STL Sacramento
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West Sacramento, CA 95605

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December 12, 2006

STL SACRAMENTO PROJECT NUMBER: G6K140165
PO/CONTRACT: 129682.001/Event 109

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 November 14, 2006. These samples are associated with your 21243 project.

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

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

Sincerely,

Karen Dahl
Project Manager

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CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6K140165

AIR, 9056, Sulfate

As discussed, the method blank contains a positive result for sulfate (0.56 mg). Any positive results for this analyte in the associated samples have been flagged with a 'J' qualifier.

There were no other anomalies associated with this project.

STL Sacramento Certifications/Accreditations

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

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

QC Parameter Definitions

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

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

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

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

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

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

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

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

Sample Summary
G6K140165

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
JJMHA	1	P-0796	11/8/2006 01:15 PM	11/14/2006 09:10 AM
JJMHE	2	P-0797	11/8/2006 01:30 PM	11/14/2006 09:10 AM
JJMHF	3	P-0799	11/8/2006 11:30 AM	11/14/2006 09:10 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

G6K140165

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No._____

Event 109

YERA000198

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

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

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

PROJECT NAME: Yerington Air Qlty

PROJECT NUMBER: 121243

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

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT µg/hr	SAMPLING METHOD	DEPTH (FT.) BEGIN END	PID READING (ppm)
01	P-0796	11/8/06	1:15	MS	1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate			0.28		----	
02	P-0797		1:30		1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate			0.28		----	
03					1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate					----	
04					1	8x10 Filter	NONE	A	PM-10, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate					----	
05	P0799		11:30		1	8x10 Filter	NONE	A	TSP, Gross Alpha, Th(228,230), Ra(226,228), Metals (Al,As,Cd,Cr,Co,Cu,Mn,Ni), Sulfate			0.35		----	
06														----	
07														----	
08														----	
09														----	
10														----	

	DATE	TIME		DATE	TIME
COLLECTED & RELEASED BY: [signature]	11/13/06	16:00	COOLER I.D.:		
RECEIVED BY: [signature]	11/14/06	0915	RELINQUISHED BY:	/ /	:
RECORD RETURNED BY:	/ /	:			
COURIER: FEDEX			SHIPPING NUMBER: 7922 3936 2653		

COMMENTS (see note on back):
ENfos project number: 001RF-0473
Phase - 30 - prelim. Assessment
Subphase - 03 Analytical
Cost Element - Subcontract Costs

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

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

SEVERN TRENT STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT Brown & Caldwell PM KD LOG # 42246

LOT# (QUANTIMS ID) G6K140165 QUOTE# 62684 LOCATION AC

		Initials	Date
DATE RECEIVED 11/14/16 TIME RECEIVED 0910		CN	11/14/16
DELIVERED BY	☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER		
CUSTODY SEAL STATUS	☐ INTACT ☐ BROKEN ☑ N/A		
CUSTODY SEAL #(S)			
SHIPPPING CONTAINER(S)	☐ STL ☑ CLIENT ☐ N/A		
TEMPERTURE RECORD (IN °C)	IR 1☐ 3 ☐ ☐ OTHER NA		
COC #(S)			
TEMPERATURE BLANK	Observed: Corrected: ✓		
SAMPLE TEMPERATURE Observed: Ambient	Average: Corrected Average:		
COLLECTOR'S NAME:	☑ Verified from COC ☐ Not on COC		
pH MEASURED	☐ YES ☐ ANOMALY ☑ N/A		
LABELED BY			
LABELS CHECKED BY			
PEER REVIEW	☑ NA		
SHORT HOLD TEST NOTIFICATION	SAMPLE RECEIVING		
	WETCHEM ☑ N/A		
	VOA-ENCORES ☑ N/A		
☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL	☑ N/A		
☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES	☐ N/A		
☐ Clouseau	☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A		
☐ WET ICE	☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED	☐ PM NOTIFIED	

Notes:

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

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

SEVERN TRENT STL

Bottle Lot Inventory

Lot ID: G6K140165

	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	C	C	I																	
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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

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

QA-185 3/05 EM

Page 2

AIR, 6020, Metals

Brown and Caldwell

Client Sample ID: P-0796

TOTAL Metals

Lot-Sample #...: G6K140165-001 **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6326120						
Aluminum	ND	240	ug	SW846 6020	11/22/06	JJMHA1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	11/22-11/27/06	JJMHA1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	**0.043 B**	**1.2**	**ug**	**SW846 6020**	**11/22/06**	**JJMHA1AE**
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/22/06	JJMHA1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/22/06	JJMHA1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	**7.5**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHA1AH**
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	**5.4 B**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHA1AJ**
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/22/06	JJMHA1AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0797

TOTAL Metals

Lot-Sample #...: G6K140165-002 **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6326120						
Aluminum	ND	240	ug	SW846 6020	11/22/06	JJMHE1AC
		Dilution Factor: 1		MDL.....: 120		
Arsenic	ND	2.9	ug	SW846 6020	11/22-11/27/06	JJMHE1AD
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	**0.036 B**	**1.2**	**ug**	**SW846 6020**	**11/22/06**	**JJMHE1AE**
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	**4.0**	**2.4**	**ug**	**SW846 6020**	**11/22/06**	**JJMHE1AF**
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/22/06	JJMHE1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	**9.6**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHE1AH**
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	**5.0 B**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHE1AJ**
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	ND	6.0	ug	SW846 6020	11/22/06	JJMHE1AK
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0799

