning and ending calibration sample bracket weights are in calibration. | ✓ | | |
| 6. Samples reached stable weight. | ✓ | | |
| 7. Samples exceeded 5 consecutive final weighings. | | | ✓ |

| LEVEL 1 DATA REVIEW | YES | NO | NA |
|---|---|---|---|
| 1. Benchsheet is complete. | ✓ | | |
| 2. QAS or QAPP consulted and followed for client specifics. | ✓ | | |
| 3. Data entered in properly. | ✓ | | |
| 4. Copy of spreadsheet or logbook raw data entry attached to data package. | ✓ | | |
| 5. Analyst observations, HTV's, Anomalies properly documented and attached to data package. | ✓ | | |

Completed By & Date: DV 7/14/06

| LEVEL 2 REVIEW: | YES | NO | NA |
|---|---|---|---|
| 1. Level 1 checklist complete and verified. | ✓ | | |
| 2. Deviations, Anomalies, Holding times checked and approved. | ✓ | | |
| 3. Reanalysis documented and chemist notified. | | | ✓ |
| 4. Client specific criteria met. | ✓ | | |
| 5. Data entry checked and released in Quantims. | ✓ | | |
| 6. Indication on benchsheet or spreadsheet on review and released (dated & signed). | ✓ | | |

Completed By & Date: GR 7/25/06

Comments: [illegible]

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

| Lab ID | Filter ID | Initial Weight (g) date/time initials | Initial Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Wt of Particulate (g) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 g wt | 5.0004 060806skv1548 | 5.0000 060906skv0942 | 5.0003 070806skv1106 | 5.0003 070906skv1135 | | | | | 0.0003 |
| H8GK4 | pmbc060806-686 | 4.4993 060806skv1614 | 4.4998 060906skv0943 | 4.5299 070806skv1106 | 4.5296 070906skv1135 | | | | | 0.0298 |
| H8GK6 | pmbc060806-687 | 4.5045 060806skv1614 | 4.5049 060906skv0943 | 4.5336 070806skv1107 | 4.5338 070906skv1135 | | | | | 0.0289 |
| H8GK7 | pmbc060806-688 | 4.5129 060806skv1615 | 4.5134 060906skv0944 | 4.5465 070806skv1107 | 4.5470 070906skv1135 | | | | | 0.0336 |
| H8GK8 | pmbc060806-689 | 4.5054 060806skv1615 | 4.5058 060906skv0944 | 4.5301 070806skv1107 | 4.5301 070906skv1136 | | | | | 0.0243 |
| H8GLA | pmbc060806-690 | 4.5189 060806skv1615 | 4.5190 060906skv0945 | 4.5184 070806skv1108 | 4.5189 070906skv1136 | | | | | -0.0001 |
| H8QTL | pmbc060806-691 | 4.4911 060806skv1616 | 4.4906 060906skv0946 | 4.5343 070806skv1108 | 4.5346 070906skv1137 | | | | | 0.0440 |
| H8QTN | pmbc060806-692 | 4.5111 060806skv1616 | 4.5106 060906skv0946 | 4.5598 070806skv1109 | 4.5602 070906skv1137 | | | | | 0.0496 |
| H8QTQ | pmbc060806-693 | 4.5219 060806skv1616 | 4.5219 060906skv0947 | 4.5660 070806skv1109 | 4.5659 070906skv1138 | | | | | 0.0440 |
| H8QTT | pmbc060806-694 | 4.5249 060806skv1617 | 4.5244 060906skv0947 | 4.5751 070806skv1109 | 4.5756 070906skv1138 | | | | | 0.0512 |
| H8QTV | pmbc060806-695 | 4.5191 060806skv1617 | 4.5189 060906skv0948 | 4.5592 070806skv1110 | 4.5597 070906skv1138 | | | | | 0.0408 |
| | 5 g wt | 5.0004 060806skv1618 | 5.0003 060906skv0949 | 5.0004 070806skv1111 | 5.0004 070906skv1139 | | | | | 0.0001 |
| H8QTW | pmbc060806-696 | 4.5317 060806skv1618 | 4.5317 060906skv0950 | 4.5726 070806skv1111 | 4.5729 070906skv1139 | | | | | 0.0412 |
| H8QTX | pmbc060806-697 | 4.5229 060806skv1618 | 4.5229 060906skv0950 | 4.5652 070806skv1111 | 4.5647 070906skv1139 | | | | | 0.0418 |
| | pmbc060806-698 | 4.5261 060806skv1619 | 4.5262 060906skv0951 | | | | | | | NC |

