SEVERN TRENT STL

STL Sacramento
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June 21, 2006

STL SACRAMENTO PROJECT NUMBER: G6E260199
PO/CONTRACT: 129682.001/Event 80

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 May 26, 2006. These samples are associated with your Event 80 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

TABLE OF CONTENTS

STL SACRAMENTO PROJECT NUMBER G6E260199

Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

AIR, Metals - Various Methods
Samples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

AIR, PM-10
Samples: 1, 2, 3, 4, 5, 6
AIR, TSP
Samples: 7, 8, 9, 10, 11, 12, 13
- Sample Data Sheet

Raw Data Package

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6E260199

AIR, TSP
The final weight for sample 000472 was less than the initial weight so this result was reported as 'ND'.

There were no other 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 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
G6E260199

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
H590D	1	P-0637	5/22/2006 10:00 AM	5/26/2006 09:05 AM
H590F	2	P-0638	5/22/2006 10:25 AM	5/26/2006 09:05 AM
H590J	3	P-0639	5/22/2006 10:40 AM	5/26/2006 09:05 AM
H590K	4	P-0641	5/22/2006 11:20 AM	5/26/2006 09:05 AM
H590N	5	P-0642	5/22/2006 11:30 AM	5/26/2006 09:05 AM
H590R	6	P-0643	5/22/2006 10:05 AM	5/26/2006 09:05 AM
H590T	7	000466	5/22/2006 10:10 AM	5/26/2006 09:05 AM
H590X	8	000467	5/22/2006 10:30 AM	5/26/2006 09:05 AM
H5900	9	000468	5/22/2006 10:45 AM	5/26/2006 09:05 AM
H5901	10	000469	5/22/2006 11:10 AM	5/26/2006 09:05 AM
H5902	11	000470	5/22/2006 11:25 AM	5/26/2006 09:05 AM
H5903	12	000471	5/22/2006 11:35 AM	5/26/2006 09:05 AM
H5904	13	000472	5/22/2006 10:15 AM	5/26/2006 09:05 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

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☐ 4425 W. Spring Mountain Road / Suite 225
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702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 5[illegible]
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	SAMPLING METHOD	DEPTH (FT.) BEGIN ---- END	PID READING (ppm)
01	P-0637	5/22/06	10:00	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)					----	
02	P-0638		10:25		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
03	P-0639		10:40		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
04	~~P-0640~~		~~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)~~					~~----~~	
05	P-0641		11:20		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
06	P-0642		11:30		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
07	P-0643		10:05		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
08														----	
09														----	
10														----	

MS

COLLECTED & RELEASED BY: Marie Thompson	DATE 5/22/06	TIME 16:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Chong Vue	DATE 5/22/06	TIME 11:10	RELINQUISHED BY:	DATE / /	TIME :	
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FED EX			SHIPPING NUMBER: 7914952B598			

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.

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. _____

Event 80

☒ 3264 Goni Road / Suite 153
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☐ 201 East Washington Street / Suite 5[illegible]
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

YERA000160

G6E260199

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	SAMPLING METHOD	DEPTH (FT.) BEGIN - - - - END	PID READING (ppm)
01	-000466	5/26/06	10:10	MS	1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)			—		----	
02	-000467		10:30		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
03	-000468		10:45		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
04	-000469		11:10		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
05	-000470		11:25		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
06	-000471		11:35		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
07	-000472		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)			—		----	
08														----	
09														----	
10														----	

COLLECTED & RELEASED BY: Marie Sherman	DATE 5/26/06	TIME 1600	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Cheng [illegible]	DATE 5/26/06	TIME 11:10	RELINQUISHED BY:	DATE / /	TIME :	
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FED EX			SHIPPING NUMBER: 7414 9527 3598			

dW

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.

STL Sacramento (916) 373 - 5600

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LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT Brown & Caldwell PM KD LOG # 39092

LOT# (QUANTIMS ID) G6E260199 QUOTE# 62654 LOCATION AC

	Initials	Date
DATE RECEIVED 5/26/06 TIME RECEIVED 0905	DV	5/26/06

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

CUSTODY SEAL STATUS [ ] INTACT [ ] BROKEN [x] N/A

CUSTODY SEAL #(S) _____

SHIPPPING CONTAINER(S) [ ] STL [x] CLIENT [ ] N/A

TEMPERTURE RECORD (IN °C) IR 1 [ ] 3 [ ] [ ] OTHER N/A

COC #(S) _____

TEMPERATURE BLANK Observed:_____ Corrected:_____

SAMPLE TEMPERATURE

Observed:_____ ambient Average:_____ Corrected Average:_____

COLLECTOR'S NAME: [ ] Verified from COC [x] Not on COC

pH MEASURED [ ] YES [ ] ANOMALY [x] N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW _____ [x] NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM [x] N/A

VOA-ENCORES [x] N/A

[ ] METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL [x] N/A

[x] COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES [ ] N/A

[ ] Clouseau [ ] TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 [x] 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.

G6E260199 SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL N/A ENTRIES. STL Sacramento (916) 373-5600 QA-185 3/05 EM, Page 1 6 of 280

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Bottle Lot Inventory

Lot ID: G6E260199

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter	/	/	/	/	/	/	/	/	/	/	/	/	/							
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

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

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

QA-185 3/05 EM

Page 2

AIR, Metals – Various Methods

Brown and Caldwell

Client Sample ID: P-0637

TOTAL Metals

Lot-Sample #...: G6E260199-001 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.027 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AH**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590D1AJ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590D1AK
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.013 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AL**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H590D1AM
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590D1AN
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590D1AP
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**27.7**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AQ**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**16.2**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AR**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590D1AT
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590D1AU
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.3**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AV**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590D1AW
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.5 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590D1AX**
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: P-0637

TOTAL Metals

Lot-Sample #...: G6E260199-001 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**7.1 B**	**24.0**	**ug**	**SW846 6020**	**06/02-06/07/06**	**H590D1A0**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**424 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590D1AC**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**948 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590D1AD**
		Dilution Factor: 1		MDL.....: 898		
Iron	**418**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590D1AE**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**302 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590D1AF**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590D1AG
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.050 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H590D1A1**
		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-0638

TOTAL Metals

Lot-Sample #...: G6E260199-002 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.047 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590F1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590F1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.025 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.070 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AP**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590F1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590F1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**20.9**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**15.0**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590F1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590F1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.0 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590F1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.4 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590F1A1**
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: P-0638

TOTAL Metals

Lot-Sample #...: G6E260199-002 Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	6.4 B	24.0	ug	SW846 6020	06/02-06/07/06	H590F1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	381 J	240	ug	SW846 6010B	06/02-06/10/06	H590F1AE
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	898 B	3000	ug	SW846 6010B	06/02-06/10/06	H590F1AF
		Dilution Factor: 1		MDL.....: 898		
Iron	376	120	ug	SW846 6010B	06/02-06/10/06	H590F1AG
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	273 B	600	ug	SW846 6010B	06/02-06/10/06	H590F1AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590F1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	0.055 B,J	0.12	ug	SW846 7471A	06/07-06/08/06	H590F1AC
		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-0639

TOTAL Metals

Lot-Sample #...: G6E260199-003 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.037 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590J1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590J1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.013 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.083 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AP**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590J1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590J1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**39.3**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**17.8**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590J1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590J1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.6**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590J1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.7 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590J1A1**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0639

TOTAL Metals

Lot-Sample #...: G6E260199-003 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**7.9 B**	**24.0**	**ug**	**SW846 6020**	**06/02-06/07/06**	**H590J1AA**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**486 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590J1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**1060 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590J1AF**
		Dilution Factor: 1		MDL.....: 898		
Iron	**510**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590J1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**335 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590J1AH**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590J1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.041 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H590J1AC**
		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-0641

TOTAL Metals

Lot-Sample #...: G6E260199-004 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.023 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590K1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590K1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.0092 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.061 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AP**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590K1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590K1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**29.3**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**15.4**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590K1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590K1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.1 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590K1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.6 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590K1A1**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0641

TOTAL Metals

Lot-Sample #...: G6E260199-004 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	06/02-06/07/06	H590K1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**425 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590K1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**916 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590K1AF**
		Dilution Factor: 1		MDL.....: 898		
Iron	**504**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590K1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**302 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590K1AH**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590K1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.062 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H590K1AC**
		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-0642

TOTAL Metals

Lot-Sample #...: G6E260199-005 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.021 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590N1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590N1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.011 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H590N1AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590N1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590N1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**22.9**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**14.2**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590N1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590N1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.0 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590N1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.3 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590N1A1**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0642

TOTAL Metals

Lot-Sample #...: G6E260199-005 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	06/02-06/07/06	H590N1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**437 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590N1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**985 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590N1AF**
		Dilution Factor: 1		MDL.....: 898		
Iron	**432**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590N1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**283 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590N1AH**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590N1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.068 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H590N1AC**
		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-0643

TOTAL Metals

Lot-Sample #...: G6E260199-006 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.029 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590R1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590R1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.013 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H590R1AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590R1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590R1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**36.9**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**14.3**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590R1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590R1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.7**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590R1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**4.5 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590R1A1**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0643

TOTAL Metals

Lot-Sample #...: G6E260199-006 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**6.2 B**	**24.0**	**ug**	**SW846 6020**	**06/02-06/07/06**	**H590R1AA**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**446 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590R1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**918 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590R1AF**
		Dilution Factor: 1		MDL.....: 898		
Iron	**441**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590R1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**300 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H590R1AH**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H590R1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.098 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H590R1AC**
		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: 000466

TOTAL Metals

Lot-Sample #...: G6E260199-007 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.10 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AH**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590T1AJ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590T1AK
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.044 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AL**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.11 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AM**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590T1AN
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590T1AP
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**207**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AQ**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**42.0**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AR**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590T1AT
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590T1AU
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**2.8**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AV**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590T1AW
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**6.5 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590T1AX**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000466

TOTAL Metals

Lot-Sample #...: G6E260199-007 Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	14.0 B	24.0	ug	SW846 6020	06/02-06/07/06	H590T1A0
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	1190 J	240	ug	SW846 6010B	06/02-06/10/06	H590T1AC
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	1980 B	3000	ug	SW846 6010B	06/02-06/10/06	H590T1AD
		Dilution Factor: 1		MDL.....: 898		
Iron	1320	120	ug	SW846 6010B	06/02-06/10/06	H590T1AE
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	789	600	ug	SW846 6010B	06/02-06/10/06	H590T1AF
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	2370 B	6000	ug	SW846 6010B	06/02-06/10/06	H590T1AG
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	0.13 J	0.12	ug	SW846 7471A	06/07-06/08/06	H590T1A1
		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: 000467

TOTAL Metals

Lot-Sample #...: G6E260199-008 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.065 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590X1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H590X1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.029 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AN**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.10 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AP**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590X1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H590X1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**134**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**39.6**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590X1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H590X1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**2.0**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H590X1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**5.9 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H590X1A1**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000467

TOTAL Metals

Lot-Sample #...: G6E260199-008 Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	11.7 B	24.0	ug	SW846 6020	06/02-06/07/06	H590X1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	1030 J	240	ug	SW846 6010B	06/02-06/10/06	H590X1AE
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	1630 B	3000	ug	SW846 6010B	06/02-06/10/06	H590X1AF
		Dilution Factor: 1		MDL.....: 898		
Iron	1080	120	ug	SW846 6010B	06/02-06/10/06	H590X1AG
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	641	600	ug	SW846 6010B	06/02-06/10/06	H590X1AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	2320 B	6000	ug	SW846 6010B	06/02-06/10/06	H590X1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	0.082 B,J	0.12	ug	SW846 7471A	06/07-06/08/06	H590X1AC
		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: 000468

TOTAL Metals

Lot-Sample #...: G6E260199-009 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.075 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AM**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59001AN
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H59001AP
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.024 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AQ**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.065 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AR**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59001AT
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59001AU
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**165**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AV**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**24.1**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AW**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59001AX
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59001A0
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**3.8**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001A1**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59001AA
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**5.4 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59001AC**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000468

TOTAL Metals

Lot-Sample #...: G6E260199-009 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**11.1 B**	**24.0**	**ug**	**SW846 6020**	**06/02-06/07/06**	**H59001AD**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**664 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59001AG**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**1170 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59001AH**
		Dilution Factor: 1		MDL.....: 898		
Iron	**804**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59001AJ**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**465 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59001AK**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H59001AL
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.072 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H59001AE**
		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: 000469

TOTAL Metals

Lot-Sample #...: G6E260199-010 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.082 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AP**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59011AQ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H59011AR
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.022 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AT**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.058 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AU**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59011AV
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59011AW
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**174**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AX**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**22.6**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011A0**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59011A1
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59011AA
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.3**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AC**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59011AD
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**5.1 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59011AE**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000469

TOTAL Metals

Lot-Sample #...: G6E260199-010 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**13.8 B**	**24.0**	**ug**	**SW846 6020**	**06/02-06/07/06**	**H59011AF**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**647 J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59011AJ**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	**1100 B**	**3000**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59011AK**
		Dilution Factor: 1		MDL.....: 898		
Iron	**764**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59011AL**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**450 B**	**600**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59011AM**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H59011AN
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.045 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H59011AG**
		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: 000470

TOTAL Metals

Lot-Sample #...: G6E260199-011 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.039 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AP**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59021AQ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H59021AR
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.029 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AT**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.15 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AU**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59021AV
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59021AW
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**130**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AX**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**28.9**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021A0**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59021A1
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59021AA
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.6**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AC**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	**1.7 B**	**3.6**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AD**
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**5.0 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59021AE**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000470

TOTAL Metals

Lot-Sample #...: G6E260199-011 Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	11.0 B	24.0	ug	SW846 6020	06/02-06/07/06	H59021AF
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	685 J	240	ug	SW846 6010B	06/02-06/10/06	H59021AJ
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	1400 B	3000	ug	SW846 6010B	06/02-06/10/06	H59021AK
		Dilution Factor: 1		MDL.....: 898		
Iron	1090	120	ug	SW846 6010B	06/02-06/10/06	H59021AL
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	521 B	600	ug	SW846 6010B	06/02-06/10/06	H59021AM
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	2070 B	6000	ug	SW846 6010B	06/02-06/10/06	H59021AN
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	0.087 B,J	0.12	ug	SW846 7471A	06/07-06/08/06	H59021AG
		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: 000471

TOTAL Metals

Lot-Sample #...: G6E260199-012 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	**0.053 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AP**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59031AQ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H59031AR
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	**0.054 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AT**
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.10 B**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AU**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59031AV
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59031AW
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**109**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AX**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**38.3**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031A0**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	**1.4 B**	**6.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031A1**
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59031AA
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**2.2**	**1.2**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AC**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59031AD
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**5.9 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59031AE**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000471

TOTAL Metals

Lot-Sample #...: G6E260199-012 Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	15.7 B	24.0	ug	SW846 6020	06/02-06/07/06	H59031AF
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	1150 J	240	ug	SW846 6010B	06/02-06/10/06	H59031AJ
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	1820 B	3000	ug	SW846 6010B	06/02-06/10/06	H59031AK
		Dilution Factor: 1		MDL.....: 898		
Iron	1250	120	ug	SW846 6010B	06/02-06/10/06	H59031AL
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	713	600	ug	SW846 6010B	06/02-06/10/06	H59031AM
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	6220	6000	ug	SW846 6010B	06/02-06/10/06	H59031AN
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	0.084 B,J	0.12	ug	SW846 7471A	06/07-06/08/06	H59031AG
		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: 000472

TOTAL Metals

Lot-Sample #...: G6E260199-013 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6153232						
Silver	ND	1.2	ug	SW846 6020	06/02-06/05/06	H59041AP
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59041AQ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H59041AR
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H59041AT
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H59041AU
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59041AV
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H59041AW
		Dilution Factor: 1		MDL.....: 10.3		
Copper	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59041AX
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59041A0
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59041A1
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H59041AA
		Dilution Factor: 1		MDL.....: 3.5		
Lead	ND	1.2	ug	SW846 6020	06/02-06/05/06	H59041AC
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H59041AD
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	**3.2 B,J**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H59041AE**
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000472

TOTAL Metals

Lot-Sample #...: G6E260199-013 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	06/02-06/07/06	H59041AF
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6153233						
Aluminum	**90.1 B,J**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59041AJ**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	06/02-06/10/06	H59041AK
		Dilution Factor: 1		MDL.....: 898		
Iron	**22.0 B**	**120**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H59041AL**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	06/02-06/10/06	H59041AM
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H59041AN
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6159320						
Mercury	**0.024 B,J**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H59041AG**
		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

G6E260199

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
002	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
003	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
004	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
005	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
006	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
007	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
008	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
009	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
010	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
011	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	

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QC DATA ASSOCIATION SUMMARY

G6E260199

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
012	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	
013	AIR	SW846 6020		6153232	
	AIR	SW846 7471A		6159320	
	AIR	SW846 6010B		6153233	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6E260199 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: G6F020000-232 **Prep Batch #...:** 6153232						
Arsenic	ND	3.6	ug	SW846 6020	06/02-06/05/06	H6LDR1AC
		Dilution Factor: 1				
Barium	ND	120	ug	SW846 6020	06/02-06/05/06	H6LDR1AD
		Dilution Factor: 1				
Beryllium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H6LDR1AE
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	06/02-06/05/06	H6LDR1AF
		Dilution Factor: 1				
Chromium	ND	12.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AH
		Dilution Factor: 1				
Cobalt	ND	12.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AG
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AJ
		Dilution Factor: 1				
Lead	ND	1.2	ug	SW846 6020	06/02-06/05/06	H6LDR1AN
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AK
		Dilution Factor: 1				
Molybdenum	ND	6.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AL
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	06/02-06/05/06	H6LDR1AM
		Dilution Factor: 1				
Selenium	ND	3.6	ug	SW846 6020	06/02-06/05/06	H6LDR1AP
		Dilution Factor: 1				
Silver	ND	1.2	ug	SW846 6020	06/02-06/05/06	H6LDR1AA
		Dilution Factor: 1				
Vanadium	**3.4 B**	**12.0**	**ug**	**SW846 6020**	**06/02-06/05/06**	**H6LDR1AQ**
		Dilution Factor: 1				
Zinc	ND	24.0	ug	SW846 6020	06/02-06/07/06	H6LDR1AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6E260199 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: G6F020000-233 **Prep Batch #...:** 6153233						
Aluminum	**86.8 B**	**240**	**ug**	**SW846 6010B**	**06/02-06/10/06**	**H6LD11AA**
		Dilution Factor: 1				
Calcium	ND	3000	ug	SW846 6010B	06/02-06/10/06	H6LD11AC
		Dilution Factor: 1				
Iron	ND	120	ug	SW846 6010B	06/02-06/10/06	H6LD11AD
		Dilution Factor: 1				
Magnesium	ND	600	ug	SW846 6010B	06/02-06/10/06	H6LD11AE
		Dilution Factor: 1				
Sodium	ND	6000	ug	SW846 6010B	06/02-06/10/06	H6LD11AF
		Dilution Factor: 1				
MB Lot-Sample #: G6F080000-320 **Prep Batch #...:** 6159320						
Mercury	**0.026 B**	**0.12**	**ug**	**SW846 7471A**	**06/07-06/08/06**	**H605P1AA**
		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 #...: G6E260199 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic	240	209	ug	87		SW846 6020	06/02-06/05/06	6153232
	240	212	ug	88	1.2	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Barium	240	229	ug	96		SW846 6020	06/02-06/05/06	6153232
	240	233	ug	97	1.6	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Beryllium	240	215	ug	90		SW846 6020	06/02-06/05/06	6153232
	240	223	ug	93	3.4	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Cadmium	240	215	ug	89		SW846 6020	06/02-06/05/06	6153232
	240	218	ug	91	1.7	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Chromium	240	234	ug	97		SW846 6020	06/02-06/05/06	6153232
	240	238	ug	99	1.8	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Cobalt	240	234	ug	97		SW846 6020	06/02-06/05/06	6153232
	240	239	ug	100	2.3	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Copper	240	225	ug	94		SW846 6020	06/02-06/05/06	6153232
	240	228	ug	95	1.4	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Lead	240	225	ug	94		SW846 6020	06/02-06/05/06	6153232
	240	232	ug	97	3.0	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Manganese	240	235	ug	98		SW846 6020	06/02-06/05/06	6153232
	240	242	ug	101	2.6	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Molybdenum	240	227	ug	95		SW846 6020	06/02-06/05/06	6153232
	240	231	ug	96	1.7	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6E260199 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nickel	240	231	ug	96		SW846 6020	06/02-06/05/06	6153232
	240	233	ug	97	0.70	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Selenium	240	206	ug	86		SW846 6020	06/02-06/05/06	6153232
	240	210	ug	88	2.2	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Silver	60.0	55.3	ug	92		SW846 6020	06/02-06/05/06	6153232
	60.0	56.8	ug	95	2.6	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Vanadium	240	228	ug	95		SW846 6020	06/02-06/05/06	6153232
	240	231	ug	96	1.5	SW846 6020	06/02-06/05/06	6153232
			Dilution Factor: 1					
Zinc	240	225	ug	94		SW846 6020	06/02-06/07/06	6153232
	240	226	ug	94	0.43	SW846 6020	06/02-06/07/06	6153232
			Dilution Factor: 1					
Aluminum	2400	2510	ug	104		SW846 6010B	06/02-06/10/06	6153233
	2400	2540	ug	106	1.3	SW846 6010B	06/02-06/10/06	6153233
			Dilution Factor: 1					
Calcium	60000	59600	ug	99		SW846 6010B	06/02-06/10/06	6153233
	60000	60200	ug	100	0.91	SW846 6010B	06/02-06/10/06	6153233
			Dilution Factor: 1					
Iron	1200	1230	ug	102		SW846 6010B	06/02-06/10/06	6153233
	1200	1280	ug	106	3.8	SW846 6010B	06/02-06/10/06	6153233
			Dilution Factor: 1					
Magnesium	60000	60100	ug	100		SW846 6010B	06/02-06/10/06	6153233
	60000	60700	ug	101	0.93	SW846 6010B	06/02-06/10/06	6153233
			Dilution Factor: 1					
Sodium	60000	58000	ug	97		SW846 6010B	06/02-06/10/06	6153233
	60000	58400	ug	97	0.66	SW846 6010B	06/02-06/10/06	6153233
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6E260199 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Mercury	0.600	0.578	ug	96		SW846 7471A	06/07-06/08/06	6159320
	0.600	0.612	ug	102	5.7	SW846 7471A	06/07-06/08/06	6159320

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 #...: G6E260199 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Arsenic	87	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	88	(75 - 125)	1.2	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Barium	96	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	97	(75 - 125)	1.6	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Beryllium	90	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	93	(75 - 125)	3.4	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Cadmium	89	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	91	(75 - 125)	1.7	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Chromium	97	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	99	(75 - 125)	1.8	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Cobalt	97	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	100	(75 - 125)	2.3	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Copper	94	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	95	(75 - 125)	1.4	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Lead	94	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	97	(75 - 125)	3.0	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Manganese	98	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	101	(75 - 125)	2.6	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Molybdenum	95	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	96	(75 - 125)	1.7	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: G6E260199 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Nickel	96	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	97	(75 - 125)	0.70	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Selenium	86	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	88	(75 - 125)	2.2	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Silver	92	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	95	(75 - 125)	2.6	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Vanadium	95	(75 - 125)			SW846 6020	06/02-06/05/06	6153232
	96	(75 - 125)	1.5	(0-20)	SW846 6020	06/02-06/05/06	6153232
		Dilution Factor: 1					
Zinc	94	(75 - 125)			SW846 6020	06/02-06/07/06	6153232
	94	(75 - 125)	0.43	(0-20)	SW846 6020	06/02-06/07/06	6153232
		Dilution Factor: 1					
Aluminum	104	(75 - 125)			SW846 6010B	06/02-06/10/06	6153233
	106	(75 - 125)	1.3	(0-20)	SW846 6010B	06/02-06/10/06	6153233
		Dilution Factor: 1					
Calcium	99	(75 - 125)			SW846 6010B	06/02-06/10/06	6153233
	100	(75 - 125)	0.91	(0-20)	SW846 6010B	06/02-06/10/06	6153233
		Dilution Factor: 1					
Iron	102	(75 - 125)			SW846 6010B	06/02-06/10/06	6153233
	106	(75 - 125)	3.8	(0-20)	SW846 6010B	06/02-06/10/06	6153233
		Dilution Factor: 1					
Magnesium	100	(75 - 125)			SW846 6010B	06/02-06/10/06	6153233
	101	(75 - 125)	0.93	(0-20)	SW846 6010B	06/02-06/10/06	6153233
		Dilution Factor: 1					
Sodium	97	(75 - 125)			SW846 6010B	06/02-06/10/06	6153233
	97	(75 - 125)	0.66	(0-20)	SW846 6010B	06/02-06/10/06	6153233
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: G6E260199 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Mercury	96	(75 - 125)			SW846 7471A	06/07-06/08/06	6159320
	102	(75 - 125)	5.7	(0-20)	SW846 7471A	06/07-06/08/06	6159320

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-0637

General Chemistry

Lot-Sample #...: G6E260199-001 Work Order #...: H590D Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0212	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: P-0638

General Chemistry

Lot-Sample #...: G6E260199-002 Work Order #...: H590F Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0201	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: P-0639

General Chemistry

Lot-Sample #...: G6E260199-003 Work Order #...: H590J Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0245	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: P-0641

General Chemistry

Lot-Sample #...: G6E260199-004 Work Order #...: H590K Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0252	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: P-0642

General Chemistry

Lot-Sample #...: G6E260199-005 Work Order #...: H590N Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0412	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: P-0643

General Chemistry

Lot-Sample #...: G6E260199-006 Work Order #...: H590R Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0091	0.0001	g	CFR50J APDX J	06/01-06/02/06	6153432

Brown and Caldwell

Client Sample ID: 000466

General Chemistry

Lot-Sample #...: G6E260199-007 Work Order #...: H590T Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0890	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000467

General Chemistry

Lot-Sample #...: G6E260199-008 Work Order #...: H590X Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0695	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000468

General Chemistry

Lot-Sample #...: G6E260199-009 Work Order #...: H5900 Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0496	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000469

General Chemistry

Lot-Sample #...: G6E260199-010 Work Order #...: H5901 Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0483	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000470

General Chemistry

Lot-Sample #...: G6E260199-011 Work Order #...: H5902 Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0492	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000471

General Chemistry

Lot-Sample #...: G6E260199-012 Work Order #...: H5903 Matrix.....: AIR
Date Sampled...: 05/22/06 Date Received..: 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0870	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

Brown and Caldwell

Client Sample ID: 000472

General Chemistry

Lot-Sample #...: G6E260199-013 **Work Order #...:** H5904 **Matrix.....:** AIR
Date Sampled...: 05/22/06 **Date Received..:** 05/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	ND	0.0001	g	CFR50B APDX B	06/01-06/02/06	6153431

AIR, Metals – Various Methods

Raw Data Package

ICPMS

G6E260199

STL Sacramento

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 06/10/06 14:36:26

File ID: JUN1006AX.csv **Analyst: WONGA**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	06/10/06 12:03		☐
2	Calib_Std_1				1.0	06/10/06 12:07		☐
3	Calib_Std_2				1.0	06/10/06 12:09		☐
4	ICV4				1.0	06/10/06 12:13		☐
5	ICB				1.0	06/10/06 12:15		☐
6	PQL				1.0	06/10/06 12:19		☐
7	ICSA				1.0	06/10/06 12:23		☐
8	ICSAB_4.0				1.0	06/10/06 12:25		☐
9	FB181515				1.0	06/10/06 12:32		☐
10	H6LD1B	G6F020000	6153233	2A	1.0	06/10/06 12:35		☐
11	H6LD1C	G6F020000	6153233	2A	1.0	06/10/06 12:39		☐
12	H6LD1L	G6F020000	6153233	2A	1.0	06/10/06 12:42		☐
13	H590D	G6E260199-1	6153233	2A	1.0	06/10/06 12:45		☐
14	H590DP5	G6E260199	6153233		5.0	06/10/06 12:49		☐
15	H590DZ	G6E260199-1	6153233		1.0	06/10/06 12:53		☐
16	CCV				1.0	06/10/06 12:56		☐
17	CCB				1.0	06/10/06 12:58		☐
18	H590F	G6E260199-2	6153233	2A	1.0	06/10/06 13:02		☐
19	H590J	G6E260199-3	6153233	2A	1.0	06/10/06 13:05		☐
20	H590K	G6E260199-4	6153233	2A	1.0	06/10/06 13:09		☐
21	H590N	G6E260199-5	6153233	2A	1.0	06/10/06 13:13		☐
22	H590R	G6E260199-6	6153233	2A	1.0	06/10/06 13:16		☐
23	H590T	G6E260199-7	6153233	2A	1.0	06/10/06 13:20		☐
24	H590X	G6E260199-8	6153233	2A	1.0	06/10/06 13:23		☐
25	H5900	G6E260199-9	6153233	2A	1.0	06/10/06 13:27		☐
26	H5901	G6E260199-10	6153233	2A	1.0	06/10/06 13:31		☐
27	H5902	G6E260199-11	6153233	2A	1.0	06/10/06 13:34		☐
28	CCV				1.0	06/10/06 13:38		☐
29	CCB				1.0	06/10/06 13:40		☐
30	H5903	G6E260199-12	6153233	2A	1.0	06/10/06 13:43		☐
31	H5904	G6E260199-13	6153233	2A	1.0	06/10/06 13:47		☐
32	CCV				1.0	06/10/06 13:54		☐
33	CCB				1.0	06/10/06 13:56		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 06/10/06 14:36:26

File ID: JUN1006AX.csv **Analyst: WONGA**

#	Sample ID	Analyzed Date	In Axial	In Radial	Sc Axial	Sc Radial	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_	06/10/06 12:03	0.0	0.0	0.0	0.0	0.0	0.0	☑
2	Calib Std 1	06/10/06 12:07	0.0	0.0	0.0	0.0	0.0	0.0	☑
3	Calib Std 2	06/10/06 12:09	0.0	0.0	0.0	0.0	0.0	0.0	☑
4	ICV4	06/10/06 12:13	98.7	98.3	98.6	97.0	97.8	96.9	☑
5	ICB	06/10/06 12:15	104.0	99.9	103.2	97.4	103.1	97.5	☑
6	PQL	06/10/06 12:19	103.9	100.5	103.0	96.7	103.1	96.9	☑
7	ICSA	06/10/06 12:23	81.0	84.5	88.0	86.1	87.5	86.8	☑
8	ICSAB_4.0	06/10/06 12:25	80.2	85.7	86.6	87.2	86.0	87.8	☑
9	FB181515	06/10/06 12:32	103.7	103.0	102.9	101.7	102.8	101.9	☑
10	H6LD1B	06/10/06 12:35	106.8	103.9	105.6	101.3	105.6	101.3	☑
11	H6LD1C	06/10/06 12:39	95.0	100.4	98.2	97.0	97.4	96.3	☑
12	H6LD1L	06/10/06 12:42	98.1	99.7	98.7	97.2	97.8	96.2	☑
13	H590D	06/10/06 12:45	106.9	105.0	105.7	104.8	105.3	104.6	☑
14	H590DP5	06/10/06 12:49	102.9	102.1	102.1	98.9	102.2	98.8	☑
15	H590DZ	06/10/06 12:53	98.3	99.7	100.9	99.5	99.9	98.5	☑
16	CCV	06/10/06 12:56	96.2	97.8	98.8	96.9	97.9	96.3	☑
17	CCB	06/10/06 12:58	104.5	101.8	103.7	100.2	103.6	100.0	☑
18	H590F	06/10/06 13:02	104.0	104.2	102.4	101.2	102.3	101.0	☑
19	H590J	06/10/06 13:05	105.1	103.5	103.4	105.5	103.3	105.5	☑
20	H590K	06/10/06 13:09	105.7	104.8	104.1	102.1	103.8	102.0	☑
21	H590N	06/10/06 13:13	105.6	103.7	104.0	103.1	103.9	103.0	☑
22	H590R	06/10/06 13:16	105.5	105.2	103.9	101.8	103.7	101.7	☑
23	H590T	06/10/06 13:20	103.5	105.4	101.8	100.4	101.6	100.0	☑
24	H590X	06/10/06 13:23	106.0	105.0	104.4	102.2	104.2	102.1	☑
25	H5900	06/10/06 13:27	107.8	103.8	106.4	102.1	106.2	101.8	☑
26	H5901	06/10/06 13:31	105.2	103.6	104.5	100.6	104.3	100.5	☑
27	H5902	06/10/06 13:34	107.0	104.7	105.1	103.2	104.8	103.0	☑
28	CCV	06/10/06 13:38	97.6	98.3	100.5	98.5	99.6	96.6	☑
29	CCB	06/10/06 13:40	102.1	102.1	101.5	98.7	101.4	98.8	☑
30	H5903	06/10/06 13:43	107.0	107.4	104.3	99.1	103.9	98.8	☑
31	H5904	06/10/06 13:47	105.7	103.6	104.8	100.3	104.7	100.3	☑
32	CCV	06/10/06 13:54	95.8	95.7	98.7	98.1	97.8	94.1	☑
33	CCB	06/10/06 13:56	106.1	101.0	105.9	98.5	105.6	98.7	☑

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ICP Data Review Checklist

SEVERN TRENT STL

Run/Project Information:

Run Date: 06/10/06 Analyst: AWONG Instrument: P05

Prep Batches Run: 6153233

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

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
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: AWong Date: 06/10/06

Comments:

2nd Level Reviewer : MTZ Date: 6/12/06

Comments:

STL Sacramento

Method 6010B Instrument QC Standards

SEVERN TRENT SERVICES

Chemist: AWong

Run Date: 06/10/06

Type of Analysis: Trace ICP (AirTox)

Instrument ID: P05

Standard Expiration Dates Verified: 06/10/06

Standard Name	Standard Logbook ID
STD0 (Cal Blank) / ICB / CCB	2696-16-6
STD1 (Cal Std 1)	2680-66
STD2 (Cal Std 2)	2680-67
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	2680-68
Internal Standard	2696-17-3

QA – 416
ERS 2/1/01

6/10/2006 11:44:57 AM Hg ReAlign... Actual peak offset (nm): -0.007
Drift (nm): -0.000 Slit adjustment: -2

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	642248.6
-1.6	15.0	843618.5
-1.2	15.0	1018751.2
-0.8	15.0	1177501.4
-0.4	15.0	1275065.3
0.0	15.0	1271018.4
0.4	15.0	1123424.7
0.8	15.0	937319.6
1.2	15.0	754495.1
1.6	15.0	552559.4
2.0	15.0	377471.6
-0.4	10.0	32953.0
-0.4	10.5	99046.8
-0.4	11.0	160856.2
-0.4	11.5	252374.0
-0.4	12.0	374071.5
-0.4	12.5	704709.1
-0.4	13.0	899772.0
-0.4	13.5	1084257.2
-0.4	14.0	1212606.6
-0.4	14.5	1397934.1
-0.4	15.0	1280662.9
-0.4	15.5	1129420.7
-0.4	16.0	973447.7
-0.4	16.5	565903.5
-0.4	17.0	406379.6
-0.4	17.5	268332.2
-0.4	18.0	172307.8
-0.4	18.5	107506.2
-0.4	19.0	19169.9
-0.4	19.5	3665.4
-0.4	20.0	4703.2
-1.2	14.5	1098976.9
-0.8	14.5	1238175.2
-0.4	14.5	1329147.1
0.0	14.5	1282753.4
0.4	14.5	1163258.5
-0.4	12.5	788816.2
-0.4	13.0	932100.5
-0.4	13.5	1112829.4
-0.4	14.0	1236599.4
-0.4	14.5	1366621.3
-0.4	15.0	1288757.7
-0.4	15.5	1141571.0
-0.4	16.0	950125.3
-0.4	16.5	549265.3

6/10/2006 11:48:53 AM aligned for analyte Mn 257.610
X viewing position set to -0.4 mm having Peak intensity 1366621.3 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 1366621.3 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	199.4
-6.5	15.0	215.2
-6.0	15.0	275.1
-5.5	15.0	422.5
-5.0	15.0	644.8

-4.5	15.0	1262.9
-4.0	15.0	2453.5
-3.5	15.0	4510.1
-3.0	15.0	6395.2
-2.5	15.0	8965.6
-2.0	15.0	12078.3
-1.5	15.0	18150.9
-1.0	15.0	47927.2
-0.5	15.0	91283.2
0.0	15.0	117905.9
0.5	15.0	115499.5
1.0	15.0	109480.5
1.5	15.0	88236.8
2.0	15.0	70001.1
2.5	15.0	46892.2
3.0	15.0	27085.9
3.5	15.0	10515.2
4.0	15.0	3473.3
4.5	15.0	3032.9
5.0	15.0	1582.3
5.5	15.0	690.2
6.0	15.0	307.0
6.5	15.0	170.6
7.0	15.0	145.1

6/10/2006 11:52:05 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 117905.9 for Radial viewing

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

Autosampler Location: 5
Date Collected: 6/10/2006 12:03:42 PM
Data Type: Reprocessed on 6/10/2006 2:06:15 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Blank_1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	334842.5	2600.97	0.78%	100.00	%
In Radial	16302.6	29.95	0.18%	100.00	%
Y_ Axial	1321486.7	11671.68	0.88%	100.00	%
Y_ Radial	139046.7	1500.20	1.08%	100.000	%
Sc Axial	1442394.2	12305.14	0.85%	100.00	%
Sc Radial	151852.3	1628.95	1.07%	100.00	%
Al_1 396.153 R†	156.0	2.69	1.73%	[0.00]	mg/L
Al_2 308.215 R†	127.2	1.88	1.48%	[0.00]	mg/L
Ca 315.887 R†	-408.4	31.10	7.62%	[0.00]	mg/L
Fe_1 273.955†	42.4	3.90	9.19%	[0.00]	mg/L
Fe_2 238.863 R†	35.5	3.46	9.76%	[0.00]	mg/L
Mg 279.077 R†	-79.0	9.69	12.27%	[0.00]	mg/L
Na_1 589.592 R†	4029.4	155.63	3.86%	[0.00]	mg/L
Na_2 330.237 R†	36.7	17.18	46.81%	[0.00]	mg/L
Zn 206.200†	25.2	3.51	13.97%	[0.00]	mg/L

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

Autosampler Location: 2
Date Collected: 6/10/2006 12:07:29 PM
Data Type: Reprocessed on 6/10/2006 2:06:50 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	304494.4	428.86	0.14%	90.937	%
In Radial	15062.5	269.85	1.79%	92.393	%
Y_ Axial	1252341.1	3945.52	0.32%	94.768	%
Y_ Radial	128857.1	2048.06	1.59%	92.672	%
Sc Axial	1382921.7	3255.43	0.24%	95.877	%
Sc Radial	141766.2	2248.43	1.59%	93.358	%
Al_1 396.153 R†	649639.1	4076.99	0.63%	[50]	mg/L
Al_2 308.215 R†	183078.9	36.46	0.02%	[50]	mg/L
Ca 315.887 R†	941136.6	12681.68	1.35%	[50]	mg/L
Fe_1 273.955†	2577764.4	4435.08	0.17%	[50]	mg/L
Fe_2 238.863 R†	60557.6	68.42	0.11%	[50]	mg/L
Mg 279.077 R†	116613.0	506.68	0.43%	[50]	mg/L
Na_1 589.592 R†	540651.7	4106.72	0.76%	[50]	mg/L
Na_2 330.237 R†	3880.5	22.47	0.58%	[50]	mg/L
Zn 206.200†	170777.4	494.53	0.29%	[5.0]	mg/L

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

Autosampler Location: 3
Date Collected: 6/10/2006 12:09:49 PM
Data Type: Reprocessed on 6/10/2006 2:06:54 PM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	270617.8	4079.56	1.51%	80.819	%
In Radial	13815.9	422.18	3.06%	84.746	%
Y_ Axial	1169390.5	14869.74	1.27%	88.491	%
Y_ Radial	120495.5	3143.68	2.61%	86.658	%
Sc Axial	1292629.3	16387.93	1.27%	89.617	%
Sc Radial	131818.6	3784.69	2.87%	86.807	%
Al_2 308.215 Rt	929865.9	27035.21	2.91%	[250]	mg/L
Ca 315.887 Rt	4632282.6	145296.27	3.14%	[250]	mg/L
Fe_2 238.863 Rt	298949.6	9255.78	3.10%	[250]	mg/L
Mg 279.077 Rt	575213.4	17322.99	3.01%	[250]	mg/L
Na_1 589.592 Rt	2760230.3	78079.86	2.83%	[250]	mg/L
Na_2 330.237 Rt	18461.2	41.64	0.23%	[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	12990	0.00000	1.000000	
Al_2 308.215 R	2	Lin Thru 0	0.0	3717	0.00000	0.999996	
Ca 315.887 R	2	Lin Thru 0	0.0	18540	0.00000	0.999995	
Fe_1 273.955	1	Lin Thru 0	0.0	51560	0.00000	1.000000	
Fe_2 238.863 R	2	Lin Thru 0	0.0	1196	0.00000	0.999997	
Mg 279.077 R	2	Lin Thru 0	0.0	2302	0.00000	0.999997	
Na_1 589.592 R	2	Lin Thru 0	0.0	11030	0.00000	0.999992	
Na_2 330.237 R	2	Lin Thru 0	0.0	73.99	0.00000	0.999952	
Zn 206.200	1	Lin Thru 0	0.0	34160	0.00000	1.000000	

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

Autosampler Location: 10
Date Collected: 6/10/2006 12:13:29 PM
Data Type: Reprocessed on 6/10/2006 2:06:56 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	330325.3	98.651	%	1.0988				1.11%
In Radial	16019.6	98.264	%	0.3445				0.35%
Y_ Axial	1292129.4	97.778	%	0.3518				0.36%
Y_ Radial	134721.4	96.889	%	0.3185				0.33%
Sc Axial	1422316.2	98.608	%	0.3865				0.39%
Sc Radial	147358.3	97.041	%	0.1055				0.11%
Al_1 396.153 R†	129399.8	9.9594	mg/L	0.03450	9.9594	mg/L	0.03450	0.35%
Al_2 308.215 R†	36889.2	9.9238	mg/L	0.00616	9.9238	mg/L	0.00616	0.06%
Ca 315.887 R†	190569.7	10.279	mg/L	0.0376	10.279	mg/L	0.0376	0.37%
Fe_1 273.955†	540278.6	10.480	mg/L	0.1780	10.480	mg/L	0.1780	1.70%
Fe_2 238.863 R†	12320.9	10.298	mg/L	0.0000	10.298	mg/L	0.0000	0.00%
Mg 279.077 R†	23877.9	10.372	mg/L	0.0392	10.372	mg/L	0.0392	0.38%
Na_1 589.592 R†	110130.0	9.9826	mg/L	0.03349	9.9826	mg/L	0.03349	0.34%
Na_2 330.237 R†	809.4	10.337	mg/L	1.2127	10.337	mg/L	1.2127	11.73%
Zn 206.200†	35734.8	1.0462	mg/L	0.01868	1.0462	mg/L	0.01868	1.79%