TOTAL Metals

Lot-Sample #...: G6K140165-003 **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6326120						
Aluminum	**172 B**	**240**	**ug**	**SW846 6020**	**11/22/06**	**JJMHF1AC**
		Dilution Factor: 1		MDL.....: 120		
Arsenic	**0.97 B**	**2.9**	**ug**	**SW846 6020**	**11/22-11/27/06**	**JJMHF1AD**
		Dilution Factor: 1		MDL.....: 0.89		
Cadmium	**0.077 B**	**1.2**	**ug**	**SW846 6020**	**11/22/06**	**JJMHF1AE**
		Dilution Factor: 1		MDL.....: 0.028		
Cobalt	ND	2.4	ug	SW846 6020	11/22/06	JJMHF1AF
		Dilution Factor: 1		MDL.....: 2.3		
Chromium	ND	2.9	ug	SW846 6020	11/22/06	JJMHF1AG
		Dilution Factor: 1		MDL.....: 2.3		
Copper	**34.9**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHF1AH**
		Dilution Factor: 1		MDL.....: 1.3		
Manganese	**6.9**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHF1AJ**
		Dilution Factor: 1		MDL.....: 2.0		
Nickel	**1.2 B**	**6.0**	**ug**	**SW846 6020**	**11/22/06**	**JJMHF1AK**
		Dilution Factor: 1		MDL.....: 1.2		

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

G6K140165

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	SW846 6020		6326120	
002	AIR	SW846 6020		6326120	
003	AIR	SW846 6020		6326120	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6K140165 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: G6K220000-120 **Prep Batch #...:** 6326120						
Aluminum	ND	240	ug	SW846 6020	11/22/06	JJ71F1AA
		Dilution Factor: 1				
Arsenic	ND	2.9	ug	SW846 6020	11/22-11/27/06	JJ71F1AC
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	11/22/06	JJ71F1AD
		Dilution Factor: 1				
Chromium	ND	2.9	ug	SW846 6020	11/22/06	JJ71F1AF
		Dilution Factor: 1				
Cobalt	ND	2.4	ug	SW846 6020	11/22/06	JJ71F1AE
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	11/22/06	JJ71F1AG
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	11/22/06	JJ71F1AH
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	11/22/06	JJ71F1AJ
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6K140165 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	1200	1050	ug	87		SW846 6020	11/22/06	6326120
	1200	1040	ug	87	0.74	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Arsenic	240	214	ug	89		SW846 6020	11/22-11/27/06	6326120
	240	225	ug	94	5.4	SW846 6020	11/22-11/27/06	6326120
			Dilution Factor: 1					
Cadmium	240	212	ug	88		SW846 6020	11/22/06	6326120
	240	211	ug	88	0.36	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Chromium	240	216	ug	90		SW846 6020	11/22/06	6326120
	240	215	ug	90	0.29	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Cobalt	240	217	ug	90		SW846 6020	11/22/06	6326120
	240	216	ug	90	0.52	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Copper	240	221	ug	92		SW846 6020	11/22/06	6326120
	240	217	ug	90	1.8	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Manganese	240	225	ug	94		SW846 6020	11/22/06	6326120
	240	221	ug	92	1.7	SW846 6020	11/22/06	6326120
			Dilution Factor: 1					
Nickel	240	217	ug	91		SW846 6020	11/22/06	6326120
	240	214	ug	89	1.5	SW846 6020	11/22/06	6326120
			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 #...: G6K140165 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Aluminum	87	(75 - 125)			SW846 6020	11/22/06	6326120
	87	(75 - 125)	0.74	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Arsenic	89	(75 - 125)			SW846 6020	11/22-11/27/06	6326120
	94	(75 - 125)	5.4	(0-20)	SW846 6020	11/22-11/27/06	6326120
		Dilution Factor: 1					
Cadmium	88	(75 - 125)			SW846 6020	11/22/06	6326120
	88	(75 - 125)	0.36	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Chromium	90	(75 - 125)			SW846 6020	11/22/06	6326120
	90	(75 - 125)	0.29	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Cobalt	90	(75 - 125)			SW846 6020	11/22/06	6326120
	90	(75 - 125)	0.52	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Copper	92	(75 - 125)			SW846 6020	11/22/06	6326120
	90	(75 - 125)	1.8	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Manganese	94	(75 - 125)			SW846 6020	11/22/06	6326120
	92	(75 - 125)	1.7	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					
Nickel	91	(75 - 125)			SW846 6020	11/22/06	6326120
	89	(75 - 125)	1.5	(0-20)	SW846 6020	11/22/06	6326120
		Dilution Factor: 1					

NOTE(S):

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

AIR, 9056, Sulfate

Brown and Caldwell

Client Sample ID: P-0796

General Chemistry

Lot-Sample #...: G6K140165-001 **Work Order #...:** JJMHA **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**0.56 J**	**0.48**	**mg**	**SW846 9056**	**11/22-11/23/06**	**6331180**

Dilution Factor: 12 MDL.....: 0.048

NOTE(S):