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Reviewed by: 7/25/06

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

| Lab ID | Filter ID | Initial Weight (g) date/time initials | Initial Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Wt of Particulate (g) |
|---|---|---|---|---|---|---|---|---|---|---|
| | pmbc060806-699 | 4.5305 060806skv1619 | 4.5303 060906skv0951 | | | | | | | NC |
| | pmbc060806-700 | 4.5378 060806skv1619 | 4.5383 060906skv0952 | | | | | | | NC |
| | 5 g wt | 5.0005 060806skv1620 | 5.0000 060906skv0952 | 5.0001 070806skv1112 | 5.0003 070906skv1140 | | | | | 0.0003 |

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Reviewed by: 7/25/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6195488**

Date 7/27/2006
Time 14:58:41

Method Code: **JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)**
Analyst: **Steve Valmores**

| Work Order | Result | Units | LDL/Dil | Prep. - Anal. | Total Solids | PSRL Flag | R/R | Rounded Result | Output LDL | Dil. |
|---|---|---|---|---|---|---|---|---|---|---|
| H8QTL-1-AA | 0.0440 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0440 | 0.0001 | 1.00 |
| H8QTN-1-AD | 0.0496 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0496 | 0.0001 | 1.00 |
| H8QTQ-1-AD | 0.0440 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0440 | 0.0001 | 1.00 |
| H8QTT-1-AD | 0.0512 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0512 | 0.0001 | 1.00 |
| H8QTV-1-AD | 0.0408 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0408 | 0.0001 | 1.00 |
| H8QTW-1-AD | 0.0412 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0412 | 0.0001 | 1.00 |
| H8QTX-1-AD | 0.0418 | g | 0.0001 | 07/08-07/09/06 | .00 | N | R | 0.0418 | 0.0001 | 1.00 |

**Notes:**

PRODUCTION TOTALS

| TEST | TOTAL # | SAMPLE # | QC # | MATRIX # | OTHER # | MISC # | HOURS |
|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | .0 |

QC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 7/14/06
Time: 16:32:31

STL Sacramento

PRODUCTION FIGURES - WET CHEM

| TOTAL NUMBER | SAMPLE NUMBER | QC | RE-RUN MATRIX | RE-RUN OTHER | MISC NUMBER | TOTAL HOURS | EXPANDED DELIVERABLE |
|---|---|---|---|---|---|---|---|

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
QC BATCH #: **6195483**
PREP DATE: 7/08/06 10:45
COMP DATE: 7/10/06 12:18
USER: VALMORES

INITIALS:
PREP
ANAL

DATA ENTRY:
INITIALS
DATE 7/14/06

| Work Order | Lab Number | Structured Analysis | Exp. Del. | Analysis Date | Sample ID: |
|---|---|---|---|---|---|
| 8QT1-1-AA | G-6G060239-008 | XX S 88 AO 3W | Y-D | 7/10/06 | 000516 |
| 8QT2-1-AD | G-6G060239-009 | XX S 88 AO 3W | Y-D | | 000517 |
| 8QT3-1-AF | G-6G060239-010 | XX S 88 AO 3W | Y-D | | 000518 |
| 8QT5-1-AF | G-6G060239-011 | XX S 88 AO 3W | Y-D | | 000519 |
| 8QT6-1-A2 | G-6G060239-012 | XX S 88 AO 3W | Y-D | | 000520 |
| 8QT7-1-AF | G-6G060239-013 | XX S 88 AO 3W | Y-D | | 000521 |
| 8QT8-1-AF | G-6G060239-014 | XX S 88 AO 3W | Y-D | | 000522 |
| 8QT9-1-AF | G-6G060239-015 | XX S 88 AO 3W | Y-D | | 000523 |