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

Autosampler Location: 12
Date Collected: 6/10/2006 12:15:53 PM
Data Type: Reprocessed on 6/10/2006 2:06:58 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	348167.9	103.98	%	2.065				1.99%
In Radial	16291.2	99.930	%	0.6196				0.62%
Y_ Axial	1362878.6	103.13	%	1.850				1.79%
Y_ Radial	135504.2	97.452	%	0.5313				0.55%
Sc Axial	1489000.1	103.23	%	1.867				1.81%
Sc Radial	147828.7	97.350	%	0.4394				0.45%
Al_1 396.153 R†	-48.0	-0.00369	mg/L	0.001157	-0.00369	mg/L	0.001157	31.35%
Al_2 308.215 R†	24.4	0.00656	mg/L	0.001208	0.00656	mg/L	0.001208	18.43%
Ca 315.887 R†	-11.8	-0.00064	mg/L	0.001711	-0.00064	mg/L	0.001711	268.02%
Fe_1 273.955†	200.5	0.00389	mg/L	0.000771	0.00389	mg/L	0.000771	19.83%
Fe_2 238.863 R†	13.0	0.01085	mg/L	0.004761	0.01085	mg/L	0.004761	43.87%
Mg 279.077 R†	-13.3	-0.00577	mg/L	0.005941	-0.00577	mg/L	0.005941	102.92%
Na_1 589.592 R†	760.6	0.06894	mg/L	0.002525	0.06894	mg/L	0.002525	3.66%
Na_2 330.237 R†	1.3	0.01796	mg/L	0.083183	0.01796	mg/L	0.083183	463.20%
Zn 206.200†	3.3	0.00010	mg/L	0.000138	0.00010	mg/L	0.000138	141.69%

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

Autosampler Location: 38
Date Collected: 6/10/2006 12:19:30 PM
Data Type: Reprocessed on 6/10/2006 2:06:59 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	347894.7	103.90	%	2.032				1.96%
In Radial	16380.1	100.47	%	0.921				0.92%
Y_ Axial	1362501.1	103.10	%	1.796				1.74%
Y_ Radial	134688.6	96.866	%	1.9518				2.01%
Sc Axial	1485901.1	103.02	%	1.798				1.75%
Sc Radial	146826.3	96.690	%	1.8376				1.90%
Al_1 396.153 R†	1365.8	0.10512	mg/L	0.001025	126.19	mg/L	1.231	0.98%
Al_2 308.215 R†	375.3	0.10098	mg/L	0.005055	121.22	mg/L	6.068	5.01%
Ca 315.887 R†	1916.5	0.10337	mg/L	0.001752	124.09	mg/L	2.103	1.69%
Fe_1 273.955†	1519.7	0.02948	mg/L	0.000818	35.387	mg/L	0.9819	2.77%
Fe_2 238.863 R†	46.8	0.03915	mg/L	0.001530	46.996	mg/L	1.8364	3.91%
Mg 279.077 R†	233.3	0.10135	mg/L	0.002000	121.67	mg/L	2.401	1.97%
Na_1 589.592 R†	3330.9	0.30192	mg/L	0.028100	362.45	mg/L	33.733	9.31%
Na_2 330.237 R†	-2.4	-0.03624	mg/L	0.117563	-43.499	mg/L	141.1324	324.45%
Zn 206.200†	220.8	0.00646	mg/L	0.000056	7.7598	mg/L	0.06695	0.86%

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

Autosampler Location: 14
Date Collected: 6/10/2006 12:23:07 PM
Data Type: Reprocessed on 6/10/2006 2:07:00 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	271202.9	80.994	%	1.8243				2.25%
In Radial	13779.9	84.526	%	0.1264				0.15%
Y_ Axial	1155862.4	87.467	%	1.9992				2.29%
Y_ Radial	120717.4	86.818	%	0.2862				0.33%
Sc Axial	1268901.3	87.972	%	1.9865				2.26%
Sc Radial	130670.8	86.051	%	0.1425				0.17%
Al_1 396.153 R†	6592644.9	507.41	mg/L	1.856	507.41	mg/L	1.856	0.37%
Al_2 308.215 R†	1890069.0	508.46	mg/L	0.070	508.46	mg/L	0.070	0.01%
Ca 315.887 R†	9100451.5	490.84	mg/L	2.009	490.84	mg/L	2.009	0.41%
Fe_1 273.955†	9528384.5	184.82	mg/L	5.164	184.82	mg/L	5.164	2.79%
Fe_2 238.863 R†	230844.2	192.95	mg/L	0.629	192.95	mg/L	0.629	0.33%
Mg 279.077 R†	1146343.3	497.96	mg/L	0.430	497.96	mg/L	0.430	0.09%
Na_1 589.592 R†	684.8	0.06207	mg/L	0.006391	0.06207	mg/L	0.006391	10.30%
Na_2 330.237 R†	-81.3	-2.7073	mg/L	1.31852	-2.7073	mg/L	1.31852	48.70%
Zn 206.200†	360.0	0.01054	mg/L	0.000333	0.01054	mg/L	0.000333	3.15%

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

Autosampler Location: 15
Date Collected: 6/10/2006 12:25:42 PM
Data Type: Reprocessed on 6/10/2006 2:07:01 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	268583.4	80.212	%	1.0001				1.25%
In Radial	13969.9	85.691	%	1.2781				1.49%
Y_ Axial	1136545.2	86.005	%	1.7310				2.01%
Y_ Radial	122058.6	87.782	%	1.2404				1.41%
Sc Axial	1248770.6	86.576	%	1.7790				2.05%
Sc Radial	132431.1	87.210	%	1.2052				1.38%
Al_1 396.153 R†	6586212.0	506.91	mg/L	4.601	506.91	mg/L	4.601	0.91%
Al_2 308.215 R†	1839771.3	494.93	mg/L	9.381	494.93	mg/L	9.381	1.90%
Ca 315.887 R†	9082175.4	489.86	mg/L	5.243	489.86	mg/L	5.243	1.07%
Fe_1 273.955†	9897493.0	191.98	mg/L	5.698	191.98	mg/L	5.698	2.97%
Fe_2 238.863 R†	229395.7	191.74	mg/L	3.975	191.74	mg/L	3.975	2.07%
Mg 279.077 R†	1113338.9	483.63	mg/L	10.654	483.63	mg/L	10.654	2.20%
Na_1 589.592 R†	489.1	0.04433	mg/L	0.007217	0.04433	mg/L	0.007217	16.28%
Na_2 330.237 R†	127.9	-0.42227	mg/L	0.412022	-0.42227	mg/L	0.412022	97.57%
Zn 206.200†	32751.9	0.95891	mg/L	0.004998	0.95891	mg/L	0.004998	0.52%

Sequence No.: 9
Sample ID: FB181515
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/10/2006 12:32:14 PM
Data Type: Reprocessed on 6/10/2006 2:07:02 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: FB181515

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	347065.4	103.65	%	2.184				2.11%
In Radial	16785.1	102.96	%	0.643				0.62%
Y_ Axial	1358408.2	102.79	%	2.341				2.28%
Y_ Radial	141744.3	101.94	%	1.708				1.68%
Sc Axial	1484721.8	102.93	%	2.309				2.24%
Sc Radial	154507.6	101.75	%	1.727				1.70%
Al_1 396.153 R†	816.4	0.06283	mg/L	0.001659	75.429	mg/L	1.9910	2.64%
Al_2 308.215 R†	277.9	0.07477	mg/L	0.002200	89.763	mg/L	2.6414	2.94%
Ca 315.887 R†	4467.2	0.24094	mg/L	0.004667	289.25	mg/L	5.602	1.94%
Fe_1 273.955†	847.2	0.01643	mg/L	0.000242	19.728	mg/L	0.2906	1.47%
Fe_2 238.863 R†	28.1	0.02349	mg/L	0.003895	28.204	mg/L	4.6763	16.58%
Mg 279.077 R†	79.0	0.03432	mg/L	0.002838	41.197	mg/L	3.4069	8.27%
Na_1 589.592 R†	5295.8	0.48004	mg/L	0.005726	576.27	mg/L	6.874	1.19%
Na_2 330.237 R†	0.5	0.00413	mg/L	0.015935	4.9612	mg/L	19.12924	385.58%
Zn 206.200†	99.6	0.00292	mg/L	0.000050	3.5023	mg/L	0.06051	1.73%

Sequence No.: 10
Sample ID: H6LD1B
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 6/10/2006 12:35:52 PM
Data Type: Reprocessed on 6/10/2006 2:07:02 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H6LD1B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	357547.2	106.78	%	1.270				1.19%
In Radial	16937.5	103.89	%	0.025				0.02%
Y_ Axial	1395196.2	105.58	%	1.426				1.35%
Y_ Radial	140818.6	101.27	%	1.451				1.43%
Sc Axial	1523328.2	105.61	%	1.353				1.28%
Sc Radial	153821.9	101.30	%	1.418				1.40%
Al_1 396.153 Rt	939.9	0.07234	mg/L	0.003067	86.839	mg/L	3.6823	4.24%
Al_2 308.215 Rt	289.0	0.07775	mg/L	0.000726	93.336	mg/L	0.8715	0.93%
Ca 315.887 Rt	7.7	0.00041	mg/L	0.000628	0.49546	mg/L	0.754100	152.20%
Fe_1 273.955†	118.8	0.00230	mg/L	0.000451	2.7663	mg/L	0.54167	19.58%
Fe_2 238.863 Rt	8.3	0.00693	mg/L	0.000539	8.3241	mg/L	0.64667	7.77%
Mg 279.077 Rt	0.4	0.00019	mg/L	0.001683	0.22655	mg/L	2.020356	891.80%
Na_1 589.592 Rt	414.3	0.03755	mg/L	0.001064	45.083	mg/L	1.2775	2.83%
Na_2 330.237 Rt	-15.6	-0.21242	mg/L	0.261100	-255.01	mg/L	313.445	122.91%
Zn 206.200†	66.6	0.00195	mg/L	0.000003	2.3392	mg/L	0.00410	0.18%

Sequence No.: 11
Sample ID: H6LD1C
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 6/10/2006 12:39:28 PM
Data Type: Reprocessed on 6/10/2006 2:07:03 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H6LD1C

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	318059.5	94.988	%	2.4976				2.63%
In Radial	16368.8	100.41	%	0.078				0.08%
Y_ Axial	1286474.3	97.351	%	0.0888				0.09%
Y_ Radial	133838.9	96.255	%	1.1913				1.24%
Sc Axial	1416394.5	98.197	%	0.1025				0.10%
Sc Radial	147313.6	97.011	%	1.1438				1.18%
Al_1 396.153 R†	27145.3	2.0893	mg/L	0.01542	2508.1	mg/L	18.52	0.74%
Al_2 308.215 R†	7784.0	2.0940	mg/L	0.03219	2513.9	mg/L	38.64	1.54%
Ca 315.887 R†	921086.3	49.680	mg/L	0.0346	59640	mg/L	41.6	0.07%
Fe_1 273.955†	52722.7	1.0226	mg/L	0.02717	1227.7	mg/L	32.62	2.66%
Fe_2 238.863 R†	1300.4	1.0869	mg/L	0.00546	1304.8	mg/L	6.55	0.50%
Mg 279.077 R†	115229.7	50.055	mg/L	0.0369	60090	mg/L	44.2	0.07%
Na_1 589.592 R†	532933.7	48.307	mg/L	0.1287	57992	mg/L	154.5	0.27%
Na_2 330.237 R†	3699.7	49.465	mg/L	0.5843	59382	mg/L	701.4	1.18%
Zn 206.200†	17528.7	0.51320	mg/L	0.015620	616.09	mg/L	18.752	3.04%

Sequence No.: 12
Sample ID: H6LD1L
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 6/10/2006 12:42:28 PM
Data Type: Reprocessed on 6/10/2006 2:07:05 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H6LD1L

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	328552.5	98.122	%	1.0656				1.09%
In Radial	16249.3	99.673	%	0.2879				0.29%
Y_ Axial	1292060.2	97.773	%	0.2615				0.27%
Y_ Radial	133721.1	96.170	%	0.0207				0.02%
Sc Axial	1423922.1	98.719	%	0.2318				0.23%
Sc Radial	147669.9	97.246	%	0.0766				0.08%
Al_1 396.153 R†	27493.0	2.1160	mg/L	0.00098	2540.2	mg/L	1.18	0.05%
Al_2 308.215 R†	7827.9	2.1058	mg/L	0.00341	2528.0	mg/L	4.10	0.16%
Ca 315.887 R†	929553.5	50.137	mg/L	0.0598	60188	mg/L	71.8	0.12%
Fe_1 273.955†	54788.5	1.0627	mg/L	0.01396	1275.8	mg/L	16.76	1.31%
Fe_2 238.863 R†	1304.4	1.0903	mg/L	0.00002	1308.9	mg/L	0.02	0.00%
Mg 279.077 R†	116312.9	50.526	mg/L	0.1088	60655	mg/L	130.7	0.22%
Na_1 589.592 R†	536492.3	48.630	mg/L	0.0933	58379	mg/L	112.0	0.19%
Na_2 330.237 R†	3722.4	49.757	mg/L	0.1329	59733	mg/L	159.6	0.27%
Zn 206.200†	18239.0	0.53400	mg/L	0.009051	641.06	mg/L	10.866	1.69%

Sequence No.: 13
Sample ID: H590D
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/10/2006 12:45:56 PM
Data Type: Reprocessed on 6/10/2006 2:07:06 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	357951.8	106.90	%	1.576				1.47%
In Radial	17111.7	104.96	%	0.798				0.76%
Y_ Axial	1391658.7	105.31	%	1.311				1.24%
Y_ Radial	145419.4	104.58	%	1.772				1.69%
Sc Axial	1524329.5	105.68	%	1.435				1.36%
Sc Radial	159097.0	104.77	%	2.007				1.92%
Al_1 396.153 R†	4590.8	0.35334	mg/L	0.002584	424.17	mg/L	3.102	0.73%
Al_2 308.215 R†	1340.7	0.36067	mg/L	0.000247	432.97	mg/L	0.297	0.07%
Ca 315.887 R†	14639.4	0.78960	mg/L	0.007590	947.89	mg/L	9.112	0.96%
Fe_1 273.955†	17958.5	0.34833	mg/L	0.004641	418.17	mg/L	5.571	1.33%
Fe_2 238.863 R†	419.5	0.35060	mg/L	0.009095	420.89	mg/L	10.918	2.59%
Mg 279.077 R†	578.5	0.25128	mg/L	0.000923	301.65	mg/L	1.109	0.37%
Na_1 589.592 R†	15551.9	1.4097	mg/L	0.00560	1692.3	mg/L	6.73	0.40%
Na_2 330.237 R†	66.8	0.89494	mg/L	0.037498	1074.4	mg/L	45.02	4.19%
Zn 206.200†	305.0	0.00893	mg/L	0.000201	10.722	mg/L	0.2416	2.25%

Sequence No.: 14
Sample ID: H590DP5
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/10/2006 12:49:31 PM
Data Type: Reprocessed on 6/10/2006 2:07:07 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590DP5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	344432.7	102.86	%	0.910				0.88%
In Radial	16639.5	102.07	%	0.516				0.51%
Y_ Axial	1349919.4	102.15	%	0.927				0.91%
Y_ Radial	137366.5	98.792	%	3.3237				3.36%
Sc Axial	1473002.7	102.12	%	0.932				0.91%
Sc Radial	150198.0	98.911	%	3.5057				3.54%
Al_1 396.153 Rt	867.6	0.06677	mg/L	0.002024	80.162	mg/L	2.4298	3.03%
Al_2 308.215 Rt	294.2	0.07915	mg/L	0.006588	95.021	mg/L	7.9090	8.32%
Ca 315.887 Rt	3048.6	0.16443	mg/L	0.007523	197.39	mg/L	9.031	4.58%
Fe_1 273.955†	3730.4	0.07236	mg/L	0.000757	86.863	mg/L	0.9089	1.05%
Fe_2 238.863 Rt	94.2	0.07875	mg/L	0.000089	94.533	mg/L	0.1063	0.11%
Mg 279.077 Rt	109.9	0.04774	mg/L	0.002154	57.315	mg/L	2.5855	4.51%
Na_1 589.592 Rt	3197.7	0.28985	mg/L	0.003674	347.96	mg/L	4.411	1.27%
Na_2 330.237 Rt	9.3	0.12276	mg/L	0.182591	147.37	mg/L	219.197	148.74%
Zn 206.200†	165.5	0.00485	mg/L	0.000031	5.8179	mg/L	0.03714	0.64%

Sequence No.: 15
Sample ID: H590DZ
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 6/10/2006 12:53:06 PM
Data Type: Reprocessed on 6/10/2006 2:07:09 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590DZ

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	329160.7	98.303	%	0.5240				0.53%
In Radial	16246.0	99.653	%	0.3872				0.39%
Y_ Axial	1320661.8	99.938	%	0.9019				0.90%
Y_ Radial	136963.7	98.502	%	2.4582				2.50%
Sc Axial	1454798.7	100.86	%	0.878				0.87%
Sc Radial	151049.3	99.471	%	2.4361				2.45%
Al_1 396.153 R†	32538.2	2.5043	mg/L	0.01385	3006.4	mg/L	16.63	0.55%
Al_2 308.215 R†	9095.8	2.4469	mg/L	0.06420	2937.5	mg/L	77.07	2.62%
Ca 315.887 R†	997682.8	53.811	mg/L	0.2987	64599	mg/L	358.6	0.56%
Fe_1 273.955†	72736.0	1.4108	mg/L	0.01833	1693.7	mg/L	22.01	1.30%
Fe_2 238.863 R†	1735.1	1.4502	mg/L	0.03933	1741.0	mg/L	47.22	2.71%
Mg 279.077 R†	124529.3	54.095	mg/L	0.4499	64940	mg/L	540.1	0.83%
Na_1 589.592 R†	569137.0	51.589	mg/L	0.0553	61931	mg/L	66.3	0.11%
Na_2 330.237 R†	3829.8	51.181	mg/L	1.1798	61441	mg/L	1416.3	2.31%
Zn 206.200†	18962.3	0.55518	mg/L	0.008880	666.48	mg/L	10.660	1.60%

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

Autosampler Location: 7
Date Collected: 6/10/2006 12:56:37 PM
Data Type: Reprocessed on 6/10/2006 2:07:10 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	322198.5	96.224	%	3.1751				3.30%
In Radial	15942.8	97.793	%	1.0542				1.08%
Y_ Axial	1294123.3	97.929	%	3.1108				3.18%
Y_ Radial	133885.0	96.288	%	1.4242				1.48%
Sc Axial	1424562.0	98.764	%	3.2346				3.28%
Sc Radial	147141.2	96.898	%	1.5366				1.59%
Al_1 396.153 R†	323063.0	24.865	mg/L	1.0744	24.865	mg/L	1.0744	4.32%
Al_2 308.215 R†	91586.6	24.638	mg/L	0.0607	24.638	mg/L	0.0607	0.25%
Ca 315.887 R†	475934.5	25.670	mg/L	1.1956	25.670	mg/L	1.1956	4.66%
Fe_1 273.955†	1302886.7	25.272	mg/L	0.0938	25.272	mg/L	0.0938	0.37%
Fe_2 238.863 R†	30610.7	25.586	mg/L	0.1251	25.586	mg/L	0.1251	0.49%
Mg 279.077 R†	59305.4	25.762	mg/L	0.1405	25.762	mg/L	0.1405	0.55%
Na_1 589.592 R†	271199.9	24.583	mg/L	1.0614	24.583	mg/L	1.0614	4.32%
Na_2 330.237 R†	2038.3	26.079	mg/L	1.1349	26.079	mg/L	1.1349	4.35%
Zn 206.200†	87072.5	2.5493	mg/L	0.01532	2.5493	mg/L	0.01532	0.60%

Sequence No.: 17
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/10/2006 12:58:52 PM
Data Type: Reprocessed on 6/10/2006 2:07:11 PM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
In Axial	349954.8	104.51	%	0.769				0.74%
In Radial	16600.5	101.83	%	0.076				0.07%
Y_ Axial	1369082.6	103.60	%	0.456				0.44%
Y_ Radial	138979.6	99.952	%	1.8547				1.86%
Sc Axial	1495554.4	103.69	%	0.533				0.51%
Sc Radial	152142.2	100.19	%	1.793				1.79%
Al_1 396.153 R†	-56.3	-0.00433	mg/L	0.003698	-0.00433	mg/L	0.003698	85.39%
Al_2 308.215 R†	12.2	0.00329	mg/L	0.001284	0.00329	mg/L	0.001284	39.07%
Ca 315.887 R†	-10.2	-0.00055	mg/L	0.000105	-0.00055	mg/L	0.000105	19.08%
Fe_1 273.955†	123.7	0.00240	mg/L	0.000831	0.00240	mg/L	0.000831	34.62%
Fe_2 238.863 R†	21.1	0.01760	mg/L	0.000968	0.01760	mg/L	0.000968	5.50%
Mg 279.077 R†	-6.2	-0.00271	mg/L	0.002145	-0.00271	mg/L	0.002145	79.00%
Na_1 589.592 R†	752.4	0.06820	mg/L	0.002441	0.06820	mg/L	0.002441	3.58%
Na_2 330.237 R†	6.0	0.08050	mg/L	0.025678	0.08050	mg/L	0.025678	31.90%
Zn 206.200†	2.7	0.00008	mg/L	0.000016	0.00008	mg/L	0.000016	19.70%

Sequence No.: 18
Sample ID: H590F
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 6/10/2006 1:02:26 PM
Data Type: Reprocessed on 6/10/2006 2:07:12 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590F

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	348389.4	104.05	%	1.761				1.69%
In Radial	16992.4	104.23	%	0.888				0.85%
Y_ Axial	1352404.3	102.34	%	1.647				1.61%
Y_ Radial	140504.6	101.05	%	2.682				2.65%
Sc Axial	1477716.1	102.45	%	1.670				1.63%
Sc Radial	153607.7	101.16	%	2.558				2.53%
Al_1 396.153 Rt	4122.2	0.31727	mg/L	0.000546	380.87	mg/L	0.655	0.17%
Al_2 308.215 Rt	1222.6	0.32891	mg/L	0.003337	394.85	mg/L	4.006	1.01%
Ca 315.887 Rt	13869.2	0.74805	mg/L	0.005908	898.02	mg/L	7.093	0.79%
Fe_1 273.955†	16135.8	0.31298	mg/L	0.003270	375.73	mg/L	3.926	1.04%
Fe_2 238.863 Rt	377.5	0.31554	mg/L	0.011354	378.80	mg/L	13.630	3.60%
Mg 279.077 Rt	524.4	0.22779	mg/L	0.000853	273.45	mg/L	1.024	0.37%
Na_1 589.592 Rt	14553.4	1.3192	mg/L	0.01866	1583.6	mg/L	22.40	1.41%
Na_2 330.237 Rt	79.5	1.0678	mg/L	0.12079	1281.9	mg/L	145.00	11.31%
Zn 206.200†	236.4	0.00692	mg/L	0.000028	8.3102	mg/L	0.03313	0.40%

Sequence No.: 19
Sample ID: H590J
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 6/10/2006 1:05:59 PM
Data Type: Reprocessed on 6/10/2006 2:07:14 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590J

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	351859.0	105.08	%	0.812				0.77%
In Radial	16878.4	103.53	%	0.087				0.08%
Y_ Axial	1365218.2	103.31	%	1.067				1.03%
Y_ Radial	146639.4	105.46	%	1.805				1.71%
Sc Axial	1491806.1	103.43	%	1.051				1.02%
Sc Radial	160158.3	105.47	%	1.766				1.67%
Al_1 396.153 Rt	5259.6	0.40481	mg/L	0.001665	485.97	mg/L	1.999	0.41%
Al_2 308.215 Rt	1458.5	0.39237	mg/L	0.006815	471.04	mg/L	8.181	1.74%
Ca 315.887 Rt	16438.7	0.88664	mg/L	0.001635	1064.4	mg/L	1.96	0.18%
Fe_1 273.955†	21896.0	0.42471	mg/L	0.008803	509.86	mg/L	10.568	2.07%
Fe_2 238.863 Rt	489.7	0.40930	mg/L	0.014590	491.36	mg/L	17.515	3.56%
Mg 279.077 Rt	642.4	0.27907	mg/L	0.004738	335.02	mg/L	5.688	1.70%
Na_1 589.592 Rt	15865.5	1.4381	mg/L	0.01892	1726.4	mg/L	22.71	1.32%
Na_2 330.237 Rt	71.4	0.95751	mg/L	0.338592	1149.5	mg/L	406.47	35.36%
Zn 206.200†	315.2	0.00923	mg/L	0.000225	11.079	mg/L	0.2706	2.44%

Sequence No.: 20
Sample ID: H590K
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 6/10/2006 1:09:32 PM
Data Type: Reprocessed on 6/10/2006 2:07:15 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590K

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	354029.0	105.73	%	0.592				0.56%
In Radial	17080.7	104.77	%	0.146				0.14%
Y_ Axial	1372362.3	103.85	%	0.246				0.24%
Y_ Radial	141852.4	102.02	%	3.057				3.00%
Sc Axial	1501273.1	104.08	%	0.341				0.33%
Sc Radial	155002.0	102.07	%	3.145				3.08%
Al_1 396.153 Rt	4604.1	0.35436	mg/L	0.002712	425.40	mg/L	3.255	0.77%
Al_2 308.215 Rt	1300.8	0.34994	mg/L	0.011632	420.10	mg/L	13.964	3.32%
Ca 315.887 Rt	14146.8	0.76303	mg/L	0.002004	916.00	mg/L	2.406	0.26%
Fe_1 273.955†	21645.0	0.41984	mg/L	0.003015	504.01	mg/L	3.619	0.72%
Fe_2 238.863 Rt	502.3	0.41983	mg/L	0.018641	504.00	mg/L	22.379	4.44%
Mg 279.077 Rt	578.6	0.25134	mg/L	0.009189	301.73	mg/L	11.031	3.66%
Na_1 589.592 Rt	14447.0	1.3095	mg/L	0.01222	1572.1	mg/L	14.67	0.93%
Na_2 330.237 Rt	99.2	1.3354	mg/L	0.37948	1603.1	mg/L	455.56	28.42%
Zn 206.200†	231.1	0.00677	mg/L	0.000022	8.1223	mg/L	0.02629	0.32%

Sequence No.: 21
Sample ID: H590N
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 6/10/2006 1:13:05 PM
Data Type: Reprocessed on 6/10/2006 2:07:16 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590N

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	353450.5	105.56	%	0.354				0.33%
In Radial	16903.5	103.69	%	1.846				1.78%
Y_ Axial	1372894.6	103.89	%	0.572				0.55%
Y_ Radial	143218.3	103.00	%	2.038				1.98%
Sc Axial	1499698.7	103.97	%	0.473				0.45%
Sc Radial	156591.1	103.12	%	2.045				1.98%
Al_1 396.153 R†	4731.4	0.36416	mg/L	0.005466	437.17	mg/L	6.562	1.50%
Al_2 308.215 R†	1352.7	0.36389	mg/L	0.003910	436.84	mg/L	4.694	1.07%
Ca 315.887 R†	15213.9	0.82058	mg/L	0.000023	985.09	mg/L	0.027	0.00%
Fe_1 273.955†	18537.7	0.35957	mg/L	0.003469	431.65	mg/L	4.164	0.96%
Fe_2 238.863 R†	424.0	0.35436	mg/L	0.005554	425.40	mg/L	6.667	1.57%
Mg 279.077 R†	542.6	0.23571	mg/L	0.001685	282.96	mg/L	2.023	0.71%
Na_1 589.592 R†	17211.2	1.5601	mg/L	0.00680	1872.9	mg/L	8.17	0.44%
Na_2 330.237 R†	101.6	1.3662	mg/L	0.21711	1640.1	mg/L	260.64	15.89%
Zn 206.200†	229.5	0.00672	mg/L	0.000098	8.0664	mg/L	0.11731	1.45%

Sequence No.: 22
Sample ID: H590R
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/10/2006 1:16:39 PM
Data Type: Reprocessed on 6/10/2006 2:07:18 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590R

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	353274.5	105.50	%	0.651				0.62%
In Radial	17145.0	105.17	%	0.489				0.47%
Y_ Axial	1370887.7	103.74	%	1.117				1.08%
Y_ Radial	141440.6	101.72	%	0.689				0.68%
Sc Axial	1498717.3	103.90	%	1.016				0.98%
Sc Radial	154655.1	101.85	%	0.922				0.91%
Al_1 396.153 Rt	4822.3	0.37115	mg/L	0.006767	445.56	mg/L	8.123	1.82%
Al_2 308.215 Rt	1404.2	0.37776	mg/L	0.001709	453.49	mg/L	2.052	0.45%
Ca 315.887 Rt	14174.3	0.76451	mg/L	0.005744	917.78	mg/L	6.896	0.75%
Fe_1 273.955†	18955.5	0.36767	mg/L	0.005899	441.38	mg/L	7.082	1.60%
Fe_2 238.863 Rt	442.3	0.36967	mg/L	0.008749	443.78	mg/L	10.503	2.37%
Mg 279.077 Rt	576.2	0.25030	mg/L	0.002913	300.48	mg/L	3.497	1.16%
Na_1 589.592 Rt	14340.7	1.2999	mg/L	0.00043	1560.5	mg/L	0.51	0.03%
Na_2 330.237 Rt	86.4	1.1619	mg/L	0.37720	1394.8	mg/L	452.82	32.46%
Zn 206.200†	243.2	0.00712	mg/L	0.000054	8.5486	mg/L	0.06538	0.76%

Sequence No.: 23
Sample ID: H590T
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 6/10/2006 1:20:13 PM
Data Type: Reprocessed on 6/10/2006 2:07:19 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590T

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	346632.7	103.52	%	1.756				1.70%
In Radial	17182.6	105.40	%	0.076				0.07%
Y_ Axial	1343094.6	101.64	%	1.532				1.51%
Y_ Radial	139114.7	100.05	%	0.275				0.28%
Sc Axial	1468881.1	101.84	%	1.611				1.58%
Sc Radial	152518.5	100.44	%	0.501				0.50%
Al_1 396.153 R†	12922.1	0.99456	mg/L	0.015303	1194.0	mg/L	18.37	1.54%
Al_2 308.215 R†	3751.2	1.0091	mg/L	0.00992	1211.5	mg/L	11.91	0.98%
Ca 315.887 R†	30556.0	1.6481	mg/L	0.00401	1978.5	mg/L	4.82	0.24%
Fe_1 273.955†	56475.4	1.0954	mg/L	0.00511	1315.0	mg/L	6.13	0.47%
Fe_2 238.863 R†	1335.4	1.1162	mg/L	0.01322	1340.0	mg/L	15.87	1.18%
Mg 279.077 R†	1513.0	0.65725	mg/L	0.000315	789.01	mg/L	0.378	0.05%
Na_1 589.592 R†	21769.6	1.9733	mg/L	0.02192	2368.9	mg/L	26.31	1.11%
Na_2 330.237 R†	119.4	1.6032	mg/L	0.05312	1924.6	mg/L	63.77	3.31%
Zn 206.200†	468.4	0.01371	mg/L	0.000491	16.464	mg/L	0.5898	3.58%

Sequence No.: 24
Sample ID: H590X
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/10/2006 1:23:48 PM
Data Type: Reprocessed on 6/10/2006 2:07:19 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H590X

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	355028.4	106.03	%	1.809				1.71%
In Radial	17125.4	105.05	%	0.961				0.92%
Y_ Axial	1376805.0	104.19	%	1.683				1.62%
Y_ Radial	141991.4	102.12	%	0.414				0.41%
Sc Axial	1506486.5	104.44	%	1.681				1.61%
Sc Radial	155219.5	102.22	%	0.360				0.35%
Al_1 396.153 R†	11121.1	0.85594	mg/L	0.006957	1027.5	mg/L	8.35	0.81%
Al_2 308.215 R†	3181.1	0.85577	mg/L	0.009683	1027.3	mg/L	11.62	1.13%
Ca 315.887 R†	25119.2	1.3548	mg/L	0.01232	1626.5	mg/L	14.78	0.91%
Fe_1 273.955†	46534.3	0.90261	mg/L	0.003237	1083.6	mg/L	3.89	0.36%
Fe_2 238.863 R†	1070.0	0.89435	mg/L	0.008954	1073.6	mg/L	10.75	1.00%
Mg 279.077 R†	1229.3	0.53399	mg/L	0.005046	641.05	mg/L	6.058	0.94%
Na_1 589.592 R†	21309.3	1.9316	mg/L	0.00872	2318.8	mg/L	10.46	0.45%
Na_2 330.237 R†	123.9	1.6649	mg/L	0.28331	1998.6	mg/L	340.10	17.02%
Zn 206.200†	406.8	0.01191	mg/L	0.000104	14.298	mg/L	0.1254	0.88%

Sequence No.: 25
Sample ID: H5900
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/10/2006 1:27:24 PM
Data Type: Reprocessed on 6/10/2006 2:07:20 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H5900

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	360885.7	107.78	%	0.323				0.30%
In Radial	16922.2	103.80	%	0.561				0.54%
Y_ Axial	1403233.7	106.19	%	0.176				0.17%
Y_ Radial	141572.2	101.82	%	2.600				2.55%
Sc Axial	1534625.2	106.39	%	0.132				0.12%
Sc Radial	155019.4	102.09	%	2.787				2.73%
Al_1 396.153 R†	7189.8	0.55337	mg/L	0.006711	664.31	mg/L	8.057	1.21%
Al_2 308.215 R†	2050.4	0.55159	mg/L	0.011091	662.17	mg/L	13.315	2.01%
Ca 315.887 R†	18065.3	0.97437	mg/L	0.001650	1169.7	mg/L	1.98	0.17%
Fe_1 273.955†	34539.3	0.66995	mg/L	0.001492	804.26	mg/L	1.791	0.22%
Fe_2 238.863 R†	797.1	0.66622	mg/L	0.007309	799.79	mg/L	8.774	1.10%
Mg 279.077 R†	891.6	0.38731	mg/L	0.007949	464.96	mg/L	9.542	2.05%
Na_1 589.592 R†	10145.4	0.91962	mg/L	0.009856	1104.0	mg/L	11.83	1.07%
Na_2 330.237 R†	27.5	0.36351	mg/L	0.209972	436.38	mg/L	252.067	57.76%
Zn 206.200†	388.3	0.01137	mg/L	0.000024	13.649	mg/L	0.0291	0.21%

Sequence No.: 26
Sample ID: H5901
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 6/10/2006 1:31:00 PM
Data Type: Reprocessed on 6/10/2006 2:07:21 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H5901

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	352338.9	105.23	%	0.514				0.49%
In Radial	16896.0	103.64	%	0.623				0.60%
Y_ Axial	1377871.9	104.27	%	0.282				0.27%
Y_ Radial	139766.4	100.52	%	0.256				0.25%
Sc Axial	1507464.1	104.51	%	0.305				0.29%
Sc Radial	152835.3	100.65	%	0.540				0.54%
Al_1 396.153 Rt	6997.4	0.53856	mg/L	0.001517	646.53	mg/L	1.821	0.28%
Al_2 308.215 Rt	2001.8	0.53852	mg/L	0.003209	646.48	mg/L	3.853	0.60%
Ca 315.887 Rt	16939.5	0.91365	mg/L	0.001720	1096.8	mg/L	2.06	0.19%
Fe_1 273.955†	32788.9	0.63599	mg/L	0.000447	763.50	mg/L	0.537	0.07%
Fe_2 238.863 Rt	768.3	0.64220	mg/L	0.007192	770.94	mg/L	8.634	1.12%
Mg 279.077 Rt	863.4	0.37504	mg/L	0.000828	450.23	mg/L	0.994	0.22%
Na_1 589.592 Rt	9106.6	0.82546	mg/L	0.012451	990.95	mg/L	14.947	1.51%
Na_2 330.237 Rt	46.5	0.61811	mg/L	0.006810	742.03	mg/L	8.175	1.10%
Zn 206.200†	481.3	0.01409	mg/L	0.000050	16.915	mg/L	0.0601	0.36%

Sequence No.: 27
Sample ID: H5902
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 6/10/2006 1:34:36 PM
Data Type: Reprocessed on 6/10/2006 2:07:22 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H5902

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	358433.0	107.05	%	0.140				0.13%
In Radial	17073.4	104.73	%	0.124				0.12%
Y_ Axial	1385434.9	104.84	%	0.265				0.25%
Y_ Radial	143248.7	103.02	%	0.112				0.11%
Sc Axial	1515353.5	105.06	%	0.255				0.24%
Sc Radial	156738.1	103.22	%	0.353				0.34%
Al_1 396.153 R†	7417.3	0.57088	mg/L	0.002743	685.32	mg/L	3.294	0.48%
Al_2 308.215 R†	2104.2	0.56607	mg/L	0.003722	679.56	mg/L	4.468	0.66%
Ca 315.887 R†	21644.6	1.1674	mg/L	0.00435	1401.5	mg/L	5.22	0.37%
Fe_1 273.955†	46924.8	0.91018	mg/L	0.002233	1092.7	mg/L	2.68	0.25%
Fe_2 238.863 R†	1056.9	0.88344	mg/L	0.002205	1060.6	mg/L	2.65	0.25%
Mg 279.077 R†	999.3	0.43411	mg/L	0.001621	521.14	mg/L	1.946	0.37%
Na_1 589.592 R†	19031.7	1.7251	mg/L	0.00343	2071.0	mg/L	4.12	0.20%
Na_2 330.237 R†	82.9	1.1120	mg/L	0.11243	1334.9	mg/L	134.97	10.11%
Zn 206.200†	397.7	0.01164	mg/L	0.000023	13.978	mg/L	0.0281	0.20%

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

Autosampler Location: 7
Date Collected: 6/10/2006 1:38:10 PM
Data Type: Reprocessed on 6/10/2006 2:07:23 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	326832.9	97.608	%	0.4555				0.47%
In Radial	16020.6	98.270	%	0.7925				0.81%
Y_ Axial	1316542.6	99.626	%	0.4991				0.50%
Y_ Radial	134253.6	96.553	%	0.6631				0.69%
Sc Axial	1449970.3	100.53	%	0.443				0.44%
Sc Radial	149525.7	98.468	%	0.4524				0.46%
Al_1 396.153 R†	323251.3	24.879	mg/L	0.0952	24.879	mg/L	0.0952	0.38%
Al_2 308.215 R†	91151.5	24.521	mg/L	0.0050	24.521	mg/L	0.0050	0.02%
Ca 315.887 R†	476282.5	25.689	mg/L	0.0592	25.689	mg/L	0.0592	0.23%
Fe_1 273.955†	1300124.7	25.218	mg/L	0.0308	25.218	mg/L	0.0308	0.12%
Fe_2 238.863 R†	30515.1	25.506	mg/L	0.1097	25.506	mg/L	0.1097	0.43%
Mg 279.077 R†	58951.1	25.608	mg/L	0.0225	25.608	mg/L	0.0225	0.09%
Na_1 589.592 R†	270614.4	24.530	mg/L	0.0659	24.530	mg/L	0.0659	0.27%
Na_2 330.237 R†	1971.8	25.182	mg/L	0.1195	25.182	mg/L	0.1195	0.47%
Zn 206.200†	86917.6	2.5448	mg/L	0.00494	2.5448	mg/L	0.00494	0.19%

Sequence No.: 29
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/10/2006 1:40:25 PM
Data Type: Reprocessed on 6/10/2006 2:07:24 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	341859.8	102.10	%	0.868				0.85%
In Radial	16646.3	102.11	%	0.586				0.57%
Y_ Axial	1339715.1	101.38	%	1.247				1.23%
Y_ Radial	137328.8	98.764	%	1.2660				1.28%
Sc Axial	1463559.3	101.47	%	1.202				1.18%
Sc Radial	149935.6	98.738	%	1.1684				1.18%
Al_1 396.153 R†	-14.1	-0.00108	mg/L	0.002503	-0.00108	mg/L	0.002503	230.91%
Al_2 308.215 R†	25.5	0.00686	mg/L	0.001255	0.00686	mg/L	0.001255	18.31%
Ca 315.887 R†	15.5	0.00083	mg/L	0.000500	0.00083	mg/L	0.000500	60.00%
Fe_1 273.955†	125.2	0.00243	mg/L	0.001123	0.00243	mg/L	0.001123	46.24%
Fe_2 238.863 R†	12.8	0.01071	mg/L	0.008902	0.01071	mg/L	0.008902	83.09%
Mg 279.077 R†	-22.8	-0.00989	mg/L	0.006254	-0.00989	mg/L	0.006254	63.20%
Na_1 589.592 R†	83.0	0.00752	mg/L	0.008086	0.00752	mg/L	0.008086	107.50%
Na_2 330.237 R†	-12.3	-0.16703	mg/L	0.096813	-0.16703	mg/L	0.096813	57.96%
Zn 206.200†	11.2	0.00033	mg/L	0.000079	0.00033	mg/L	0.000079	23.94%

Sequence No.: 30
Sample ID: H5903
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 6/10/2006 1:43:59 PM
Data Type: Reprocessed on 6/10/2006 2:07:26 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H5903

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	358369.0	107.03	%	1.127				1.05%
In Radial	17505.9	107.38	%	1.626				1.51%
Y_ Axial	1373087.4	103.90	%	0.988				0.95%
Y_ Radial	137308.7	98.750	%	1.8425				1.87%
Sc Axial	1504209.6	104.29	%	0.996				0.96%
Sc Radial	150454.8	99.080	%	2.1021				2.12%
Al_1 396.153 R†	12405.8	0.95482	mg/L	0.009205	1146.2	mg/L	11.05	0.96%
Al_2 308.215 R†	3439.6	0.92530	mg/L	0.022554	1110.8	mg/L	27.08	2.44%
Ca 315.887 R†	28073.0	1.5142	mg/L	0.03140	1817.7	mg/L	37.69	2.07%
Fe_1 273.955†	53811.1	1.0438	mg/L	0.00014	1253.0	mg/L	0.17	0.01%
Fe_2 238.863 R†	1276.0	1.0666	mg/L	0.03018	1280.4	mg/L	36.22	2.83%
Mg 279.077 R†	1367.9	0.59420	mg/L	0.019774	713.33	mg/L	23.738	3.33%
Na_1 589.592 R†	57157.7	5.1810	mg/L	0.17212	6219.7	mg/L	206.63	3.32%
Na_2 330.237 R†	399.5	5.3883	mg/L	0.35249	6468.5	mg/L	423.16	6.54%
Zn 206.200†	520.6	0.01524	mg/L	0.000162	18.298	mg/L	0.1950	1.07%