RL Reporting Limit

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

Brown and Caldwell

Client Sample ID: P-0797

General Chemistry

Lot-Sample #...: G6K140165-002 **Work Order #...:** JJMHE **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**0.70 J**	**0.48**	**mg**	**SW846 9056**	**11/22-11/23/06**	**6331180**

Dilution Factor: 12 MDL.....: 0.048

NOTE(S):

RL Reporting Limit

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

Brown and Caldwell

Client Sample ID: P-0799

General Chemistry

Lot-Sample #...: G6K140165-003 **Work Order #...:** JJMHF **Matrix.....:** AIR
Date Sampled...: 11/08/06 **Date Received..:** 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate	**0.68 J**	**0.48**	**mg**	**SW846 9056**	**11/22-11/23/06**	**6331180**

Dilution Factor: 12 MDL.....: 0.048

NOTE(S):

RL Reporting Limit

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

QC DATA ASSOCIATION SUMMARY

G6K140165

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	SW846 9056		6331180	
	AIR	CFR50J APDX J		6321478	
	AIR	SW846 6020		6326120	
002	AIR	SW846 9056		6331180	
	AIR	CFR50J APDX J		6321478	
	AIR	SW846 6020		6326120	
003	AIR	CFR50B APDX B		6321477	
	AIR	SW846 6020		6326120	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G6K140165 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		Work Order #: JKC3P1AA		MB Lot-Sample #:	G6K270000-180	
	0.56	**0.48**	**mg**	**SW846 9056**	**11/22-11/23/06**	**6331180**
		Dilution Factor: 12				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: G6K140165 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		WO#:JKC3P1AC-LCS/JKC3P1AD-LCSD				LCS Lot-Sample#: G6K270000-180		
	4.80	4.84	mg	101		SW846 9056	11/22-11/23/06	6331180
	4.80	4.86	mg	101	0.41	SW846 9056	11/22-11/23/06	6331180

Dilution Factor: 1

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: G6K140165 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate		WO#:JKC3P1AC-LCS/JKC3P1AD-LCSD				LCS Lot-Sample#: G6K270000-180	
	101	(85 - 115)			SW846 9056	11/22-11/23/06	6331180
	101	(85 - 115)	0.41	(0-15)	SW846 9056	11/22-11/23/06	6331180

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-0796

General Chemistry

Lot-Sample #...: G6K140165-001 Work Order #...: JJMHA Matrix.....: AIR
Date Sampled...: 11/08/06 Date Received..: 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0070	0.0001	g	CFR50J APDX J	11/16-11/17/06	6321478

Brown and Caldwell

Client Sample ID: P-0797

General Chemistry

Lot-Sample #...: G6K140165-002 Work Order #...: JJMHE Matrix.....: AIR
Date Sampled...: 11/08/06 Date Received..: 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0090	0.0001	g	CFR50J APDX J	11/16-11/17/06	6321478

Brown and Caldwell

Client Sample ID: P-0799

General Chemistry

Lot-Sample #...: G6K140165-003 Work Order #...: JJMHF Matrix.....: AIR
Date Sampled...: 11/08/06 Date Received..: 11/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0151	0.0001	g	CFR50B APDX B	11/16-11/17/06	6321477

AIR, 6020, Metals

Raw Data Package

ICPMS

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 061122b1	Batch Numbers 6321133, 6326120, 6326122, 6326127, 6321081, 6317241, 6317263, 6318093	Date 11/22/06	Analyst BEV

Lot Numbers GGK020146, GGK020151, GGK090141, GGK140165, GGK210170, GGK210173, GGK210178, GGJ050276, GGK060161, GGJ200219, GGJ230134, GGJ260249, GGJ300165, GGJ280108, GGJ010273, GGK100129	YES	NO	NA
1. Copy of analysis protocol used included?	X		
2. ICVs & CCVs within 10% of true value or recal and rerun?	X		
3. ICB & CCBs < reporting limit or recal and rerun?	X		
4. 10 samples or less analyzed between calibration checks?	X		
5. All parameters within linear range?	X		
6. LCS/LCSD within limits?	X		
7. Prep blank value < reporting limit or all samples >20x blank?	X		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?	X		
9. Appropriate dilution factors applied to data?	X		
10. Matrix spike and spike dup within customer defined limits?			X
11. Each batch checked for presence of internal standard in samples?	X		
12. Anomalies entered using Clouseau?			X

COMMENTS: Acron As GGK020146, GGK020151, GGK090141
GGK140165

REVIEWED BY: MJK
DATE: 11/28/06

DATA ENTERED BY: BEV
DATE: 11/27/06

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

QA-427 ERS 6/11/03

Dataset Report

Perkin Elmer ICPMS M01
User Name: JonesB
Computer Name: SACP317A
Dataset File Path: c:\elandata\dataset\061122b1\
Report Date/Time: Thursday, November 23, 2006 12:14:42