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

## PARTICULATE ANALYSIS

### LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6G060239 - 8 - 15 Batch #: 6195483

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 7/14/01 ANALYST: S Valmores

| LEVEL 1 ANALYSIS REVIEW | YES | NO | NA |
|---|---|---|---|
| 1. Samples are in good condition. | ✓ | | |
| 2. Sample filter number matches the folder or petri ID number. | ✓ | | |
| 3. Desiccator temperature and % humidity criteria in control. | ✓ | | |
| 4. Balance calibration criteria met. | ✓ | | |
| 5. Beginning and ending calibration sample bracket weights are in calibration. | ✓ | | |
| 6. Samples reached stable weight. | ✓ | | |
| 7. Samples exceeded 5 consecutive final weighings. | | | ✓ |
| **LEVEL 1 DATA REVIEW** | | | |
| 1. Benchsheet is complete. | ✓ | | |
| 2. QAS or QAPP consulted and followed for client specifics. | ✓ | | |
| 3. Data entered in properly. | ✓ | | |
| 4. Copy of spreadsheet or logbook raw data entry attached to data package. | ✓ | | |
| 5. Analyst observations, HTV's, Anomalies properly documented and attached to data package. | | | ✓ |

Completed By & Date: SV 7/14/06

| LEVEL 2 REVIEW: | YES | NO | NA |
|---|---|---|---|
| 1. Level 1 checklist complete and verified. | ✓ | | |
| 2. Deviations, Anomalies, Holding times checked and approved. | ✓ | | |
| 3. Reanalysis documented and chemist notified. | | | ✓ |
| 4. Client specific criteria met. | ✓ | | |
| 5. Data entry checked and released in Quantims. | ✓ | | |
| 6. Indication on benchsheet or spreadsheet on review and released (dated & signed). | ✓ | | |