Sequence No.: 31
Sample ID: H5904
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 57
Date Collected: 6/10/2006 1:47:33 PM
Data Type: Reprocessed on 6/10/2006 2:07:27 PM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H5904

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	354059.5	105.74	%	1.185				1.12%
In Radial	16888.7	103.60	%	1.220				1.18%
Y_ Axial	1383701.3	104.71	%	1.329				1.27%
Y_ Radial	139518.3	100.34	%	0.859				0.86%
Sc Axial	1511458.1	104.79	%	1.307				1.25%
Sc Radial	152358.9	100.33	%	0.885				0.88%
Al_1 396.153 R†	975.4	0.07507	mg/L	0.002018	90.120	mg/L	2.4220	2.69%
Al_2 308.215 R†	262.1	0.07052	mg/L	0.001157	84.652	mg/L	1.3890	1.64%
Ca 315.887 R†	4274.7	0.23056	mg/L	0.003793	276.78	mg/L	4.553	1.65%
Fe_1 273.955†	944.8	0.01833	mg/L	0.001845	21.999	mg/L	2.2143	10.07%
Fe_2 238.863 R†	28.1	0.02349	mg/L	0.006020	28.198	mg/L	7.2271	25.63%
Mg 279.077 R†	59.9	0.02603	mg/L	0.004821	31.247	mg/L	5.7872	18.52%
Na_1 589.592 R†	5624.1	0.50979	mg/L	0.008469	612.00	mg/L	10.166	1.66%
Na_2 330.237 R†	0.6	0.00591	mg/L	0.098991	7.1006	mg/L	118.83726	>999.9%
Zn 206.200†	108.6	0.00318	mg/L	0.000026	3.8155	mg/L	0.03128	0.82%

Sequence No.: 32
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/10/2006 1:54:03 PM
Data Type: Reprocessed on 6/10/2006 2:07:27 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	320750.6	95.791	%	0.5620				0.59%
In Radial	15609.5	95.748	%	1.4324				1.50%
Y_ Axial	1292601.6	97.814	%	0.5962				0.61%
Y_ Radial	130817.6	94.082	%	1.5578				1.66%
Sc Axial	1423328.7	98.678	%	0.5815				0.59%
Sc Radial	148896.4	98.053	%	0.5907				0.60%
Al_1 396.153 R†	330094.9	25.406	mg/L	0.2841	25.406	mg/L	0.2841	1.12%
Al_2 308.215 R†	91184.5	24.530	mg/L	0.0347	24.530	mg/L	0.0347	0.14%
Ca 315.887 R†	484492.8	26.132	mg/L	0.2716	26.132	mg/L	0.2716	1.04%
Fe_1 273.955†	1294564.1	25.110	mg/L	0.0039	25.110	mg/L	0.0039	0.02%
Fe_2 238.863 R†	30507.4	25.500	mg/L	0.0966	25.500	mg/L	0.0966	0.38%
Mg 279.077 R†	58574.1	25.444	mg/L	0.0253	25.444	mg/L	0.0253	0.10%
Na_1 589.592 R†	276720.2	25.083	mg/L	0.2351	25.083	mg/L	0.2351	0.94%
Na_2 330.237 R†	1954.0	24.950	mg/L	0.8291	24.950	mg/L	0.8291	3.32%
Zn 206.200†	86342.7	2.5279	mg/L	0.00016	2.5279	mg/L	0.00016	0.01%

Sequence No.: 33
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/10/2006 1:56:22 PM
Data Type: Reprocessed on 6/10/2006 2:07:28 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	355125.9	106.06	%	2.191				2.07%
In Radial	16461.7	100.98	%	0.035				0.03%
Y_ Axial	1394997.9	105.56	%	1.902				1.80%
Y_ Radial	137173.8	98.653	%	1.7696				1.79%
Sc Axial	1527481.8	105.90	%	2.088				1.97%
Sc Radial	149562.2	98.492	%	1.5711				1.60%
Al_1 396.153 Rt	11.8	0.00091	mg/L	0.004751				523.36%
Al_2 308.215 Rt	3.6	0.00096	mg/L	0.000357				37.19%
Ca 315.887 Rt	18.6	0.00100	mg/L	0.001107				110.39%
Fe_1 273.955†	143.8	0.00279	mg/L	0.000463				16.59%
Fe_2 238.863 Rt	12.8	0.01067	mg/L	0.002886				27.06%
Mg 279.077 Rt	-1.5	-0.00064	mg/L	0.001954				307.19%
Na_1 589.592 Rt	189.1	0.01715	mg/L	0.016324				95.21%
Na_2 330.237 Rt	8.6	0.11664	mg/L	0.035657				30.57%
Zn 206.200†	9.6	0.00028	mg/L	0.000168				60.20%

06/10/06 AW

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

ICP

SEVERN TRENT STL

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

Instrument ID (Circle one): M01 M02		Method 6020 SOP SAC-MT-0001	
File Number 060605A1	Batch Numbers 6153232, 6156250, 6156386	Date 6/5/06	Analyst BRJ

Lot Numbers G6E260199, G6F030213, G6F050151	YES	NO	NA
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: * Zn CONTAMINATION THROUGHOUT RUN - HIGH BACKGROUND - RERUN Zn. - BRJ 6/9/06

REVIEWED BY: MTK
DATE: 6/8/06

DATA ENTERED BY: BRJ
DATE: 6/9/06

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\060605A1\
Report Date/Time: Tuesday, June 06, 2006 11:48:50

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	15:15:24 Mon 05-Jun-06	Sample	
	AUTOLENS BJONES	15:18:57 Mon 05-Jun-06	Sample	Auto Lens Calib
	DAILY BJONES	15:26:16 Mon 05-Jun-06	Sample	
6153232	H590D n.i.	15:53:53 Mon 05-Jun-06	Sample	G6E260199-1 N.I.
6156250	H6N39 n.i.	15:56:40 Mon 05-Jun-06	Sample	G6F030213-1 N.I.
6156386	H6P1N n.i.	15:59:27 Mon 05-Jun-06	Sample	G6F050151-1 N.I.
	Rinse 3X	16:39:32 Mon 05-Jun-06	Sample	
	Blank	16:43:58 Mon 05-Jun-06	Blank	
	Standard 1	16:48:19 Mon 05-Jun-06	Standard #1	
	ICV	16:52:24 Mon 05-Jun-06	Sample	
	ICB	16:56:34 Mon 05-Jun-06	Sample	
	ICSA	17:00:44 Mon 05-Jun-06	Sample	
	ICSAB	17:04:52 Mon 05-Jun-06	Sample	
	Rinse	17:25:35 Mon 05-Jun-06	Sample	
	CCV 1	17:29:46 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 1	17:33:56 Mon 05-Jun-06	Sample - OUT Zn	
	CCV 2	17:38:07 Mon 05-Jun-06	Sample	
	CCB 2	17:42:17 Mon 05-Jun-06	Sample - OUT Zn	
6153232	H6LDRC	17:46:29 Mon 05-Jun-06	Sample	G6F020000-232 LCS
6153232	H6LDRL	17:50:34 Mon 05-Jun-06	Sample	G6F020000-232 LCSD
	Rinse	17:54:43 Mon 05-Jun-06	Sample	
6153232	H6LDRB	17:58:55 Mon 05-Jun-06	Sample	G6F020000-232 BLK
6153232	FB	18:03:06 Mon 05-Jun-06	Sample	FB-F1815158
6153232	H590D	18:07:15 Mon 05-Jun-06	Sample	G6E260199-1
6153232	H590DP5	18:11:22 Mon 05-Jun-06	Sample	G6E260199-1 5X
6153232	H590DZ	18:15:28 Mon 05-Jun-06	Sample	G6E260199-1 PS
6153232	H590F	18:19:36 Mon 05-Jun-06	Sample	G6E260199-2
6153232	H590J	18:23:43 Mon 05-Jun-06	Sample	G6E260199-3
	CCV 3	18:27:52 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 3	18:32:03 Mon 05-Jun-06	Sample - OUT Zn	
	CCV 4	18:36:14 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 4	18:40:25 Mon 05-Jun-06	Sample - OUT Zn	
6153232	H590K	18:44:34 Mon 05-Jun-06	Sample	G6E260199-4
6153232	H590N	18:48:43 Mon 05-Jun-06	Sample	G6E260199-5
6153232	H590R	18:52:52 Mon 05-Jun-06	Sample	G6E260199-6
6153232	H590T	18:57:01 Mon 05-Jun-06	Sample	G6E260199-7
6153232	H590X	19:01:11 Mon 05-Jun-06	Sample	G6E260199-8
6153232	H5900	19:05:21 Mon 05-Jun-06	Sample	G6E260199-9
6153232	H5901	19:09:31 Mon 05-Jun-06	Sample	G6E260199-10
6153232	H5902	19:13:42 Mon 05-Jun-06	Sample	G6E260199-11
6153232	H5903	19:17:53 Mon 05-Jun-06	Sample	G6E260199-12
6153232	H5904	19:22:05 Mon 05-Jun-06	Sample	G6E260199-13
	CCV 5	19:26:16 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 5	19:30:27 Mon 05-Jun-06	Sample - OUT Zn	
SHORT LIST	CCV 6	19:34:37 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 6	19:38:16 Mon 05-Jun-06	Sample - OUT Zn	
	CCV 7	19:41:56 Mon 05-Jun-06	Sample - OUT Zn	
	CCB 7	19:45:35 Mon 05-Jun-06	Sample - OUT Zn	
6156250	H6PRTB	19:49:15 Mon 05-Jun-06	Sample	G6F050000-250 BLK - RERUN Zn

RERUN Zn

RERUN Zn

6156250	H6PRTC	19:52:53 Mon 05-Jun-06	Sample	G6F050000-250 LCS	RERUN Zn
6156250	H6PRTL	19:56:28 Mon 05-Jun-06	Sample	G6F050000-250 LCSD	
6156250	H6N39	20:00:03 Mon 05-Jun-06	Sample	G6F030213-1	
6156250	H6N39P5	20:03:38 Mon 05-Jun-06	Sample	G6F030213-1 5X	
6156250	H6N39X	20:07:14 Mon 05-Jun-06	Sample	G6F030213-1 DU	
6156250	H6N39Z	20:10:50 Mon 05-Jun-06	Sample	G6F030213-1 PS	
6156250	H6N4A	20:14:26 Mon 05-Jun-06	Sample	G6F030213-2	
6156250	H6N4C	20:18:03 Mon 05-Jun-06	Sample	G6F030213-3	
6156250	H6N4D	20:21:40 Mon 05-Jun-06	Sample	G6F030213-4	
	CCV 8	20:25:18 Mon 05-Jun-06	Sample - OUT Zn		
	CCB 8	20:28:57 Mon 05-Jun-06	Sample - OUT Zn		
	CCV 9	20:32:36 Mon 05-Jun-06	Sample - OUT Zn		
	CCB 9	20:36:16 Mon 05-Jun-06	Sample - OUT Zn		
6156250	H6N4E	20:39:54 Mon 05-Jun-06	Sample	G6F030213-5	RERUN Zn
6156250	H6N4F	20:43:32 Mon 05-Jun-06	Sample	G6F030213-6	
6156250	H6N4G	20:47:11 Mon 05-Jun-06	Sample	G6F030213-7	
6156250	H6N4H	20:50:49 Mon 05-Jun-06	Sample	G6F030213-8	
6156250	H6N4J	20:54:28 Mon 05-Jun-06	Sample	G6F030213-9	
6156250	H6N4K	20:58:08 Mon 05-Jun-06	Sample	G6F030213-10	
6156250	H6N4L	21:01:47 Mon 05-Jun-06	Sample	G6F030213-11	
6156250	H6N4M	21:05:28 Mon 05-Jun-06	Sample	G6F030213-12	
6156250	H6N4N	21:09:08 Mon 05-Jun-06	Sample	G6F030213-13	
6156250	H6N4P	21:12:49 Mon 05-Jun-06	Sample	G6F030213-14	
	CCV 10 RECAL	21:16:29 Mon 05-Jun-06	Sample - OUT Zn		
	CCB 10	21:20:08 Mon 05-Jun-06	Sample - OUT Zn		
	CCV 11	21:23:48 Mon 05-Jun-06	Sample		
	CCB 11	21:27:27 Mon 05-Jun-06	Sample		
6156386	H6P49C	21:31:05 Mon 05-Jun-06	Sample	G6F050000-386 LCS	RERUN Zn
6156386	H6P49L	21:34:41 Mon 05-Jun-06	Sample	G6F050000-386 LCSD	
	Rinse	21:38:19 Mon 05-Jun-06	Sample		
6156386	H6P49B	21:42:01 Mon 05-Jun-06	Sample	G6F050000-386 BLK	
6156386	H6P1N	21:45:39 Mon 05-Jun-06	Sample	G6F050151-1	
6156386	H6P1NP5	21:49:14 Mon 05-Jun-06	Sample	G6F050151-1 5X	
6156386	H6P1NX	21:52:48 Mon 05-Jun-06	Sample	G6F050151-1 DU	
6156386	H6P1NZ	21:56:24 Mon 05-Jun-06	Sample	G6F050151-1 PS	
6156386	H6P1Q	21:59:59 Mon 05-Jun-06	Sample	G6F050151-2	
6156386	H6P1R	22:03:35 Mon 05-Jun-06	Sample	G6F050151-3	
	CCV 12	22:07:13 Mon 05-Jun-06	Sample		
	CCB 12	22:10:52 Mon 05-Jun-06	Sample - OUT Zn		
	CCV 13	22:14:32 Mon 05-Jun-06	Sample		
	CCB 13	22:18:11 Mon 05-Jun-06	Sample		
6156386	H6P1T	22:21:49 Mon 05-Jun-06	Sample	G6F050151-4	RERUN Zn
6156386	H6P1V	22:25:26 Mon 05-Jun-06	Sample	G6F050151-5	
6156386	H6P1W	22:29:03 Mon 05-Jun-06	Sample	G6F050151-6	
6156386	H6P1X	22:32:41 Mon 05-Jun-06	Sample	G6F050151-7	
6156386	H6P11	22:36:19 Mon 05-Jun-06	Sample	G6F050151-8	
6156386	H6P12	22:39:58 Mon 05-Jun-06	Sample	G6F050151-9	
6156386	H6P14	22:43:36 Mon 05-Jun-06	Sample	G6F050151-10	
6156386	H6P15	22:47:15 Mon 05-Jun-06	Sample	G6F050151-11	
6156386	H6P16	22:50:55 Mon 05-Jun-06	Sample	G6F050151-12	
6156386	H6P17	22:54:35 Mon 05-Jun-06	Sample	G6F050151-13	
	CCV 14	22:58:15 Mon 05-Jun-06	Sample		
	CCB 14	23:01:54 Mon 05-Jun-06	Sample		

STL Sacramento RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:09:25

File ID: 060605A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	H590D n.i.	G6E260199-1	6153232	2A	1.0	06/05/06 15:53		☐
2	H6N39 n.i.	G6F030213-1	6156250	2A	1.0	06/05/06 15:56		☐
3	H6P1N n.i.	G6F050151-1	6156386	2A	1.0	06/05/06 15:59		☐
4	Rinse 3X				3.0	06/05/06 16:39		☐
5	Blank				1.0	06/05/06 16:43		☐
6	Standard1				1.0	06/05/06 16:48		☐
7	ICV				1.0	06/05/06 16:52		☐
8	ICB				1.0	06/05/06 16:56		☐
9	ICSA				1.0	06/05/06 17:00		☐
10	ICSAB				1.0	06/05/06 17:04		☐
11	Rinse				1.0	06/05/06 17:25		☐
12	CCV 1				1.0	06/05/06 17:29		☐
13	CCB 1				1.0	06/05/06 17:33		☐
14	CCV 2				1.0	06/05/06 17:38		☐
15	CCB 2				1.0	06/05/06 17:42		☐
16	H6LDRC	G6F020000	6153232	2A	1.0	06/05/06 17:46		☐
17	H6LDRL	G6F020000	6153232	2A	1.0	06/05/06 17:50		☐
18	Rinse				1.0	06/05/06 17:54		☐
19	H6LDRB	G6F020000	6153232	2A	1.0	06/05/06 17:58		☐
20	FB				1.0	06/05/06 18:03		☐
21	H590D	G6E260199-1	6153232	2A	1.0	06/05/06 18:07		☐
22	H590DP5	G6E260199	6153232		5.0	06/05/06 18:11		☐
23	H590DZ	G6E260199-1	6153232		1.0	06/05/06 18:15		☐
24	H590F	G6E260199-2	6153232	2A	1.0	06/05/06 18:19		☐
25	H590J	G6E260199-3	6153232	2A	1.0	06/05/06 18:23		☐
26	CCV 3				1.0	06/05/06 18:27		☐
27	CCB 3				1.0	06/05/06 18:32		☐
28	CCV 4				1.0	06/05/06 18:36		☐
29	CCB 4				1.0	06/05/06 18:40		☐
30	H590K	G6E260199-4	6153232	2A	1.0	06/05/06 18:44		☐
31	H590N	G6E260199-5	6153232	2A	1.0	06/05/06 18:48		☐
32	H590R	G6E260199-6	6153232	2A	1.0	06/05/06 18:52		☐
33	H590T	G6E260199-7	6153232	2A	1.0	06/05/06 18:57		☐
34	H590X	G6E260199-8	6153232	2A	1.0	06/05/06 19:01		☐
35	H5900	G6E260199-9	6153232	2A	1.0	06/05/06 19:05		☐
36	H5901	G6E260199-10	6153232	2A	1.0	06/05/06 19:09		☐
37	H5902	G6E260199-11	6153232	2A	1.0	06/05/06 19:13		☐
38	H5903	G6E260199-12	6153232	2A	1.0	06/05/06 19:17		☐
39	H5904	G6E260199-13	6153232	2A	1.0	06/05/06 19:22		☐
40	CCV 5				1.0	06/05/06 19:26		☐
41	CCB 5				1.0	06/05/06 19:30		☐
42	CCV 6				1.0	06/05/06 19:34		☐
43	CCB 6				1.0	06/05/06 19:38		☐
44	CCV 7				1.0	06/05/06 19:41		☐
45	CCB 7				1.0	06/05/06 19:45		☐
46	H6PRTB	G6F050000	6156250	2A	1.0	06/05/06 19:49		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:09:25

File ID: 060605A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	H6PRTC	G6F050000	6156250	2A	1.0	06/05/06 19:52		☐
48	H6PRTL	G6F050000	6156250	2A	1.0	06/05/06 19:56		☐
49	H6N39	G6F030213-1	6156250	2A	1.0	06/05/06 20:00		☐
50	H6N39P5	G6F030213	6156250		5.0	06/05/06 20:03		☐
51	H6N39X	G6F030213-1	6156250	2A	1.0	06/05/06 20:07		☐
52	H6N39Z	G6F030213-1	6156250		1.0	06/05/06 20:10		☐
53	H6N4A	G6F030213-2	6156250	2A	1.0	06/05/06 20:14		☐
54	H6N4C	G6F030213-3	6156250	2A	1.0	06/05/06 20:18		☐
55	H6N4D	G6F030213-4	6156250	2A	1.0	06/05/06 20:21		☐
56	CCV 8				1.0	06/05/06 20:25		☐
57	CCB 8				1.0	06/05/06 20:28		☐
58	CCV 9				1.0	06/05/06 20:32		☐
59	CCB 9				1.0	06/05/06 20:36		☐
60	H6N4E	G6F030213-5	6156250	2A	1.0	06/05/06 20:39		☐
61	H6N4F	G6F030213-6	6156250	2A	1.0	06/05/06 20:43		☐
62	H6N4G	G6F030213-7	6156250	2A	1.0	06/05/06 20:47		☐
63	H6N4H	G6F030213-8	6156250	2A	1.0	06/05/06 20:50		☐
64	H6N4J	G6F030213-9	6156250	2A	1.0	06/05/06 20:54		☐
65	H6N4K	G6F030213-10	6156250	2A	1.0	06/05/06 20:58		☐
66	H6N4L	G6F030213-11	6156250	2A	1.0	06/05/06 21:01		☐
67	H6N4M	G6F030213-12	6156250	2A	1.0	06/05/06 21:05		☐
68	H6N4N	G6F030213-13	6156250	2A	1.0	06/05/06 21:09		☐
69	H6N4P	G6F030213-14	6156250	2A	1.0	06/05/06 21:12		☐
70	CCV 10				1.0	06/05/06 21:16		☐
71	CCB 10				1.0	06/05/06 21:20		☐
74	CCV 11				1.0	06/05/06 21:23		☐
75	CCB 11				1.0	06/05/06 21:27		☐
76	H6P49C	G6F050000	6156386	2A	1.0	06/05/06 21:31		☐
77	H6P49L	G6F050000	6156386	2A	1.0	06/05/06 21:34		☐
78	Rinse				1.0	06/05/06 21:38		☐
79	H6P49B	G6F050000	6156386	2A	1.0	06/05/06 21:42		☐
80	H6P1N	G6F050151-1	6156386	2A	1.0	06/05/06 21:45		☐
81	H6P1NP5	G6F050151	6156386		5.0	06/05/06 21:49		☐
82	H6P1NX	G6F050151-1	6156386	2A	1.0	06/05/06 21:52		☐
83	H6P1NZ	G6F050151-1	6156386		1.0	06/05/06 21:56		☐
84	H6P1Q	G6F050151-2	6156386	2A	1.0	06/05/06 21:59		☐
85	H6P1R	G6F050151-3	6156386	2A	1.0	06/05/06 22:03		☐
86	CCV 12				1.0	06/05/06 22:07		☐
87	CCB 12				1.0	06/05/06 22:10		☐
88	CCV 13				1.0	06/05/06 22:14		☐
89	CCB 13				1.0	06/05/06 22:18		☐
90	H6P1T	G6F050151-4	6156386	2A	1.0	06/05/06 22:21		☐
91	H6P1V	G6F050151-5	6156386	2A	1.0	06/05/06 22:25		☐
92	H6P1W	G6F050151-6	6156386	2A	1.0	06/05/06 22:29		☐
93	H6P1X	G6F050151-7	6156386	2A	1.0	06/05/06 22:32		☐
94	H6P11	G6F050151-8	6156386	2A	1.0	06/05/06 22:36		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:09:25

File ID: **060605A1** **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	H6P12	G6F050151-9	6156386	2A	1.0	06/05/06 22:39		☐
96	H6P14	G6F050151-10	6156386	2A	1.0	06/05/06 22:43		☐
97	H6P15	G6F050151-11	6156386	2A	1.0	06/05/06 22:47		☐
98	H6P16	G6F050151-12	6156386	2A	1.0	06/05/06 22:50		☐
99	H6P17	G6F050151-13	6156386	2A	1.0	06/05/06 22:54		☐
100	CCV 14				1.0	06/05/06 22:58		☐
101	CCB 14				1.0	06/05/06 23:01		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:09:25

File ID: 060605A1 **Analyst:** ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	H590D n.i.	06/05/06 15:53	0.1	0.0	0.1	0.0	☐
2	H6N39 n.i.	06/05/06 15:56	0.3	0.1	0.1	0.1	☐
3	H6P1N n.i.	06/05/06 15:59	0.3	0.1	0.1	0.1	☐
4	Rinse 3X	06/05/06 16:39	99.9	101.4	98.4	99.0	☐
5	Blank	06/05/06 16:43	100.0	100.0	100.0	100.0	☑
6	Standard1	06/05/06 16:48	99.0	97.5	99.8	94.8	☑
7	ICV	06/05/06 16:52	100.6	96.2	98.0	95.3	☑
8	ICB	06/05/06 16:56	98.1	97.4	98.1	97.4	☑
9	ICSA	06/05/06 17:00	71.3	79.7	73.2	70.4	☑
10	ICSAB	06/05/06 17:04	69.2	79.7	73.1	70.2	☐
11	Rinse	06/05/06 17:25	94.6	92.5	93.2	92.8	☑
12	CCV 1	06/05/06 17:29	92.9	89.5	96.3	89.5	☑
13	CCB 1	06/05/06 17:33	95.3	92.0	94.8	91.8	☑
14	CCV 2	06/05/06 17:38	92.2	89.5	97.4	89.7	☑
15	CCB 2	06/05/06 17:42	94.6	92.0	94.7	91.0	☑
16	H6LDRC	06/05/06 17:46	92.8	93.9	98.1	94.1	☑
17	H6LDRL	06/05/06 17:50	91.6	92.9	95.2	92.6	☑
18	Rinse	06/05/06 17:54	93.6	91.8	96.6	91.7	☑
19	H6LDRB	06/05/06 17:58	93.5	96.1	93.6	94.4	☑
20	FB	06/05/06 18:03	94.8	95.0	92.2	93.0	☑
21	H590D	06/05/06 18:07	94.1	95.6	94.5	94.0	☑
22	H590DP5	06/05/06 18:11	94.7	92.9	96.4	91.6	☐
23	H590DZ	06/05/06 18:15	91.2	92.6	95.9	90.5	☑
24	H590F	06/05/06 18:19	93.5	92.7	93.7	92.2	☑
25	H590J	06/05/06 18:23	93.5	93.6	93.6	92.1	☑
26	CCV 3	06/05/06 18:27	94.0	90.3	98.3	89.5	☑
27	CCB 3	06/05/06 18:32	96.1	92.1	98.0	91.4	☑
28	CCV 4	06/05/06 18:36	93.5	89.7	97.8	89.1	☑
29	CCB 4	06/05/06 18:40	95.0	91.7	97.8	90.9	☑
30	H590K	06/05/06 18:44	94.7	93.6	94.2	92.0	☑
31	H590N	06/05/06 18:48	94.2	94.2	95.4	92.7	☑
32	H590R	06/05/06 18:52	95.0	94.6	93.7	93.3	☑
33	H590T	06/05/06 18:57	94.8	94.0	96.7	91.8	☑
34	H590X	06/05/06 19:01	94.6	92.6	97.5	92.0	☑
35	H5900	06/05/06 19:05	94.9	93.0	96.2	92.7	☑
36	H5901	06/05/06 19:09	94.8	93.5	99.2	93.0	☑
37	H5902	06/05/06 19:13	94.6	92.8	100.9	93.7	☑
38	H5903	06/05/06 19:17	93.6	91.5	99.7	91.6	☑
39	H5904	06/05/06 19:22	94.2	92.7	99.3	93.3	☑
40	CCV 5	06/05/06 19:26	93.7	88.8	104.8	88.6	☑
41	CCB 5	06/05/06 19:30	93.9	88.2	103.0	89.9	☑
42	CCV 6	06/05/06 19:34	92.4	87.1	100.3	88.6	☑
43	CCB 6	06/05/06 19:38	92.7	88.3	99.9	90.3	☑
44	CCV 7	06/05/06 19:41	92.9	87.2	102.7	88.1	☑
45	CCB 7	06/05/06 19:45	94.0	90.0	101.7	90.4	☑
46	H6PRTB	06/05/06 19:49	93.0	92.0	100.6	93.6	☑

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:09:25

File ID: **060605A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
47	H6PRTC	06/05/06 19:52	91.5	90.5	102.4	92.4	☑
48	H6PRTL	06/05/06 19:56	91.1	89.9	100.7	92.4	☑
49	H6N39	06/05/06 20:00	90.8	89.5	94.6	91.3	☑
50	H6N39P5	06/05/06 20:03	94.5	90.0	99.2	92.6	☐
51	H6N39X	06/05/06 20:07	91.8	90.4	96.3	91.9	☑
52	H6N39Z	06/05/06 20:10	89.9	89.0	97.3	90.5	☑
53	H6N4A	06/05/06 20:14	91.0	88.4	95.4	92.1	☑
54	H6N4C	06/05/06 20:18	91.6	88.0	98.0	92.0	☑
55	H6N4D	06/05/06 20:21	89.8	89.2	97.3	90.9	☑
56	CCV 8	06/05/06 20:25	91.7	87.3	101.0	88.5	☑
57	CCB 8	06/05/06 20:28	94.7	89.2	101.8	91.5	☑
58	CCV 9	06/05/06 20:32	91.4	87.1	101.7	89.2	☑
59	CCB 9	06/05/06 20:36	94.6	90.2	101.8	90.3	☑
60	H6N4E	06/05/06 20:39	91.5	90.4	96.6	91.9	☑
61	H6N4F	06/05/06 20:43	92.0	90.9	97.8	92.5	☑
62	H6N4G	06/05/06 20:47	92.3	89.6	96.2	91.7	☑
63	H6N4H	06/05/06 20:50	91.7	89.8	99.8	92.2	☑
64	H6N4J	06/05/06 20:54	91.4	91.2	95.9	91.8	☑
65	H6N4K	06/05/06 20:58	92.1	90.4	98.0	92.2	☑
66	H6N4L	06/05/06 21:01	92.0	89.8	96.5	92.2	☑
67	H6N4M	06/05/06 21:05	91.9	90.4	98.2	92.5	☑
68	H6N4N	06/05/06 21:09	90.1	89.0	97.0	91.6	☑
69	H6N4P	06/05/06 21:12	90.8	90.1	95.5	90.8	☑
70	CCV 10	06/05/06 21:16	91.8	86.2	103.3	88.5	☑
71	CCB 10	06/05/06 21:20	94.7	87.9	102.6	91.0	☑
74	CCV 11	06/05/06 21:23	96.6	97.9	100.5	96.5	☑
75	CCB 11	06/05/06 21:27	98.6	99.7	99.1	99.6	☑
76	H6P49C	06/05/06 21:31	95.1	100.9	101.2	101.0	☑
77	H6P49L	06/05/06 21:34	93.7	100.3	98.6	100.3	☑
78	Rinse	06/05/06 21:38	97.6	99.5	100.5	101.4	☑
79	H6P49B	06/05/06 21:42	97.8	104.1	96.5	103.5	☑
80	H6P1N	06/05/06 21:45	95.0	101.3	95.7	99.5	☑
81	H6P1NP5	06/05/06 21:49	98.9	100.2	99.8	100.0	☐
82	H6P1NX	06/05/06 21:52	96.0	101.4	96.6	100.8	☑
83	H6P1NZ	06/05/06 21:56	95.2	101.0	96.3	100.2	☑
84	H6P1Q	06/05/06 21:59	96.1	100.4	94.2	101.0	☑
85	H6P1R	06/05/06 22:03	95.5	99.8	93.0	99.2	☑
86	CCV 12	06/05/06 22:07	95.8	96.6	99.0	96.3	☑
87	CCB 12	06/05/06 22:10	98.2	99.8	100.4	99.4	☑
88	CCV 13	06/05/06 22:14	96.0	96.4	99.8	96.0	☑
89	CCB 13	06/05/06 22:18	98.7	99.2	96.4	98.9	☑
90	H6P1T	06/05/06 22:21	95.5	101.8	93.4	99.7	☑
91	H6P1V	06/05/06 22:25	94.9	100.7	94.6	99.0	☑
92	H6P1W	06/05/06 22:29	97.1	102.0	94.6	101.2	☑
93	H6P1X	06/05/06 22:32	95.3	101.0	93.5	99.6	☑
94	H6P11	06/05/06 22:36	97.1	101.0	94.5	100.5	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:09:25

File ID: **060605A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
95	H6P12	06/05/06 22:39	96.4	100.6	94.5	100.4	☑
96	H6P14	06/05/06 22:43	94.8	101.1	93.8	99.1	☑
97	H6P15	06/05/06 22:47	96.2	101.4	94.6	100.8	☑
98	H6P16	06/05/06 22:50	95.3	100.6	94.3	99.8	☑
99	H6P17	06/05/06 22:54	96.0	100.4	90.0	98.4	☑
100	CCV 14	06/05/06 22:58	97.6	98.0	101.6	96.9	☑
101	CCB 14	06/05/06 23:01	99.0	99.4	99.9	98.9	☑

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

File Name: 6153232.mth
File Path: C:\elandata\Method\6153232.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	c:\elandata\Tuning\default.tun
Optimization File:	c:\elandata\Optimize\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
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
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
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
Kr	82.914	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
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	- 0.00365 * 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			
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			
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				

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
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100

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

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 2532-60D

Internal standard: 2532-66B

Blank, CCBs: 2531-22B

Standard 1, CCVs: 2532-65D

ICV: 2532-63D

ICSA: 2532-63E

ICSAB: 2532-64A

File Number: **060605A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Monday, June 05, 2006 15:15:24

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1561	0.719	2037	
Be	9.012	9.029	2064	0.730	2026	
Co	58.933	58.929	14292	0.731	1900	
In	114.904	114.878	27954	0.734	1862	
Ce	139.905	139.929	34038	0.726	1907	
Tl	204.975	205.029	49741	0.727	2130	
Pb	207.977	208.028	50464	0.716	2147	
U	238.050	238.076	57685	0.712	2310	

Report Date/Time: Monday, June 05, 2006 15:17:02

Elan 6000 Instrument Optomization Report

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

Sample Information

Sample Date/Time: Monday, June 05, 2006 15:15:24
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.5
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:	15:18:57 Mon 05-Jun-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	060605A1\
Lens Voltage Start:	3.00 V
Lens Voltage End:	7.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0142
Intercept:	4.1375

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.3 V	5338 cps	17
Co	58.933	5.0 V	257988 cps	17
In	114.904	5.8 V	530417 cps	17

Dual Detector Calibration

Date:	17:55:10 Tue 30-May-06
Sample Filename:	DUAL BJONES.750
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	6.014	7723	1.62e+009 cps
Li	7.014	7117	1.76e+009 cps
Be	9.010	6706	1.87e+009 cps
B	11.010	7010	1.79e+009 cps
Na	22.992	6936	1.80e+009 cps

Report Date/Time: Monday, June 05, 2006 15:25:59
Page 1

Mg	23.983	6518	1.92e+009 cps
Mg	24.987	6365	1.97e+009 cps
Al	26.983	6139	2.04e+009 cps
P	30.994	5674	2.21e+009 cps
K	38.964	5473	2.29e+009 cps
Ca	42.960	5175	2.42e+009 cps
Ca	43.955	5481	2.28e+009 cps
Sc	44.955	5487	2.28e+009 cps
V	50.942	5308	2.36e+009 cps
Cr	51.942	5129	2.44e+009 cps
Fe	53.942	5059	2.47e+009 cps
Mn	54.937	4910	2.55e+009 cps
Fe	56.937	4849	2.58e+009 cps
Co	58.934	4796	2.61e+009 cps
Ni	59.932	4668	2.68e+009 cps
Cu	62.932	4558	2.75e+009 cps
Cu	64.929	4516	2.77e+009 cps
Zn	67.924	4595	2.72e+009 cps
Ge	71.922	4628	2.71e+009 cps
As	74.921	4543	2.76e+009 cps
Se	77.917	4664	2.68e+009 cps
Br	78.919	4517	2.77e+009 cps
Se	81.919	4549	2.75e+009 cps
Sr	87.906	4612	2.71e+009 cps
Mo	96.904	4643	2.70e+009 cps
Ag	106.905		cps
Ag	108.906		cps
Cd	110.903	4200	2.98e+009 cps
Cd	113.903	4216	2.97e+009 cps
In	114.903	4241	2.95e+009 cps
Sn	117.900	4307	2.91e+009 cps
Sb	120.905	4311	2.90e+009 cps
Ba	134.906	4221	2.97e+009 cps
Tm	168.936	4016	3.12e+009 cps
Tl	204.975	3786	3.31e+009 cps
Pb	207.979	3768	3.32e+009 cps
Bi	208.978	3827	3.27e+009 cps
U	238.050	3792	3.30e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Monday, June 05, 2006 15:26:16
Sample Description:
Sample File: C:\elandata\Sample\6151324X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\060605A1\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	79153.340	3452.525	4.362
	Rh	103	397994.010	8995.706	2.260
	Pb	208	205519.357	3845.865	1.871
⌈>	Ba	138	358657.133	4998.910	1.394
⌊	Ba++	69	0.032	0.000	1.551
⌈>	Ce	140	433046.330	6924.852	1.599
⌊	CeO	156	0.028	0.001	3.187
	Bkgd	220	5.429	3.097	57.051
	Li	7	22794.769	348.662	1.530
	Be	9	6026.025	195.319	3.241
	Co	59	242827.045	8004.838	3.297
	In	115	514661.675	11622.442	2.258
	Tl	205	251822.748	4391.438	1.744

Sample ID: H590D n.i.
Sample Description: G6E260199-1 N.I.
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 15:53:53
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060605A1\H590D n.i..004
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			849.077	ug/L	0.000
45	Sc			17033.979	ug/L	0.000
69	Ga			8575.323	ug/L	0.000
72	Ge			2384.992	ug/L	0.000
89	Y			7166.341	ug/L	0.000
103	Rh			76.667	ug/L	0.000
115	In			733.081	ug/L	0.000
133	Cs			4964.796	ug/L	0.000
165	Ho			258.098	ug/L	0.000
169	Tm			331.433	ug/L	0.000
209	Bi			1918.242	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	100.782
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	103.000
Bi	209	

Sample ID: H6N39 n.i.
Sample Description: G6F030213-1 N.I.
Batch ID: 6156250
Sample Date/Time: Monday, June 05, 2006 15:56:40
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060605A1\H6N39 n.i..005
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 28
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			945.274	ug/L	0.000
45	Sc			31511.583	ug/L	0.000
69	Ga			52721.511	ug/L	0.000
72	Ge			5403.553	ug/L	0.000
89	Y			55947.316	ug/L	0.000
103	Rh			1002.421	ug/L	0.000
115	In			1307.178	ug/L	0.000
133	Cs			6339.703	ug/L	0.000
165	Ho			1731.549	ug/L	0.000
169	Tm			793.835	ug/L	0.000
209	Bi			10971.956	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	100.782
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	103.000
Bi	209	

Sample ID: H6P1N n.i.
Sample Description: G6F050151-1 N.I.
Batch ID: 6156386
Sample Date/Time: Monday, June 05, 2006 15:59:27
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: C:\elandata\Dataset\060605A1\H6P1N n.i..006
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 29
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			925.272	ug/L	0.000
45	Sc			28769.740	ug/L	0.000
69	Ga			57622.037	ug/L	0.000
72	Ge			5148.205	ug/L	0.000
89	Y			57637.357	ug/L	0.000
103	Rh			1005.755	ug/L	0.000
115	In			1260.783	ug/L	0.000
133	Cs			5352.098	ug/L	0.000
165	Ho			1856.328	ug/L	0.000
169	Tm			752.880	ug/L	0.000
209	Bi			10980.059	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	100.782
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	103.000
Bi	209	

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

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 16:39:32
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\Rinse 3X.007
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			1899096.460	ug/L	1881116.394
>	6	Li-1			803307.316	ug/L	816444.516
	9	Be	-0.001161	96.439	2.667	ug/L	3.333
	44	Ca	-1.039170	135.159	47507.631	ug/L	48114.931
	51	V	-0.358944	57.859	-65905.360	ug/L	-59183.694
	52	Cr	0.059240	88.964	64864.588	ug/L	63961.628
	55	Mn	-0.182212	7.163	8834.795	ug/L	14009.208
	59	Co	-0.002841	30.019	242.337	ug/L	299.005
	60	Ni	-0.324144	5.463	791.585	ug/L	2208.256
	65	Cu	-0.072365	10.972	1159.707	ug/L	1457.522
	68	Zn	-2.889296	123.700	49450.708	ug/L	53775.708
	75	As	-0.149353	174.299	25603.938	ug/L	26187.225
	82	Se	-0.088248	36.619	711.701	ug/L	744.814
	97	Mo	0.007549	19.342	112.334	ug/L	90.000
>	72	Ge-1			1383417.839	ug/L	1384912.119
	107	Ag	0.001389	38.834	122.668	ug/L	100.001
	111	Cd	0.003012	115.963	60.077	ug/L	49.633
	121	Sb	0.000233	659.829	124.334	ug/L	120.668
	135	Ba	0.007008	103.534	417.343	ug/L	394.342
>	115	In-1			1382468.815	ug/L	1363939.855
	208	Pb	-0.126435	105.271	21319.047	ug/L	25164.952
>	169	Tm-1			739164.778	ug/L	746593.264
	50	Cr	0.036712	226.265	-1487.622	ug/L	-1503.705
	53	Cr	2.889346	38.702	246445.061	ug/L	241354.943
	61	Ni	0.129515	1937.075	3120.227	ug/L	3114.218
	63	Cu	-0.075082	29.991	805.104	ug/L	1041.507
	67	Zn	-2.258549	135.617	5821.100	ug/L	6118.830
	66	Zn	-2.973024	125.646	25541.064	ug/L	27755.243
	76	Se	-609.413434	158.929	-162659.109	ug/L	-162009.516
	77	Se	-0.074651	1418.253	24537.732	ug/L	24583.153
	78	Se	0.048536	737.639	29884.050	ug/L	29872.447
	79	Br	26.264855	798.216	76713.780	ug/L	76592.059
>	72	Ge			1383417.839	ug/L	1384912.119
	108	Cd	0.006088	265.338	3.199	ug/L	1.705
	114	Cd	0.000355	461.161	98.653	ug/L	94.805

Report Date/Time: Monday, June 05, 2006 17:21:41
Page 1
Sample ID: Rinse 3X

	109 Ag	0.002003	40.131	50.667	ug/L	39.667
>	115 In			1382468.815	ug/L	1363939.855
	208 207.977	-0.142607	99.393	11295.770	ug/L	13464.844
	207 Pb	-0.116850	110.598	4625.913	ug/L	5401.745
	206 Pb	-0.104956	115.039	5397.365	ug/L	6298.363
>	169 Tm			739164.778	ug/L	746593.264
	106 Pd	0.015883	32.733	12.667	ug/L	8.000
	83 Kr	250.001196	236.655	756.356	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.391
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	99.892
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.358
	Pb	208	
>	Tm-1	169	99.005
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.892
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.358
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.005
	Pd	106	
	Kr	83	