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	Rinse	17:40:43 Wed 22-Nov-06	Sample	
	Blank	17:44:50 Wed 22-Nov-06	Blank	
	Standard 1	17:48:52 Wed 22-Nov-06	Standard #1	
	ICV	17:52:32 Wed 22-Nov-06	Sample	
	ICB	17:56:18 Wed 22-Nov-06	Sample	
	LLSTD 10X	18:00:08 Wed 22-Nov-06	Sample	As out
	LLSTD 5X	18:03:22 Wed 22-Nov-06	Sample	
	ICSA	18:09:25 Wed 22-Nov-06	Sample	
	ICSAB	18:13:08 Wed 22-Nov-06	Sample	
	Rinse	18:17:14 Wed 22-Nov-06	Sample	
RECAL	CCV 1	18:21:01 Wed 22-Nov-06	Sample	
	CCB 1	18:24:48 Wed 22-Nov-06	Sample	
	CCV 2	18:28:34 Wed 22-Nov-06	Sample	
	CCB 2	18:32:20 Wed 22-Nov-06	Sample	
	LLSTD 5X	18:37:32 Wed 22-Nov-06	Sample	
6321133	JJXAJC	18:41:56 Wed 22-Nov-06	Sample	G6K170000-133 LCS
6321133	JJXAJL	18:45:37 Wed 22-Nov-06	Sample	G6K170000-133 LCSD
6326120	JJ71FC	18:49:19 Wed 22-Nov-06	Sample	G6K220000-120 LCS
6326120	JJ71FL	18:53:01 Wed 22-Nov-06	Sample	G6K220000-120 LCSD
	Rinse	18:56:47 Wed 22-Nov-06	Sample	
6321133	JJXAJB	19:00:32 Wed 22-Nov-06	Sample	G6K170000-133 BLK
6321133	MB CONTROL	19:04:22 Wed 22-Nov-06	Sample	
6326120	JJ71FB	19:07:31 Wed 22-Nov-06	Sample	G6K220000-120 BLK
6326120	MB CONTROL	19:11:21 Wed 22-Nov-06	Sample	
	CCV 3	19:14:32 Wed 22-Nov-06	Sample	
	CCB 3	19:18:18 Wed 22-Nov-06	Sample	
	CCV 4	19:22:05 Wed 22-Nov-06	Sample	
	CCB 4	19:25:51 Wed 22-Nov-06	Sample	
6321133	JHQ8V	19:29:36 Wed 22-Nov-06	Sample	G6K020146-1
6321133	JHQ8VP5	19:33:18 Wed 22-Nov-06	Sample	G6K020146-1 5X
6321133	JHQ8VZ	19:37:01 Wed 22-Nov-06	Sample	G6K020146-1 PS
6321133	JHQ88	19:40:44 Wed 22-Nov-06	Sample	G6K020146-2
6321133	JHQ9A	19:44:27 Wed 22-Nov-06	Sample	G6K020146-3
6321133	JHQ9F	19:48:11 Wed 22-Nov-06	Sample	G6K020146-4
6321133	JHQ9H	19:51:55 Wed 22-Nov-06	Sample	G6K020146-5
6321133	JHRAM	19:55:40 Wed 22-Nov-06	Sample	G6K020151-1
6321133	JHRAX	19:59:25 Wed 22-Nov-06	Sample	G6K020151-2
6321133	JHRA2	20:03:09 Wed 22-Nov-06	Sample	G6K020151-3
	CCV 5	20:06:55 Wed 22-Nov-06	Sample	
	CCB 5	20:10:42 Wed 22-Nov-06	Sample	
	CCV 6	20:14:28 Wed 22-Nov-06	Sample	
	CCB 6	20:18:14 Wed 22-Nov-06	Sample	
6321133	JHRA4	20:22:01 Wed 22-Nov-06	Sample	G6K020151-4
6326120	JJACE	20:25:47 Wed 22-Nov-06	Sample	G6K090141-1
6326120	JJACEP5	20:29:34 Wed 22-Nov-06	Sample	G6K090141-1 5X
6326120	JJACEZ	20:33:21 Wed 22-Nov-06	Sample	G6K090141-1 PS
6326120	JJACG	20:37:08 Wed 22-Nov-06	Sample	G6K090141-2
6326120	JJACH	20:40:56 Wed 22-Nov-06	Sample	G6K090141-3
6326120	JJACJ	20:44:44 Wed 22-Nov-06	Sample	G6K090141-4
6326120	JJACK	20:48:33 Wed 22-Nov-06	Sample	G6K090141-5