Completed By & Date: BL 7/25/06

Comments: dos 28 1B

Severn Trent Laboratories
AIR TOXICS GRAVIMETRIC ANALYSES

WEST SACRAMENTO

| Lab ID | Filter ID | Initial Weight (g) date/time initials | Initial Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Wt of Particulate (g) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 5 g wt | 5.0004 060806skv1531 | 5.0000 060906sv0924 | 5.0000 070806skv1045 | 5.0004 071006skv\1212 | | | | | 0.0004 |
| H8GKM | bctsp060806-511 | 4.4906 060806skv1532 | 4.4902 060906sv0924 | 4.5336 070806skv1045 | 4.5334 071006skv\1212 | | | | | 0.0432 |
| H8GKQ | bctsp060806-512 | 4.5160 060806skv1532 | 4.5164 060906sv0925 | 4.5813 070806skv1048 | 4.5809 071006skv\1213 | | | | | 0.0645 |
| H8GKR | bctsp060806-513 | 4.4878 060806skv1532 | 4.4875 060906sv0926 | 4.5534 070806skv1049 | 4.5537 071006skv\1213 | | | | | 0.0662 |
| H8GKV | bctsp060806-514 | 4.4525 060806skv1533 | 4.4520 060906sv0926 | 4.5407 070806skv1049 | 4.5407 071006skv\1213 | | | | | 0.0887 |
| H8GKW | bctsp060806-515 | 4.4553 060806skv1534 | 4.4548 060906sv0927 | 4.4539 070806skv1050 | 4.4543 071006skv\1214 | | | | | -0.0005 |
| H8QT1 | bctsp060806-516 | 4.4827 060806skv1534 | 4.4822 060906sv0928 | 4.5913 070806skv1050 | 4.5918 071006skv\1214 | | | | | 0.1096 |
| H8QT2 | bctsp060806-517 | 4.4835 060806skv1534 | 4.4835 060906sv0928 | 4.5962 070806skv1050 | 4.5965 071006skv\1214 | | | | | 0.1130 |
| H8QT3 | bctsp060806-518 | 4.4646 060806skv1535 | 4.4644 060906sv0929 | 4.5383 070806skv1051 | 4.5388 071006skv\1215 | | | | | 0.0744 |
| H8QT5 | bctsp060806-519 | 4.5148 060806skv1536 | 4.5144 060906sv0929 | 4.6149 070806skv1051 | 4.6145 071006skv\1215 | | | | | 0.1001 |
| H8QT6 | bctsp060806-520 | 4.5140 060806skv1536 | 4.5135 060906sv0929 | 4.5906 070806skv1052 | 4.5907 071006skv\1216 | | | | | 0.0772 |
| | 5 g wt | 5.0004 060806skv1536 | 4.9999 060906sv0931 | 5.0004 070806skv1052 | 5.0004 071006skv\1216 | | | | | 0.0005 |
| H8QT7 | bctsp060806-521 | 4.4995 060806skv1537 | 4.4990 060906sv0933 | 4.5890 070806skv1055 | 4.5889 071006skv\1216 | | | | | 0.0899 |
| H8QT8 | bctsp060806-522 | 4.4955 060806skv1537 | 4.4950 060906sv0934 | 4.4950 070806skv1055 | 4.4954 071006skv\1217 | | | | | 0.0004 |
| H8QT9 | bctsp060806-523 | 4.4924 060806skv1537 | 4.4927 060906sv0934 | 4.4906 070806skv1056 | 4.4911 071006skv\1217 | | | | | -0.0016 |

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Reviewed by: 7/25/06

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

| Lab ID | Filter ID | Initial Weight (g) date/time initials | Initial Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Final Weight (g) date/time initials | Wt of Particulate (g) |
|---|---|---|---|---|---|---|---|---|---|---|
| | bctsp060806-524 | 4.4527 060806skv1538 | 4.4530 060906sv0935 | | | | | | | NC |
| | bctsp060806-525 | 4.4657 060806skv1538 | 4.4662 060906sv0935 | | | | | | | NC |
| | 5 g wt | 5.0005 060806skv1539 | 5.0000 060906sv0936 | 5.0002 070806skv1057 | 5.0005 071006skv\1218 | | | | | 0.0005 |

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Reviewed by: GBL 7/25/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6195483**

Date 7/25/2006
Time 9:14:30

Method Code: **AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst: **Steve Valmores**

| Work Order | Result | Units | LDL/Dil | Prep. - Anal. | Total Solids | PSRL Flag | R/R | Rounded Result | Output LDL | Dil. |
|---|---|---|---|---|---|---|---|---|---|---|
| H8QT1-1-AA | 0.1096 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.1096 | 0.0001 | 1.00 |
| H8QT2-1-AD | 0.1130 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.1130 | 0.0001 | 1.00 |
| H8QT3-1-AF | 0.0744 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.0744 | 0.0001 | 1.00 |
| H8QT5-1-AF | 0.1001 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.1001 | 0.0001 | 1.00 |
| H8QT6-1-A2 | 0.0772 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.077 | 0.00010 | 1.00 |
| H8QT7-1-AF | 0.0899 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.0899 | 0.0001 | 1.00 |
| H8QT8-1-AF | 0.0004 | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | 0.0004 | 0.0001 | 1.00 |
| H8QT9-1-AF | ND | g | 0.0001 | 07/08-07/10/06 | .00 | N | R | ND | 0.0001 | 1.00 |

Notes:

PRODUCTION TOTALS

| TEST | TOTAL # | SAMPLE # | QC # | MATRIX # | OTHER # | MISC # | HOURS |
|---|---|---|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | .0 |