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

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 16:43:58
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\Blank.008
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			1881116.394	ug/L	
>	6	Li-1			816444.516	ug/L	
	9	Be			3.333	ug/L	
	44	Ca			48114.931	ug/L	
	51	V			-59183.694	ug/L	
	52	Cr			63961.628	ug/L	
	55	Mn			14009.208	ug/L	
	59	Co			299.005	ug/L	
	60	Ni			2208.256	ug/L	
	65	Cu			1457.522	ug/L	
	68	Zn			53775.708	ug/L	
	75	As			26187.225	ug/L	
	82	Se			744.814	ug/L	
	97	Mo			90.000	ug/L	
>	72	Ge-1			1384912.119	ug/L	
	107	Ag			100.001	ug/L	
	111	Cd			49.633	ug/L	
	121	Sb			120.668	ug/L	
	135	Ba			394.342	ug/L	
>	115	In-1			1363939.855	ug/L	
	208	Pb			25164.952	ug/L	
>	169	Tm-1			746593.264	ug/L	
	50	Cr			-1503.705	ug/L	
	53	Cr			241354.943	ug/L	
	61	Ni			3114.218	ug/L	
	63	Cu			1041.507	ug/L	
	67	Zn			6118.830	ug/L	
	66	Zn			27755.243	ug/L	
	76	Se			-162009.516	ug/L	
	77	Se			24583.153	ug/L	
	78	Se			29872.447	ug/L	
	79	Br			76592.059	ug/L	
>	72	Ge			1384912.119	ug/L	
	108	Cd			1.705	ug/L	
	114	Cd			94.805	ug/L	

	109 Ag	39.667	ug/L
>	115 In	1363939.855	ug/L
	208 207.977	13464.844	ug/L
	207 Pb	5401.745	ug/L
	206 Pb	6298.363	ug/L
>	169 Tm	746593.264	ug/L
	106 Pd	8.000	ug/L
	83 Kr	731.355	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	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	
	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	
	Kr	83	

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

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 16:48:19
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\Standard 1.009
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			1812456.518	ug/L	1881116.394
>	6	Li-1			814686.305	ug/L	816444.516
	9	Be	100.000000	1.026	53384.361	ug/L	3.333
	44	Ca	5100.000000	0.416	2736742.550	ug/L	48114.931
	51	V	100.000000	3.181	1818051.547	ug/L	-59183.694
	52	Cr	100.000000	3.098	1685070.193	ug/L	63961.628
	55	Mn	100.000000	1.139	2819948.136	ug/L	14009.208
	59	Co	100.000000	2.235	1963358.003	ug/L	299.005
	60	Ni	100.000000	2.351	434612.853	ug/L	2208.256
	65	Cu	100.000000	3.060	407002.289	ug/L	1457.522
	68	Zn	100.000000	10.312	199379.357	ug/L	53775.708
	75	As	100.000000	2.322	391784.814	ug/L	26187.225
	82	Se	100.000000	3.162	36966.680	ug/L	744.814
	97	Mo	200.000000	2.237	589169.876	ug/L	90.000
>	72	Ge-1			1371475.422	ug/L	1384912.119
	107	Ag	50.000000	0.739	738750.673	ug/L	100.001
	111	Cd	100.000000	0.233	314697.945	ug/L	49.633
	121	Sb	50.000000	0.796	442682.570	ug/L	120.668
	135	Ba	100.000000	1.499	243647.714	ug/L	394.342
>	115	In-1			1330250.408	ug/L	1363939.855
	208	Pb	100.000000	1.522	2737495.309	ug/L	25164.952
>	169	Tm-1			707491.446	ug/L	746593.264
	50	Cr	100.000000	4.888	37893.050	ug/L	-1503.705
	53	Cr	100.000000	11.999	422157.535	ug/L	241354.943
	61	Ni	100.000000	2.545	10195.609	ug/L	3114.218
	63	Cu	100.000000	1.513	311403.072	ug/L	1041.507
	67	Zn	100.000000	11.967	18830.381	ug/L	6118.830
	66	Zn	100.000000	10.478	100183.246	ug/L	27755.243
	76	Se	100.000000	4808.828	-160391.478	ug/L	-162009.516
	77	Se	100.000000	8.836	50790.690	ug/L	24583.153
	78	Se	100.000000	2.781	120378.181	ug/L	29872.447
	79	Br	100.000000	540.566	76547.832	ug/L	76592.059
>	72	Ge			1371475.422	ug/L	1384912.119
	108	Cd	100.000000	1.190	22935.070	ug/L	1.705
	114	Cd	100.000000	0.695	718149.019	ug/L	94.805

	109 Ag	50.000000	0.427	250254.925	ug/L	39.667
>	115 In			1330250.408	ug/L	1363939.855
	208 207.977	100.000000	2.585	1374434.263	ug/L	13464.844
	207 Pb	100.000000	0.873	594822.194	ug/L	5401.745
	206 Pb	100.000000	0.959	768238.852	ug/L	6298.363
>	169 Tm			707491.446	ug/L	746593.264
	106 Pd	100.000000	1.161	29390.281	ug/L	8.000
	83 Kr	100.000000	465.763	741.355	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	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	
	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	
	Kr	83	

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, June 05, 2006 16:52:24
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\ICV .010
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			1834290.311	ug/L	1881116.394
>	6	Li-1			799969.120	ug/L	816444.516
	9	Be	82.241225	0.862	43111.949	ug/L	3.333
	44	Ca	919.750590	1.288	540801.895	ug/L	48114.931
	51	V	79.962429	2.765	1464777.623	ug/L	-59183.694
	52	Cr	82.019329	0.740	1415417.077	ug/L	63961.628
	55	Mn	80.687435	1.313	2313156.218	ug/L	14009.208
	59	Co	79.810216	1.678	1591476.063	ug/L	299.005
	60	Ni	80.136253	1.039	354172.821	ug/L	2208.256
	65	Cu	80.305709	1.031	332285.291	ug/L	1457.522
	68	Zn	73.162198	7.304	162745.618	ug/L	53775.708
	75	As	75.926435	1.505	308466.126	ug/L	26187.225
	82	Se	77.803491	0.324	29381.390	ug/L	744.814
	97	Mo	79.087157	0.655	236677.329	ug/L	90.000
>	72	Ge-1			1392535.700	ug/L	1384912.119
	107	Ag	41.941094	1.225	611167.144	ug/L	100.001
	111	Cd	81.592872	0.379	253223.475	ug/L	49.633
	121	Sb	38.862252	1.126	339344.751	ug/L	120.668
	135	Ba	81.285683	0.537	195375.209	ug/L	394.342
>	115	In-1			1311805.038	ug/L	1363939.855
	208	Pb	83.673989	0.907	2307690.861	ug/L	25164.952
>	169	Tm-1			711488.280	ug/L	746593.264
	50	Cr	67.733264	2.393	25579.777	ug/L	-1503.705
	53	Cr	77.603656	6.310	387211.798	ug/L	241354.943
	61	Ni	75.820779	4.892	8606.843	ug/L	3114.218
	63	Cu	79.856293	2.382	252743.524	ug/L	1041.507
	67	Zn	71.907285	9.492	15488.027	ug/L	6118.830
	66	Zn	72.202010	9.247	81261.934	ug/L	27755.243
	76	Se	-4304.395494	23.832	-168801.990	ug/L	-162009.516
	77	Se	72.340160	3.565	44165.227	ug/L	24583.153
	78	Se	77.243279	1.227	101274.414	ug/L	29872.447
	79	Br	-166.834009	207.916	75731.209	ug/L	76592.059
>	72	Ge			1392535.700	ug/L	1384912.119
	108	Cd	78.200051	0.587	17689.017	ug/L	1.705
	114	Cd	81.731401	0.438	578871.631	ug/L	94.805

	109 Ag	42.264110	0.643	208609.349	ug/L	39.667
>	115 In			1311805.038	ug/L	1363939.855
	208 207.977	85.394395	0.636	1182423.611	ug/L	13464.844
	207 Pb	80.909505	1.392	485005.457	ug/L	5401.745
	206 Pb	82.738939	1.521	640261.792	ug/L	6298.363
>	169 Tm			711488.280	ug/L	746593.264
	106 Pd	79.558862	1.249	23384.208	ug/L	8.000
	83 Kr	-506.668688	42.208	680.685	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.982
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	100.550
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.178
	Pb	208	
>	Tm-1	169	95.298
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	100.550
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	96.178
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.298
	Pd	106	
	Kr	83	

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, June 05, 2006 16:56:34
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\ICB.011
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			1849663.266	ug/L	1881116.394
>	6	Li-1			800609.404	ug/L	816444.516
	9	Be	0.003325	62.917	5.000	ug/L	3.333
	44	Ca	-5.516963	40.622	44307.566	ug/L	48114.931
	51	V	0.768771	93.055	-43593.580	ug/L	-59183.694
	52	Cr	0.225887	88.654	66338.313	ug/L	63961.628
	55	Mn	0.006089	250.330	13908.714	ug/L	14009.208
	59	Co	0.005836	43.233	406.343	ug/L	299.005
	60	Ni	-0.034463	151.774	2016.190	ug/L	2208.256
	65	Cu	-0.010186	196.656	1388.010	ug/L	1457.522
	68	Zn	-3.465358	243.523	47591.656	ug/L	53775.708
	75	As	-0.142467	36.734	25176.523	ug/L	26187.225
	82	Se	-0.069504	130.401	706.201	ug/L	744.814
	97	Mo	0.110800	30.817	410.677	ug/L	90.000
>	72	Ge-1			1358770.979	ug/L	1384912.119
	107	Ag	0.014274	22.291	307.672	ug/L	100.001
	111	Cd	0.001674	213.593	53.543	ug/L	49.633
	121	Sb	0.179656	18.622	1703.502	ug/L	120.668
	135	Ba	0.016498	91.835	424.010	ug/L	394.342
>	115	In-1			1328722.934	ug/L	1363939.855
	208	Pb	-0.205568	42.100	18762.907	ug/L	25164.952
>	169	Tm-1			727165.557	ug/L	746593.264
	50	Cr	0.184798	83.078	-1402.396	ug/L	-1503.705
	53	Cr	-7.356975	80.387	223273.775	ug/L	241354.943
	61	Ni	-1.424595	69.774	2955.064	ug/L	3114.218
	63	Cu	-0.013388	89.227	980.154	ug/L	1041.507
	67	Zn	-2.603315	302.640	5661.878	ug/L	6118.830
	66	Zn	-3.719250	248.919	24472.580	ug/L	27755.243
	76	Se	-3872.734178	67.728	-164173.758	ug/L	-162009.516
	77	Se	-9.415008	29.582	21638.715	ug/L	24583.153
	78	Se	-1.581918	20.949	27880.714	ug/L	29872.447
	79	Br	-11.127695	3311.366	75023.841	ug/L	76592.059
>	72	Ge			1358770.979	ug/L	1384912.119
	108	Cd	0.024211	55.160	7.199	ug/L	1.705
	114	Cd	0.001550	185.559	103.306	ug/L	94.805

	109 Ag	0.014039	25.563	108.669	ug/L	39.667
>	115 In			1328722.934	ug/L	1363939.855
	208 207.977	-0.231692	40.094	9864.280	ug/L	13464.844
	207 Pb	-0.185417	48.997	4134.320	ug/L	5401.745
	206 Pb	-0.174484	41.796	4764.307	ug/L	6298.363
>	169 Tm			727165.557	ug/L	746593.264
	106 Pd	0.022689	70.887	14.667	ug/L	8.000
	83 Kr	-503.335134	71.108	681.019	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.060
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.112
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.418
	Pb	208	
>	Tm-1	169	97.398
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.112
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.418
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.398
	Pd	106	
	Kr	83	

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

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:00:44
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\ICSA.012
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			1231274.440	ug/L	1881116.394
>	6	Li-1			597538.552	ug/L	816444.516
	9	Be	0.029505	67.435	14.000	ug/L	3.333
	44	Ca	89058.612751	1.671	33824579.293	ug/L	48114.931
	51	V	1.175827	28.129	-26245.644	ug/L	-59183.694
	52	Cr	1.345709	11.249	61280.552	ug/L	63961.628
	55	Mn	1.760823	0.952	45542.890	ug/L	14009.208
	59	Co	1.673506	1.549	23858.819	ug/L	299.005
	60	Ni	2.400589	5.228	9049.856	ug/L	2208.256
	65	Cu	0.727303	8.965	3162.799	ug/L	1457.522
	68	Zn	-10.485960	20.857	27308.840	ug/L	53775.708
	75	As	-0.382825	47.969	17650.100	ug/L	26187.225
	82	Se	0.644131	186.271	697.146	ug/L	744.814
	97	Mo	2036.771852	1.784	4317839.675	ug/L	90.000
>	72	Ge-1			987010.754	ug/L	1384912.119
	107	Ag	0.244568	2.090	3030.858	ug/L	100.001
	111	Cd	0.655783	19.747	1722.364	ug/L	49.633
	121	Sb	2.317364	1.944	16850.543	ug/L	120.668
	135	Ba	0.876858	2.809	2056.242	ug/L	394.342
>	115	In-1			1086732.253	ug/L	1363939.855
	208	Pb	0.650793	9.151	30841.555	ug/L	25164.952
>	169	Tm-1			525913.431	ug/L	746593.264
	50	Cr	134.366781	27.258	37130.265	ug/L	-1503.705
	53	Cr	-19.483970	3.275	146293.489	ug/L	241354.943
	61	Ni	30.724005	1.499	3791.966	ug/L	3114.218
	63	Cu	6.022660	1.191	14195.839	ug/L	1041.507
	67	Zn	17.316090	21.846	5958.028	ug/L	6118.830
	66	Zn	-5.447294	37.531	16938.980	ug/L	27755.243
	76	Se	-16205.444599	7.530	-131191.563	ug/L	-162009.516
	77	Se	18.850815	11.364	21115.165	ug/L	24583.153
	78	Se	0.221644	216.135	21431.168	ug/L	29872.447
	79	Br	969042.720660	1.629	5314336.904	ug/L	76592.059
>	72	Ge			987010.754	ug/L	1384912.119
	108	Cd	79.619826	1.316	14917.990	ug/L	1.705
	114	Cd	4.847177	2.990	28503.067	ug/L	94.805

	109 Ag	0.222446	7.401	940.809	ug/L	39.667
>	115 In			1086732.253	ug/L	1363939.855
	208 207.977	0.671169	10.471	16271.455	ug/L	13464.844
	207 Pb	0.667733	9.842	6729.255	ug/L	5401.745
	206 Pb	0.601279	7.287	7840.845	ug/L	6298.363
>	169 Tm			525913.431	ug/L	746593.264
	106 Pd	0.569510	8.374	175.335	ug/L	8.000
	83 Kr	4596.770043	9.991	1191.057	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	73.188
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	71.269
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	79.676
	Pb	208	
>	Tm-1	169	70.442
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	71.269
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	79.676
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	70.442
	Pd	106	
	Kr	83	

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

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:04:52
Method File: C:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\ICSAB.013
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			1235186.729	ug/L	1881116.394
>	6	Li-1			596596.852	ug/L	816444.516
	9	Be	92.694557	0.902	36239.223	ug/L	3.333
	44	Ca	89671.773598	1.076	33066046.044	ug/L	48114.931
	51	V	93.950644	0.838	1191350.406	ug/L	-59183.694
	52	Cr	98.566926	0.930	1161430.541	ug/L	63961.628
	55	Mn	89.311558	1.200	1760655.677	ug/L	14009.208
	59	Co	95.103168	0.775	1304844.739	ug/L	299.005
	60	Ni	88.442580	0.929	268797.601	ug/L	2208.256
	65	Cu	83.616922	0.572	238030.938	ug/L	1457.522
	68	Zn	95.306596	37.014	134299.554	ug/L	53775.708
	75	As	98.227020	1.043	269267.554	ug/L	26187.225
	82	Se	110.321970	1.054	28450.874	ug/L	744.814
	97	Mo	2136.144120	0.423	4397030.123	ug/L	90.000
>	72	Ge-1			958214.226	ug/L	1384912.119
	107	Ag	44.214127	0.747	534039.262	ug/L	100.001
	111	Cd	96.296010	0.191	247725.119	ug/L	49.633
	121	Sb	52.667562	0.543	381184.634	ug/L	120.668
	135	Ba	102.174360	0.365	203486.581	ug/L	394.342
>	115	In-1			1087390.147	ug/L	1363939.855
	208	Pb	96.441796	0.837	1957403.600	ug/L	25164.952
>	169	Tm-1			524327.988	ug/L	746593.264
	50	Cr	198.166345	12.444	53481.843	ug/L	-1503.705
	53	Cr	88.204314	2.331	280038.081	ug/L	241354.943
	61	Ni	118.189335	0.910	8027.631	ug/L	3114.218
	63	Cu	89.879062	0.696	195647.518	ug/L	1041.507
	67	Zn	125.143725	22.931	15392.729	ug/L	6118.830
	66	Zn	102.844590	35.656	71336.975	ug/L	27755.243
	76	Se	-9282.650852	13.082	-120854.857	ug/L	-162009.516
	77	Se	124.007909	1.574	39952.099	ug/L	24583.153
	78	Se	105.180567	1.193	87410.788	ug/L	29872.447
	79	Br	16960.312751	10.084	142465.117	ug/L	76592.059
>	72	Ge			958214.226	ug/L	1384912.119
	108	Cd	170.850164	1.183	32033.338	ug/L	1.705
	114	Cd	101.177235	0.352	593985.712	ug/L	94.805

	109 Ag	45.264638	0.896	185197.001	ug/L	39.667
>	115 In			1087390.147	ug/L	1363939.855
	208 207.977	98.953394	1.176	1008222.672	ug/L	13464.844
	207 Pb	93.428624	0.569	412126.999	ug/L	5401.745
	206 Pb	94.285512	0.697	537053.929	ug/L	6298.363
>	169 Tm			524327.988	ug/L	746593.264
	106 Pd	76.588984	1.150	22511.590	ug/L	8.000
	83 Kr	3646.734218	4.095	1096.048	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	73.073
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	69.190
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	79.724
	Pb	208	
>	Tm-1	169	70.229
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	69.190
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	79.724
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	70.229
	Pd	106	
	Kr	83	

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

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:25:35
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\Rinse.014
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			1760356.282	ug/L	1881116.394
>	6	Li-1			760662.175	ug/L	816444.516
	9	Be	-0.000145	2865.751	3.000	ug/L	3.333
	44	Ca	-28.185042	1.230	31308.246	ug/L	48114.931
	51	V	-0.036191	1292.983	-56596.603	ug/L	-59183.694
	52	Cr	-0.317572	26.096	55569.311	ug/L	63961.628
	55	Mn	-0.220769	4.319	7331.072	ug/L	14009.208
	59	Co	-0.004128	25.615	205.336	ug/L	299.005
	60	Ni	-0.388323	1.379	484.287	ug/L	2208.256
	65	Cu	-0.117776	3.197	922.002	ug/L	1457.522
	68	Zn	-16.281127	18.166	28117.793	ug/L	53775.708
	75	As	-0.517498	12.780	22955.244	ug/L	26187.225
	82	Se	-0.241296	54.668	620.962	ug/L	744.814
	97	Mo	0.106217	8.711	384.008	ug/L	90.000
>	72	Ge-1			1309668.512	ug/L	1384912.119
	107	Ag	0.000677	84.289	102.001	ug/L	100.001
	111	Cd	-0.005472	84.478	29.592	ug/L	49.633
	121	Sb	0.001593	75.178	125.001	ug/L	120.668
	135	Ba	-0.014214	35.944	332.006	ug/L	394.342
>	115	In-1			1261791.962	ug/L	1363939.855
	208	Pb	-0.493323	4.726	10245.366	ug/L	25164.952
>	169	Tm-1			692928.398	ug/L	746593.264
	50	Cr	0.001279	4958.163	-1421.596	ug/L	-1503.705
	53	Cr	0.544780	326.457	229205.141	ug/L	241354.943
	61	Ni	2.464472	98.556	3112.886	ug/L	3114.218
	63	Cu	-0.097008	9.562	697.411	ug/L	1041.507
	67	Zn	-13.236811	27.263	4171.138	ug/L	6118.830
	66	Zn	-17.276982	18.358	14244.270	ug/L	27755.243
	76	Se	-8664.922089	11.777	-164377.272	ug/L	-162009.516
	77	Se	-12.233527	1.050	20154.235	ug/L	24583.153
	78	Se	-2.613383	22.963	25981.166	ug/L	29872.447
	79	Br	1268.410166	17.780	81572.063	ug/L	76592.059
>	72	Ge			1309668.512	ug/L	1384912.119
	108	Cd	0.004119	757.551	2.470	ug/L	1.705
	114	Cd	-0.004050	38.686	60.121	ug/L	94.805

	109 Ag	-0.000428	221.413	34.667	ug/L	39.667
>	115 In			1261791.962	ug/L	1363939.855
	208 207.977	-0.528132	4.690	5453.037	ug/L	13464.844
	207 Pb	-0.485893	4.977	2207.613	ug/L	5401.745
	206 Pb	-0.436878	5.055	2584.716	ug/L	6298.363
>	169 Tm			692928.398	ug/L	746593.264
	106 Pd	-0.005672	242.487	6.333	ug/L	8.000
	83 Kr	-1010.001115	18.319	630.349	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.168
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.567
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.511
	Pb	208	
>	Tm-1	169	92.812
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.567
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.511
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.812
	Pd	106	
	Kr	83	

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:29:46
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCV 1.015
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			1727584.616	ug/L	1881116.394
>	6	Li-1			786459.757	ug/L	816444.516
	9	Be	101.619923	2.639	52355.846	ug/L	3.333
	44	Ca	5133.784886	0.891	2583922.250	ug/L	48114.931
	51	V	100.025638	0.696	1706585.915	ug/L	-59183.694
	52	Cr	99.567538	1.212	1574645.717	ug/L	63961.628
	55	Mn	100.296735	0.493	2653215.778	ug/L	14009.208
	59	Co	99.925230	0.639	1840776.096	ug/L	299.005
	60	Ni	99.544581	1.340	405954.784	ug/L	2208.256
	65	Cu	96.551942	0.342	368813.080	ug/L	1457.522
	68	Zn X	75.034784	3.496	152946.840	ug/L	53775.708
	75	As	95.562989	0.728	352375.921	ug/L	26187.225
	82	Se	95.492750	0.442	33157.608	ug/L	744.814
	97	Mo	191.629984	1.020	529665.627	ug/L	90.000
>	72	Ge-1			1286484.772	ug/L	1384912.119
	107	Ag	49.130315	0.494	666090.530	ug/L	100.001
	111	Cd	99.228586	0.168	286526.217	ug/L	49.633
	121	Sb	49.851610	0.478	404991.742	ug/L	120.668
	135	Ba	99.493963	0.424	222429.624	ug/L	394.342
>	115	In-1			1220563.831	ug/L	1363939.855
	208	Pb	101.260163	1.728	2616820.095	ug/L	25164.952
>	169	Tm-1			667910.295	ug/L	746593.264
	50	Cr	98.221711	2.221	34895.094	ug/L	-1503.705
	53	Cr	93.374662	1.504	384882.226	ug/L	241354.943
	61	Ni	99.571583	0.826	9536.195	ug/L	3114.218
	63	Cu	98.319121	0.817	287271.041	ug/L	1041.507
	67	Zn	77.455232	5.038	14976.832	ug/L	6118.830
	66	Zn	75.610081	3.377	77414.610	ug/L	27755.243
	76	Se	-3681.531862	64.029	-155160.209	ug/L	-162009.516
	77	Se	80.765461	3.204	42897.836	ug/L	24583.153
	78	Se	95.228620	0.496	108883.905	ug/L	29872.447
	79	Br	813.965076	18.650	76910.600	ug/L	76592.059
>	72	Ge			1286484.772	ug/L	1384912.119
	108	Cd	99.651209	0.732	20972.992	ug/L	1.705
	114	Cd	99.668710	0.057	656796.540	ug/L	94.805

109	Ag	50.750557	0.872	233080.826	ug/L	39.667
> 115	In			1220563.831	ug/L	1363939.855
208	207.977	103.393485	2.515	1341358.843	ug/L	13464.844
207	Pb	98.868022	1.677	555263.872	ug/L	5401.745
206	Pb	99.299270	0.363	720197.380	ug/L	6298.363
> 169	Tm			667910.295	ug/L	746593.264
106	Pd	90.033712	1.411	26461.958	ug/L	8.000
83	Kr	-706.668642	17.001	660.684	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.327
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	92.893
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.488
	Pb	208	
>	Tm-1	169	89.461
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	92.893
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.488
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.461
	Pd	106	
	Kr	83	

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

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:33:56
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCB 1.016
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			1750209.531	ug/L	1881116.394
>	6	Li-1			774151.829	ug/L	816444.516
	9	Be	0.008309	125.110	7.333	ug/L	3.333
	44	Ca	-27.112399	5.136	32099.779	ug/L	48114.931
	51	V	0.718603	45.211	-43481.480	ug/L	-59183.694
	52	Cr	-0.554360	10.059	52308.220	ug/L	63961.628
	55	Mn	-0.029806	26.129	12549.663	ug/L	14009.208
	59	Co	0.008477	38.215	445.011	ug/L	299.005
	60	Ni	-0.051373	71.487	1889.981	ug/L	2208.256
	65	Cu	-0.039946	26.881	1233.118	ug/L	1457.522
	68	Zn	-11.308685	56.796	35278.201	ug/L	53775.708
	75	As	-0.556991	13.249	23003.848	ug/L	26187.225
	82	Se	-0.170806	28.360	650.276	ug/L	744.814
	97	Mo	0.205371	18.001	667.359	ug/L	90.000
>	72	Ge-1			1320211.982	ug/L	1384912.119
	107	Ag	0.014619	17.035	295.672	ug/L	100.001
	111	Cd	0.002377	235.338	52.718	ug/L	49.633
	121	Sb	0.005789	64.001	159.335	ug/L	120.668
	135	Ba	0.001409	889.787	366.008	ug/L	394.342
>	115	In-1			1255284.498	ug/L	1363939.855
	208	Pb	-0.419486	20.045	12080.999	ug/L	25164.952
>	169	Tm-1			685708.311	ug/L	746593.264
	50	Cr	0.621405	28.026	-1197.249	ug/L	-1503.705
	53	Cr	-17.490940	13.412	199159.181	ug/L	241354.943
	61	Ni	1.049392	93.989	3040.813	ug/L	3114.218
	63	Cu	-0.013451	62.333	952.478	ug/L	1041.507
	67	Zn	-10.322666	56.037	4557.034	ug/L	6118.830
	66	Zn	-11.963932	55.575	18046.779	ug/L	27755.243
	76	Se	-8842.984185	13.513	-165914.776	ug/L	-162009.516
	77	Se	-20.908589	5.613	18103.100	ug/L	24583.153
	78	Se	-2.929079	5.251	25916.781	ug/L	29872.447
	79	Br	628.546762	46.678	77559.576	ug/L	76592.059
>	72	Ge			1320211.982	ug/L	1384912.119
	108	Cd	0.025336	137.405	7.014	ug/L	1.705
	114	Cd	0.007185	61.619	135.863	ug/L	94.805

	109 Ag	0.012397	24.193	95.001	ug/L	39.667
>	115 In			1255284.498	ug/L	1363939.855
	208 207.977	-0.453982	19.624	6375.375	ug/L	13464.844
	207 Pb	-0.410795	20.298	2613.732	ug/L	5401.745
	206 Pb	-0.364575	20.952	3091.892	ug/L	6298.363
>	169 Tm			685708.311	ug/L	746593.264
	106 Pd	0.007941	359.421	10.333	ug/L	8.000
	83 Kr	-1036.667669	18.463	627.682	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.820
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	95.328
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.034
	Pb	208	
>	Tm-1	169	91.845
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	95.328
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.034
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.845
	Pd	106	
	Kr	83	

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

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:38:07
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCV 2.017
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			1735453.891	ug/L	1881116.394
>	6	Li-1			795578.799	ug/L	816444.516
	9	Be	100.698577	2.224	52485.610	ug/L	3.333
	44	Ca	5243.953355	1.317	2617722.632	ug/L	48114.931
	51	V	99.082181	1.677	1676862.428	ug/L	-59183.694
	52	Cr	101.509838	1.108	1591746.767	ug/L	63961.628
	55	Mn	101.081657	1.162	2652867.623	ug/L	14009.208
	59	Co	100.020290	0.626	1828106.345	ug/L	299.005
	60	Ni	99.179459	1.321	401301.474	ug/L	2208.256
	65	Cu	97.134061	0.342	368125.685	ug/L	1457.522
	68	Zn	99.730160	17.010	185312.319	ug/L	53775.708
	75	As	95.943464	1.415	350902.676	ug/L	26187.225
	82	Se	96.614624	0.597	33276.261	ug/L	744.814
	97	Mo	194.210722	1.852	532570.287	ug/L	90.000
>	72	Ge-1			1276417.768	ug/L	1384912.119
	107	Ag	49.485867	0.757	671374.462	ug/L	100.001
	111	Cd	99.259663	0.788	286802.214	ug/L	49.633
	121	Sb	50.142827	0.431	407643.553	ug/L	120.668
	135	Ba	100.334605	0.777	224448.995	ug/L	394.342
>	115	In-1			1221370.949	ug/L	1363939.855
	208	Pb	101.088142	0.239	2618584.824	ug/L	25164.952
>	169	Tm-1			669466.734	ug/L	746593.264
	50	Cr	98.209532	1.483	34618.470	ug/L	-1503.705
	53	Cr	93.301067	1.534	381744.575	ug/L	241354.943
	61	Ni	99.400172	2.090	9450.270	ug/L	3114.218
	63	Cu	98.571177	0.786	285749.123	ug/L	1041.507
	67	Zn	98.481881	13.632	17357.994	ug/L	6118.830
	66	Zn	100.617814	17.215	93715.655	ug/L	27755.243
	76	Se	-1828.766407	64.436	-151608.307	ug/L	-162009.516
	77	Se	81.761685	0.545	42805.838	ug/L	24583.153
	78	Se	96.487392	2.094	109090.106	ug/L	29872.447
	79	Br	599.756605	16.324	74803.851	ug/L	76592.059
>	72	Ge			1276417.768	ug/L	1384912.119
	108	Cd	99.523582	0.373	20960.264	ug/L	1.705
	114	Cd	100.381634	0.868	661915.395	ug/L	94.805

	109 Ag	50.560942	0.769	232352.844	ug/L	39.667
>	115 In			1221370.949	ug/L	1363939.855
	208 207.977	102.556906	1.122	1333773.882	ug/L	13464.844
	207 Pb	99.235127	1.994	558617.442	ug/L	5401.745
	206 Pb	99.897518	0.131	726193.501	ug/L	6298.363
>	169 Tm			669466.734	ug/L	746593.264
	106 Pd	89.369171	0.810	26266.701	ug/L	8.000
	83 Kr	-503.335409	31.539	681.019	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.444
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	92.166
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.547
	Pb	208	
>	Tm-1	169	89.670
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	92.166
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.547
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.670
	Pd	106	
	Kr	83	

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

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:42:17
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCB 2.018
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			1747302.754	ug/L	1881116.394
>	6	Li-1			773456.271	ug/L	816444.516
	9	Be	0.015370	55.857	11.000	ug/L	3.333
	44	Ca	-27.311400	2.283	31771.244	ug/L	48114.931
	51	V	0.482733	107.379	-47269.673	ug/L	-59183.694
	52	Cr	-0.460094	6.845	53397.103	ug/L	63961.628
	55	Mn	-0.013811	144.513	12884.151	ug/L	14009.208
	59	Co	0.011186	13.519	492.681	ug/L	299.005
	60	Ni	0.023096	493.082	2182.417	ug/L	2208.256
	65	Cu	-0.013376	43.906	1327.370	ug/L	1457.522
	68	Zn	7.571235	353.300	61233.181	ug/L	53775.708
	75	As	-0.350473	56.616	23552.211	ug/L	26187.225
	82	Se	-0.071893	62.558	679.971	ug/L	744.814
	97	Mo	0.231297	15.177	737.031	ug/L	90.000
>	72	Ge-1			1310727.194	ug/L	1384912.119
	107	Ag	0.016169	10.205	317.339	ug/L	100.001
	111	Cd	0.004045	117.057	57.512	ug/L	49.633
	121	Sb	0.007123	30.608	170.335	ug/L	120.668
	135	Ba	0.003503	124.938	370.675	ug/L	394.342
>	115	In-1			1254603.564	ug/L	1363939.855
	208	Pb	-0.074930	543.073	20845.643	ug/L	25164.952
>	169	Tm-1			679676.388	ug/L	746593.264
	50	Cr	0.548137	19.769	-1216.704	ug/L	-1503.705
	53	Cr	-15.663104	21.778	200930.687	ug/L	241354.943
	61	Ni	-0.594058	334.889	2907.354	ug/L	3114.218
	63	Cu	-0.000094	7718.891	985.489	ug/L	1041.507
	67	Zn	6.421595	349.666	6556.956	ug/L	6118.830
	66	Zn	7.430124	378.222	31305.687	ug/L	27755.243
	76	Se	-8627.891559	14.808	-164472.660	ug/L	-162009.516
	77	Se	-20.659584	6.399	18035.335	ug/L	24583.153
	78	Se	-2.113282	38.221	26431.643	ug/L	29872.447
	79	Br	423.912942	35.826	75542.962	ug/L	76592.059
>	72	Ge			1310727.194	ug/L	1384912.119
	108	Cd	0.035258	76.356	9.260	ug/L	1.705
	114	Cd	0.009281	45.132	149.951	ug/L	94.805

109	Ag	0.017986	22.961	121.336	ug/L	39.667
115	In			1254603.564	ug/L	1363939.855
208	207.977	-0.087808	495.436	11050.125	ug/L	13464.844
207	Pb	-0.060201	691.667	4551.715	ug/L	5401.745
206	Pb	-0.063318	552.332	5243.804	ug/L	6298.363
169	Tm			679676.388	ug/L	746593.264
106	Pd	0.029496	65.611	16.667	ug/L	8.000
83	Kr	-856.668298	19.614	645.683	ug/L	731.355

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	94.735
Be	9	
Ca	44	
V	51	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	94.643
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	91.984
Pb	208	
Tm-1	169	91.037
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	94.643
Cd	108	
Cd	114	
Ag	109	
In	115	91.984
207.977	208	
Pb	207	
Pb	206	
Tm	169	91.037
Pd	106	
Kr	83	

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

Sample ID: H6LDRC
Sample Description: G6F020000-232 LCS
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 17:46:29
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H6LDRC.019
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 101
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			1798486.007	ug/L	1881116.394
>	6	Li-1			801141.592	ug/L	816444.516
	9	Be	179.525861	0.734	94249.569	ug/L	3.333
	44	Ca	1206.295099	1.322	640459.515	ug/L	48114.931
	51	V	189.992680	0.533	3286578.241	ug/L	-59183.694
	52	Cr	194.647090	0.319	3017519.552	ug/L	63961.628
	55	Mn	196.230340	0.442	5171515.129	ug/L	14009.208
	59	Co	194.705488	0.603	3581719.498	ug/L	299.005
	60	Ni	192.586985	0.617	782409.003	ug/L	2208.256
	65	Cu	187.615896	1.294	714407.162	ug/L	1457.522
	68	Zn	189.796436	19.477	310016.666	ug/L	53775.708
	75	As	174.494320	0.367	622496.374	ug/L	26187.225
	82	Se	171.322125	0.730	58857.656	ug/L	744.814
	97	Mo	189.512099	1.166	523113.655	ug/L	90.000
>	72	Ge-1			1284733.374	ug/L	1384912.119
	107	Ag	46.112994	1.208	655935.873	ug/L	100.001
	111	Cd	178.922227	0.169	542025.863	ug/L	49.633
	121	Sb	44.637140	1.165	380489.311	ug/L	120.668
	135	Ba	191.070397	0.547	447821.849	ug/L	394.342
>	115	In-1			1280606.582	ug/L	1363939.855
	208	Pb	187.403455	1.815	5072838.083	ug/L	25164.952
>	169	Tm-1			702497.487	ug/L	746593.264
	50	Cr	166.613037	2.697	60089.452	ug/L	-1503.705
	53	Cr	132.796942	1.819	452108.693	ug/L	241354.943
	61	Ni	192.107832	0.739	15688.616	ug/L	3114.218
	63	Cu	180.009447	0.738	524417.743	ug/L	1041.507
	67	Zn	177.185100	17.756	26903.477	ug/L	6118.830
	66	Zn	189.961804	19.090	155278.861	ug/L	27755.243
	76	Se	584.357761	163.018	-149551.730	ug/L	-162009.516
	77	Se	116.167972	2.326	51619.045	ug/L	24583.153
	78	Se	174.249755	1.320	175966.771	ug/L	29872.447
	79	Br	-4890.362962	9.043	36497.471	ug/L	76592.059
>	72	Ge			1284733.374	ug/L	1384912.119
	108	Cd	173.227628	0.740	38251.440	ug/L	1.705
	114	Cd	178.496125	0.602	1234061.636	ug/L	94.805

109	Ag	46.835765	1.048	225676.483	ug/L	39.667
115	In			1280606.582	ug/L	1363939.855
208	207.977	194.242792	2.189	2638864.109	ug/L	13464.844
207	Pb	188.469181	2.340	1108454.178	ug/L	5401.745
206	Pb	174.358937	1.579	1325519.797	ug/L	6298.363
169	Tm			702497.487	ug/L	746593.264
106	Pd	170.666385	1.363	50153.677	ug/L	8.000
83	Kr	-363.335079	91.241	695.019	ug/L	731.355

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	98.126
Be	9	
Ca	44	
V	51	
Cr	52	
Mn	55	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	92.766
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	93.890
Pb	208	
Tm-1	169	94.094
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	92.766
Cd	108	
Cd	114	
Ag	109	
In	115	93.890
207.977	208	
Pb	207	
Pb	206	
Tm	169	94.094
Pd	106	
Kr	83	

Sample ID: H6LDRL
Sample Description: G6F020000-232 LCSD
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 17:50:34
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H6LDRL.020
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 102
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			1774093.052	ug/L	1881116.394
>	6	Li-1			777576.438	ug/L	816444.516
	9	Be	185.789904	0.351	94672.457	ug/L	3.333
	44	Ca	1222.925422	0.780	640263.626	ug/L	48114.931
	51	V	192.895785	1.829	3293933.851	ug/L	-59183.694
	52	Cr	198.156886	0.837	3030778.969	ug/L	63961.628
	55	Mn	201.349437	0.268	5236981.499	ug/L	14009.208
	59	Co	199.314055	0.754	3618787.453	ug/L	299.005
	60	Ni	193.949147	0.435	777662.580	ug/L	2208.256
	65	Cu	190.195886	1.509	714820.218	ug/L	1457.522
	68	Zn	167.741632	1.003	276139.395	ug/L	53775.708
	75	As	176.514647	0.362	621225.757	ug/L	26187.225
	82	Se	175.136723	0.776	59371.445	ug/L	744.814
	97	Mo	192.774858	0.023	525186.199	ug/L	90.000
>	72	Ge-1			1267992.990	ug/L	1384912.119
	107	Ag	47.339729	0.813	666557.876	ug/L	100.001
	111	Cd	181.947895	0.292	545589.526	ug/L	49.633
	121	Sb	45.562898	1.664	384437.469	ug/L	120.668
	135	Ba	194.150245	0.741	450411.868	ug/L	394.342
>	115	In-1			1267582.178	ug/L	1363939.855
	208	Pb	193.013559	0.232	5144675.972	ug/L	25164.952
>	169	Tm-1			691704.031	ug/L	746593.264
	50	Cr	173.685677	2.100	61873.838	ug/L	-1503.705
	53	Cr	137.866029	2.657	454782.574	ug/L	241354.943
	61	Ni	195.894726	2.590	15733.183	ug/L	3114.218
	63	Cu	182.158972	1.906	523773.931	ug/L	1041.507
	67	Zn	159.159091	3.011	24419.394	ug/L	6118.830
	66	Zn	166.944375	0.455	137763.904	ug/L	27755.243
	76	Se	2517.135912	13.877	-145191.196	ug/L	-162009.516
	77	Se	121.126799	1.269	52159.268	ug/L	24583.153
	78	Se	176.183070	1.043	175302.598	ug/L	29872.447
	79	Br	-5242.212514	8.988	33556.242	ug/L	76592.059
>	72	Ge			1267992.990	ug/L	1384912.119
	108	Cd	175.499102	0.178	38358.171	ug/L	1.705
	114	Cd	181.567903	0.642	1242521.592	ug/L	94.805

	109 Ag	47.880985	0.483	228366.314	ug/L	39.667
>	115 In			1267582.178	ug/L	1363939.855
	208 207.977	200.409436	0.368	2681012.785	ug/L	13464.844
	207 Pb	193.340322	0.497	1119769.452	ug/L	5401.745
	206 Pb	179.546380	0.682	1343893.735	ug/L	6298.363
>	169 Tm			691704.031	ug/L	746593.264
	106 Pd	171.851836	0.455	50501.989	ug/L	8.000
	83 Kr	-706.668666	10.431	660.684	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	95.239
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	91.558
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.935
	Pb	208	
>	Tm-1	169	92.648
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	91.558
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.935
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.648
	Pd	106	
	Kr	83	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 17:54:43
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\Rinse.021
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			1761423.099	ug/L	1881116.394
>	6	Li-1			788406.425	ug/L	816444.516
	9	Be	0.010550	11.536	8.667	ug/L	3.333
	44	Ca	-30.065971	2.232	30035.128	ug/L	48114.931
	51	V	0.748641	42.328	-42068.767	ug/L	-59183.694
	52	Cr	-0.078869	125.014	58624.114	ug/L	63961.628
	55	Mn	-0.197503	2.710	7869.871	ug/L	14009.208
	59	Co	0.012278	14.455	507.348	ug/L	299.005
	60	Ni	-0.336873	8.208	689.409	ug/L	2208.256
	65	Cu	-0.102018	9.117	972.664	ug/L	1457.522
	68	Zn	-10.754402	63.306	35450.393	ug/L	53775.708
	75	As	-0.636587	40.453	22302.287	ug/L	26187.225
	82	Se	-0.136963	70.853	649.890	ug/L	744.814
	97	Mo	0.200945	18.630	643.024	ug/L	90.000
>	72	Ge-1			1295660.564	ug/L	1384912.119
	107	Ag	0.048045	5.373	759.700	ug/L	100.001
	111	Cd	0.006547	9.275	64.922	ug/L	49.633
	121	Sb	0.313913	16.453	2726.099	ug/L	120.668
	135	Ba	0.003117	185.582	369.008	ug/L	394.342
>	115	In-1			1251430.709	ug/L	1363939.855
	208	Pb	-0.429889	14.603	11768.795	ug/L	25164.952
>	169	Tm-1			684591.756	ug/L	746593.264
	50	Cr	0.560895	22.167	-1197.864	ug/L	-1503.705
	53	Cr	-20.063014	21.093	190999.844	ug/L	241354.943
	61	Ni	-1.438831	52.759	2816.602	ug/L	3114.218
	63	Cu	-0.072602	4.264	761.426	ug/L	1041.507
	67	Zn	-10.984074	52.856	4397.478	ug/L	6118.830
	66	Zn	-10.933541	67.464	18450.725	ug/L	27755.243
	76	Se	-8662.865169	1.400	-162612.944	ug/L	-162009.516
	77	Se	-23.261583	4.093	17179.131	ug/L	24583.153
	78	Se	-3.072476	10.232	25311.874	ug/L	29872.447
	79	Br	-39.989589	579.125	71363.499	ug/L	76592.059
>	72	Ge			1295660.564	ug/L	1384912.119
	108	Cd	0.039159	58.267	9.989	ug/L	1.705
	114	Cd	0.011141	23.382	162.322	ug/L	94.805