recov As

6326120	JJMHA	20:52:22 Wed 22-Nov-06	Sample	G6K140165-1
6326120	JJMHE	20:56:07 Wed 22-Nov-06	Sample	G6K140165-2
	CCV 7	20:59:51 Wed 22-Nov-06	Sample	
	CCB 7	21:03:38 Wed 22-Nov-06	Sample	
	CCV 8	21:07:24 Wed 22-Nov-06	Sample	
	CCB 8	21:11:10 Wed 22-Nov-06	Sample	
6326120	JJMHF	21:14:55 Wed 22-Nov-06	Sample	G6K140165-3
	LLSTD 10X	21:18:43 Wed 22-Nov-06	Sample	
	LLSTD 5X	21:21:56 Wed 22-Nov-06	Sample	
	ICSA	21:28:42 Wed 22-Nov-06	Sample	
	ICSAB	21:32:24 Wed 22-Nov-06	Sample	
	ICSAB	21:37:59 Wed 22-Nov-06	Sample	
	Rinse	21:41:44 Wed 22-Nov-06	Sample	
	CCV 9	21:45:31 Wed 22-Nov-06	Sample	
	CCB 9	21:49:17 Wed 22-Nov-06	Sample	
	CCV 10	22:13:34 Wed 22-Nov-06	Sample	
	CCB 10	22:17:05 Wed 22-Nov-06	Sample	
6326122	JJ71HC	22:20:34 Wed 22-Nov-06	Sample	G6K220000-122 LCS
6326122	JJ71HL	22:24:02 Wed 22-Nov-06	Sample	G6K220000-122 LCSD
	Rinse	22:27:32 Wed 22-Nov-06	Sample	
6326122	JJ71HB	22:31:03 Wed 22-Nov-06	Sample	G6K220000-122 BLK
6326122	JJ547	22:34:31 Wed 22-Nov-06	Sample	G6K210170-1
6326122	JJ547P5	22:37:59 Wed 22-Nov-06	Sample	G6K210170-1
6326122	JJ547X	22:41:40 Wed 22-Nov-06	Sample	G6K210170-1 DU
6326122	JJ547Z	22:45:08 Wed 22-Nov-06	Sample	G6K210170-1
6326122	JJ55E	22:48:36 Wed 22-Nov-06	Sample	G6K210170-2
6326122	JJ55F	22:52:06 Wed 22-Nov-06	Sample	G6K210170-3
	CCV 11	22:55:35 Wed 22-Nov-06	Sample	
	CCB 11	22:59:06 Wed 22-Nov-06	Sample	
	CCV 12	23:02:37 Wed 22-Nov-06	Sample	
	CCB 12	23:06:07 Wed 22-Nov-06	Sample	
6326122	JJ55G	23:09:38 Wed 22-Nov-06	Sample	G6K210170-4
6326122	JJ55H	23:13:07 Wed 22-Nov-06	Sample	G6K210170-5
6326122	JJ55J	23:16:38 Wed 22-Nov-06	Sample	G6K210170-6
6326122	JJ55K	23:20:08 Wed 22-Nov-06	Sample	G6K210170-7
6326122	JJ55L	23:23:39 Wed 22-Nov-06	Sample	G6K210170-8
6326122	JJ55M	23:27:10 Wed 22-Nov-06	Sample	G6K210170-9
6326122	JJ55P	23:30:42 Wed 22-Nov-06	Sample	G6K210170-10
6326122	JJ55Q	23:34:14 Wed 22-Nov-06	Sample	G6K210170-11
6326122	JJ55R	23:37:46 Wed 22-Nov-06	Sample	G6K210170-12
6326122	JJ558	23:41:19 Wed 22-Nov-06	Sample	G6K210173-1
	CCV 13	23:44:51 Wed 22-Nov-06	Sample	
	CCB 13	23:48:22 Wed 22-Nov-06	Sample	
	CCV 14	23:51:53 Wed 22-Nov-06	Sample	
	CCB 14	23:55:24 Wed 22-Nov-06	Sample	
6326122	JJ559	23:58:52 Wed 22-Nov-06	Sample	G6K210173-2
6326122	JJ56A	00:02:18 Thu 23-Nov-06	Sample	G6K210173-3
6326122	JJ56C	00:05:44 Thu 23-Nov-06	Sample	G6K210173-4
6326122	JJ56D	00:09:11 Thu 23-Nov-06	Sample	G6K210173-5
6326122	JJ56E	00:12:38 Thu 23-Nov-06	Sample	G6K210173-6
6326122	JJ56F	00:16:06 Thu 23-Nov-06	Sample	G6K210173-7
6326127	JJ71QC	00:19:34 Thu 23-Nov-06	Sample	G6K220000-127 LCS
6326127	JJ71QL	00:23:02 Thu 23-Nov-06	Sample	G6K220000-127 LCSD
	Rinse	00:26:33 Thu 23-Nov-06	Sample	
6326127	JJ71QB	00:30:04 Thu 23-Nov-06	Sample	G6K220000-127 BLK
	CCV 15	00:33:34 Thu 23-Nov-06	Sample	
	CCB 15	00:37:05 Thu 23-Nov-06	Sample	
	CCV 16	00:40:36 Thu 23-Nov-06	Sample	
	CCB 16	00:44:07 Thu 23-Nov-06	Sample	
6326127	JJ560	00:47:36 Thu 23-Nov-06	Sample	G6K210178-1

rerun As

RECAL
Shorter List

6326127	JJ560P5	00:51:07 Thu 23-Nov-06	Sample	G6K210178-1 5X
6326127	JJ560X	00:54:36 Thu 23-Nov-06	Sample	G6K210178-1 DU
6326127	JJ560Z	00:58:05 Thu 23-Nov-06	Sample	G6K210178-1 PS
6326127	JJ563	01:01:35 Thu 23-Nov-06	Sample	G6K210178-2
6326127	JJ564	01:05:05 Thu 23-Nov-06	Sample	G6K210178-3
6326127	JJ566	01:08:35 Thu 23-Nov-06	Sample	G6K210178-4
6326127	JJ567	01:12:06 Thu 23-Nov-06	Sample	G6K210178-5
6326127	JJ569	01:15:37 Thu 23-Nov-06	Sample	G6K210178-6
6326127	JJ57A	01:19:09 Thu 23-Nov-06	Sample	G6K210178-7
	CCV 17	01:22:40 Thu 23-Nov-06	Sample	
RECAL	CCB 17	01:26:11 Thu 23-Nov-06	Sample	
	CCV 18	01:29:42 Thu 23-Nov-06	Sample	
	CCB 18	01:33:12 Thu 23-Nov-06	Sample	
6326127	JJ57C	01:36:44 Thu 23-Nov-06	Sample	G6K210178-8
6326127	JJ57D	01:40:16 Thu 23-Nov-06	Sample	G6K210178-9
6326127	JJ57E	01:43:49 Thu 23-Nov-06	Sample	G6K210178-10
6326127	JJ57F	01:47:19 Thu 23-Nov-06	Sample	G6K210178-11
6326127	JJ57G	01:50:45 Thu 23-Nov-06	Sample	G6K210178-12
6326127	JJ57H	01:54:11 Thu 23-Nov-06	Sample	G6K210178-13
6326127	JJ56G	01:57:38 Thu 23-Nov-06	Sample	G6K210173-8
6326127	JJ56H	02:01:06 Thu 23-Nov-06	Sample	G6K210173-9
6326127	JJ56J	02:04:34 Thu 23-Nov-06	Sample	G6K210173-10
6326127	JJ56K	02:08:02 Thu 23-Nov-06	Sample	G6K210173-11
	CCV 19	02:11:33 Thu 23-Nov-06	Sample	
	CCB 19	02:15:06 Thu 23-Nov-06	Sample	
	CCV 20	02:18:40 Thu 23-Nov-06	Sample	
	CCB 20	02:22:14 Thu 23-Nov-06	Sample	
6326127	JJ56L	02:25:45 Thu 23-Nov-06	Sample	G6K210173-12
6326127	JJ56M	02:29:14 Thu 23-Nov-06	Sample	G6K210173-13
6321081	JJW8JC	02:32:43 Thu 23-Nov-06	Sample	G6K170000-81 LCS
6321081	JJW8JL	02:36:12 Thu 23-Nov-06	Sample	G6K170000-81 LCSD
	Rinse	02:39:43 Thu 23-Nov-06	Sample	
6321081	JJW8JB	02:43:15 Thu 23-Nov-06	Sample	G6K170000-81 BLK
6321081	JG77J	02:46:45 Thu 23-Nov-06	Sample	G6J250276-1
6321081	JG77JP5	02:50:17 Thu 23-Nov-06	Sample	G6J250276-1 5X
6321081	JG77JZ	02:53:48 Thu 23-Nov-06	Sample	G6J250276-1 PS
6321081	JG77L	02:57:18 Thu 23-Nov-06	Sample	G6J250276-2
	CCV 21	03:00:50 Thu 23-Nov-06	Sample	
	CCB 21	03:04:24 Thu 23-Nov-06	Sample	
	CCV 22	03:07:58 Thu 23-Nov-06	Sample	
	CCB 22	03:11:31 Thu 23-Nov-06	Sample	
6321081	JG77M	03:15:04 Thu 23-Nov-06	Sample	G6J250276-3
6321081	JG77Q	03:18:35 Thu 23-Nov-06	Sample	G6J250276-4
6321081	JG77T	03:22:07 Thu 23-Nov-06	Sample	G6J250276-5
6321081	JG77V	03:25:39 Thu 23-Nov-06	Sample	G6J250276-6 Serum Zn
6321081	JG77X	03:29:08 Thu 23-Nov-06	Sample	G6J250276-7
6321081	JG772	03:32:34 Thu 23-Nov-06	Sample	G6J250276-8
6321081	JH244	03:36:00 Thu 23-Nov-06	Sample	G6K060161-1
6321081	JH249	03:39:26 Thu 23-Nov-06	Sample	G6K060161-2
6321081	JH25C	03:42:53 Thu 23-Nov-06	Sample	G6K060161-3
6321081	JH25D	03:46:20 Thu 23-Nov-06	Sample	G6K060161-4
RECAL	CCV 23	03:49:50 Thu 23-Nov-06	Sample	Zn out
	CCB 23	03:53:24 Thu 23-Nov-06	Sample	
	CCV 24	03:56:57 Thu 23-Nov-06	Sample	
	CCB 24	04:00:31 Thu 23-Nov-06	Sample	
6321081	JH25J	04:04:02 Thu 23-Nov-06	Sample	G6K060161-5
6321081	JH25K	04:07:30 Thu 23-Nov-06	Sample	G6K060161-6
6321081	JH25L	04:10:58 Thu 23-Nov-06	Sample	G6K060161-7
6321081	JH25N	04:14:27 Thu 23-Nov-06	Sample	G6K060161-8
6317241	JJKE8C	04:17:56 Thu 23-Nov-06	Sample	G6K130000-241 LCS