	109 Ag	0.049537	20.424	269.679	ug/L	39.667
>	115 In			1251430.709	ug/L	1363939.855
	208 207.977	-0.463886	14.927	6223.571	ug/L	13464.844
	207 Pb	-0.415251	17.078	2579.385	ug/L	5401.745
	206 Pb	-0.380469	12.029	2965.839	ug/L	6298.363
>	169 Tm			684591.756	ug/L	746593.264
	106 Pd	0.020420	50.000	14.000	ug/L	8.000
	83 Kr	-926.667990	27.856	638.683	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.566
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.555
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	91.751
	Pb	208	
>	Tm-1	169	91.695
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.555
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	91.751
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.695
	Pd	106	
	Kr	83	

Sample ID: H6LDRB
Sample Description: G6F020000-232 BLK
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 17:58:55
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H6LDRB.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 20
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			1803915.987	ug/L	1881116.394
>	6	Li-1			763892.618	ug/L	816444.516
	9	Be	0.000413	1001.075	3.333	ug/L	3.333
	44	Ca	-36.328330	0.679	26891.259	ug/L	48114.931
	51	V	2.829899	3.532	-5173.084	ug/L	-59183.694
	52	Cr	-1.520056	1.388	36507.340	ug/L	63961.628
	55	Mn	-0.125160	20.678	9779.481	ug/L	14009.208
	59	Co	0.021957	6.355	686.360	ug/L	299.005
	60	Ni	-0.364120	2.829	577.469	ug/L	2208.256
	65	Cu	-0.052036	16.281	1163.051	ug/L	1457.522
	68	Zn	-11.547470	28.739	34321.331	ug/L	53775.708
	75	As	0.042456	158.451	24622.639	ug/L	26187.225
	82	Se	0.068054	63.241	719.420	ug/L	744.814
	97	Mo	0.077278	10.763	299.005	ug/L	90.000
>	72	Ge-1			1294424.069	ug/L	1384912.119
	107	Ag	0.008862	31.533	225.003	ug/L	100.001
	111	Cd	-0.010536	18.030	15.059	ug/L	49.633
	121	Sb	0.082398	7.862	835.040	ug/L	120.668
	135	Ba	-0.109607	5.330	116.334	ug/L	394.342
>	115	In-1			1311010.096	ug/L	1363939.855
	208	Pb	-0.434408	5.235	12007.232	ug/L	25164.952
>	169	Tm-1			704441.897	ug/L	746593.264
	50	Cr	2.927478	3.550	-317.097	ug/L	-1503.705
	53	Cr	-94.327476	3.189	62274.552	ug/L	241354.943
	61	Ni	-0.175624	590.803	2899.011	ug/L	3114.218
	63	Cu	-0.015925	12.268	926.804	ug/L	1041.507
	67	Zn	-18.905366	17.696	3437.574	ug/L	6118.830
	66	Zn	-12.074646	26.226	17648.879	ug/L	27755.243
	76	Se	-8139.023100	27.224	-161793.463	ug/L	-162009.516
	77	Se	-70.107397	1.672	5457.193	ug/L	24583.153
	78	Se	-1.982766	14.354	26220.619	ug/L	29872.447
	79	Br	-5875.971027	4.771	29755.484	ug/L	76592.059
>	72	Ge			1294424.069	ug/L	1384912.119
	108	Cd	0.027779	89.590	7.902	ug/L	1.705
	114	Cd	-0.002966	35.732	70.176	ug/L	94.805

	109 Ag	0.007078	26.634	73.001	ug/L	39.667
>	115 In			1311010.096	ug/L	1363939.855
	208 207.977	-0.468238	4.554	6356.312	ug/L	13464.844
	207 Pb	-0.423006	6.944	2612.724	ug/L	5401.745
	206 Pb	-0.382785	6.615	3038.196	ug/L	6298.363
>	169 Tm			704441.897	ug/L	746593.264
	106 Pd	0.002269	624.499	8.667	ug/L	8.000
	83 Kr	-666.668712	12.757	664.684	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.563
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.466
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.119
	Pb	208	
>	Tm-1	169	94.354
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.466
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	96.119
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	94.354
	Pd	106	
	Kr	83	

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

Sample ID: FB
Sample Description: FB-F1815158
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:03:06
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\FB.023
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 21
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			1765210.899	ug/L	1881116.394
6	Li-1			752927.333	ug/L	816444.516
9	Be	0.000493	844.508	3.333	ug/L	3.333
44	Ca	232.625292	1.674	162963.989	ug/L	48114.931
51	V	2.654686	1.921	-8385.645	ug/L	-59183.694
52	Cr	0.075918	80.534	61784.713	ug/L	63961.628
55	Mn	0.164266	12.702	17684.529	ug/L	14009.208
59	Co	5.598660	0.810	105480.369	ug/L	299.005
60	Ni	-0.012303	75.069	2041.777	ug/L	2208.256
65	Cu	0.430655	6.323	3052.565	ug/L	1457.522
68	Zn	-11.471062	17.381	34911.864	ug/L	53775.708
75	As	-0.102049	192.835	24461.252	ug/L	26187.225
82	Se	-0.001357	4183.263	705.339	ug/L	744.814
97	Mo	0.168144	2.134	559.351	ug/L	90.000
72	Ge-1			1312348.928	ug/L	1384912.119
107	Ag	0.004054	13.678	153.335	ug/L	100.001
111	Cd	-0.004549	70.098	33.203	ug/L	49.633
121	Sb	0.051893	10.131	562.018	ug/L	120.668
135	Ba	0.312530	6.485	1115.071	ug/L	394.342
115	In-1			1295636.171	ug/L	1363939.855
208	Pb	-0.364183	11.293	13696.204	ug/L	25164.952
169	Tm-1			694004.978	ug/L	746593.264
50	Cr	3.765910	0.736	-5.377	ug/L	-1503.705
53	Cr	-91.321850	3.888	68387.856	ug/L	241354.943
61	Ni	-0.414792	410.876	2922.367	ug/L	3114.218
63	Cu	0.526132	5.633	2549.373	ug/L	1041.507
67	Zn	-18.964782	8.792	3477.939	ug/L	6118.830
66	Zn	-12.154605	13.711	17840.625	ug/L	27755.243
76	Se	-8382.287593	26.457	-164351.234	ug/L	-162009.516
77	Se	-69.212196	3.103	5756.999	ug/L	24583.153
78	Se	-2.420719	10.904	26204.244	ug/L	29872.447
79	Br	-6118.646549	5.170	28407.366	ug/L	76592.059
72	Ge			1312348.928	ug/L	1384912.119
108	Cd	0.190933	7.076	44.274	ug/L	1.705
114	Cd	-0.001134	59.494	82.126	ug/L	94.805

	109 Ag	0.003622	37.671	55.334	ug/L	39.667
>	115 In			1295636.171	ug/L	1363939.855
	208 207.977	-0.395911	11.397	7226.663	ug/L	13464.844
	207 Pb	-0.354170	12.263	2972.174	ug/L	5401.745
	206 Pb	-0.315243	10.445	3497.368	ug/L	6298.363
>	169 Tm			694004.978	ug/L	746593.264
	106 Pd	0.249585	16.154	81.334	ug/L	8.000
	83 Kr	-553.335454	15.755	676.018	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.220
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.760
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	94.992
	Pb	208	
>	Tm-1	169	92.956
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.760
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	94.992
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.956
	Pd	106	
	Kr	83	

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

Sample ID: H590D
Sample Description: G6E260199-1
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:07:15
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590D.024
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
	45	Sc			1773080.175	ug/L	1881116.394
>	6	Li-1			771231.498	ug/L	816444.516
	9	Be	0.010932	42.329	8.667	ug/L	3.333
	44	Ca	851.152500	0.672	471908.028	ug/L	48114.931
	51	V	3.751832	4.225	11254.839	ug/L	-59183.694
	52	Cr	1.130234	6.038	77629.515	ug/L	63961.628
	55	Mn	13.525245	1.969	373930.166	ug/L	14009.208
	59	Co	0.614104	0.634	11743.543	ug/L	299.005
	60	Ni	1.458504	2.857	8074.648	ug/L	2208.256
	65	Cu	23.112186	0.698	90506.065	ug/L	1457.522
	68	Zn	-2.222849	216.011	47503.152	ug/L	53775.708
	75	As	0.278887	29.726	25621.374	ug/L	26187.225
	82	Se	0.272483	37.832	794.818	ug/L	744.814
	97	Mo	0.566703	2.150	1671.826	ug/L	90.000
>	72	Ge-1			1303598.606	ug/L	1384912.119
	107	Ag	0.022131	12.495	416.010	ug/L	100.001
	111	Cd	0.039707	13.228	169.923	ug/L	49.633
	121	Sb	0.190050	2.497	1764.178	ug/L	120.668
	135	Ba	7.320058	1.229	17830.150	ug/L	394.342
>	115	In-1			1303815.504	ug/L	1363939.855
	208	Pb	1.051176	4.165	51931.962	ug/L	25164.952
>	169	Tm-1			701466.966	ug/L	746593.264
	50	Cr	7.001682	3.795	1205.937	ug/L	-1503.705
	53	Cr	-89.918628	4.321	70369.349	ug/L	241354.943
	61	Ni	-0.088546	1059.651	2925.369	ug/L	3114.218
	63	Cu	24.119737	0.947	72148.056	ug/L	1041.507
	67	Zn	-11.180333	41.127	4398.123	ug/L	6118.830
	66	Zn	-2.967140	175.047	24059.523	ug/L	27755.243
	76	Se	-9206.113771	12.085	-164298.471	ug/L	-162009.516
	77	Se	-68.575888	2.563	5879.053	ug/L	24583.153
	78	Se	-2.099654	5.146	26305.280	ug/L	29872.447
	79	Br	-4721.115371	8.501	38232.901	ug/L	76592.059
>	72	Ge			1303598.606	ug/L	1384912.119
	108	Cd	0.338419	29.733	77.741	ug/L	1.705
	114	Cd	0.036303	9.468	346.174	ug/L	94.805

	109 Ag	0.018297	3.091	127.669	ug/L	39.667
>	115 In			1303815.504	ug/L	1363939.855
	208 207.977	1.097341	5.223	27470.418	ug/L	13464.844
	207 Pb	1.047884	3.595	11202.502	ug/L	5401.745
	206 Pb	0.971241	3.078	13259.042	ug/L	6298.363
>	169 Tm			701466.966	ug/L	746593.264
	106 Pd	0.966586	1.961	292.005	ug/L	8.000
	83 Kr	-496.668724	35.583	681.685	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.462
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.129
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.592
	Pb	208	
>	Tm-1	169	93.956
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.129
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.592
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.956
	Pd	106	
	Kr	83	

Sample ID: H590DP5
Sample Description: G6E260199-1 5X
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:11:22
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590DP5.025
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 28
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			1792594.539	ug/L	1881116.394
>	6	Li-1			787170.499	ug/L	816444.516
	9	Be	0.000872	122.148	3.667	ug/L	3.333
	44	Ca	157.526363	2.663	124956.615	ug/L	48114.931
	51	V	0.852569	33.968	-40679.688	ug/L	-59183.694
	52	Cr	0.213925	39.029	63868.941	ug/L	63961.628
	55	Mn	2.642925	1.687	84167.208	ug/L	14009.208
	59	Co	0.119184	4.066	2520.697	ug/L	299.005
	60	Ni	0.059891	47.408	2337.334	ug/L	2208.256
	65	Cu	4.642719	3.020	19385.287	ug/L	1457.522
	68	Zn	-6.081028	78.054	42354.365	ug/L	53775.708
	75	As	-0.368904	34.593	23503.805	ug/L	26187.225
	82	Se	-0.082922	110.299	676.174	ug/L	744.814
	97	Mo	0.116510	3.499	413.343	ug/L	90.000
>	72	Ge-1			1311299.075	ug/L	1384912.119
	107	Ag	0.013458	5.209	282.338	ug/L	100.001
	111	Cd	0.004151	198.994	58.500	ug/L	49.633
	121	Sb	0.062382	11.695	637.690	ug/L	120.668
	135	Ba	1.463668	3.704	3756.807	ug/L	394.342
>	115	In-1			1267072.563	ug/L	1363939.855
	208	Pb	-0.147687	30.395	19168.910	ug/L	25164.952
>	169	Tm-1			683577.678	ug/L	746593.264
	50	Cr	1.568575	14.841	-832.154	ug/L	-1503.705
	53	Cr	-28.140517	15.494	179087.317	ug/L	241354.943
	61	Ni	-2.054109	78.342	2808.930	ug/L	3114.218
	63	Cu	4.834728	1.798	15333.528	ug/L	1041.507
	67	Zn	-7.760173	58.717	4839.437	ug/L	6118.830
	66	Zn	-7.072316	64.599	21329.444	ug/L	27755.243
	76	Se	-8852.073872	13.512	-164836.151	ug/L	-162009.516
	77	Se	-27.966166	6.676	16191.481	ug/L	24583.153
	78	Se	-2.688511	7.644	25948.132	ug/L	29872.447
	79	Br	-965.890708	30.598	65532.366	ug/L	76592.059
>	72	Ge			1311299.075	ug/L	1384912.119
	108	Cd	0.115015	20.457	26.694	ug/L	1.705
	114	Cd	0.004300	71.783	117.322	ug/L	94.805

	109 Ag	0.014705	15.480	107.002	ug/L	39.667
>	115 In			1267072.563	ug/L	1363939.855
	208 207.977	-0.165855	29.550	10146.897	ug/L	13464.844
	207 Pb	-0.139122	36.963	4153.322	ug/L	5401.745
	206 Pb	-0.121852	31.685	4868.690	ug/L	6298.363
>	169 Tm			683577.678	ug/L	746593.264
	106 Pd	0.200802	10.585	67.000	ug/L	8.000
	83 Kr	-473.335323	49.139	684.019	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.414
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.685
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.898
	Pb	208	
>	Tm-1	169	91.560
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.685
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.898
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.560
	Pd	106	
	Kr	83	

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

Sample ID: H590DZ
Sample Description: G6E260199-1 PS
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:15:28
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590DZ.026
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 29
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			1761129.424	ug/L	1881116.394
>	6	Li-1			782933.108	ug/L	816444.516
	9	Be	188.931530	2.130	96907.682	ug/L	3.333
	44	Ca	2025.365403	2.922	1027033.547	ug/L	48114.931
	51	V	193.616655	1.287	3292814.188	ug/L	-59183.694
	52	Cr	198.100028	2.568	3017082.710	ug/L	63961.628
	55	Mn	210.392801	2.097	5448538.703	ug/L	14009.208
	59	Co	197.303888	1.605	3567228.985	ug/L	299.005
	60	Ni	196.977435	0.879	786501.982	ug/L	2208.256
	65	Cu	214.293527	1.703	801792.166	ug/L	1457.522
	68	Zn	185.162951	2.197	298520.789	ug/L	53775.708
	75	As	182.227704	0.754	637899.915	ug/L	26187.225
	82	Se	181.591402	1.000	61278.165	ug/L	744.814
	97	Mo	193.645673	1.050	525362.060	ug/L	90.000
>	72	Ge-1			1262806.108	ug/L	1384912.119
	107	Ag	47.832926	1.418	671171.596	ug/L	100.001
	111	Cd	185.547040	0.296	554474.687	ug/L	49.633
	121	Sb	46.194827	1.853	388417.239	ug/L	120.668
	135	Ba	201.551726	0.431	465972.321	ug/L	394.342
>	115	In-1			1263249.931	ug/L	1363939.855
	208	Pb	196.080716	1.187	5104591.775	ug/L	25164.952
>	169	Tm-1			675713.304	ug/L	746593.264
	50	Cr	178.265592	3.409	63297.527	ug/L	-1503.705
	53	Cr	139.189508	2.162	455192.238	ug/L	241354.943
	61	Ni	193.815791	2.013	15531.503	ug/L	3114.218
	63	Cu	203.979127	1.388	583937.837	ug/L	1041.507
	67	Zn	175.830313	3.057	26288.530	ug/L	6118.830
	66	Zn	183.956134	2.392	148620.990	ug/L	27755.243
	76	Se	2771.687688	49.954	-144284.146	ug/L	-162009.516
	77	Se	129.336408	0.196	53947.840	ug/L	24583.153
	78	Se	184.244433	0.335	181324.131	ug/L	29872.447
	79	Br	-4771.828714	6.718	36711.010	ug/L	76592.059
>	72	Ge			1262806.108	ug/L	1384912.119
	108	Cd	181.589305	0.807	39553.445	ug/L	1.705
	114	Cd	183.863476	0.488	1253912.134	ug/L	94.805

	109 Ag	49.188591	1.000	233800.377	ug/L	39.667
>	115 In			1263249.931	ug/L	1363939.855
	208 207.977	203.412317	0.965	2657799.076	ug/L	13464.844
	207 Pb	196.127945	1.412	1109444.971	ug/L	5401.745
	206 Pb	182.944654	1.488	1337347.728	ug/L	6298.363
>	169 Tm			675713.304	ug/L	746593.264
	106 Pd	174.839197	0.464	51379.744	ug/L	8.000
	83 Kr	-6.667693	1851.073	730.688	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	95.895
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	91.183
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.618
	Pb	208	
>	Tm-1	169	90.506
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	91.183
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.618
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	90.506
	Pd	106	
	Kr	83	

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

Sample ID: H590F
Sample Description: G6E260199-2
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:19:36
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590F.027
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 30
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			1768495.258	ug/L	1881116.394
>	6	Li-1			764733.765	ug/L	816444.516
	9	Be	0.020586	49.308	13.333	ug/L	3.333
	44	Ca	821.770501	1.877	453886.801	ug/L	48114.931
	51	V	3.704905	1.565	10335.666	ug/L	-59183.694
	52	Cr	0.596168	24.488	68882.121	ug/L	63961.628
	55	Mn	12.514093	0.587	344526.941	ug/L	14009.208
	59	Co	0.486701	0.679	9297.938	ug/L	299.005
	60	Ni	1.029300	1.361	6265.953	ug/L	2208.256
	65	Cu	17.405416	1.825	67994.452	ug/L	1457.522
	68	Zn	-4.000715	66.553	44696.889	ug/L	53775.708
	75	As	0.252436	38.757	25342.491	ug/L	26187.225
	82	Se	0.307606	50.365	800.743	ug/L	744.814
	97	Mo	0.641709	7.834	1866.866	ug/L	90.000
>	72	Ge-1			1294307.915	ug/L	1384912.119
	107	Ag	0.039491	3.970	647.691	ug/L	100.001
	111	Cd	0.058187	21.625	220.003	ug/L	49.633
	121	Sb	0.406489	10.243	3532.384	ug/L	120.668
	135	Ba	7.198563	1.109	17019.539	ug/L	394.342
>	115	In-1			1265051.730	ug/L	1363939.855
	208	Pb	0.866190	4.885	46065.244	ug/L	25164.952
>	169	Tm-1			688290.370	ug/L	746593.264
	50	Cr	6.172871	5.647	888.624	ug/L	-1503.705
	53	Cr	-92.024087	4.098	66188.908	ug/L	241354.943
	61	Ni	-1.462162	70.423	2811.598	ug/L	3114.218
	63	Cu	18.065274	1.175	53893.449	ug/L	1041.507
	67	Zn	-12.246152	29.727	4235.884	ug/L	6118.830
	66	Zn	-4.861101	59.731	22579.573	ug/L	27755.243
	76	Se	-8563.635983	22.429	-162342.549	ug/L	-162009.516
	77	Se	-70.046977	2.164	5467.865	ug/L	24583.153
	78	Se	-2.253160	13.169	25984.054	ug/L	29872.447
	79	Br	-5306.784562	6.409	33778.342	ug/L	76592.059
>	72	Ge			1294307.915	ug/L	1384912.119
	108	Cd	0.414846	10.636	92.096	ug/L	1.705
	114	Cd	0.041422	5.696	370.778	ug/L	94.805

	109 Ag	0.038768	8.989	221.341	ug/L	39.667
>	115 In			1265051.730	ug/L	1363939.855
	208 207.977	0.893673	6.588	24250.909	ug/L	13464.844
	207 Pb	0.889104	3.483	10081.473	ug/L	5401.745
	206 Pb	0.799359	4.272	11732.862	ug/L	6298.363
>	169 Tm			688290.370	ug/L	746593.264
	106 Pd	0.895112	5.144	271.004	ug/L	8.000
	83 Kr	-533.335188	61.733	678.018	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.666
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.458
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.750
	Pb	208	
>	Tm-1	169	92.191
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.458
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.750
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.191
	Pd	106	
	Kr	83	

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

Sample ID: H590J
Sample Description: G6E260199-3
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:23:43
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590J.028
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
	45	Sc			1780248.227	ug/L	1881116.394
>	6	Li-1			763813.105	ug/L	816444.516
	9	Be	0.011163	70.722	8.667	ug/L	3.333
	44	Ca	944.348359	6.917	515029.867	ug/L	48114.931
	51	V	3.910221	1.837	13984.330	ug/L	-59183.694
	52	Cr	0.883622	9.026	73356.006	ug/L	63961.628
	55	Mn	14.864909	2.300	406964.700	ug/L	14009.208
	59	Co	0.416230	3.584	7995.987	ug/L	299.005
	60	Ni	1.149423	2.043	6759.975	ug/L	2208.256
	65	Cu	32.758401	1.289	126857.925	ug/L	1457.522
	68	Zn	-2.392689	286.941	47031.365	ug/L	53775.708
	75	As	0.473925	28.839	26123.188	ug/L	26187.225
	82	Se	0.369082	31.775	822.577	ug/L	744.814
	97	Mo	0.572906	3.016	1678.161	ug/L	90.000
>	72	Ge-1			1295060.737	ug/L	1384912.119
	107	Ag	0.030926	11.654	531.683	ug/L	100.001
	111	Cd	0.068998	10.322	254.750	ug/L	49.633
	121	Sb	0.309665	1.773	2742.763	ug/L	120.668
	135	Ba	8.866324	2.385	21060.986	ug/L	394.342
>	115	In-1			1276370.438	ug/L	1363939.855
	208	Pb	1.331305	5.842	58296.664	ug/L	25164.952
>	169	Tm-1			687621.583	ug/L	746593.264
	50	Cr	6.741623	12.295	1103.081	ug/L	-1503.705
	53	Cr	-90.594686	3.536	68796.816	ug/L	241354.943
	61	Ni	-0.827261	162.269	2856.305	ug/L	3114.218
	63	Cu	33.770383	0.981	99961.219	ug/L	1041.507
	67	Zn	-10.293523	60.028	4482.945	ug/L	6118.830
	66	Zn	-2.944550	239.533	23957.479	ug/L	27755.243
	76	Se	-10055.613625	14.885	-164320.465	ug/L	-162009.516
	77	Se	-69.237686	2.030	5678.961	ug/L	24583.153
	78	Se	-1.930762	28.513	26275.582	ug/L	29872.447
	79	Br	-5064.123163	4.349	35559.600	ug/L	76592.059
>	72	Ge			1295060.737	ug/L	1384912.119
	108	Cd	0.417284	36.436	93.570	ug/L	1.705
	114	Cd	0.042560	0.208	381.968	ug/L	94.805

	109 Ag	0.029441	19.098	178.338	ug/L	39.667
>	115 In			1276370.438	ug/L	1363939.855
	208 207.977	1.394110	5.614	30856.693	ug/L	13464.844
	207 Pb	1.346970	6.690	12696.550	ug/L	5401.745
	206 Pb	1.206972	5.612	14743.422	ug/L	6298.363
>	169 Tm			687621.583	ug/L	746593.264
	106 Pd	1.173067	3.697	352.674	ug/L	8.000
	83 Kr	-506.668731	33.976	680.685	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.554
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.512
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.580
	Pb	208	
>	Tm-1	169	92.101
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.512
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	93.580
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.101
	Pd	106	
	Kr	83	

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

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 18:27:52
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCV 3.029
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			1742088.535	ug/L	1881116.394
>	6	Li-1			802582.316	ug/L	816444.516
	9	Be	99.962083	0.913	52576.498	ug/L	3.333
	44	Ca	5084.215712	1.615	2589280.040	ug/L	48114.931
	51	V	97.898855	1.841	1688448.069	ug/L	-59183.694
	52	Cr	98.898655	0.353	1582759.401	ug/L	63961.628
	55	Mn	99.838024	0.100	2672083.054	ug/L	14009.208
	59	Co	97.359834	0.398	1814557.131	ug/L	299.005
	60	Ni	97.331875	0.568	401638.848	ug/L	2208.256
	65	Cu	95.965273	0.267	370867.103	ug/L	1457.522
	68	Zn ✕	82.275414	9.619	164845.795	ug/L	53775.708
	75	As	94.371266	0.619	352352.201	ug/L	26187.225
	82	Se	93.825758	0.590	32971.353	ug/L	744.814
	97	Mo	189.734672	0.900	530555.415	ug/L	90.000
>	72	Ge-1			1301533.930	ug/L	1384912.119
	107	Ag	48.899622	0.363	669065.623	ug/L	100.001
	111	Cd	98.320547	0.030	286520.191	ug/L	49.633
	121	Sb	49.964477	0.870	409630.149	ug/L	120.668
	135	Ba	98.450761	1.235	222107.036	ug/L	394.342
>	115	In-1			1231798.650	ug/L	1363939.855
	208	Pb	99.780521	0.611	2579161.249	ug/L	25164.952
>	169	Tm-1			667982.720	ug/L	746593.264
	50	Cr	96.251593	5.062	34575.594	ug/L	-1503.705
	53	Cr	91.946098	2.300	386912.585	ug/L	241354.943
	61	Ni	93.736222	2.444	9253.013	ug/L	3114.218
	63	Cu	98.501567	0.509	291163.318	ug/L	1041.507
	67	Zn	83.590026	9.696	15901.154	ug/L	6118.830
	66	Zn	83.899584	10.420	84077.803	ug/L	27755.243
	76	Se	-4179.764128	13.427	-157605.583	ug/L	-162009.516
	77	Se	87.299188	1.718	45041.018	ug/L	24583.153
	78	Se	93.690750	0.565	108832.193	ug/L	29872.447
	79	Br	-165.973267	116.697	70801.394	ug/L	76592.059
>	72	Ge			1301533.930	ug/L	1384912.119
	108	Cd	97.145485	0.632	20633.055	ug/L	1.705
	114	Cd	99.111194	0.807	659100.090	ug/L	94.805

	109 Ag	49.720375	1.999	230422.540	ug/L	39.667
>	115 In			1231798.650	ug/L	1363939.855
	208 207.977	101.801085	0.833	1321046.507	ug/L	13464.844
	207 Pb	97.627514	0.505	548437.803	ug/L	5401.745
	206 Pb	97.836080	1.468	709676.940	ug/L	6298.363
>	169 Tm			667982.720	ug/L	746593.264
	106 Pd	90.356871	1.083	26556.910	ug/L	8.000
	83 Kr	-56.667854	300.168	725.688	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.302
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.980
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	90.312
	Pb	208	
>	Tm-1	169	89.471
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.980
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	90.312
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.471
	Pd	106	
	Kr	83	

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

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 18:32:03
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCB 3.030
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			1764365.836	ug/L	1881116.394
>	6	Li-1			799925.999	ug/L	816444.516
	9	Be	0.011536	51.271	9.333	ug/L	3.333
	44	Ca	-26.495675	3.339	32672.221	ug/L	48114.931
	51	V	0.305687	198.009	-51323.402	ug/L	-59183.694
	52	Cr	-0.279471	16.353	57053.409	ug/L	63961.628
	55	Mn	-0.046858	23.977	12182.810	ug/L	14009.208
	59	Co	0.011042	48.669	497.681	ug/L	299.005
	60	Ni	-0.078130	25.190	1793.560	ug/L	2208.256
	65	Cu	-0.054065	22.089	1187.673	ug/L	1457.522
	68	Zn	-11.697043	38.784	35087.202	ug/L	53775.708
	75	As	-0.330878	98.111	23988.919	ug/L	26187.225
	82	Se	-0.137238	44.974	667.278	ug/L	744.814
	97	Mo	0.189639	14.236	628.356	ug/L	90.000
>	72	Ge-1			1330650.486	ug/L	1384912.119
	107	Ag	0.025952	15.800	454.345	ug/L	100.001
	111	Cd	0.006768	95.796	65.810	ug/L	49.633
	121	Sb	0.048937	12.571	520.349	ug/L	120.668
	135	Ba	0.004966	109.016	374.675	ug/L	394.342
>	115	In-1			1256262.921	ug/L	1363939.855
	208	Pb	-0.457539	7.968	11035.423	ug/L	25164.952
>	169	Tm-1			682518.369	ug/L	746593.264
	50	Cr	0.568841	9.976	-1227.472	ug/L	-1503.705
	53	Cr	-19.643076	2.300	196939.466	ug/L	241354.943
	61	Ni	-4.795189	27.201	2661.133	ug/L	3114.218
	63	Cu	-0.015653	63.783	953.479	ug/L	1041.507
	67	Zn	-10.956409	37.398	4520.964	ug/L	6118.830
	66	Zn	-12.281018	38.342	18005.286	ug/L	27755.243
	76	Se	-10943.848983	2.700	-169991.459	ug/L	-162009.516
	77	Se	-21.245442	9.553	18160.522	ug/L	24583.153
	78	Se	-2.595125	19.942	26413.298	ug/L	29872.447
	79	Br	-318.432189	68.957	71257.589	ug/L	76592.059
>	72	Ge			1330650.486	ug/L	1384912.119
	108	Cd	0.015492	125.083	4.915	ug/L	1.705
	114	Cd	0.008618	82.635	145.848	ug/L	94.805

	109 Ag	0.022869	10.335	144.670	ug/L	39.667
>	115 In			1256262.921	ug/L	1363939.855
	208 207.977	-0.489946	7.072	5876.317	ug/L	13464.844
	207 Pb	-0.453417	9.910	2360.988	ug/L	5401.745
	206 Pb	-0.402825	8.881	2798.118	ug/L	6298.363
>	169 Tm			682518.369	ug/L	746593.264
	106 Pd	0.010210	66.667	11.000	ug/L	8.000
	83 Kr	-536.668557	57.503	677.685	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.977
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.082
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.105
	Pb	208	
>	Tm-1	169	91.418
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.082
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.105
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.418
	Pd	106	
	Kr	83	

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

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 18:36:14
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCV 4.031
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			1738936.030	ug/L	1881116.394
>	6	Li-1			798718.250	ug/L	816444.516
	9	Be	100.039102	0.615	52360.887	ug/L	3.333
	44	Ca	5034.789031	2.825	2552358.790	ug/L	48114.931
	51	V	95.018313	1.406	1629620.334	ug/L	-59183.694
	52	Cr	96.234784	1.530	1534385.655	ug/L	63961.628
	55	Mn	97.609088	1.497	2600343.215	ug/L	14009.208
	59	Co	97.282389	0.274	1804457.058	ug/L	299.005
	60	Ni	95.323387	0.305	391502.539	ug/L	2208.256
	65	Cu	94.790015	1.193	364593.454	ug/L	1457.522
	68	Zn X	82.473773	9.492	164303.283	ug/L	53775.708
	75	As	93.729663	1.229	348457.530	ug/L	26187.225
	82	Se	94.658695	0.313	33100.412	ug/L	744.814
	97	Mo	188.860453	1.103	525598.973	ug/L	90.000
>	72	Ge-1			1295338.771	ug/L	1384912.119
	107	Ag	48.810101	0.325	663187.081	ug/L	100.001
	111	Cd	98.155284	0.874	284039.538	ug/L	49.633
	121	Sb	49.890577	0.655	406192.715	ug/L	120.668
	135	Ba	98.341783	0.384	220328.929	ug/L	394.342
>	115	In-1			1223185.422	ug/L	1363939.855
	208	Pb	99.358835	1.511	2558160.035	ug/L	25164.952
>	169	Tm-1			665316.811	ug/L	746593.264
	50	Cr	94.505507	1.598	33754.821	ug/L	-1503.705
	53	Cr	87.694023	3.991	377663.780	ug/L	241354.943
	61	Ni	91.657943	3.880	9069.479	ug/L	3114.218
	63	Cu	96.813072	1.301	284816.023	ug/L	1041.507
	67	Zn	82.538224	6.026	15694.695	ug/L	6118.830
	66	Zn	83.653545	9.030	83489.845	ug/L	27755.243
	76	Se	-4111.305160	14.092	-156773.847	ug/L	-162009.516
	77	Se	85.224767	2.731	44304.045	ug/L	24583.153
	78	Se	92.675753	0.608	107443.366	ug/L	29872.447
	79	Br	-363.055956	41.190	69047.859	ug/L	76592.059
>	72	Ge			1295338.771	ug/L	1384912.119
	108	Cd	97.946491	0.435	20658.613	ug/L	1.705
	114	Cd	98.918388	0.745	653238.476	ug/L	94.805

	109 Ag	49.620982	0.461	228373.103	ug/L	39.667
>	115 In			1223185.422	ug/L	1363939.855
	208 207.977	100.932898	2.197	1304668.510	ug/L	13464.844
	207 Pb	97.005365	0.809	542786.200	ug/L	5401.745
	206 Pb	98.367264	1.229	710705.324	ug/L	6298.363
>	169 Tm			665316.811	ug/L	746593.264
	106 Pd	89.544420	1.501	26318.193	ug/L	8.000
	83 Kr	-323.335299	23.350	699.020	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.829
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.532
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.680
	Pb	208	
>	Tm-1	169	89.114
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.532
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.680
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.114
	Pd	106	
	Kr	83	

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

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 18:40:25
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCB 4.032
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			1750503.206	ug/L	1881116.394
>	6	Li-1			798217.536	ug/L	816444.516
	9	Be	0.014176	28.811	10.667	ug/L	3.333
	44	Ca	-26.525887	3.099	32284.117	ug/L	48114.931
	51	V	0.945485	35.427	-39200.560	ug/L	-59183.694
	52	Cr	-0.284014	26.267	56338.882	ug/L	63961.628
	55	Mn	-0.046489	20.950	12054.299	ug/L	14009.208
	59	Co	0.012350	30.420	516.682	ug/L	299.005
	60	Ni	-0.067612	7.087	1816.961	ug/L	2208.256
	65	Cu	-0.035063	47.371	1247.730	ug/L	1457.522
	68	Zn	-16.025918	11.077	28598.933	ug/L	53775.708
	75	As	-0.255309	43.363	23979.503	ug/L	26187.225
	82	Se	-0.138050	75.396	659.514	ug/L	744.814
	97	Mo	0.206896	26.441	670.360	ug/L	90.000
>	72	Ge-1			1315454.094	ug/L	1384912.119
	107	Ag	0.025349	11.822	444.011	ug/L	100.001
	111	Cd	0.003098	95.611	54.693	ug/L	49.633
	121	Sb	0.032294	17.978	379.675	ug/L	120.668
	135	Ba	0.005334	104.703	373.675	ug/L	394.342
>	115	In-1			1250497.178	ug/L	1363939.855
	208	Pb	-0.517108	7.170	9422.679	ug/L	25164.952
>	169	Tm-1			678607.616	ug/L	746593.264
	50	Cr	0.538285	12.878	-1224.937	ug/L	-1503.705
	53	Cr	-21.360364	8.287	191675.624	ug/L	241354.943
	61	Ni	-4.718614	35.500	2636.113	ug/L	3114.218
	63	Cu	-0.021576	45.407	925.137	ug/L	1041.507
	67	Zn	-14.760103	15.729	4002.572	ug/L	6118.830
	66	Zn	-17.015630	10.766	14488.710	ug/L	27755.243
	76	Se	-8039.046970	10.137	-164293.710	ug/L	-162009.516
	77	Se	-20.910288	3.628	18039.007	ug/L	24583.153
	78	Se	-2.557229	11.992	26145.036	ug/L	29872.447
	79	Br	-342.013069	44.949	70279.406	ug/L	76592.059
>	72	Ge			1315454.094	ug/L	1384912.119
	108	Cd	0.024939	32.705	6.952	ug/L	1.705
	114	Cd	0.008877	39.858	146.990	ug/L	94.805

	109 Ag	0.023138	17.006	145.337	ug/L	39.667
>	115 In			1250497.178	ug/L	1363939.855
	208 207.977	-0.553858	6.800	5008.779	ug/L	13464.844
	207 Pb	-0.510120	6.731	2026.570	ug/L	5401.745
	206 Pb	-0.456851	8.407	2387.329	ug/L	6298.363
>	169 Tm			678607.616	ug/L	746593.264
	106 Pd	0.007941	107.855	10.333	ug/L	8.000
	83 Kr	-746.668258	49.032	656.684	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.768
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.985
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	91.683
	Pb	208	
>	Tm-1	169	90.894
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.985
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	91.683
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	90.894
	Pd	106	
	Kr	83	

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

Sample ID: H590K
Sample Description: G6E260199-4
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:44:34
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590K.033
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 32
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			1777215.590	ug/L	1881116.394
>	6	Li-1			768940.661	ug/L	816444.516
	9	Be	0.007627	41.690	7.000	ug/L	3.333
	44	Ca	801.886842	1.279	450104.170	ug/L	48114.931
	51	V	3.796861	6.850	12130.186	ug/L	-59183.694
	52	Cr	0.591942	9.071	69790.265	ug/L	63961.628
	55	Mn	12.840563	2.133	358009.439	ug/L	14009.208
	59	Co	0.415515	0.859	8089.071	ug/L	299.005
	60	Ni	0.822434	3.340	5495.159	ug/L	2208.256
	65	Cu	24.405289	0.717	96117.597	ug/L	1457.522
	68	Zn	-4.587155	34.422	44515.401	ug/L	53775.708
	75	As	0.474695	53.149	26468.461	ug/L	26187.225
	82	Se	0.896575	8.586	1016.507	ug/L	744.814
	97	Mo	0.542118	2.979	1613.482	ug/L	90.000
>	72	Ge-1			1312177.386	ug/L	1384912.119
	107	Ag	0.018969	11.935	362.341	ug/L	100.001
	111	Cd	0.050532	14.537	198.967	ug/L	49.633
	121	Sb	0.176434	1.206	1610.815	ug/L	120.668
	135	Ba	7.565291	0.950	18022.547	ug/L	394.342
>	115	In-1			1275972.262	ug/L	1363939.855
	208	Pb	0.909555	9.500	47100.972	ug/L	25164.952
>	169	Tm-1			686679.398	ug/L	746593.264
	50	Cr	6.265564	6.882	937.864	ug/L	-1503.705
	53	Cr	-92.152836	3.740	66943.181	ug/L	241354.943
	61	Ni	-2.157681	76.448	2803.592	ug/L	3114.218
	63	Cu	25.320794	0.408	76194.169	ug/L	1041.507
	67	Zn	-13.713446	1.084	4119.380	ug/L	6118.830
	66	Zn	-5.716440	17.739	22313.416	ug/L	27755.243
	76	Se	-9435.323392	20.415	-165701.761	ug/L	-162009.516
	77	Se	-68.460505	2.328	5949.086	ug/L	24583.153
	78	Se	-1.314595	37.700	27158.139	ug/L	29872.447
	79	Br	-5314.520576	6.080	34213.237	ug/L	76592.059
>	72	Ge			1312177.386	ug/L	1384912.119
	108	Cd	0.356529	12.193	80.000	ug/L	1.705
	114	Cd	0.032689	10.621	313.724	ug/L	94.805

	109 Ag	0.016851	6.082	118.002	ug/L	39.667
>	115 In			1275972.262	ug/L	1363939.855
	208 207.977	0.949826	8.529	24938.193	ug/L	13464.844
	207 Pb	0.940093	10.900	10348.461	ug/L	5401.745
	206 Pb	0.813977	10.378	11814.318	ug/L	6298.363
>	169 Tm			686679.398	ug/L	746593.264
	106 Pd	1.016504	4.036	306.672	ug/L	8.000
	83 Kr	-1386.665776	11.658	592.681	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	94.182
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.748
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.550
	Pb	208	
>	Tm-1	169	91.975
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.748
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	93.550
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.975
	Pd	106	
	Kr	83	