6317241	JJKE8L	04:21:26 Thu 23-Nov-06	Sample	G6K130000-241 LCSD
	Rinse	04:24:57 Thu 23-Nov-06	Sample	
6317241	JJKE8B	04:28:29 Thu 23-Nov-06	Sample	G6K130000-241 BLK
	CCV 25	04:32:01 Thu 23-Nov-06	Sample	
	CCB 25	04:35:35 Thu 23-Nov-06	Sample	
	CCV 26	04:39:08 Thu 23-Nov-06	Sample	
	CCB 26	04:42:42 Thu 23-Nov-06	Sample	
6317241	JGWWP	04:46:14 Thu 23-Nov-06	Sample	G6J200219-1
6317241	JGWWPP5	04:49:43 Thu 23-Nov-06	Sample	G6J200219-1 5X
6317241	JGWWPZ	04:53:13 Thu 23-Nov-06	Sample	G6J200219-1 PS
6317241	JGWWX	04:56:43 Thu 23-Nov-06	Sample	G6J200219-2
6317241	JGWW2	05:00:14 Thu 23-Nov-06	Sample	G6J200219-3
6317241	JGWXD	05:03:45 Thu 23-Nov-06	Sample	G6J200219-4
6317241	JGWXF	05:07:16 Thu 23-Nov-06	Sample	G6J200219-5
6317241	JGWXG	05:10:48 Thu 23-Nov-06	Sample	G6J200219-6
6317241	JGWXL	05:14:17 Thu 23-Nov-06	Sample	G6J200219-7
6317241	JGWXN	05:17:43 Thu 23-Nov-06	Sample	G6J200219-8
	CCV 27	05:21:12 Thu 23-Nov-06	Sample	
	CCB 27	05:24:46 Thu 23-Nov-06	Sample	
	CCV 28	05:28:20 Thu 23-Nov-06	Sample	
	CCB 28	05:31:53 Thu 23-Nov-06	Sample	
6317241	JG3D8	05:35:23 Thu 23-Nov-06	Sample	G6J230134-1
6317241	JG3EA	05:38:50 Thu 23-Nov-06	Sample	G6J230134-2
6317241	JG3EC	05:42:17 Thu 23-Nov-06	Sample	G6J230134-3
6317241	JG3ED	05:45:44 Thu 23-Nov-06	Sample	G6J230134-4
6317241	JG3EE	05:49:12 Thu 23-Nov-06	Sample	G6J230134-5
6317241	JG3EF	05:52:39 Thu 23-Nov-06	Sample	G6J230134-6
6317241	JG3EH	05:56:08 Thu 23-Nov-06	Sample	G6J230134-7
6317241	JG3EJ	05:59:37 Thu 23-Nov-06	Sample	G6J230134-8
6317263	JJKH2C	06:03:06 Thu 23-Nov-06	Sample	G6K130000-263 LCS
6317263	JJKH2L	06:06:37 Thu 23-Nov-06	Sample	G6K130000-263 LCSD
	CCV 29	06:10:09 Thu 23-Nov-06	Sample	
	CCB 29	06:13:43 Thu 23-Nov-06	Sample	
	CCV 30	06:17:14 Thu 23-Nov-06	Sample	
	CCB 30	06:20:42 Thu 23-Nov-06	Sample	
6317263	JJKH2B	06:24:12 Thu 23-Nov-06	Sample	G6K130000-263 BLK
6317263	JHA94	06:27:42 Thu 23-Nov-06	Sample	G6J260249-1
6317263	JHA94P5	06:31:11 Thu 23-Nov-06	Sample	G6J260249-1 5X
6317263	JHA94Z	06:34:41 Thu 23-Nov-06	Sample	G6J260249-1 PS
6317263	JHA95	06:38:12 Thu 23-Nov-06	Sample	G6J260249-2
6317263	JHA96	06:41:42 Thu 23-Nov-06	Sample	G6J260249-3
6317263	JHA97	06:45:14 Thu 23-Nov-06	Sample	G6J260249-4
6317263	JHA99	06:48:45 Thu 23-Nov-06	Sample	G6J260249-5
6317263	JHCAA	06:52:14 Thu 23-Nov-06	Sample	G6J260249-6
6317263	JHCAC	06:55:41 Thu 23-Nov-06	Sample	G6J260249-7
RECAL	CCV 31	06:59:08 Thu 23-Nov-06	Sample	Zn out
	CCB 31	07:02:36 Thu 23-Nov-06	Sample	
	CCV 32	07:06:04 Thu 23-Nov-06	Sample	
	CCB 32	07:09:32 Thu 23-Nov-06	Sample	
6317263	JHCAD	07:13:00 Thu 23-Nov-06	Sample	G6J260249-8
6317263	JHJKC	07:16:28 Thu 23-Nov-06	Sample	G6J300165-1
6317263	JHJKF	07:19:56 Thu 23-Nov-06	Sample	G6J300165-2
6317263	JHJKG	07:23:24 Thu 23-Nov-06	Sample	G6J300165-3
6317263	JHJKH	07:26:53 Thu 23-Nov-06	Sample	G6J300165-4
6317263	JHJKJ	07:30:22 Thu 23-Nov-06	Sample	G6J300165-5
6317263	JHJKK	07:33:52 Thu 23-Nov-06	Sample	G6J300165-6
6317263	JHJKL	07:37:21 Thu 23-Nov-06	Sample	G6J300165-7
6317263	JHJKN	07:40:52 Thu 23-Nov-06	Sample	G6J300165-8
	CCV 33	07:44:21 Thu 23-Nov-06	Sample	
	CCB 33	07:47:49 Thu 23-Nov-06	Sample	