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

Sample ID: H590N
Sample Description: G6E260199-5
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:48:43
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590N.034
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 33
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			1792252.918	ug/L	1881116.394
>	6	Li-1			778540.388	ug/L	816444.516
	9	Be	0.008764	50.056	7.667	ug/L	3.333
	44	Ca	770.671739	4.376	431828.278	ug/L	48114.931
	51	V	3.544768	3.625	7556.379	ug/L	-59183.694
	52	Cr	0.928601	6.995	74579.860	ug/L	63961.628
	55	Mn	11.872083	0.575	330106.355	ug/L	14009.208
	59	Co	0.371161	1.811	7213.973	ug/L	299.005
	60	Ni	0.672838	5.380	4848.731	ug/L	2208.256
	65	Cu	19.094484	1.242	75060.736	ug/L	1457.522
	68	Zn	-3.006529	204.291	46486.313	ug/L	53775.708
	75	As	0.661778	26.236	26969.302	ug/L	26187.225
	82	Se	0.201436	14.488	771.057	ug/L	744.814
	97	Mo	0.556423	0.998	1644.154	ug/L	90.000
>	72	Ge-1			1304563.341	ug/L	1384912.119
	107	Ag	0.017561	9.140	344.673	ug/L	100.001
	111	Cd	0.041453	25.086	172.783	ug/L	49.633
	121	Sb	0.170568	3.634	1571.475	ug/L	120.668
	135	Ba	7.257484	2.161	17420.331	ug/L	394.342
>	115	In-1			1284547.515	ug/L	1363939.855
	208	Pb	0.857249	5.707	46106.954	ug/L	25164.952
>	169	Tm-1			692273.914	ug/L	746593.264
	50	Cr	6.483272	1.613	1012.955	ug/L	-1503.705
	53	Cr	-89.213103	4.696	71683.124	ug/L	241354.943
	61	Ni	-3.627491	45.316	2687.823	ug/L	3114.218
	63	Cu	19.805681	1.731	59459.712	ug/L	1041.507
	67	Zn	-11.417910	55.152	4375.792	ug/L	6118.830
	66	Zn	-3.819950	185.846	23508.013	ug/L	27755.243
	76	Se	-8318.658311	29.928	-163295.404	ug/L	-162009.516
	77	Se	-67.729635	2.791	6098.827	ug/L	24583.153
	78	Se	-1.064328	37.999	27218.329	ug/L	29872.447
	79	Br	-5181.588388	5.570	34970.300	ug/L	76592.059
>	72	Ge			1304563.341	ug/L	1384912.119
	108	Cd	0.496508	8.553	111.566	ug/L	1.705
	114	Cd	0.030281	10.554	299.348	ug/L	94.805

	109 Ag	0.012900	25.611	99.668	ug/L	39.667
>	115 In			1284547.515	ug/L	1363939.855
	208 207.977	0.896779	6.316	24440.791	ug/L	13464.844
	207 Pb	0.863928	4.557	9995.042	ug/L	5401.745
	206 Pb	0.781452	5.987	11671.120	ug/L	6298.363
>	169 Tm			692273.914	ug/L	746593.264
	106 Pd	1.057346	9.659	318.673	ug/L	8.000
	83 Kr	-1076.667434	22.946	623.682	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	95.357
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.198
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	94.179
	Pb	208	
>	Tm-1	169	92.724
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.198
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	94.179
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.724
	Pd	106	
	Kr	83	

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

Sample ID: H590R
Sample Description: G6E260199-6
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:52:52
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590R.035
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
	45	Sc			1761369.159	ug/L	1881116.394
>	6	Li-1			764634.880	ug/L	816444.516
	9	Be	0.011062	20.178	8.667	ug/L	3.333
	44	Ca	810.470664	2.051	455860.774	ug/L	48114.931
	51	V	3.749314	4.779	11314.321	ug/L	-59183.694
	52	Cr	0.646315	20.736	70843.422	ug/L	63961.628
	55	Mn	11.935048	3.436	334720.697	ug/L	14009.208
	59	Co	0.417946	2.143	8159.804	ug/L	299.005
	60	Ni	0.738215	4.271	5162.852	ug/L	2208.256
	65	Cu	30.766327	1.621	121171.009	ug/L	1457.522
	68	Zn	-3.881373	167.603	45638.084	ug/L	53775.708
	75	As	0.580729	10.288	26926.018	ug/L	26187.225
	82	Se	0.071952	53.087	732.922	ug/L	744.814
	97	Mo	0.486753	1.578	1461.789	ug/L	90.000
>	72	Ge-1			1316170.637	ug/L	1384912.119
	107	Ag	0.024288	10.149	443.011	ug/L	100.001
	111	Cd	0.041504	7.213	173.742	ug/L	49.633
	121	Sb	0.162727	1.067	1512.131	ug/L	120.668
	135	Ba	7.592667	0.796	18296.777	ug/L	394.342
>	115	In-1			1290920.780	ug/L	1363939.855
	208	Pb	1.431360	7.029	61715.469	ug/L	25164.952
>	169	Tm-1			696426.560	ug/L	746593.264
	50	Cr	6.422901	20.560	999.281	ug/L	-1503.705
	53	Cr	-90.272069	5.396	70428.180	ug/L	241354.943
	61	Ni	-2.670877	75.463	2777.236	ug/L	3114.218
	63	Cu	31.972760	1.821	96238.718	ug/L	1041.507
	67	Zn	-12.989190	52.999	4219.253	ug/L	6118.830
	66	Zn	-4.440643	166.234	23263.975	ug/L	27755.243
	76	Se	-7956.880549	27.642	-164276.210	ug/L	-162009.516
	77	Se	-67.901155	2.655	6107.830	ug/L	24583.153
	78	Se	-1.371934	15.016	27193.873	ug/L	29872.447
	79	Br	-5079.575948	5.519	36011.220	ug/L	76592.059
>	72	Ge			1316170.637	ug/L	1384912.119
	108	Cd	0.388183	9.107	88.011	ug/L	1.705
	114	Cd	0.029208	5.651	293.331	ug/L	94.805

	109 Ag	0.020540	20.086	137.336	ug/L	39.667
>	115 In			1290920.780	ug/L	1363939.855
	208 207.977	1.497584	6.624	32638.498	ug/L	13464.844
	207 Pb	1.453943	6.424	13479.720	ug/L	5401.745
	206 Pb	1.295564	8.605	15597.251	ug/L	6298.363
>	169 Tm			696426.560	ug/L	746593.264
	106 Pd	0.952971	6.258	288.005	ug/L	8.000
	83 Kr	-1163.333270	40.144	615.015	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	93.654
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	95.036
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	94.646
	Pb	208	
>	Tm-1	169	93.281
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	95.036
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	94.646
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.281
	Pd	106	
	Kr	83	

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

Sample ID: H590T
Sample Description: G6E260199-7
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 18:57:01
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590T.036
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 35
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			1745324.947	ug/L	1881116.394
>	6	Li-1			789200.510	ug/L	816444.516
	9	Be	0.036306	8.314	22.000	ug/L	3.333
	44	Ca	1704.976546	2.494	906164.303	ug/L	48114.931
	51	V	5.439912	3.203	41654.164	ug/L	-59183.694
	52	Cr	1.320877	13.191	81156.330	ug/L	63961.628
	55	Mn	35.029467	1.604	954249.537	ug/L	14009.208
	59	Co	0.731623	2.224	14034.248	ug/L	299.005
	60	Ni	1.592561	2.408	8688.219	ug/L	2208.256
	65	Cu	172.590035	1.242	671696.418	ug/L	1457.522
	68	Zn	1.029593	148.099	52427.486	ug/L	53775.708
	75	As	0.986086	4.122	28278.904	ug/L	26187.225
	82	Se	0.317395	23.846	816.291	ug/L	744.814
	97	Mo	0.694621	1.895	2044.239	ug/L	90.000
>	72	Ge-1			1312851.513	ug/L	1384912.119
	107	Ag	0.083624	4.227	1284.761	ug/L	100.001
	111	Cd	0.088438	3.277	314.943	ug/L	49.633
	121	Sb	0.238245	3.066	2146.263	ug/L	120.668
	135	Ba	18.765728	0.270	44378.595	ug/L	394.342
>	115	In-1			1282404.486	ug/L	1363939.855
	208	Pb	2.303617	0.267	83659.486	ug/L	25164.952
>	169	Tm-1			685329.015	ug/L	746593.264
	50	Cr	13.021556	6.697	3483.992	ug/L	-1503.705
	53	Cr	-89.941913	4.163	70875.013	ug/L	241354.943
	61	Ni	-2.758778	77.419	2764.558	ug/L	3114.218
	63	Cu	162.891945	1.100	485043.914	ug/L	1041.507
	67	Zn	-7.116223	22.222	4929.891	ug/L	6118.830
	66	Zn	0.256689	455.627	26493.263	ug/L	27755.243
	76	Se	-10666.284824	12.770	-167365.751	ug/L	-162009.516
	77	Se	-67.941939	3.144	6084.823	ug/L	24583.153
	78	Se	-1.652017	10.847	26882.311	ug/L	29872.447
	79	Br	-5196.155058	4.643	35089.943	ug/L	76592.059
>	72	Ge			1312851.513	ug/L	1384912.119
	108	Cd	0.123371	21.240	28.903	ug/L	1.705
	114	Cd	0.053800	5.457	461.605	ug/L	94.805

	109 Ag	0.081652	9.205	431.030	ug/L	39.667
>	115 In			1282404.486	ug/L	1363939.855
	208 207.977	2.415888	0.892	44232.190	ug/L	13464.844
	207 Pb	2.317987	0.370	18200.577	ug/L	5401.745
	206 Pb	2.091901	2.106	21226.718	ug/L	6298.363
>	169 Tm			685329.015	ug/L	746593.264
	106 Pd	1.340976	2.638	402.009	ug/L	8.000
	83 Kr	-1090.000741	20.232	622.349	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.663
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.797
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	94.022
	Pb	208	
>	Tm-1	169	91.794
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.797
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	94.022
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.794
	Pd	106	
	Kr	83	

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

Sample ID: H590X
Sample Description: G6E260199-8
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:01:11
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H590X.037
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 36
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			1764671.497	ug/L	1881116.394
>	6	Li-1			796421.305	ug/L	816444.516
	9	Be	0.023992	42.293	15.667	ug/L	3.333
	44	Ca	1462.440766	0.764	782160.914	ug/L	48114.931
	51	V	4.901449	5.043	31942.431	ug/L	-59183.694
	52	Cr	1.069173	12.062	77067.994	ug/L	63961.628
	55	Mn	33.031350	2.958	898616.976	ug/L	14009.208
	59	Co	0.638265	1.494	12254.242	ug/L	299.005
	60	Ni	1.329022	4.484	7579.342	ug/L	2208.256
	65	Cu	111.310746	0.914	432772.328	ug/L	1457.522
	68	Zn	-6.548085	64.009	41708.411	ug/L	53775.708
	75	As	0.768681	24.377	27456.914	ug/L	26187.225
	82	Se	0.220428	5.103	780.916	ug/L	744.814
	97	Mo	0.636809	2.939	1877.201	ug/L	90.000
>	72	Ge-1			1310119.011	ug/L	1384912.119
	107	Ag	0.054322	2.298	854.375	ug/L	100.001
	111	Cd	0.087472	4.743	307.171	ug/L	49.633
	121	Sb	0.223547	1.036	1989.893	ug/L	120.668
	135	Ba	17.172737	0.533	40016.968	ug/L	394.342
>	115	In-1			1262685.810	ug/L	1363939.855
	208	Pb	1.682669	3.896	67506.845	ug/L	25164.952
>	169	Tm-1			687124.355	ug/L	746593.264
	50	Cr	6.128196	165.983	894.203	ug/L	-1503.705
	53	Cr	-89.746106	5.110	71017.536	ug/L	241354.943
	61	Ni	-3.537926	54.243	2705.840	ug/L	3114.218
	63	Cu	110.645848	1.302	329077.803	ug/L	1041.507
	67	Zn	-13.971521	26.397	4080.015	ug/L	6118.830
	66	Zn	-7.892454	51.007	20763.545	ug/L	27755.243
	76	Se	-9716.426431	11.405	-165793.025	ug/L	-162009.516
	77	Se	-68.372345	2.725	5960.092	ug/L	24583.153
	78	Se	-2.252014	17.239	26303.442	ug/L	29872.447
	79	Br	-5461.460471	5.943	33091.197	ug/L	76592.059
>	72	Ge			1310119.011	ug/L	1384912.119
	108	Cd	0.111563	11.194	25.849	ug/L	1.705
	114	Cd	0.044887	8.144	393.673	ug/L	94.805

	109 Ag	0.051693	4.782	282.346	ug/L	39.667
>	115 In			1262685.810	ug/L	1363939.855
	208 207.977	1.741309	4.191	35423.255	ug/L	13464.844
	207 Pb	1.705069	5.405	14735.404	ug/L	5401.745
	206 Pb	1.560564	3.765	17348.185	ug/L	6298.363
>	169 Tm			687124.355	ug/L	746593.264
	106 Pd	1.244541	1.035	373.675	ug/L	8.000
	83 Kr	-1100.000761	14.093	621.349	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	97.548
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.599
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.576
	Pb	208	
>	Tm-1	169	92.035
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.599
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.576
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.035
	Pd	106	
	Kr	83	

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

Sample ID: H5900
Sample Description: G6E260199-9
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:05:21
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H5900.038
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 37
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			1744240.150	ug/L	1881116.394
>	6	Li-1			785602.974	ug/L	816444.516
	9	Be	0.019719	54.912	13.333	ug/L	3.333
	44	Ca	1025.448530	0.877	563905.902	ug/L	48114.931
	51	V	4.488095	1.248	24585.098	ug/L	-59183.694
	52	Cr	1.012695	16.097	76460.574	ug/L	63961.628
	55	Mn	20.086570	1.558	553576.160	ug/L	14009.208
	59	Co	0.621350	0.650	11977.526	ug/L	299.005
	60	Ni	1.420201	1.992	7984.003	ug/L	2208.256
	65	Cu	137.775431	0.969	537132.410	ug/L	1457.522
	68	Zn	-8.359348	22.104	39318.060	ug/L	53775.708
	75	As	0.348918	19.997	26078.601	ug/L	26187.225
	82	Se	0.173793	55.798	767.240	ug/L	744.814
	97	Mo	0.384026	4.210	1169.745	ug/L	90.000
>	72	Ge-1			1314472.090	ug/L	1384912.119
	107	Ag	0.062470	5.882	973.721	ug/L	100.001
	111	Cd	0.053852	12.229	207.914	ug/L	49.633
	121	Sb	0.158229	3.061	1448.453	ug/L	120.668
	135	Ba	8.326023	1.266	19687.458	ug/L	394.342
>	115	In-1			1268990.201	ug/L	1363939.855
	208	Pb	3.201489	1.928	108343.539	ug/L	25164.952
>	169	Tm-1			692282.299	ug/L	746593.264
	50	Cr	9.347609	2.315	2101.826	ug/L	-1503.705
	53	Cr	-89.475110	4.391	71777.776	ug/L	241354.943
	61	Ni	-3.305375	65.729	2730.194	ug/L	3114.218
	63	Cu	138.057991	1.279	411740.794	ug/L	1041.507
	67	Zn	-16.088250	15.792	3836.030	ug/L	6118.830
	66	Zn	-9.862843	19.784	19461.601	ug/L	27755.243
	76	Se	-9701.169673	6.805	-166317.529	ug/L	-162009.516
	77	Se	-68.082537	2.449	6056.139	ug/L	24583.153
	78	Se	-2.056918	8.525	26562.110	ug/L	29872.447
	79	Br	-5983.556060	4.378	29440.400	ug/L	76592.059
>	72	Ge			1314472.090	ug/L	1384912.119
	108	Cd	0.120766	51.431	28.018	ug/L	1.705
	114	Cd	0.041266	10.849	370.874	ug/L	94.805

109	Ag	0.062366	3.590	334.685	ug/L	39.667
> 115	In			1268990.201	ug/L	1363939.855
208	207.977	3.318736	1.842	56708.172	ug/L	13464.844
207	Pb	3.198863	2.944	23465.427	ug/L	5401.745
206	Pb	2.994032	1.446	28169.940	ug/L	6298.363
> 169	Tm			692282.299	ug/L	746593.264
106	Pd	0.879229	6.928	266.337	ug/L	8.000
83	Kr	-1249.999943	15.683	606.348	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	96.222
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.914
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.039
	Pb	208	
>	Tm-1	169	92.725
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.914
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	93.039
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.725
	Pd	106	
	Kr	83	

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

Sample ID: H5901
Sample Description: G6E260199-10
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:09:31
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H5901.039
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 38
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			1744749.585	ug/L	1881116.394
>	6	Li-1			810078.521	ug/L	816444.516
	9	Be	0.018261	10.443	13.000	ug/L	3.333
	44	Ca	964.072679	1.029	532001.509	ug/L	48114.931
	51	V	4.285957	3.416	20935.916	ug/L	-59183.694
	52	Cr	0.758761	15.092	72377.146	ug/L	63961.628
	55	Mn	18.856668	1.526	519616.058	ug/L	14009.208
	59	Co	0.739691	1.245	14180.481	ug/L	299.005
	60	Ni	1.168229	4.152	6926.509	ug/L	2208.256
	65	Cu	145.365002	0.785	565709.948	ug/L	1457.522
	68	Zn	-4.569739	189.001	44466.717	ug/L	53775.708
	75	As	0.368107	13.082	26103.254	ug/L	26187.225
	82	Se	0.236055	29.759	787.693	ug/L	744.814
	97	Mo	0.378213	6.269	1151.076	ug/L	90.000
>	72	Ge-1			1312357.773	ug/L	1384912.119
	107	Ag	0.068317	0.547	1061.398	ug/L	100.001
	111	Cd	0.048116	26.124	191.640	ug/L	49.633
	121	Sb	0.154390	1.949	1423.449	ug/L	120.668
	135	Ba	8.667841	0.680	20587.525	ug/L	394.342
>	115	In-1			1275606.862	ug/L	1363939.855
	208	Pb	1.093081	7.807	52493.546	ug/L	25164.952
>	169	Tm-1			694030.318	ug/L	746593.264
	50	Cr	9.091970	2.054	2002.252	ug/L	-1503.705
	53	Cr	-88.966301	4.772	72484.617	ug/L	241354.943
	61	Ni	-4.143192	76.386	2667.475	ug/L	3114.218
	63	Cu	145.027033	0.599	431775.717	ug/L	1041.507
	67	Zn	-12.796453	68.584	4223.964	ug/L	6118.830
	66	Zn	-5.457123	161.049	22452.624	ug/L	27755.243
	76	Se	-9393.117414	7.883	-165658.543	ug/L	-162009.516
	77	Se	-68.186865	3.205	6014.786	ug/L	24583.153
	78	Se	-2.355099	13.634	26258.864	ug/L	29872.447
	79	Br	-5927.848830	5.482	29773.188	ug/L	76592.059
>	72	Ge			1312357.773	ug/L	1384912.119
	108	Cd	0.131077	88.051	30.475	ug/L	1.705
	114	Cd	0.049710	10.555	430.990	ug/L	94.805

	109 Ag	0.065474	5.504	351.353	ug/L	39.667
>	115 In			1275606.862	ug/L	1363939.855
	208 207.977	1.137913	7.128	27718.544	ug/L	13464.844
	207 Pb	1.099993	9.450	11385.083	ug/L	5401.745
	206 Pb	1.007630	8.143	13389.919	ug/L	6298.363
>	169 Tm			694030.318	ug/L	746593.264
	106 Pd	0.751030	2.914	228.670	ug/L	8.000
	83 Kr	-1050.001036	5.499	626.349	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.220
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.761
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	93.524
	Pb	208	
>	Tm-1	169	92.960
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.761
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	93.524
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	92.960
	Pd	106	
	Kr	83	

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

Sample ID: H5902
Sample Description: G6E260199-11
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:13:42
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H5902.040
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 39
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			1764006.235	ug/L	1881116.394
>	6	Li-1			823902.010	ug/L	816444.516
	9	Be	0.024530	47.551	16.667	ug/L	3.333
	44	Ca	1278.120796	0.500	689019.089	ug/L	48114.931
	51	V	4.175106	3.563	18884.668	ug/L	-59183.694
	52	Cr	0.914383	7.199	74648.475	ug/L	63961.628
	55	Mn	24.120780	1.151	659566.705	ug/L	14009.208
	59	Co	0.648219	2.386	12434.831	ug/L	299.005
	60	Ni	1.037839	2.279	6374.970	ug/L	2208.256
	65	Cu	108.590817	1.692	422031.115	ug/L	1457.522
	68	Zn	-11.522603	23.564	34763.851	ug/L	53775.708
	75	As	0.686538	40.219	27158.976	ug/L	26187.225
	82	Se	1.451487	15.970	1206.214	ug/L	744.814
	97	Mo	0.546204	3.467	1621.484	ug/L	90.000
>	72	Ge-1			1309560.852	ug/L	1384912.119
	107	Ag	0.032142	3.923	544.684	ug/L	100.001
	111	Cd	0.127836	3.420	428.841	ug/L	49.633
	121	Sb	0.213188	2.852	1907.541	ug/L	120.668
	135	Ba	11.728618	0.762	27513.857	ug/L	394.342
>	115	In-1			1265771.717	ug/L	1363939.855
	208	Pb	1.360760	1.920	60061.018	ug/L	25164.952
>	169	Tm-1			699192.759	ug/L	746593.264
	50	Cr	8.372156	7.273	1725.981	ug/L	-1503.705
	53	Cr	-89.095878	4.101	72197.166	ug/L	241354.943
	61	Ni	-3.490220	48.722	2707.173	ug/L	3114.218
	63	Cu	109.057665	2.397	324206.557	ug/L	1041.507
	67	Zn	-19.602454	16.112	3393.526	ug/L	6118.830
	66	Zn	-12.993986	19.494	17218.327	ug/L	27755.243
	76	Se	-9743.871346	2.768	-165751.933	ug/L	-162009.516
	77	Se	-66.534725	2.380	6426.324	ug/L	24583.153
	78	Se	-0.922166	40.307	27445.592	ug/L	29872.447
	79	Br	-5598.715649	4.050	32106.608	ug/L	76592.059
>	72	Ge			1309560.852	ug/L	1384912.119
	108	Cd	0.201123	79.774	45.479	ug/L	1.705
	114	Cd	0.115774	2.377	879.064	ug/L	94.805

	109 Ag	0.028606	9.075	173.005	ug/L	39.667
>	115 In			1265771.717	ug/L	1363939.855
	208 207.977	1.428470	2.336	31835.147	ug/L	13464.844
	207 Pb	1.374375	1.987	13068.085	ug/L	5401.745
	206 Pb	1.229248	2.477	15157.786	ug/L	6298.363
>	169 Tm			699192.759	ug/L	746593.264
	106 Pd	1.123148	3.030	338.007	ug/L	8.000
	83 Kr	-1000.001208	11.719	631.349	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	100.913
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.559
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.803
	Pb	208	
>	Tm-1	169	93.651
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.559
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.803
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.651
	Pd	106	
	Kr	83	

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

Sample ID: H5903
Sample Description: G6E260199-12
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:17:53
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H5903.041
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 40
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			1719349.746	ug/L	1881116.394
>	6	Li-1			813920.793	ug/L	816444.516
	9	Be	0.045038	7.441	27.333	ug/L	3.333
	44	Ca	1545.506928	2.633	814709.943	ug/L	48114.931
	51	V	4.917732	0.599	31862.712	ug/L	-59183.694
	52	Cr	1.431730	11.387	81791.177	ug/L	63961.628
	55	Mn	31.906430	2.237	858865.371	ug/L	14009.208
	59	Co	0.963139	2.759	18141.789	ug/L	299.005
	60	Ni	1.249929	1.607	7173.891	ug/L	2208.256
	65	Cu	90.506103	1.769	348220.544	ug/L	1457.522
	68	Zn	-8.830728	29.819	38084.134	ug/L	53775.708
	75	As	1.376382	7.082	29256.312	ug/L	26187.225
	82	Se	0.712967	10.534	940.749	ug/L	744.814
	97	Mo	1.188242	1.302	3391.324	ug/L	90.000
>	72	Ge-1			1295768.325	ug/L	1384912.119
	107	Ag	0.044009	1.043	701.695	ug/L	100.001
	111	Cd	0.084296	5.576	294.329	ug/L	49.633
	121	Sb	0.236235	2.106	2072.579	ug/L	120.668
	135	Ba	17.464491	1.454	40225.588	ug/L	394.342
>	115	In-1			1248301.275	ug/L	1363939.855
	208	Pb	1.865483	0.990	71976.422	ug/L	25164.952
>	169	Tm-1			683818.684	ug/L	746593.264
	50	Cr	12.421385	7.913	3220.815	ug/L	-1503.705
	53	Cr	-89.261017	4.615	71173.419	ug/L	241354.943
	61	Ni	-3.661115	47.884	2668.808	ug/L	3114.218
	63	Cu	90.664456	1.196	266888.987	ug/L	1041.507
	67	Zn	-16.344939	13.660	3748.253	ug/L	6118.830
	66	Zn	-10.676144	23.800	18614.549	ug/L	27755.243
	76	Se	-8110.638191	10.418	-161910.957	ug/L	-162009.516
	77	Se	-67.629035	2.601	6085.154	ug/L	24583.153
	78	Se	-1.676577	24.403	26506.996	ug/L	29872.447
	79	Br	-5444.988130	3.927	32866.586	ug/L	76592.059
>	72	Ge			1295768.325	ug/L	1384912.119
	108	Cd	0.351638	4.494	77.233	ug/L	1.705
	114	Cd	0.060095	5.459	491.731	ug/L	94.805

	109 Ag	0.040485	10.015	226.342	ug/L	39.667
>	115 In			1248301.275	ug/L	1363939.855
	208 207.977	1.978493	0.942	38377.673	ug/L	13464.844
	207 Pb	1.853217	3.644	15506.061	ug/L	5401.745
	206 Pb	1.673057	1.677	18092.688	ug/L	6298.363
>	169 Tm			683818.684	ug/L	746593.264
	106 Pd	1.376146	5.938	412.343	ug/L	8.000
	83 Kr	-1250.000042	2.809	606.348	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.691
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.563
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	91.522
	Pb	208	
>	Tm-1	169	91.592
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.563
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	91.522
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.592
	Pd	106	
	Kr	83	

Sample ID: H5904
Sample Description: G6E260199-13
Batch ID: 6153232
Sample Date/Time: Monday, June 05, 2006 19:22:05
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\H5904.042
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 41
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			1724216.350	ug/L	1881116.394
>	6	Li-1			810498.424	ug/L	816444.516
	9	Be	-0.002474	75.231	2.000	ug/L	3.333
	44	Ca	223.244333	1.164	157338.117	ug/L	48114.931
	51	V	2.689090	10.699	-7700.023	ug/L	-59183.694
	52	Cr	0.153645	39.783	62633.043	ug/L	63961.628
	55	Mn	0.368565	5.475	23038.295	ug/L	14009.208
	59	Co	0.370166	2.132	7196.959	ug/L	299.005
	60	Ni	0.099373	38.531	2488.784	ug/L	2208.256
	65	Cu	1.088634	4.480	5574.984	ug/L	1457.522
	68	Zn	-16.160849	8.439	28167.392	ug/L	53775.708
	75	As	0.053608	292.498	24858.241	ug/L	26187.225
	82	Se	-0.260489	12.147	612.012	ug/L	744.814
	97	Mo	0.183576	3.579	599.354	ug/L	90.000
>	72	Ge-1			1304896.768	ug/L	1384912.119
	107	Ag	-0.000019	6114.599	92.334	ug/L	100.001
	111	Cd	0.000457	1155.941	47.252	ug/L	49.633
	121	Sb	0.027327	5.560	341.673	ug/L	120.668
	135	Ba	0.576326	3.002	1697.831	ug/L	394.342
>	115	In-1			1264081.165	ug/L	1363939.855
	208	Pb	-0.120887	47.910	20229.886	ug/L	25164.952
>	169	Tm-1			696542.030	ug/L	746593.264
	50	Cr	3.877918	2.390	36.734	ug/L	-1503.705
	53	Cr	-90.330837	5.105	69703.957	ug/L	241354.943
	61	Ni	-5.854079	29.447	2537.698	ug/L	3114.218
	63	Cu	1.165220	4.071	4423.131	ug/L	1041.507
	67	Zn	-22.981204	8.975	2968.082	ug/L	6118.830
	66	Zn	-17.196311	7.484	14238.770	ug/L	27755.243
	76	Se	-9913.209703	16.769	-165378.502	ug/L	-162009.516
	77	Se	-68.729317	1.989	5846.369	ug/L	24583.153
	78	Se	-2.140701	8.430	26295.912	ug/L	29872.447
	79	Br	-6643.131769	4.268	24477.030	ug/L	76592.059
>	72	Ge			1304896.768	ug/L	1384912.119
	108	Cd	0.219209	6.231	49.336	ug/L	1.705
	114	Cd	-0.001095	191.142	80.266	ug/L	94.805

	109 Ag	-0.000022	9097.720	36.667	ug/L	39.667
>	115 In			1264081.165	ug/L	1363939.855
	208 207.977	-0.132798	51.909	10770.980	ug/L	13464.844
	207 Pb	-0.109663	46.977	4399.441	ug/L	5401.745
	206 Pb	-0.108289	41.380	5059.465	ug/L	6298.363
>	169 Tm			696542.030	ug/L	746593.264
	106 Pd	0.378916	14.040	119.334	ug/L	8.000
	83 Kr	-1259.999872	16.502	605.348	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.272
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.222
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	92.679
	Pb	208	
>	Tm-1	169	93.296
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.222
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	92.679
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	93.296
	Pd	106	
	Kr	83	

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

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 19:26:16
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCV 5.043
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			1722580.164	ug/L	1881116.394
>	6	Li-1			855338.268	ug/L	816444.516
	9	Be	95.701046	3.139	53606.376	ug/L	3.333
	44	Ca	4899.637879	0.410	2490873.484	ug/L	48114.931
	51	V	94.594446	3.030	1626023.052	ug/L	-59183.694
	52	Cr	96.193194	1.088	1537231.547	ug/L	63961.628
	55	Mn	94.642809	1.964	2527076.853	ug/L	14009.208
	59	Co	94.017819	1.778	1747669.913	ug/L	299.005
	60	Ni	92.920277	1.094	382553.595	ug/L	2208.256
	65	Cu	92.944262	1.028	358318.168	ug/L	1457.522
	68	Zn X	74.822750	1.765	154032.992	ug/L	53775.708
	75	As	92.706570	0.503	345708.722	ug/L	26187.225
	82	Se	90.612961	1.147	31785.292	ug/L	744.814
	97	Mo	184.762990	1.179	515356.791	ug/L	90.000
>	72	Ge-1			1298282.406	ug/L	1384912.119
	107	Ag	48.550339	0.667	653415.848	ug/L	100.001
	111	Cd	96.967456	1.802	277930.844	ug/L	49.633
	121	Sb	49.198539	1.187	396756.083	ug/L	120.668
	135	Ba	98.098943	0.740	217705.751	ug/L	394.342
>	115	In-1			1211684.474	ug/L	1363939.855
	208	Pb	100.345459	1.232	2568654.948	ug/L	25164.952
>	169	Tm-1			661561.837	ug/L	746593.264
	50	Cr	95.429973	6.672	34185.494	ug/L	-1503.705
	53	Cr	85.655776	2.331	375013.582	ug/L	241354.943
	61	Ni	89.846748	0.864	8969.188	ug/L	3114.218
	63	Cu	94.506711	1.301	278703.424	ug/L	1041.507
	67	Zn	73.710039	0.978	14659.978	ug/L	6118.830
	66	Zn	73.928061	1.684	76954.693	ug/L	27755.243
	76	Se	-5011.267644	14.998	-158284.195	ug/L	-162009.516
	77	Se	84.130553	2.239	44135.470	ug/L	24583.153
	78	Se	90.086789	0.473	105459.910	ug/L	29872.447
	79	Br	-616.990873	40.219	67405.405	ug/L	76592.059
>	72	Ge			1298282.406	ug/L	1384912.119
	108	Cd	95.517484	0.885	19955.971	ug/L	1.705
	114	Cd	97.488254	1.116	637702.518	ug/L	94.805

	109 Ag	49.216218	1.146	224384.794	ug/L	39.667
>	115 In			1211684.474	ug/L	1363939.855
	208 207.977	103.139017	1.611	1325321.694	ug/L	13464.844
	207 Pb	96.466661	1.134	536728.912	ug/L	5401.745
	206 Pb	98.355109	0.648	706604.342	ug/L	6298.363
>	169 Tm			661561.837	ug/L	746593.264
	106 Pd	87.077595	1.843	25593.384	ug/L	8.000
	83 Kr	-760.001829	24.873	655.351	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.764
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.745
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	88.837
	Pb	208	
>	Tm-1	169	88.611
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.745
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	88.837
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	88.611
	Pd	106	
	Kr	83	

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

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, June 05, 2006 19:30:27
Method File: c:\elandata\Method\6153232.mth
Dataset File: C:\elandata\Dataset\060605A1\CCB 5.044
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			1683731.236	ug/L	1881116.394
>	6	Li-1			841183.413	ug/L	816444.516
	9	Be	0.013072	50.396	10.667	ug/L	3.333
	44	Ca	-27.376855	6.259	31473.169	ug/L	48114.931
	51	V	1.006770	29.262	-37584.097	ug/L	-59183.694
	52	Cr	-0.325673	51.008	55001.050	ug/L	63961.628
	55	Mn	-0.058501	15.088	11593.678	ug/L	14009.208
	59	Co	0.009096	28.609	449.345	ug/L	299.005
	60	Ni	-0.108316	20.029	1627.746	ug/L	2208.256
	65	Cu	-0.051610	37.673	1168.740	ug/L	1457.522
	68	Zn X	-17.350461	12.702	26373.583	ug/L	53775.708
	75	As	-0.273388	31.327	23633.255	ug/L	26187.225
	82	Se	-0.263919	14.828	608.400	ug/L	744.814
	97	Mo	0.171884	21.787	563.018	ug/L	90.000
>	72	Ge-1			1300209.515	ug/L	1384912.119
	107	Ag	0.021418	9.586	374.341	ug/L	100.001
	111	Cd	0.002185	65.745	50.006	ug/L	49.633
	121	Sb	0.013282	32.307	212.669	ug/L	120.668
	135	Ba	0.004438	278.182	357.341	ug/L	394.342
>	115	In-1			1202912.867	ug/L	1363939.855
	208	Pb	-0.555073	7.534	8330.244	ug/L	25164.952
>	169	Tm-1			671197.447	ug/L	746593.264
	50	Cr	0.665090	15.021	-1162.827	ug/L	-1503.705
	53	Cr	-23.034789	23.484	186387.152	ug/L	241354.943
	61	Ni	-5.648066	25.225	2543.036	ug/L	3114.218
	63	Cu	-0.013906	40.611	937.141	ug/L	1041.507
	67	Zn	-16.176941	19.846	3777.291	ug/L	6118.830
	66	Zn	-18.682837	12.336	13141.421	ug/L	27755.243
	76	Se	-10518.968543	31.231	-165623.618	ug/L	-162009.516
	77	Se	-17.528615	11.865	18671.602	ug/L	24583.153
	78	Se	-2.431428	13.477	25947.450	ug/L	29872.447
	79	Br	-614.539217	52.304	67478.331	ug/L	76592.059
>	72	Ge			1300209.515	ug/L	1384912.119
	108	Cd	0.035980	35.845	8.989	ug/L	1.705
	114	Cd	0.007037	28.848	129.201	ug/L	94.805

	109 Ag	0.020703	20.252	128.669	ug/L	39.667
>	115 In			1202912.867	ug/L	1363939.855
	208 207.977	-0.593036	6.671	4442.137	ug/L	13464.844
	207 Pb	-0.546907	7.654	1795.519	ug/L	5401.745
	206 Pb	-0.493560	9.458	2092.588	ug/L	6298.363
>	169 Tm			671197.447	ug/L	746593.264
	106 Pd	0.004538	303.109	9.333	ug/L	8.000
	83 Kr	-1346.666089	7.326	596.681	ug/L	731.355

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.030
	Be	9	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	93.884
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	88.194
	Pb	208	
>	Tm-1	169	89.901
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	93.884
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	88.194
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	89.901
	Pd	106	
	Kr	83	

SEVERN TRENT STL

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

Instrument ID (Circle one): ~~M01~~ M02		Method 6020 SOP SAC-MT-0001	
File Number 060607A1	~~6/8/06~~ BRJ Batch Numbers ~~6153~~ 6156386 6153232, 6156250, ~~6153~~	Date 6/7/06	Analyst BRJ

Lot Numbers G6E260199, G6F030213, G6F050151	YES	NO	NA
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: * LCS FOR BATCH 6156250 IS OUT OF CONTROL FOR Zn (CONT.) - RERUN - BRJ

REVIEWED BY: MZ
DATE: 6/8/06

DATA ENTERED BY: BRJ
DATE: 6/8/06

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\060607A1\
Report Date/Time: Thursday, June 08, 2006 08:42:58

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	15:34:26 Wed 07-Jun-06	Sample	
	AUTOLENS BJONES	15:37:07 Wed 07-Jun-06	Sample	Auto Lens Calib
	DAILY BJONES	15:39:23 Wed 07-Jun-06	Sample	
	Rinse 3X	15:47:33 Wed 07-Jun-06	Sample	
	Blank	15:50:31 Wed 07-Jun-06	Blank	
	Standard 1	15:53:24 Wed 07-Jun-06	Standard #1	
	ICV	15:56:01 Wed 07-Jun-06	Sample	
	ICB	15:58:44 Wed 07-Jun-06	Sample	
	ICSA	16:01:25 Wed 07-Jun-06	Sample	
	ICSAB	16:04:05 Wed 07-Jun-06	Sample	
	Rinse	16:06:46 Wed 07-Jun-06	Sample	
	CCV 1 >RECAL	16:09:30 Wed 07-Jun-06	Sample	
	CCB 1	16:12:12 Wed 07-Jun-06	Sample	
	CCV 2	16:14:55 Wed 07-Jun-06	Sample	
	CCB 2	16:17:38 Wed 07-Jun-06	Sample	
6153232	H6LDRC	16:20:41 Wed 07-Jun-06	Sample	G6F020000-232 LCS
6153232	H6LDRL	16:23:18 Wed 07-Jun-06	Sample	G6F020000-232 LCSD
	Rinse	16:26:00 Wed 07-Jun-06	Sample	
6153232	H6LDRB	16:28:43 Wed 07-Jun-06	Sample	G6F020000-232 BLK
6153232	FB	16:31:26 Wed 07-Jun-06	Sample	FB-F1815158
6153232	H590D	16:34:07 Wed 07-Jun-06	Sample	G6E260199-1
6153232	H590DP5	16:36:46 Wed 07-Jun-06	Sample	G6E260199-1 5X
6153232	H590DZ	16:39:25 Wed 07-Jun-06	Sample	G6E260199-1 PS
6153232	H590F	16:42:04 Wed 07-Jun-06	Sample	G6E260199-2
6153232	H590J	16:44:44 Wed 07-Jun-06	Sample	G6E260199-3
	CCV 3	16:47:25 Wed 07-Jun-06	Sample	
	CCB 3	16:50:08 Wed 07-Jun-06	Sample	
	CCV 4	16:52:51 Wed 07-Jun-06	Sample	
	CCB 4	16:55:32 Wed 07-Jun-06	Sample	
6153232	H590K	16:58:14 Wed 07-Jun-06	Sample	G6E260199-4
6153232	H590N	17:00:55 Wed 07-Jun-06	Sample	G6E260199-5
6153232	H590R	17:03:36 Wed 07-Jun-06	Sample	G6E260199-6
6153232	H590T	17:06:17 Wed 07-Jun-06	Sample	G6E260199-7
6153232	H590X	17:08:59 Wed 07-Jun-06	Sample	G6E260199-8
6153232	H5900	17:11:41 Wed 07-Jun-06	Sample	G6E260199-9
6153232	H5901	17:14:23 Wed 07-Jun-06	Sample	G6E260199-10
6153232	H5902	17:17:06 Wed 07-Jun-06	Sample	G6E260199-11
6153232	H5903	17:19:49 Wed 07-Jun-06	Sample	G6E260199-12
6153232	H5904	17:22:32 Wed 07-Jun-06	Sample	G6E260199-13
	CCV 5	17:25:15 Wed 07-Jun-06	Sample	
	CCB 5	17:27:58 Wed 07-Jun-06	Sample	
	CCV 6	17:30:41 Wed 07-Jun-06	Sample	
	CCB 6	17:33:24 Wed 07-Jun-06	Sample	
	CCV 7	17:36:06 Wed 07-Jun-06	Sample	
	CCB 7	17:38:49 Wed 07-Jun-06	Sample	
6156250	H6PRTB	17:41:32 Wed 07-Jun-06	Sample	G6F050000-250 BLK
6156250	H6PRTC	17:44:13 Wed 07-Jun-06	Sample	G6F050000-250 LCS -out Zn - contamination Rerun
6156250	H6PRTL	17:46:53 Wed 07-Jun-06	Sample	G6F050000-250 LCSD
6156250	H6N39	17:49:32 Wed 07-Jun-06	Sample	G6F030213-1

6156250	H6N39P5	17:52:10 Wed 07-Jun-06	Sample	G6F030213-1 5X
6156250	H6N39X	17:54:49 Wed 07-Jun-06	Sample	G6F030213-1 DU
6156250	H6N39Z	17:57:28 Wed 07-Jun-06	Sample	G6F030213-1 PS
6156250	H6N4A	18:00:08 Wed 07-Jun-06	Sample	G6F030213-2
6156250	H6N4C	18:02:48 Wed 07-Jun-06	Sample	G6F030213-3
6156250	H6N4D	18:05:28 Wed 07-Jun-06	Sample	G6F030213-4
	CCV 8	18:08:09 Wed 07-Jun-06	Sample	
	CCB 8	18:10:52 Wed 07-Jun-06	Sample	
	CCV 9	18:13:35 Wed 07-Jun-06	Sample	
	CCB 9	18:16:17 Wed 07-Jun-06	Sample	
6156250	H6N4E	18:19:00 Wed 07-Jun-06	Sample	G6F030213-5
6156250	H6N4F	18:21:41 Wed 07-Jun-06	Sample	G6F030213-6
6156250	H6N4G	18:24:22 Wed 07-Jun-06	Sample	G6F030213-7
6156250	H6N4H	18:27:04 Wed 07-Jun-06	Sample	G6F030213-8
6156250	H6N4J	18:29:46 Wed 07-Jun-06	Sample	G6F030213-9
6156250	H6N4K	18:32:29 Wed 07-Jun-06	Sample	G6F030213-10
6156250	H6N4L	18:35:12 Wed 07-Jun-06	Sample	G6F030213-11
6156250	H6N4M	18:37:56 Wed 07-Jun-06	Sample	G6F030213-12
6156250	H6N4N	18:40:40 Wed 07-Jun-06	Sample	G6F030213-13
6156250	H6N4P	18:43:24 Wed 07-Jun-06	Sample	G6F030213-14
	CCV 10	18:46:08 Wed 07-Jun-06	Sample	
	CCB 10	18:48:50 Wed 07-Jun-06	Sample	
	CCV 11	18:51:33 Wed 07-Jun-06	Sample	
	CCB 11	18:54:16 Wed 07-Jun-06	Sample	
6156386	H6P49C	18:56:57 Wed 07-Jun-06	Sample	G6F050000-386 LCS
6156386	H6P49L	18:59:36 Wed 07-Jun-06	Sample	G6F050000-386 LCSD
	Rinse	19:02:18 Wed 07-Jun-06	Sample	
6156386	H6P49B	19:05:02 Wed 07-Jun-06	Sample	G6F050000-386 BLK
6156386	H6P1N	19:07:43 Wed 07-Jun-06	Sample	G6F050151-1
6156386	H6P1NP5	19:10:21 Wed 07-Jun-06	Sample	G6F050151-1 5X
6156386	H6P1NX	19:12:59 Wed 07-Jun-06	Sample	G6F050151-1 DU
6156386	H6P1NZ	19:15:38 Wed 07-Jun-06	Sample	G6F050151-1 PS
6156386	H6P1Q	19:18:17 Wed 07-Jun-06	Sample	G6F050151-2
6156386	H6P1R	19:20:56 Wed 07-Jun-06	Sample	G6F050151-3
	CCV 12	19:23:37 Wed 07-Jun-06	Sample	
	CCB 12	19:26:20 Wed 07-Jun-06	Sample	
	CCV 13	19:29:02 Wed 07-Jun-06	Sample	
	CCB 13	19:31:45 Wed 07-Jun-06	Sample	
6156386	H6P1T	19:34:26 Wed 07-Jun-06	Sample	G6F050151-4
6156386	H6P1V	19:37:07 Wed 07-Jun-06	Sample	G6F050151-5
6156386	H6P1W	19:39:47 Wed 07-Jun-06	Sample	G6F050151-6
6156386	H6P1X	19:42:28 Wed 07-Jun-06	Sample	G6F050151-7
6156386	H6P11	19:45:10 Wed 07-Jun-06	Sample	G6F050151-8
6156386	H6P12	19:47:51 Wed 07-Jun-06	Sample	G6F050151-9
6156386	H6P14	19:50:33 Wed 07-Jun-06	Sample	G6F050151-10
6156386	H6P15	19:53:16 Wed 07-Jun-06	Sample	G6F050151-11
6156386	H6P16	19:55:59 Wed 07-Jun-06	Sample	G6F050151-12
6156386	H6P17	19:58:42 Wed 07-Jun-06	Sample	G6F050151-13
	CCV 14	20:01:25 Wed 07-Jun-06	Sample	
	CCB 14	20:04:08 Wed 07-Jun-06	Sample	

STL Sacramento RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:33:36

File ID: 060607A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 3X				3.0	06/07/06 15:47		☐
2	Blank				1.0	06/07/06 15:50		☐
3	Standard1				1.0	06/07/06 15:53		☐
4	ICV				1.0	06/07/06 15:56		☐
5	ICB				1.0	06/07/06 15:58		☐
6	ICSA				1.0	06/07/06 16:01		☐
7	ICSAB				1.0	06/07/06 16:04		☐
8	Rinse				1.0	06/07/06 16:06		☐
9	CCV 1				1.0	06/07/06 16:09		☐
10	CCB 1				1.0	06/07/06 16:12		☐
13	CCV 2				1.0	06/07/06 16:14		☐
14	CCB 2				1.0	06/07/06 16:17		☐
15	H6LDRC	G6F020000	6153232	2A	1.0	06/07/06 16:20		☐
16	H6LDRL	G6F020000	6153232	2A	1.0	06/07/06 16:23		☐
17	Rinse				1.0	06/07/06 16:26		☐
18	H6LDRB	G6F020000	6153232	2A	1.0	06/07/06 16:28		☐
19	FB				1.0	06/07/06 16:31		☐
20	H590D	G6E260199-1	6153232	2A	1.0	06/07/06 16:34		☐
21	H590DP5	G6E260199	6153232		5.0	06/07/06 16:36		☐
22	H590DZ	G6E260199-1	6153232		1.0	06/07/06 16:39		☐
23	H590F	G6E260199-2	6153232	2A	1.0	06/07/06 16:42		☐
24	H590J	G6E260199-3	6153232	2A	1.0	06/07/06 16:44		☐
25	CCV 3				1.0	06/07/06 16:47		☐
26	CCB 3				1.0	06/07/06 16:50		☐
27	CCV 4				1.0	06/07/06 16:52		☐
28	CCB 4				1.0	06/07/06 16:55		☐
29	H590K	G6E260199-4	6153232	2A	1.0	06/07/06 16:58		☐
30	H590N	G6E260199-5	6153232	2A	1.0	06/07/06 17:00		☐
31	H590R	G6E260199-6	6153232	2A	1.0	06/07/06 17:03		☐
32	H590T	G6E260199-7	6153232	2A	1.0	06/07/06 17:06		☐
33	H590X	G6E260199-8	6153232	2A	1.0	06/07/06 17:08		☐
34	H5900	G6E260199-9	6153232	2A	1.0	06/07/06 17:11		☐
35	H5901	G6E260199-10	6153232	2A	1.0	06/07/06 17:14		☐
36	H5902	G6E260199-11	6153232	2A	1.0	06/07/06 17:17		☐
37	H5903	G6E260199-12	6153232	2A	1.0	06/07/06 17:19		☐
38	H5904	G6E260199-13	6153232	2A	1.0	06/07/06 17:22		☐
39	CCV 5				1.0	06/07/06 17:25		☐
40	CCB 5				1.0	06/07/06 17:27		☐
41	CCV 6				1.0	06/07/06 17:30		☐
42	CCB 6				1.0	06/07/06 17:33		☐
43	CCV 7				1.0	06/07/06 17:36		☐
44	CCB 7				1.0	06/07/06 17:38		☐
45	H6PRTB	G6F050000	6156250	2A	1.0	06/07/06 17:41		☐
46	H6PRTC	G6F050000	6156250	2A	1.0	06/07/06 17:44		☐
47	H6PRTL	G6F050000	6156250	2A	1.0	06/07/06 17:46		☐
48	H6N39	G6F030213-1	6156250	2A	1.0	06/07/06 17:49		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:33:36

File ID: 060607A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	H6N39P5	G6F030213	6156250		5.0	06/07/06 17:52		☐
50	H6N39X	G6F030213-1	6156250	2A	1.0	06/07/06 17:54		☐
51	H6N39Z	G6F030213-1	6156250		1.0	06/07/06 17:57		☐
52	H6N4A	G6F030213-2	6156250	2A	1.0	06/07/06 18:00		☐
53	H6N4C	G6F030213-3	6156250	2A	1.0	06/07/06 18:02		☐
54	H6N4D	G6F030213-4	6156250	2A	1.0	06/07/06 18:05		☐
55	CCV 8				1.0	06/07/06 18:08		☐
56	CCB 8				1.0	06/07/06 18:10		☐
57	CCV 9				1.0	06/07/06 18:13		☐
58	CCB 9				1.0	06/07/06 18:16		☐
59	H6N4E	G6F030213-5	6156250	2A	1.0	06/07/06 18:19		☐
60	H6N4F	G6F030213-6	6156250	2A	1.0	06/07/06 18:21		☐
61	H6N4G	G6F030213-7	6156250	2A	1.0	06/07/06 18:24		☐
62	H6N4H	G6F030213-8	6156250	2A	1.0	06/07/06 18:27		☐
63	H6N4J	G6F030213-9	6156250	2A	1.0	06/07/06 18:29		☐
64	H6N4K	G6F030213-10	6156250	2A	1.0	06/07/06 18:32		☐
65	H6N4L	G6F030213-11	6156250	2A	1.0	06/07/06 18:35		☐
66	H6N4M	G6F030213-12	6156250	2A	1.0	06/07/06 18:37		☐
67	H6N4N	G6F030213-13	6156250	2A	1.0	06/07/06 18:40		☐
68	H6N4P	G6F030213-14	6156250	2A	1.0	06/07/06 18:43		☐
69	CCV 10				1.0	06/07/06 18:46		☐
70	CCB 10				1.0	06/07/06 18:48		☐
71	CCV 11				1.0	06/07/06 18:51		☐
72	CCB 11				1.0	06/07/06 18:54		☐
73	H6P49C	G6F050000	6156386	2A	1.0	06/07/06 18:56		☐
74	H6P49L	G6F050000	6156386	2A	1.0	06/07/06 18:59		☐
75	Rinse				1.0	06/07/06 19:02		☐
76	H6P49B	G6F050000	6156386	2A	1.0	06/07/06 19:05		☐
77	H6P1N	G6F050151-1	6156386	2A	1.0	06/07/06 19:07		☐
78	H6P1NP5	G6F050151	6156386		5.0	06/07/06 19:10		☐
79	H6P1NX	G6F050151-1	6156386	2A	1.0	06/07/06 19:12		☐
80	H6P1NZ	G6F050151-1	6156386		1.0	06/07/06 19:15		☐
81	H6P1Q	G6F050151-2	6156386	2A	1.0	06/07/06 19:18		☐
82	H6P1R	G6F050151-3	6156386	2A	1.0	06/07/06 19:20		☐
83	CCV 12				1.0	06/07/06 19:23		☐
84	CCB 12				1.0	06/07/06 19:26		☐
85	CCV 13				1.0	06/07/06 19:29		☐
86	CCB 13				1.0	06/07/06 19:31		☐
87	H6P1T	G6F050151-4	6156386	2A	1.0	06/07/06 19:34		☐
88	H6P1V	G6F050151-5	6156386	2A	1.0	06/07/06 19:37		☐
89	H6P1W	G6F050151-6	6156386	2A	1.0	06/07/06 19:39		☐
90	H6P1X	G6F050151-7	6156386	2A	1.0	06/07/06 19:42		☐
91	H6P11	G6F050151-8	6156386	2A	1.0	06/07/06 19:45		☐
92	H6P12	G6F050151-9	6156386	2A	1.0	06/07/06 19:47		☐
93	H6P14	G6F050151-10	6156386	2A	1.0	06/07/06 19:50		☐
94	H6P15	G6F050151-11	6156386	2A	1.0	06/07/06 19:53		☐

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 06/08/06 09:33:36

File ID: **060607A1** **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
95	H6P16	G6F050151-12	6156386	2A	1.0	06/07/06 19:55		☐
96	H6P17	G6F050151-13	6156386	2A	1.0	06/07/06 19:58		☐
97	CCV 14				1.0	06/07/06 20:01		☐
98	CCB 14				1.0	06/07/06 20:04		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:33:36

File ID: 060607A1 **Analyst:** ionesb

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse 3X	06/07/06 15:47	96.9	☐
2	Blank	06/07/06 15:50	100.0	☑
3	Standard1	06/07/06 15:53	95.3	☑
4	ICV	06/07/06 15:56	97.2	☑
5	ICB	06/07/06 15:58	98.1	☑
6	ICSA	06/07/06 16:01	76.5	☑
7	ICSAB	06/07/06 16:04	79.0	☑
8	Rinse	06/07/06 16:06	99.8	☑
9	CCV 1	06/07/06 16:09	99.5	☑
10	CCB 1	06/07/06 16:12	100.5	☑
13	CCV 2	06/07/06 16:14	100.1	☑
14	CCB 2	06/07/06 16:17	100.9	☑
15	H6LDRC	06/07/06 16:20	100.7	☑
16	H6LDRL	06/07/06 16:23	99.2	☑
17	Rinse	06/07/06 16:26	98.8	☑
18	H6LDRB	06/07/06 16:28	102.5	☑
19	FB	06/07/06 16:31	107.1	☑
20	H590D	06/07/06 16:34	102.5	☑
21	H590DP5	06/07/06 16:36	101.8	☐
22	H590DZ	06/07/06 16:39	101.6	☑
23	H590F	06/07/06 16:42	100.7	☑
24	H590J	06/07/06 16:44	104.4	☑
25	CCV 3	06/07/06 16:47	102.8	☑
26	CCB 3	06/07/06 16:50	103.1	☑
27	CCV 4	06/07/06 16:52	102.4	☑
28	CCB 4	06/07/06 16:55	103.9	☑
29	H590K	06/07/06 16:58	106.8	☑
30	H590N	06/07/06 17:00	104.6	☑
31	H590R	06/07/06 17:03	105.3	☑
32	H590T	06/07/06 17:06	107.0	☑
33	H590X	06/07/06 17:08	106.5	☑
34	H5900	06/07/06 17:11	106.6	☑
35	H5901	06/07/06 17:14	106.8	☑
36	H5902	06/07/06 17:17	107.4	☑
37	H5903	06/07/06 17:19	107.1	☑
38	H5904	06/07/06 17:22	106.8	☑
39	CCV 5	06/07/06 17:25	99.7	☑
40	CCB 5	06/07/06 17:27	105.6	☑
41	CCV 6	06/07/06 17:30	104.4	☑
42	CCB 6	06/07/06 17:33	103.7	☑
43	CCV 7	06/07/06 17:36	103.6	☑
44	CCB 7	06/07/06 17:38	103.1	☑
45	H6PRTB	06/07/06 17:41	106.2	☑
46	H6PRTC	06/07/06 17:44	102.8	☑
47	H6PRTL	06/07/06 17:46	100.1	☑
48	H6N39	06/07/06 17:49	102.0	☑

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:33:36

File ID: 060607A1 **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Q
49	H6N39P5	06/07/06 17:52	102.8	☐
50	H6N39X	06/07/06 17:54	104.3	☑
51	H6N39Z	06/07/06 17:57	103.2	☑
52	H6N4A	06/07/06 18:00	102.1	☑
53	H6N4C	06/07/06 18:02	103.0	☑
54	H6N4D	06/07/06 18:05	104.5	☑
55	CCV 8	06/07/06 18:08	102.4	☑
56	CCB 8	06/07/06 18:10	103.0	☑
57	CCV 9	06/07/06 18:13	101.5	☑
58	CCB 9	06/07/06 18:16	102.6	☑
59	H6N4E	06/07/06 18:19	105.3	☑
60	H6N4F	06/07/06 18:21	104.1	☑
61	H6N4G	06/07/06 18:24	104.9	☑
62	H6N4H	06/07/06 18:27	105.6	☑
63	H6N4J	06/07/06 18:29	107.0	☑
64	H6N4K	06/07/06 18:32	108.0	☑
65	H6N4L	06/07/06 18:35	107.3	☑
66	H6N4M	06/07/06 18:37	106.9	☑
67	H6N4N	06/07/06 18:40	103.7	☑
68	H6N4P	06/07/06 18:43	109.0	☑
69	CCV 10	06/07/06 18:46	104.0	☑
70	CCB 10	06/07/06 18:48	104.2	☑
71	CCV 11	06/07/06 18:51	102.9	☑
72	CCB 11	06/07/06 18:54	104.4	☑
73	H6P49C	06/07/06 18:56	103.0	☑
74	H6P49L	06/07/06 18:59	99.9	☑
75	Rinse	06/07/06 19:02	97.8	☑
76	H6P49B	06/07/06 19:05	103.0	☑
77	H6P1N	06/07/06 19:07	103.1	☑
78	H6P1NP5	06/07/06 19:10	103.5	☐
79	H6P1NX	06/07/06 19:12	104.3	☑
80	H6P1NZ	06/07/06 19:15	101.7	☑
81	H6P1Q	06/07/06 19:18	102.7	☑
82	H6P1R	06/07/06 19:20	104.9	☑
83	CCV 12	06/07/06 19:23	101.0	☑
84	CCB 12	06/07/06 19:26	102.9	☑
85	CCV 13	06/07/06 19:29	101.5	☑
86	CCB 13	06/07/06 19:31	103.3	☑
87	H6P1T	06/07/06 19:34	105.4	☑
88	H6P1V	06/07/06 19:37	105.8	☑
89	H6P1W	06/07/06 19:39	104.9	☑
90	H6P1X	06/07/06 19:42	105.3	☑
91	H6P11	06/07/06 19:45	106.8	☑
92	H6P12	06/07/06 19:47	106.7	☑
93	H6P14	06/07/06 19:50	106.4	☑
94	H6P15	06/07/06 19:53	108.1	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 06/08/06 09:33:36

File ID: **060607A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Q
95	H6P16	06/07/06 19:55	106.9	☑
96	H6P17	06/07/06 19:58	106.9	☑
97	CCV 14	06/07/06 20:01	104.4	☑
98	CCB 14	06/07/06 20:04	106.5	☑

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

File Name: 6153232R.mth
File Path: C:\elandata\Method\6153232R.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
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms
Kr	82.914	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

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				
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100			
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100			
Ge	71.922	Linear Thru Zero	ug/L	ug/L				
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100			
Kr	82.914	Linear Thru Zero	ug/L	ug/L	100			

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

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 2532-60D

Internal standard: 2532-66B

Blank, CCBs: 2531-22F

Standard 1, CCVs: 2532-65D

ICV: 2532-63D

ICSA: 2532-63E

ICSAB: 2532-64A

File Number: **060607A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Wednesday, June 07, 2006 15:34:26

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.077	1566	0.728	2036	
Be	9.012	8.978	2051	0.725	2028	
Co	58.933	58.928	14287	0.736	1899	
In	114.904	114.928	27945	0.730	1863	
Ce	139.905	139.879	34029	0.726	1907	
Tl	204.975	204.979	49741	0.722	2130	
Pb	207.977	207.979	50464	0.716	2147	
U	238.050	238.078	57690	0.715	2310	

Report Date/Time: Wednesday, June 07, 2006 15:36:04

Elan 6000 Instrument Optomization Report

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

Sample Information

Sample Date/Time: Wednesday, June 07, 2006 15:34:26
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	6.3
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:	15:37:07 Wed 07-Jun-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	060607A1\
Lens Voltage Start:	3.50 V
Lens Voltage End:	7.50 V
Lens Voltage Step:	0.25 V
Slope:	0.0118
Intercept:	4.6119

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.8 V	6031 cps	17
Co	58.933	5.3 V	267907 cps	17
In	114.904	6.0 V	477439 cps	17

Dual Detector Calibration

Date:	17:55:10 Tue 30-May-06
Sample Filename:	DUAL BJONES.750
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	6.014	7648	1.64e+009 cps
Li	7.014	7090	1.77e+009 cps
Be	9.010	6675	1.88e+009 cps
B	11.010	6965	1.80e+009 cps
Na	22.992	6886	1.82e+009 cps

Mg	23.983	6463	1.94e+009 cps
Mg	24.987	6338	1.98e+009 cps
Al	26.983	6070	2.06e+009 cps
P	30.994	5648	2.22e+009 cps
K	38.964	5425	2.31e+009 cps
Ca	42.960	5158	2.43e+009 cps
Ca	43.955	5421	2.31e+009 cps
Sc	44.955	5439	2.30e+009 cps
V	50.942	5270	2.38e+009 cps
Cr	51.942	5074	2.47e+009 cps
Fe	53.942	5007	2.50e+009 cps
Mn	54.937	4869	2.57e+009 cps
Fe	56.937	4807	2.60e+009 cps
Co	58.934	4745	2.64e+009 cps
Ni	59.932	4616	2.71e+009 cps
Cu	62.932	4506	2.78e+009 cps
Cu	64.929	4469	2.80e+009 cps
Zn	67.924	4540	2.76e+009 cps
Ge	71.922	4581	2.73e+009 cps
As	74.921	4511	2.77e+009 cps
Se	77.917	4616	2.71e+009 cps
Br	78.919	4504	2.78e+009 cps
Se	81.919	4505	2.78e+009 cps
Sr	87.906	4560	2.75e+009 cps
Mo	96.904	4590	2.73e+009 cps
Ag	106.905		cps
Ag	108.906		cps
Cd	110.903	4153	3.01e+009 cps
Cd	113.903	4169	3.00e+009 cps
In	114.903	4194	2.98e+009 cps
Sn	117.900	4254	2.94e+009 cps
Sb	120.905	4254	2.94e+009 cps
Ba	134.906	4169	3.00e+009 cps
Tm	168.936	3973	3.15e+009 cps
Tl	204.975	3740	3.35e+009 cps
Pb	207.979	3726	3.36e+009 cps
Bi	208.978	3779	3.31e+009 cps
U	238.050	3745	3.34e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Wednesday, June 07, 2006 15:39:23
Sample Description:
Sample File:
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\060607A1\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	83389.249	845.442	1.014
	Rh	103	359255.306	3784.463	1.053
	Pb	208	181078.539	3542.218	1.956
⌈>	Ba	138	337092.095	3156.476	0.936
⌊	Ba++	69	0.030	0.001	2.420
⌈>	Ce	140	410563.556	3053.871	0.744
⌊	CeO	156	0.035	0.001	2.647
	Bkgd	220	5.143	2.595	50.461
	Li	7	23692.719	122.658	0.518
	Be	9	6379.056	45.056	0.706
	Co	59	242585.037	3255.922	1.342
	In	115	479641.302	2891.851	0.603
	Tl	205	255104.583	4398.412	1.724

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 15:47:33
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\Rinse 3X.004
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			1632714.245	ug/L	0.000
	44	Ca			22567.409	ug/L	0.000
	68	Zn			22298.054	ug/L	0.000
>	72	Ge-1			1219138.066	ug/L	0.000
	67	Zn			2924.368	ug/L	0.000
	66	Zn			11833.381	ug/L	0.000
>	72	Ge			1219138.066	ug/L	0.000
	106	Pd			6.000	ug/L	0.000
	83	Kr			425.344	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	
	Zn	67	
	Zn	66	
>	Ge	72	
	Pd	106	
	Kr	83	

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 15:50:31
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\Blank.005
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			1686935.281	ug/L	
	44	Ca			22560.382	ug/L	
	68	Zn			9051.733	ug/L	
>	72	Ge-1			1258020.061	ug/L	
	67	Zn			2184.766	ug/L	
	66	Zn			4699.903	ug/L	
>	72	Ge			1258020.061	ug/L	
	106	Pd			8.333	ug/L	
	83	Kr			461.345	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	
	Zn	67	
	Zn	66	
>	Ge	72	
	Pd	106	
	Kr	83	

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

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 15:53:24
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\Standard 1.006
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			1592871.043	ug/L	1686935.281
⌈	44	Ca	5100.000000	0.908	2094327.789	ug/L	22560.382
|	68	Zn	100.000000	2.813	122429.862	ug/L	9051.733
⌊>	72	Ge-1			1199194.398	ug/L	1258020.061
⌈	67	Zn	100.000000	2.456	12265.361	ug/L	2184.766
|	66	Zn	100.000000	2.265	64798.418	ug/L	4699.903
⌊>	72	Ge			1199194.398	ug/L	1258020.061
	106	Pd	100.000000	1.717	22888.904	ug/L	8.333
	83	Kr	100.000000	61.880	491.014	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	
	Kr	83	

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 15:56:01
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\ICV .007
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			1635369.260	ug/L	1686935.281
⌈	44	Ca	934.512653	1.758	409171.401	ug/L	22560.382
|	68	Zn	77.205938	1.599	98381.686	ug/L	9051.733
⌊>	72	Ge-1			1222625.089	ug/L	1258020.061
⌈	67	Zn	75.639154	2.634	9976.570	ug/L	2184.766
|	66	Zn	76.181381	1.738	51418.599	ug/L	4699.903
⌊>	72	Ge			1222625.089	ug/L	1258020.061
	106	Pd	81.112552	1.365	18567.348	ug/L	8.333
	83	Kr	124.719101	9.492	498.348	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	97.186
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.186
	Pd	106	
	Kr	83	

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 15:58:44
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\ICB.008
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			1634979.698	ug/L	1686935.281
	44	Ca	2.517279	37.959	23191.029	ug/L	22560.382
	68	Zn	-4.030655	17.212	4159.347	ug/L	9051.733
>	72	Ge-1			1234578.135	ug/L	1258020.061
	67	Zn	-2.850288	41.844	1844.212	ug/L	2184.766
	66	Zn	-4.196116	17.108	2005.998	ug/L	4699.903
>	72	Ge			1234578.135	ug/L	1258020.061
	106	Pd	-0.017482	62.915	4.333	ug/L	8.333
	83	Kr	-17.977313	686.113	456.012	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	98.137
	Zn	67	
	Zn	66	
>	Ge	72	98.137
	Pd	106	
	Kr	83	

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:01:25
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\ICSA.009
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			1306498.378	ug/L	1686935.281
⌈	44	Ca	91926.296985	0.181	30007968.584	ug/L	22560.382
|	68	Zn	-1.324867	20.801	5716.871	ug/L	9051.733
⌊>	72	Ge-1			962528.473	ug/L	1258020.061
⌈	67	Zn	25.457362	4.239	3752.920	ug/L	2184.766
|	66	Zn	3.787677	13.536	5431.057	ug/L	4699.903
⌊>	72	Ge			962528.473	ug/L	1258020.061
	106	Pd	0.556518	8.397	135.668	ug/L	8.333
	83	Kr	1167.436379	4.148	807.704	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	76.511
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	76.511
	Pd	106	
	Kr	83	

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:04:05
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\ICSAB.010
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			1332967.659	ug/L	1686935.281
	44	Ca	90965.299724	0.700	30679533.166	ug/L	22560.382
	68	Zn	83.451358	0.999	85920.511	ug/L	9051.733
>	72	Ge-1			994431.267	ug/L	1258020.061
	67	Zn	108.846895	1.091	10919.715	ug/L	2184.766
	66	Zn	85.605318	1.751	46537.346	ug/L	4699.903
>	72	Ge			994431.267	ug/L	1258020.061
	106	Pd	82.210435	1.187	18818.550	ug/L	8.333
	83	Kr	1203.392861	7.154	818.372	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	79.047
	Zn	67	
	Zn	66	
>	Ge	72	79.047
	Pd	106	
	Kr	83	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:06:46
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\Rinse.011
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			1685389.020	ug/L	1686935.281
⌈	44	Ca	4.511071	35.524	24425.713	ug/L	22560.382
|	68	Zn	-4.459591	19.361	3727.504	ug/L	9051.733
⌊>	72	Ge-1			1255496.891	ug/L	1258020.061
⌈	67	Zn	-2.098449	15.995	1956.279	ug/L	2184.766
|	66	Zn	-4.675253	20.017	1743.192	ug/L	4699.903
⌊>	72	Ge			1255496.891	ug/L	1258020.061
	106	Pd	-0.004371	152.752	7.333	ug/L	8.333
	83	Kr	-117.977008	45.833	426.344	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	99.799
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.799
	Pd	106	
	Kr	83	

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:09:30
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 1.012
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			1625995.799	ug/L	1686935.281
	44	Ca	4819.556965	0.914	2066281.789	ug/L	22560.382
	68	Zn	91.645163	0.839	117833.261	ug/L	9051.733
>	72	Ge-1			1251135.955	ug/L	1258020.061
	67	Zn	92.299186	1.654	11979.252	ug/L	2184.766
	66	Zn	89.678943	0.771	61114.861	ug/L	4699.903
>	72	Ge			1251135.955	ug/L	1258020.061
	106	Pd	99.421580	1.531	22756.558	ug/L	8.333
	83	Kr	-3.370775	585.947	460.345	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	99.453
	Zn	67	
	Zn	66	
>	Ge	72	99.453
	Pd	106	
	Kr	83	

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:12:12
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 1.013
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			1638953.230	ug/L	1686935.281
	44	Ca	3.457186	18.908	24145.939	ug/L	22560.382
	68	Zn	-3.968926	25.891	4347.479	ug/L	9051.733
>	72	Ge-1			1263998.306	ug/L	1258020.061
	67	Zn	-2.230628	23.063	1955.946	ug/L	2184.766
	66	Zn	-4.072479	24.354	2139.781	ug/L	4699.903
>	72	Ge			1263998.306	ug/L	1258020.061
	106	Pd	0.004371	115.470	9.333	ug/L	8.333
	83	Kr	-122.471272	85.321	425.010	ug/L	461.345

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	100.475
	Zn	67	
	Zn	66	
>	Ge	72	100.475
	Pd	106	
	Kr	83	

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:12:12
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 1.013
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			1638953.230	ug/L	
	44	Ca			24145.939	ug/L	
	68	Zn			4347.479	ug/L	
>	72	Ge-1			1263998.306	ug/L	
	67	Zn			1955.946	ug/L	
	66	Zn			2139.781	ug/L	
>	72	Ge			1263998.306	ug/L	
	106	Pd			9.333	ug/L	
	83	Kr			425.010	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	
	Zn	67	
	Zn	66	
>	Ge	72	
	Pd	106	
	Kr	83	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:09:30
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 1.012
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			1625995.799	ug/L	1638953.230
	44	Ca	5100.000000	0.914	2066281.789	ug/L	24145.939
	68	Zn	100.000000	0.804	117833.261	ug/L	4347.479
>	72	Ge-1			1251135.955	ug/L	1263998.306
	67	Zn	100.000000	1.615	11979.252	ug/L	1955.946
	66	Zn	100.000000	0.738	61114.861	ug/L	2139.781
>	72	Ge			1251135.955	ug/L	1263998.306
	106	Pd	100.000000	1.531	22756.558	ug/L	9.333
	83	Kr	100.000000	16.583	460.345	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	
	Zn	67	
	Zn	66	
>	Ge	72	
	Pd	106	
	Kr	83	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:14:55
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 2.014
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			1603389.217	ug/L	1638953.230
⌈	44	Ca	4991.451865	0.443	2045367.556	ug/L	24145.939
|	68	Zn	97.969078	1.454	116809.944	ug/L	4347.479
⌊>	72	Ge-1			1265101.444	ug/L	1263998.306
⌈	67	Zn	96.573984	1.824	11765.107	ug/L	1955.946
|	66	Zn	97.816392	1.099	60493.245	ug/L	2139.781
⌊>	72	Ge			1265101.444	ug/L	1263998.306
	106	Pd	98.795264	0.710	22482.514	ug/L	9.333
	83	Kr	117.924624	45.304	466.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	100.087
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.087
	Pd	106	
	Kr	83	

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:17:38
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 2.015
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			1635866.701	ug/L	1638953.230
-	44	Ca	1.723412	52.109	25054.486	ug/L	24145.939
	68	Zn	-1.180745	9.932	3020.856	ug/L	4347.479
->	72	Ge-1			1274972.224	ug/L	1263998.306
-	67	Zn	-0.227665	23.467	1949.608	ug/L	1955.946
	66	Zn	-1.288778	8.680	1383.974	ug/L	2139.781
->	72	Ge			1274972.224	ug/L	1263998.306
	106	Pd	-0.005862	198.431	8.000	ug/L	9.333
	83	Kr	62.264125	110.222	447.011	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
-	Ca	44	
	Zn	68	
->	Ge-1	72	100.868
-	Zn	67	
	Zn	66	
->	Ge	72	100.868
	Pd	106	
	Kr	83	

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

Sample ID: H6LDRC
Sample Description: G6F020000-232 LCS
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:20:41
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H6LDRC.016
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 101
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			1683303.365	ug/L	1638953.230
	44	Ca	1258.101736	1.774	536637.211	ug/L	24145.939
	68	Zn	187.129825	0.891	220400.189	ug/L	4347.479
>	72	Ge-1			1272281.033	ug/L	1263998.306
	67	Zn	174.875325	0.822	19828.711	ug/L	1955.946
	66	Zn	185.093361	1.579	113189.545	ug/L	2139.781
>	72	Ge			1272281.033	ug/L	1263998.306
	106	Pd	191.392245	0.730	43545.758	ug/L	9.333
	83	Kr	146.226643	41.028	476.680	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	100.655
	Zn	67	
	Zn	66	
>	Ge	72	100.655
	Pd	106	
	Kr	83	

Sample ID: H6LDRL
Sample Description: G6F020000-232 LCSD
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:23:18
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H6LDRL.017
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 102
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			1645389.993	ug/L	1638953.230
⌈	44	Ca	1255.492504	0.417	528086.347	ug/L	24145.939
|	68	Zn	187.944900	0.963	218233.276	ug/L	4347.479
⌊>	72	Ge-1			1254438.868	ug/L	1263998.306
⌈	67	Zn	176.400265	2.316	19708.331	ug/L	1955.946
|	66	Zn	185.144613	0.490	111647.889	ug/L	2139.781
⌊>	72	Ge			1254438.868	ug/L	1263998.306
	106	Pd	191.932722	0.698	43668.701	ug/L	9.333
	83	Kr	49.056673	232.231	442.345	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	99.244
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.244
	Pd	106	
	Kr	83	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:26:00
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\Rinse.018
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			1589874.412	ug/L	1638953.230
	44	Ca	1.365007	19.994	24395.629	ug/L	24145.939
	68	Zn	-0.680577	61.436	3526.387	ug/L	4347.479
>	72	Ge-1			1248538.022	ug/L	1263998.306
	67	Zn	-0.498237	104.965	1881.900	ug/L	1955.946
	66	Zn	-0.958620	31.541	1550.388	ug/L	2139.781
>	72	Ge			1248538.022	ug/L	1263998.306
	106	Pd	-0.017585	38.188	5.333	ug/L	9.333
	83	Kr	-30.188704	156.125	414.343	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	98.777
	Zn	67	
	Zn	66	
>	Ge	72	98.777
	Pd	106	
	Kr	83	

Sample ID: H6LDRB
Sample Description: G6F020000-232 BLK
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:28:43
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H6LDRB.019
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 20
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			1704225.840	ug/L	1638953.230
⌈	44	Ca	0.615305	142.066	25003.006	ug/L	24145.939
|	68	Zn	0.737852	104.508	5324.986	ug/L	4347.479
⌊>	72	Ge-1			1295693.227	ug/L	1263998.306
⌈	67	Zn	-7.722249	14.073	1201.899	ug/L	1955.946
|	66	Zn	0.897996	93.549	2742.899	ug/L	2139.781
⌊>	72	Ge			1295693.227	ug/L	1263998.306
	106	Pd	-0.023446	56.250	4.000	ug/L	9.333
	83	Kr	52.830091	30.462	443.678	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	102.508
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	102.508
	Pd	106	
	Kr	83	

Sample ID: FB
Sample Description: FB-F1815158
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:31:26
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\FB.020
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 21
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			1807339.903	ug/L	1638953.230
-	44	Ca	262.206337	4.046	139361.756	ug/L	24145.939
	68	Zn	0.824920	69.540	5672.862	ug/L	4347.479
->	72	Ge-1			1353557.635	ug/L	1263998.306
	67	Zn	-7.645040	12.000	1262.255	ug/L	1955.946
	66	Zn	0.934201	63.377	2889.353	ug/L	2139.781
->	72	Ge			1353557.635	ug/L	1263998.306
	106	Pd	0.256443	6.020	67.667	ug/L	9.333
	83	Kr	117.924730	87.996	466.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
-	Ca	44	
	Zn	68	
->	Ge-1	72	107.085
	Zn	67	
	Zn	66	
->	Ge	72	107.085
	Pd	106	
	Kr	83	

Sample ID: H590D
Sample Description: G6E260199-1
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:34:07
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590D.021
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
	45	Sc			1693360.058	ug/L	1638953.230
	44	Ca	897.172552	0.789	396729.779	ug/L	24145.939
	68	Zn	5.882435	14.067	11377.440	ug/L	4347.479
>	72	Ge-1			1295322.323	ug/L	1263998.306
	67	Zn	-3.073890	33.104	1685.122	ug/L	1955.946
	66	Zn	5.741494	12.880	5703.897	ug/L	2139.781
>	72	Ge			1295322.323	ug/L	1263998.306
	106	Pd	1.279301	28.192	300.339	ug/L	9.333
	83	Kr	72.641450	40.925	450.678	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	102.478
	Zn	67	
	Zn	66	
>	Ge	72	102.478
	Pd	106	
	Kr	83	

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

Sample ID: H590DP5
Sample Description: G6E260199-1 5X
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:36:46
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590DP5.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 28
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			1652683.792	ug/L	1638953.230
⌈	44	Ca	560.609012	0.934	255420.372	ug/L	24145.939
|	68	Zn	2.959799	13.698	7878.887	ug/L	4347.479
⌊>	72	Ge-1			1286545.867	ug/L	1263998.306
⌈	67	Zn	1.329239	23.971	2128.058	ug/L	1955.946
|	66	Zn	2.733077	16.266	3834.691	ug/L	2139.781
⌊>	72	Ge			1286545.867	ug/L	1263998.306
	106	Pd	0.230066	2.919	61.667	ug/L	9.333
	83	Kr	120.754837	51.634	467.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	101.784
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.784
	Pd	106	
	Kr	83	

Sample ID: H590DZ
Sample Description: G6E260199-1 PS
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:39:25
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590DZ.023
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 29
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			1677202.225	ug/L	1638953.230
	44	Ca	2076.548296	0.852	877932.056	ug/L	24145.939
	68	Zn	200.699399	0.582	238256.488	ug/L	4347.479
>	72	Ge-1			1284071.725	ug/L	1263998.306
	67	Zn	186.597478	0.831	21221.493	ug/L	1955.946
	66	Zn	197.998633	0.456	122067.311	ug/L	2139.781
>	72	Ge			1284071.725	ug/L	1263998.306
	106	Pd	200.939435	1.697	45717.478	ug/L	9.333
	83	Kr	210.377964	22.605	499.348	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	101.588
	Zn	67	
	Zn	66	
>	Ge	72	101.588
	Pd	106	
	Kr	83	

Sample ID: H590F
Sample Description: G6E260199-2
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:42:04
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590F.024
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 30
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			1656465.540	ug/L	1638953.230
⌈	44	Ca	897.509399	4.033	389530.140	ug/L	24145.939
|	68	Zn	5.362149	8.411	10576.079	ug/L	4347.479
⌊>	72	Ge-1			1272703.470	ug/L	1263998.306
⌈	67	Zn	-2.941540	28.402	1667.779	ug/L	1955.946
|	66	Zn	4.983071	11.714	5147.257	ug/L	2139.781
⌊>	72	Ge			1272703.470	ug/L	1263998.306
	106	Pd	1.091725	3.973	257.670	ug/L	9.333
	83	Kr	137.736045	47.320	473.680	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	100.689
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.689
	Pd	106	
	Kr	83	

Sample ID: H590J
Sample Description: G6E260199-3
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:44:44
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590J.025
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
	45	Sc			1705154.796	ug/L	1638953.230
	44	Ca	999.199838	0.644	447448.960	ug/L	24145.939
	68	Zn	6.592493	5.285	12440.181	ug/L	4347.479
>	72	Ge-1			1320214.605	ug/L	1263998.306
	67	Zn	-2.201397	9.924	1809.524	ug/L	1955.946
	66	Zn	6.604653	5.200	6347.781	ug/L	2139.781
>	72	Ge			1320214.605	ug/L	1263998.306
	106	Pd	1.378949	8.356	323.006	ug/L	9.333
	83	Kr	120.754864	63.426	467.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	104.447
	Zn	67	
	Zn	66	
>	Ge	72	104.447
	Pd	106	
	Kr	83	

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:47:25
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 3.026
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			1634710.001	ug/L	1638953.230
⌈	44	Ca	4935.217269	0.590	2077875.418	ug/L	24145.939
|	68	Zn	97.193375	0.576	119092.048	ug/L	4347.479
⌊>	72	Ge-1			1299680.225	ug/L	1263998.306
⌈	67	Zn	96.224018	1.513	12051.198	ug/L	1955.946
|	66	Zn	95.646410	1.252	60820.599	ug/L	2139.781
⌊>	72	Ge			1299680.225	ug/L	1263998.306
	106	Pd	102.593207	1.196	23346.441	ug/L	9.333
	83	Kr	122.641668	64.133	468.346	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	102.823
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	102.823
	Pd	106	
	Kr	83	

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:50:08
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 3.027
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			1660313.214	ug/L	1638953.230
⌈	44	Ca	6.480058	29.276	27583.418	ug/L	24145.939
|	68	Zn	-1.094210	40.936	3187.258	ug/L	4347.479
⌊>	72	Ge-1			1302833.298	ug/L	1263998.306
⌈	67	Zn	0.422321	291.907	2059.013	ug/L	1955.946
|	66	Zn	-1.404608	29.091	1342.629	ug/L	2139.781
⌊>	72	Ge			1302833.298	ug/L	1263998.306
	106	Pd	-0.016119	56.773	5.667	ug/L	9.333
	83	Kr	35.848948	55.451	437.678	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	103.072
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	103.072
	Pd	106	
	Kr	83	

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:52:51
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 4.028
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			1644179.354	ug/L	1638953.230
	44	Ca	4965.560008	1.783	2082367.348	ug/L	24145.939
	68	Zn	97.943991	1.889	119504.216	ug/L	4347.479
->	72	Ge-1			1294928.248	ug/L	1263998.306
	67	Zn	96.782210	1.681	12062.236	ug/L	1955.946
	66	Zn	96.175481	1.180	60909.239	ug/L	2139.781
->	72	Ge			1294928.248	ug/L	1263998.306
	106	Pd	101.843905	2.199	23175.996	ug/L	9.333
	83	Kr	216.038374	17.592	501.348	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
->	Ge-1	72	102.447
	Zn	67	
	Zn	66	
->	Ge	72	102.447
	Pd	106	
	Kr	83	

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 16:55:32
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 4.029
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			1653193.219	ug/L	1638953.230
⌈	44	Ca	4.428741	5.257	26952.786	ug/L	24145.939
|	68	Zn	-1.265649	5.618	3008.851	ug/L	4347.479
⌊>	72	Ge-1			1313431.336	ug/L	1263998.306
⌈	67	Zn	0.845951	99.653	2121.053	ug/L	1955.946
|	66	Zn	-1.505227	9.212	1290.934	ug/L	2139.781
⌊>	72	Ge			1313431.336	ug/L	1263998.306
	106	Pd	-0.013188	19.245	6.333	ug/L	9.333
	83	Kr	94.339641	56.471	458.345	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	103.911
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	103.911
	Pd	106	
	Kr	83	

Sample ID: H590K
Sample Description: G6E260199-4
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 16:58:14
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590K.030
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 32
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			1732885.617	ug/L	1638953.230
⌈	44	Ca	873.309080	0.749	403312.323	ug/L	24145.939
|	68	Zn	4.427318	5.368	10068.124	ug/L	4347.479
⌊>	72	Ge-1			1350456.451	ug/L	1263998.306
⌈	67	Zn	-3.979710	27.326	1657.441	ug/L	1955.946
|	66	Zn	4.114762	2.152	4906.182	ug/L	2139.781
⌊>	72	Ge			1350456.451	ug/L	1263998.306
	106	Pd	1.131291	1.956	266.671	ug/L	9.333
	83	Kr	133.962478	61.571	472.346	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	106.840
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	106.840
	Pd	106	
	Kr	83	

Sample ID: H590N
Sample Description: G6E260199-5
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:00:55
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590N.031
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 33
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			1717602.800	ug/L	1638953.230
⌈	44	Ca	831.490511	0.754	377169.361	ug/L	24145.939
|	68	Zn	4.426657	0.238	9858.551	ug/L	4347.479
⌊>	72	Ge-1			1322211.376	ug/L	1263998.306
⌈	67	Zn	-3.507764	8.660	1673.782	ug/L	1955.946
|	66	Zn	4.254647	3.506	4891.494	ug/L	2139.781
⌊>	72	Ge			1322211.376	ug/L	1263998.306
	106	Pd	1.138619	9.846	268.337	ug/L	9.333
	83	Kr	100.943414	37.019	460.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	104.605
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	104.605
	Pd	106	
	Kr	83	

Sample ID: H590R
Sample Description: G6E260199-6
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:03:36
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590R.032
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
	45	Sc			1739831.807	ug/L	1638953.230
⌈	44	Ca	889.252982	0.653	404107.116	ug/L	24145.939
|	68	Zn	5.177370	8.565	10821.360	ug/L	4347.479
⌊>	72	Ge-1			1330466.809	ug/L	1263998.306
⌈	67	Zn	-3.195369	32.097	1716.806	ug/L	1955.946
|	66	Zn	5.182946	12.242	5499.846	ug/L	2139.781
⌊>	72	Ge			1330466.809	ug/L	1263998.306
	106	Pd	1.285161	5.738	301.672	ug/L	9.333
	83	Kr	124.528418	40.401	469.013	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	105.259
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	105.259
	Pd	106	
	Kr	83	

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

Sample ID: H590T
Sample Description: G6E260199-7
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:06:17
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590T.033
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 35
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			1753700.214	ug/L	1638953.230
	44	Ca	1810.934715	0.226	809749.822	ug/L	24145.939
	68	Zn	11.671111	4.769	18977.586	ug/L	4347.479
>	72	Ge-1			1352394.744	ug/L	1263998.306
	67	Zn	3.041505	33.094	2423.608	ug/L	1955.946
	66	Zn	11.173436	3.445	9416.511	ug/L	2139.781
>	72	Ge			1352394.744	ug/L	1263998.306
	106	Pd	1.751172	12.503	407.676	ug/L	9.333
	83	Kr	181.132457	13.350	489.014	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	106.993
	Zn	67	
	Zn	66	
>	Ge	72	106.993
	Pd	106	
	Kr	83	

Sample ID: H590X
Sample Description: G6E260199-8
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:08:59
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H590X.034
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 36
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			1732226.358	ug/L	1638953.230
	44	Ca	1527.199985	2.256	683644.587	ug/L	24145.939
	68	Zn	9.747449	3.455	16532.939	ug/L	4347.479
>	72	Ge-1			1346406.363	ug/L	1263998.306
	67	Zn	1.012646	69.382	2191.768	ug/L	1955.946
	66	Zn	9.022464	3.981	8004.574	ug/L	2139.781
>	72	Ge			1346406.363	ug/L	1263998.306
	106	Pd	1.644193	1.346	383.342	ug/L	9.333
	83	Kr	205.660947	22.416	497.681	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	106.520
	Zn	67	
	Zn	66	
>	Ge	72	106.520
	Pd	106	
	Kr	83	

Sample ID: H5900
Sample Description: G6E260199-9
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:11:41
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H5900.035
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 37
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			1748090.521	ug/L	1638953.230
	44	Ca	1106.001122	0.267	502952.945	ug/L	24145.939
	68	Zn	9.288466	4.681	15993.274	ug/L	4347.479
>	72	Ge-1			1348005.924	ug/L	1263998.306
	67	Zn	0.696736	141.726	2160.414	ug/L	1955.946
	66	Zn	9.041533	3.994	8028.304	ug/L	2139.781
>	72	Ge			1348005.924	ug/L	1263998.306
	106	Pd	1.036039	4.048	245.003	ug/L	9.333
	83	Kr	100.943437	55.037	460.679	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	106.646
	Zn	67	
	Zn	66	
>	Ge	72	106.646
	Pd	106	
	Kr	83	

Sample ID: H5901
Sample Description: G6E260199-10
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:14:23
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H5901.036
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 38
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			1743319.885	ug/L	1638953.230
⌈	44	Ca	1043.391600	0.844	476800.149	ug/L	24145.939
|	68	Zn	11.484791	2.394	18718.005	ug/L	4347.479
⌊>	72	Ge-1			1350436.572	ug/L	1263998.306
⌈	67	Zn	2.650171	26.306	2376.904	ug/L	1955.946
|	66	Zn	11.328222	2.788	9500.090	ug/L	2139.781
⌊>	72	Ge			1350436.572	ug/L	1263998.306
	106	Pd	0.986215	4.766	233.670	ug/L	9.333
	83	Kr	222.642215	23.174	503.681	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	106.838
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	106.838
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001
BJones

Sample ID: H5902
Sample Description: G6E260199-11
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:17:06
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H5902.037
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 39
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			1748000.622	ug/L	1638953.230
⌈	44	Ca	1338.791180	0.555	607447.765	ug/L	24145.939
|	68	Zn	9.157781	4.578	15942.188	ug/L	4347.479
⌊>	72	Ge-1			1356981.770	ug/L	1263998.306
⌈	67	Zn	0.623588	125.480	2167.085	ug/L	1955.946
|	66	Zn	8.863139	3.298	7970.495	ug/L	2139.781
⌊>	72	Ge			1356981.770	ug/L	1263998.306
	106	Pd	1.434636	8.051	335.673	ug/L	9.333
	83	Kr	201.887375	35.585	496.347	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	107.356
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	107.356
	Pd	106	
	Kr	83	

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

Sample ID: H5903
Sample Description: G6E260199-12
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:19:49
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H5903.038
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 40
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			1738327.498	ug/L	1638953.230
⌈	44	Ca	1642.087255	0.521	737577.168	ug/L	24145.939
|	68	Zn	13.046461	2.444	20686.770	ug/L	4347.479
⌊>	72	Ge-1			1354031.106	ug/L	1263998.306
⌈	67	Zn	4.155812	20.352	2546.037	ug/L	1955.946
|	66	Zn	12.525204	2.022	10287.907	ug/L	2139.781
⌊>	72	Ge			1354031.106	ug/L	1263998.306
	106	Pd	1.862545	4.906	433.011	ug/L	9.333
	83	Kr	196.226947	33.589	494.347	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	107.123
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	107.123
	Pd	106	
	Kr	83	

Sample ID: H5904
Sample Description: G6E260199-13
Batch ID: 6153232
Sample Date/Time: Wednesday, June 07, 2006 17:22:32
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\H5904.039
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 41
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			1726724.544	ug/L	1638953.230
⌈	44	Ca	269.508294	0.547	142270.049	ug/L	24145.939
|	68	Zn	1.496351	29.170	6474.737	ug/L	4347.479
⌊>	72	Ge-1			1350197.525	ug/L	1263998.306
⌈	67	Zn	-6.135774	9.141	1423.991	ug/L	1955.946
|	66	Zn	1.471736	37.051	3221.338	ug/L	2139.781
⌊>	72	Ge			1350197.525	ug/L	1263998.306
	106	Pd	0.464529	12.303	115.001	ug/L	9.333
	83	Kr	143.396433	38.794	475.680	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	106.820
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	106.820
	Pd	106	
	Kr	83	

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 17:25:15
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCV 5.040
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			1548808.585	ug/L	1638953.230
⌈	44	Ca	5067.730158	6.407	2064730.360	ug/L	24145.939
|	68	Zn	100.048492	6.114	118543.917	ug/L	4347.479
⌊>	72	Ge-1			1260056.180	ug/L	1263998.306
⌈	67	Zn	101.771730	6.419	12227.549	ug/L	1955.946
|	66	Zn	98.807067	5.454	60763.611	ug/L	2139.781
⌊>	72	Ge			1260056.180	ug/L	1263998.306
	106	Pd	102.938529	2.324	23424.992	ug/L	9.333
	83	Kr	161.321048	32.159	482.013	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
⌊>	Ge-1	72	99.688
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.688
	Pd	106	
	Kr	83	

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, June 07, 2006 17:27:58
Method File: C:\elandata\Method\6153232R.mth
Dataset File: C:\elandata\Dataset\060607A1\CCB 5.041
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			1654116.182	ug/L	1638953.230
	44	Ca	6.057235	3.494	28079.652	ug/L	24145.939
	68	Zn	-1.026189	68.060	3346.334	ug/L	4347.479
>	72	Ge-1			1334466.702	ug/L	1263998.306
	67	Zn	0.943606	94.971	2165.751	ug/L	1955.946
	66	Zn	-1.237110	56.586	1480.371	ug/L	2139.781
>	72	Ge			1334466.702	ug/L	1263998.306
	106	Pd	0.020515	85.714	14.000	ug/L	9.333
	83	Kr	59.433882	52.381	446.011	ug/L	425.010

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Zn	68	
>	Ge-1	72	105.575
	Zn	67	
	Zn	66	
>	Ge	72	105.575
	Pd	106	
	Kr	83	

Mercury

G6E260199

STL Sacramento

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) | Instrument: STL2 (H03) | Reported: 06/08/06 15:55:05

Sequence: 08JUN06B **Date:** 06/08/06 10:58 **Analyst:** merrittn **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		06/08/06 10:58		☐
2	Std02Rep1	= 0.200			0.00	1.0	0.00	ug/L		06/08/06 11:00		☐
3	Std03Rep1	= 0.500			0.00	1.0	0.00	ug/L		06/08/06 11:02		☐
4	Std04Rep1	= 1.00			0.00	1.0	0.00	ug/L		06/08/06 11:03		☐
5	Std05Rep1	= 5.00			0.00	1.0	0.00	ug/L		06/08/06 11:05		☐
6	Std06Rep1	= 10.0			0.00	1.0	0.00	ug/L		06/08/06 11:07		☐
7	ICV	= 2.00			2.12	1.0	2.12	ug/L	106.0%	06/08/06 11:59		☐
8	ICB				0.02	1.0	0.02	ug/L		06/08/06 12:01		☐
9	H605PB	G6F080000	6159320		0.04	1.0	0.03	ug/L		06/08/06 12:03		☐
10	H605PC	G6F080000 = 1.80	6159320		0.96	1.0	0.58	ug/L	32.1%	06/08/06 12:05		☐
11	H605PL	G6F080000 = 1.80	6159320		1.02	1.0	0.61	ug/L	34.0%	06/08/06 12:06		☐
12	H590D	G6E260199-1	6159320	AIR	0.08	1.0	0.05	ug/L		06/08/06 12:08		☐
13	H590F	G6E260199-2	6159320	AIR	0.09	1.0	0.06	ug/L		06/08/06 12:10		☐
14	H590J	G6E260199-3	6159320	AIR	0.07	1.0	0.04	ug/L		06/08/06 12:12		☐
15	H590K	G6E260199-4	6159320	AIR	0.10	1.0	0.06	ug/L		06/08/06 12:14		☐
16	H590N	G6E260199-5	6159320	AIR	0.11	1.0	0.07	ug/L		06/08/06 12:16		☐
17	H590R	G6E260199-6	6159320	AIR	0.16	1.0	0.10	ug/L		06/08/06 12:18		☐
18	H590T	G6E260199-7	6159320	AIR	0.21	1.0	0.13	ug/L		06/08/06 12:20		☐
19	CCV	= 5.00			4.57	1.0	4.57	ug/L	91.4%	06/08/06 12:22		☐
20	CCB				-0.01	1.0	-0.01	ug/L		06/08/06 12:24		☐
21	H590X	G6E260199-8	6159320	AIR	0.14	1.0	0.08	ug/L		06/08/06 12:25		☐
22	H5900	G6E260199-9	6159320	AIR	0.12	1.0	0.07	ug/L		06/08/06 12:27		☐
23	H5901	G6E260199-10	6159320	AIR	0.08	1.0	0.05	ug/L		06/08/06 12:29		☐
24	H5902	G6E260199-11	6159320	AIR	0.14	1.0	0.09	ug/L		06/08/06 12:31		☐
25	H5903	G6E260199-12	6159320	AIR	0.14	1.0	0.08	ug/L		06/08/06 12:33		☐
26	H5904	G6E260199-13	6159320	AIR	0.04	1.0	0.02	ug/L		06/08/06 12:34		☐
27	CCV	= 5.00			4.97	1.0	4.97	ug/L	99.4%	06/08/06 12:36		☐
28	CCB				-0.03	1.0	-0.03	ug/L		06/08/06 12:38		☐

STL Sacramento

CALIBRATION CHECK SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 06/08/06 15:55:11

Sequence: 08JUN06B **Date:** 06/08/06 11:59 **Analyst:** merrittn **ICV:** _____ **CAL/CCV:** _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
7	ICV	= 2.00			2.12	1.0	2.12	ug/L	106.0%	06/08/06 11:59		☐
8	ICB				0.02	1.0	0.02	ug/L		06/08/06 12:01		☐
19	CCV	= 5.00			4.57	1.0	4.57	ug/L	91.4%	06/08/06 12:22		☐
20	CCB				-0.01	1.0	-0.01	ug/L		06/08/06 12:24		☐
27	CCV	= 5.00			4.97	1.0	4.97	ug/L	99.4%	06/08/06 12:36		☐
28	CCB				-0.03	1.0	-0.03	ug/L		06/08/06 12:38		☐

WinHg Database 1.5

File Utility Help

Protocol STL2 Dataset/Proto 08JUN06B/STL2

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

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.93237e-4

C -9.84634e-3

Rho .999962

Type Linear

Calibrated

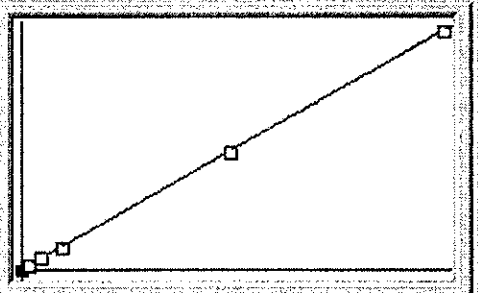
Accepted

Accept

µ Abs. 51918

Accepted

New



08-Jun-06 11:57 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	.036	.036	236	1	236		
02	.20000	.226	.026	1221	0%	1221		
03	.50000	.501	.001	2643	0%	2642		
04	1.0000	.953	-.047	4984	0%	4983		
05	5.0000	4.96	-.038	25728	0%	25728		
06	10.000	10.0	.023	51918	0%	51918		

Ready CAP NUM

CHEMIST INITIAL: N M
DATE OF RUN: 06/08/06
INSTRUMENT ID.: H-03
TYPE OF ANALYSIS: HS
CALIBRATION STD.: 1767 - 20 - 1
ICV STD.: 1767 - 19 - 18
CCV STD.: 1767 - 20 - 1

POST-RUN REPORT

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

*** Standard: 1 Rep: 1 Seq: 1 10:58:53 08 Jun 06 HG

Hg .000 ug/L 236

*** Standard: 2 Rep: 1 Seq: 2 11:00:39 08 Jun 06 HG

Hg .200 ug/L 1221

*** Standard: 3 Rep: 1 Seq: 3 11:02:16 08 Jun 06 HG

Hg .500 ug/L 2642

*** Standard: 4 Rep: 1 Seq: 4 11:03:53 08 Jun 06 HG

Hg 1.00 ug/L 4983

*** Standard: 5 Rep: 1 Seq: 5 11:05:36 08 Jun 06 HG

Hg 5.00 ug/L 25728

*** Standard: 6 Rep: 1 Seq: 6 11:07:58 08 Jun 06 HG

Hg 10.0 ug/L 51918

POST-RUN REPORT

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

*** Standard: 1 Rep: 1 Seq: 1 10:58:53 08 Jun 06 HG

Hg .000 ug/L 236

*** Standard: 2 Rep: 1 Seq: 2 11:00:39 08 Jun 06 HG

Hg .200 ug/L 1221

*** Standard: 3 Rep: 1 Seq: 3 11:02:16 08 Jun 06 HG

Hg .500 ug/L 2642

*** Standard: 4 Rep: 1 Seq: 4 11:03:53 08 Jun 06 HG

Hg 1.00 ug/L 4983

*** Standard: 5 Rep: 1 Seq: 5 11:05:36 08 Jun 06 HG

Hg 5.00 ug/L 25728

*** Standard: 6 Rep: 1 Seq: 6 11:07:58 08 Jun 06 HG

Hg 10.0 ug/L 51918

*** Sample ID: ICV Seq: 7 11:59:50 08 Jun 06 HG

Hg 2.12 ug/L .000 % 2.12 106%

*** Sample ID: ICB Seq: 8 12:01:32 08 Jun 06 HG

Hg .020 ug/L .000 % .020

*** Sample ID: H605PB Seq: 9 12:03:18 08 Jun 06 HG
G6F080000-320

Hg .044 ug/L .000 % .044

*** Sample ID: H605PC Seq: 10 12:05:10 08 Jun 06 HG
G6F080000-320

Hg .963 ug/L .000 % .963 96.3%

*** Sample ID: H605PL Seq: 11 12:06:57 08 Jun 06 HG
G6F080000-320

Hg 1.02 ug/L .000 % 1.02 102%

*** Sample ID: H590D Seq: 12 12:08:34 08 Jun 06 HG
G6E260199-1

Hg .084 ug/L .000 % .084

*** Sample ID: H590F Seq: 13 12:10:12 08 Jun 06 HG
G6E260199-2

Hg .092 ug/L .000 % .092

POST-RUN REPORT

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

*** Sample ID: H590J Seq: 14 12:12:11 08 Jun 06 HG
G6E260199-3
Hg .068 ug/L .000 % .068

*** Sample ID: H590K Seq: 15 12:14:01 08 Jun 06 HG
G6E260199-4
Hg .104 ug/L .000 % .104

*** Sample ID: H590N Seq: 16 12:16:10 08 Jun 06 HG
G6E260199-5
Hg .114 ug/L .000 % .114

*** Sample ID: H590R Seq: 17 12:18:28 08 Jun 06 HG
G6E260199-6
Hg .163 ug/L .000 % .163

*** Sample ID: H590T Seq: 18 12:20:39 08 Jun 06 HG
G6E260199-7
Hg .211 ug/L .000 % .211

*** Sample ID: CCV Seq: 19 12:22:28 08 Jun 06 HG
CCV
Hg 4.57 ug/L .000 % 4.57 91.4%

*** Sample ID: CCB Seq: 20 12:24:10 08 Jun 06 HG
CCB
Hg -.014 ug/L .000 % -.014

*** Sample ID: H590X Seq: 21 12:25:57 08 Jun 06 HG
G6E260199-8
Hg .136 ug/L .000 % .136

*** Sample ID: H5900 Seq: 22 12:27:54 08 Jun 06 HG
G6E260199-9
Hg .120 ug/L .000 % .120

*** Sample ID: H5901 Seq: 23 12:29:33 08 Jun 06 HG
G6E260199-10
Hg .075 ug/L .000 % .075

*** Sample ID: H5902 Seq: 24 12:31:22 08 Jun 06 HG
G6E260199-11
Hg .145 ug/L .000 % .145

*** Sample ID: H5903 Seq: 25 12:33:00 08 Jun 06 HG
G6E260199-12
Hg .140 ug/L .000 % .140

POST-RUN REPORT

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

*** Sample ID: H5904 Seq: 26 12:34:38 08 Jun 06 HG
G6E260199-13

Hg	.040	ug/L	.000 %	.040	

=

*** Sample ID: CCV Seq: 27 12:36:48 08 Jun 06 HG
CCV

Hg	4.97	ug/L	.000 %	4.97	99.4

=

*** Sample ID: CCB Seq: 28 12:38:28 08 Jun 06 HG
CCB

Hg	-.034	ug/L	.000 %	-.034	

=

STL Sacramento
Hg Data Review Checklist

SEVERN TRENT STL

Run Date: 06/08/06 **Analyst:** Merritt **Instrument** H-03

Prep Batches Run: 6159320

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: Merritt Date: 06/08/06

Comments:

2nd Level Reviewer: MEL Date: 6/9/06

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: 2-Jun-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
G6F020000	233	H6LD1B	2A	NA	NA	NA	100	6153233	1.2
G6F020000	233	H6LD1C	2A	NA	NA	NA	100	6153233	1.2
G6F020000	233	H6LD1L	2A	NA	NA	NA	100	6153233	1.2
G6E260199	1	H590D	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	2	H590F	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	3	H590J	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	4	H590K	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	5	H590N	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	6	H590R	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	7	H590T	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	8	H590X	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	9	H5900	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	10	H5901	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	11	H5902	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	12	H5903	2A	9	0.75	0.75	100	6153233	1.2
G6E260199	13	H5904	2A	9	0.75	0.75	100	6153233	1.2
Mbcontr	1	F1815158	2A	9	0.75	0.75	100	6153233	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 # G6E260199

Batch Number: 6153233 | EPA Analytical Method ID: 6010 | Spiked Date: 06/02/06

MS Run #: N/A | EPA Prep Method ID: 2A | Hot Plate Microwave ID: 4

Analyst Initial/Date: 06/02/06 NM | Witness Initial/Date: MY 06/02/06 | Hot Plate Temp Initial: 90 Final:

Correct Folder ID Witness: | Thermometer ID:

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 Al, As, Ba, Se, Sn, Tl Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	5,000 200 100 50 25 20 5 5.6	1774-MC16-17	~~N/A~~ NM 1.0 mL	N/A	11/06
✓	ICP Part 2 2% HNO_3	K,Na P,S B,Li,Sr	5,000 1,000 100	1774-MC17-10	1.0 mL	N/A	11/06
	~~Si HZ0/1T HF~~	~~Si~~	1,000				
	XCAL-45 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B,Si As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, ~~Li Sn,Sr,Ti~~ Sb,Ag,Tl	50 10 2.5				
	~~Misc. Elements~~				06/02/06 NM		

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt	C02065		~~30% H_2O_2~~	Mallinckrodt	
	37% HCl	~~Mallinckrodt~~			49% HF	Fisher	06/02/06 WM

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.

Q:\FORMS\QA-400 Metals Spiking corr.doc *QA-400 DAW 5/22/06*

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 2-Jun-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
G6F020000	232	H6LDRB	2A	NA	NA	NA	100	6153232	1.2
G6F020000	232	H6LDRC	2A	NA	NA	NA	100	6153232	1.2
G6F020000	232	H6LDRL	2A	NA	NA	NA	100	6153232	1.2
G6E260199	1	H590D	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	2	H590F	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	3	H590J	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	4	H590K	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	5	H590N	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	6	H590R	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	7	H590T	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	8	H590X	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	9	H5900	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	10	H5901	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	11	H5902	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	12	H5903	2A	9	0.75	0.75	100	6153232	1.2
G6E260199	13	H5904	2A	9	0.75	0.75	100	6153232	1.2
Mbcontrol	1	F1815158	2A	9	0.75	0.75	100	6153232	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 # G6E260199

Batch Number: NM 6/6153232

EPA Analytical Method ID: 6020

Spiked Date: 06/02/06

MS Run #: N/A

EPA Prep Method ID: 2-A

Hot Plate Microwave ID: 4

Analyst Initial/Date: 06/02/06 NM

Witness Initial/Date: MC/06/02/06

Hot Plate Temp Initial: QU Final:

Thermometer ID:

Correct Folder ID Witness:

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 Al, As, Ba, Se, Sn, Tl Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	5,000 200 100 50 25 20 5 5.6				
	ICP Part 2 2% HNO_3	K,Na P,S B,Li,Sr	5,000 1,000 100				
	Si H20/Tr HF	Si	1,000	06/02/06 NM			
	XCAL-45 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B,Si As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, Li Sn,Sr,Ti Sb,Ag,Tl	50 10 2.5	1774-Met7-8	2.0 mL	N/A	11/07
	Misc. Elements					06/02/06 NM	

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt	C02065		30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	06/02/06 NM

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.

Q:\FORMS\QA-400 Metals Spiking corr.doc

QA-400 DAW 5/22/06

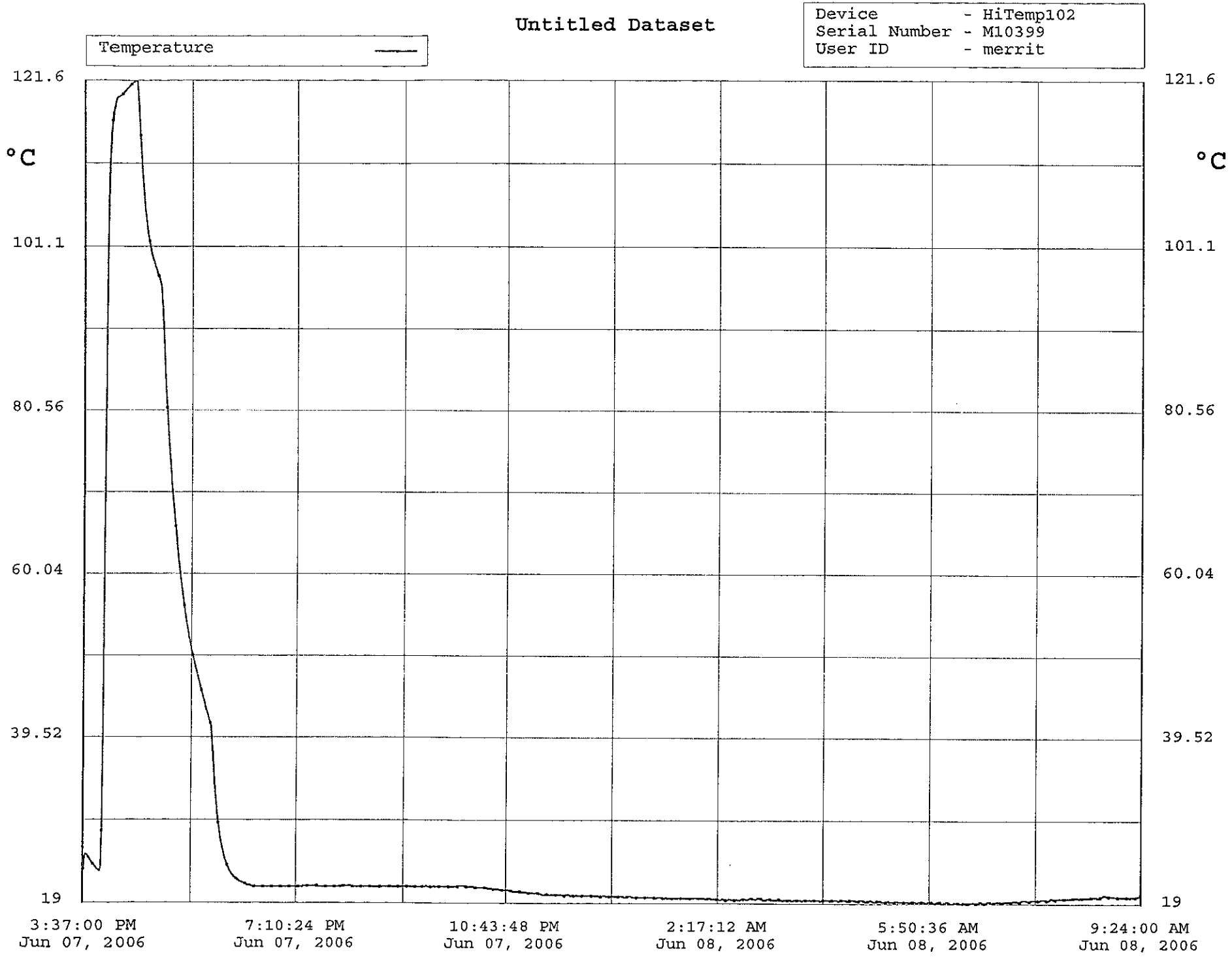
STL Sacramento
Mercury Sample Preparation Log

STL Lot Number	WO #	pH	Matrix	Wt/Vol	Final Vol.	Chemist:	merrittn	Date:	06/07/06
0	Std1Rep1	NA	AQUEOUS	50	50	SOP#:	SAC-MT-0005		
0.2	Std2Rep1	NA	AQUEOUS	50	50	Autoclave: Start Time:		15:37	End: 16:50
0.5	Std3Rep1	NA	AQUEOUS	50	50	Balance ID:	QA-007	Calibrated:	NA
1	Std4Rep1	NA	AQUEOUS	50	50	STANDARDS:			
5	Std5Rep1	NA	AQUEOUS	50	50	Initial Calibration Standard (ICV):			
10	Std6Rep1	NA	G6E270168	50	50	Lot#:1767-19-18		Conc:	100ppb
ICV	ICV	NA	AQUEOUS	50	50	Calibration Stds./CCV/Matrix Spike/LCSW			
ICB	ICB	NA	AQUEOUS	50	50	Lot#:1767-20-1		Conc:	100ppb
				06/08/06	50		SOIL (0.6g/50ml)		
G6F080000-320	H605PC		AQUEOUS		50		Curve/QC (ppb)	Spike Volume	
G6F080000-320	H605PL		AQUEOUS		50		0.0	0.0 ul	
G6F080000-320	H605PB		AQUEOUS		50		0.2	100 ul	
G6E260199-1	H590D		Filtr	0.75	50		0.5	250 ul	
G6E260199-2	H590F		Filtr	0.75	50		1.0	0.5 ml	
G6E260199-3	H590J		Filtr	0.75	50		5.0	2.5 ml	
G6E260199-4	H590K		Filtr	0.75	50		10.0	5.0 ml	
G6E260199-5	H590N		Filtr	0.75	50		CCV/5.0	2.5 ml	
G6E260199-6	H590R		Filtr	0.75	50		LCS/1.0	0.6g/0.5 ml	
G6E260199-7	H590T		Filtr	0.75	50		MS/SD/3.0	1.5 ml	
G6E260199-8	H590X		Filtr	0.75	50		ICV/2.0	1.0 ml	
G6E260199-9	H5900		Filtr	0.75	50				
G6E260199-10	H5901		Filtr	0.75	50		WATER (30/30ml) , DI Leach (30/30)		
G6E260199-11	H5902		Filtr	0.75	50		STLC (3/30 ml) , TCLP (6/30ml)		
G6E260199-12	H5903		Filtr	0.75	50		Curve/QC (ppb)	Spike Volume	
G6E260199-13	H5904		Filtr	0.75	50		0.0	0.0 ul	
CCV	CCV		AQUEOUS				0.2	60 ul	
CCB	CCB		AQUEOUS				0.5	150 ul	
							1.0	300 ul	
							5.0	1.5 ml	
							10.0	3.0 ml	
							CCV/5.0	1.5 ml	
							LCS/1.0	300 ul	
							MS/SD/1.0	300 ul	
							ICV/2.0	600 ul	
							REAGENTS:		
					06/08/06		HNO3 Lot#: C02065		
							H2SO4 Lot#: C05024		

QA392 Rev.2/21/2003

STL Sacramento
Mercury Sample Preparation Log

STL Lot Number	WO #	pH	Matrix	Wt/Vol	Final Vol.	Chemist:	merrittn	Date:	06/07/06
							KMnO4 Lot# 2626-MET-42-3		
							K2S2O8 Lot#: 2626-MET-40-4		
							NaCl(NH2OH)2 2626-40-5		
				NM	06/08/06		SnCL2 Lot#:2626-42-5		


Untitled Dataset
Device - HiTemp102
Serial Number - M10399
User ID - merrit
Temperature
°C
121.6
101.1
80.56
60.04
39.52
19
3:37:00 PM Jun 07, 2006
7:10:24 PM Jun 07, 2006
10:43:48 PM Jun 07, 2006
2:17:12 AM Jun 08, 2006
5:50:36 AM Jun 08, 2006
9:24:00 AM Jun 08, 2006

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

Reading Number	Date and Time	Channel 1 Temperature (°C)
1	2006-06-07 15:37:00	23.2
2	2006-06-07 15:38:00	24.7
3	2006-06-07 15:39:00	25
4	2006-06-07 15:40:00	25
5	2006-06-07 15:41:00	24.8
6	2006-06-07 15:42:00	24.6
7	2006-06-07 15:43:00	24.4
8	2006-06-07 15:44:00	24.2
9	2006-06-07 15:45:00	24
10	2006-06-07 15:46:00	23.8
11	2006-06-07 15:47:00	23.7
12	2006-06-07 15:48:00	23.5
13	2006-06-07 15:49:00	23.4
14	2006-06-07 15:50:00	23.2
15	2006-06-07 15:51:00	23.1
16	2006-06-07 15:52:00	23
17	2006-06-07 15:53:00	23
18	2006-06-07 15:54:00	23.4
19	2006-06-07 15:55:00	27.9
20	2006-06-07 15:56:00	41.5
21	2006-06-07 15:57:00	59.4
22	2006-06-07 15:58:00	75.4
23	2006-06-07 15:59:00	88.6
24	2006-06-07 16:00:00	99.4
25	2006-06-07 16:01:00	107.4
26	2006-06-07 16:02:00	111.9
27	2006-06-07 16:03:00	114.7
28	2006-06-07 16:04:00	116.6
29	2006-06-07 16:05:00	117.6
30	2006-06-07 16:06:00	118.4
31	2006-06-07 16:07:00	119.1
32	2006-06-07 16:08:00	119.4
33	2006-06-07 16:09:00	119.5
34	2006-06-07 16:10:00	119.6
35	2006-06-07 16:11:00	119.7
36	2006-06-07 16:12:00	119.8
37	2006-06-07 16:13:00	119.9
38	2006-06-07 16:14:00	120
39	2006-06-07 16:15:00	120.2
40	2006-06-07 16:16:00	120.3
41	2006-06-07 16:17:00	120.5
42	2006-06-07 16:18:00	120.6
43	2006-06-07 16:19:00	120.7
44	2006-06-07 16:20:00	120.9
45	2006-06-07 16:21:00	121

AIR, PM-10 & TSP

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 6/02/06
Time: 16:16:24

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 #: **6153431**
PREP DATE: 6/01/06 15:31
COMP DATE: 6/02/06 7:08
USER: VALMORES

INITIALS:
PREP
ANAL

DATA ENTRY:
INITIALS
DATE 6/2/06

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
H590T-1-AA	G-6E260199-007	XX S 88 AO 3W	Y-D	6/2/06	000466
H590X-1-AD	G-6E260199-008	XX S 88 AO 3W	Y-D		000467
H5900-1-AF	G-6E260199-009	XX S 88 AO 3W	Y-D		000468
H5901-1-AH	G-6E260199-010	XX S 88 AO 3W	Y-D		000469
H5902-1-AH	G-6E260199-011	XX S 88 AO 3W	Y-D		000470
H5903-1-AH	G-6E260199-012	XX S 88 AO 3W	Y-D		000471
H5904-1-AH	G-6E260199-013	XX S 88 AO 3W	Y-D		000472

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6E260199 - 7 → 13 Batch #: 6153431

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 6/2/06 ANALYST: [signature]

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: [signature] 6/2/06

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: [signature] 6/5/06

Comments: des 1A

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	5.0001 041006skv1515	5.0005 041106skv1414	5.0002 060106skv1531	5.0000 060206skv0703					-0.0005
H5NJP	bctsp041006-461	4.2628 041006skv1515	4.2632 041106skv1415	4.3229 052006skv0918	4.3226 052206skv0922					0.0594
H5NJQ	bctsp041006-462	4.2705 041006skv1516	4.2707 041106skv1415	4.3524 052006skv0918	4.3521 052206skv0923					0.0814
H5NJR	bctsp041006-463	4.2641 041006skv1516	4.2644 041106skv1415	4.3579 052006skv0918	4.3574 052206skv0923					0.0930
H5NJT	bctsp041006-464	4.2586 041006skv1517	4.2589 041106skv1416	4.2585 052006skv0919	4.2580 052206skv0923					-0.0009
H5NJV	bctsp041006-465	4.2600 041006skv1517	4.2604 041106skv1416	4.2583 052006skv0920	4.2582 052206skv0924					-0.0022
H590T	bctsp041006-466	4.2625 041006skv1518	4.2630 041106skv1417	4.3519 060106skv1532	4.3520 060206skv0704					0.0890
H590X	bctsp041006-467	4.2658 041006skv1521	4.2658 041106skv1420	4.3358 060106skv1532	4.3353 060206skv0705					0.0695
H5900	bctsp041006-468	4.2802 041006skv1521	4.2803 041106skv1421	4.3299 060106skv1532	4.3299 060206skv0705					0.0496
H5901	bctsp041006-469	4.2761 041006skv1522	4.2761 041106skv1423	4.3247 060106skv1532	4.3244 060206skv0705					0.0483
H5902	bctsp041006-470	4.2768 041006skv1522	4.2772 041106skv1424	4.3268 060106skv1533	4.3264 060206skv0706					0.0492
	5 g wt	4.9998 041006skv1522	5.0004 041106skv1425	5.0002 052006skv0920	5.0000 052206skv0924					-0.0004
	5 g wt	4.9998 041006skv1522	5.0004 041106skv1425	4.9999 060106skv1534	5.0002 060206skv0707					-0.0002
H5903	bctsp041006-471	4.2790 041006skv1523	4.2787 041106skv1425	4.3660 060106skv1534	4.3657 060206skv0707					0.0870
H5904	bctsp041006-472	4.2841 041006skv1523	4.2836 041106skv1427	4.2819 060106skv1535	4.2822 060206skv0708					-0.0014

G6E260199
STL Sacramento (916) 373 - 5600
274 of 280

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)
	bctsp041006-473	4.2828 041006skv1523	4.2832 041106skv1429							NC
	bctsp041006-474	4.2958 041006skv1524	4.2954 041106skv1430							NC
	bctsp041006-475	4.3290 041006skv1524	4.3286 041106skv1430							NC
	5 g wt	5.0002 041006skv1525	5.0001 041106skv1431	5.0003 060106skv1535	5.0000 060206skv0708					-0.0001

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6153431**

Date 6/05/2006
Time 11:49:18

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.
H590T-1-AA	0.0890	g	0.0001	06/01-06/02/06	.00	N	R	0.0890	0.0001	1.00
H590X-1-AD	0.0695	g	0.0001	06/01-06/02/06	.00	N	R	0.0695	0.0001	1.00
H5900-1-AF	0.0496	g	0.0001	06/01-06/02/06	.00	N	R	0.0496	0.0001	1.00
H5901-1-AH	0.0483	g	0.0001	06/01-06/02/06	.00	N	R	0.0483	0.0001	1.00
H5902-1-AH	0.0492	g	0.0001	06/01-06/02/06	.00	N	R	0.0492	0.0001	1.00
H5903-1-AH	0.0870	g	0.0001	06/01-06/02/06	.00	N	R	0.0870	0.0001	1.00
H5904-1-AH	ND	g	0.0001	06/01-06/02/06	.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

RQC050 Severn Trent Laboratories, Inc. Run Date: 6/02/06
WET CHEM BATCHSHEET Time: 16:15:48

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 #: **6153432** INITIALS: DATA ENTRY:
PREP DATE: 6/01/06 15:38 PREP INITIALS
COMP DATE: 6/02/06 7:01 ANAL DATE 6/2/06
USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
I590D-1-AA	G-6E260199-001	XX S 88 JR 01	Y-D	6/2/06	P-0637
I590F-1-AD	G-6E260199-002	XX S 88 JR 01	Y-D		P-0638
I590J-1-AD	G-6E260199-003	XX S 88 JR 01	Y-D		P-0639
I590K-1-AD	G-6E260199-004	XX S 88 JR 01	Y-D		P-0641
I590N-1-AD	G-6E260199-005	XX S 88 JR 01	Y-D		P-0642
I590R-1-AD	G-6E260199-006	XX S 88 JR 01	Y-D		P-0643

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6E260199 1-6 Batch #: 6153432

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 6/26 ANALYST: S Palmores

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: 6/26

LEVEL 2 REVIEW:			
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: CL 6/5/06

Comments: See LA

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	5.0001 041006skv1529	5.0000 041106skv1354	5.0000 060106skv1538	5.0000 060206skv0659					0.0000
H5NJ7	pmbc041006-636	4.5216 041006skv1529	4.5217 041106skv1354	4.5585 052006skv0925	4.5586 052206skv0930					0.0369
H590D	pmbc041006-637	4.5184 041006skv1530	4.5183 041106skv1354	4.5397 060106skv1538	4.5395 060206skv0659					0.0212
H590F	pmbc041006-638	4.5241 041006skv1530	4.5242 041106skv1355	4.5444 060106skv1539	4.5443 060206skv0659					0.0201
H590J	pmbc041006-639	4.5279 041006skv1530	4.5280 041106skv1355	4.5521 060106skv1539	4.5525 060206skv0700					0.0245
H590K	pmbc041006-640	4.5119 041006skv1531	4.5123 041106skv1355	4.5379 060106skv1540	4.5375 060206skv0700					0.0252
H590N	pmbc041006-641	4.5164 041006skv1531	4.5163 041106skv1356	4.5576 060106skv1540	4.5575 060206skv0700					0.0412
H590R	pmbc041006-642	4.5367 041006skv1531	4.5370 041106skv1356	4.5465 060106skv1540	4.5461 060206skv0701					0.0091
	pmbc041006-643	4.5235 041006skv1532	4.5232 041106skv1356							NC
	pmbc041006-644	4.5338 041006skv1532	4.5338 041106skv1358							NC
	pmbc041006-645	4.5140 041006skv1532	4.5137 041106skv1358							NC
	5 g wt	5.0002 041006skv1533	5.0003 041106skv1359	5.0001 052006skv0925	5.0005 052206skv0930					0.0002
	5 g wt	5.0002 041006skv1533	5.0003 041106skv1359	4.9998 060106skv1541	5.0000 060206skv0701					-0.0003

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6153432**

Date 6/05/2006
Time 11:43:50

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.
H590D-1-AA	0.0212	g	0.0001	06/01-06/02/06	.00	N	R	0.0212	0.0001	1.00
H590F-1-AD	0.0201	g	0.0001	06/01-06/02/06	.00	N	R	0.0201	0.0001	1.00
H590J-1-AD	0.0245	g	0.0001	06/01-06/02/06	.00	N	R	0.0245	0.0001	1.00
H590K-1-AD	0.0252	g	0.0001	06/01-06/02/06	.00	N	R	0.0252	0.0001	1.00
H590N-1-AD	0.0412	g	0.0001	06/01-06/02/06	.00	N	R	0.0412	0.0001	1.00
H590R-1-AD	0.0091	g	0.0001	06/01-06/02/06	.00	N	R	0.0091	0.0001	1.00

Notes:

PRODUCTION TOTALS

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