rerun Zn

	CCV 34	07:51:17 Thu 23-Nov-06	Sample	
	CCB 34	07:54:45 Thu 23-Nov-06	Sample	
6318093	JJL12C	07:58:15 Thu 23-Nov-06	Sample	G6K140000-93 LCS
6318093	JJL12L	08:01:46 Thu 23-Nov-06	Sample	G6K140000-93 LCSD
	Rinse	08:05:18 Thu 23-Nov-06	Sample	
6318093	JJL12B	08:08:50 Thu 23-Nov-06	Sample	G6K140000-93 BLK
6318093	JHGNW	08:12:20 Thu 23-Nov-06	Sample	G6J280108-5
6318093	JHGNWP5	08:15:47 Thu 23-Nov-06	Sample	G6J280108-5 5X
6318093	JHGNWZ	08:19:15 Thu 23-Nov-06	Sample	G6J280108-5 PS
6318093	JHGNX	08:22:43 Thu 23-Nov-06	Sample	G6J280108-6
6318093	JHGN0	08:26:11 Thu 23-Nov-06	Sample	G6J280108-7
6318093	JHGN1	08:29:40 Thu 23-Nov-06	Sample	G6J280108-8
	CCV 35	08:33:09 Thu 23-Nov-06	Sample	
	CCB 35	08:36:37 Thu 23-Nov-06	Sample	
	CCV 36	08:40:05 Thu 23-Nov-06	Sample	
	CCB 36	08:43:33 Thu 23-Nov-06	Sample	
6318093	JHPT4	08:47:01 Thu 23-Nov-06	Sample	G6K010273-1
6318093	JHPT5	08:50:32 Thu 23-Nov-06	Sample	G6K010273-2
6318093	JHPT7	08:54:05 Thu 23-Nov-06	Sample	G6K010273-3
6318093	JHPT8	08:57:38 Thu 23-Nov-06	Sample	G6K010273-4
6318093	JHPT9	09:01:11 Thu 23-Nov-06	Sample	G6K010273-5
6318093	JHPVA	09:04:45 Thu 23-Nov-06	Sample	G6K010273-6
6318093	JHPVC	09:08:17 Thu 23-Nov-06	Sample	G6K010273-7
6318093	JHPVD	09:11:48 Thu 23-Nov-06	Sample	G6K010273-8
6318093	JJERQ	09:15:20 Thu 23-Nov-06	Sample	G6K100129-1
6318093	JJERR	09:18:52 Thu 23-Nov-06	Sample	G6K100129-2
	CCV 37	09:22:21 Thu 23-Nov-06	Sample	
	CCB 37	09:25:49 Thu 23-Nov-06	Sample	
	CCV 38	09:29:17 Thu 23-Nov-06	Sample	
	CCB 38	09:32:45 Thu 23-Nov-06	Sample	
6318093	JJERT	09:36:16 Thu 23-Nov-06	Sample	G6K100129-3
6318093	JJERV	09:39:48 Thu 23-Nov-06	Sample	G6K100129-4
6318093	JJERW	09:43:21 Thu 23-Nov-06	Sample	G6K100129-5
6318093	JJERX	09:46:55 Thu 23-Nov-06	Sample	G6K100129-6
6318093	JJER1	09:50:25 Thu 23-Nov-06	Sample	G6K100129-7
6318093	JJER2	09:53:52 Thu 23-Nov-06	Sample	G6K100129-8
	CCV 39	09:57:19 Thu 23-Nov-06	Sample	
	CCB 39	10:00:47 Thu 23-Nov-06	Sample	

STL Sacramento RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: **061122B1** **Analyst: votawb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Blank				1.0	11/22/06 17:44		☐
2	Standard 1				1.0	11/22/06 17:48		☐
3	ICV				1.0	11/22/06 17:52		☐
4	ICB				1.0	11/22/06 17:56		☐
5	LLSTD 10X				10.0	11/22/06 18:00		☐
6	LLSTD 5X				5.0	11/22/06 18:03		☐
7	ICSA				1.0	11/22/06 18:09		☐
8	ICSAB				1.0	11/22/06 18:13		☐
9	Rinse				1.0	11/22/06 18:17		☐
10	CCV 1				1.0	11/22/06 18:21		☐
11	CCB 1				1.0	11/22/06 18:24		☐
14	CCV 2				1.0	11/22/06 18:28		☐
15	CCB 2				1.0	11/22/06 18:32		☐
16	LLSTD 5X				5.0	11/22/06 18:37		☐
17	JJXAJC	G6K170000	6321133	2A	1.0	11/22/06 18:41		☐
18	JJXAJL	G6K170000	6321133	2A	1.0	11/22/06 18:45		☐
19	JJ71FC	G6K220000	6326120	2A	1.0	11/22/06 18:49		☐
20	JJ71FL	G6K220000	6326120	2A	1.0	11/22/06 18:53		☐
21	Rinse				1.0	11/22/06 18:56		☐
22	JJXAJB	G6K170000	6321133	2A	1.0	11/22/06 19:00		☐
23	MB CONTRO				1.0	11/22/06 19:04		☐
24	JJ71FB	G6K220000	6326120	2A	1.0	11/22/06 19:07		☐
25	MB CONTRO				1.0	11/22/06 19:11		☐
26	CCV 3				1.0	11/22/06 19:14		☐
27	CCB 3				1.0	11/22/06 19:18		☐
28	CCV 4				1.0	11/22/06 19:22		☐
29	CCB 4				1.0	11/22/06 19:25		☐
30	JHQ8V	G6K020146-1	6321133	2A	1.0	11/22/06 19:29		☐
31	JHQ8VP5	G6K020146	6321133		5.0	11/22/06 19:33		☐
32	JHQ8VZ	G6K020146-1	6321133		1.0	11/22/06 19:37		☐
33	JHQ88	G6K020146-2	6321133	2A	1.0	11/22/06 19:40		☐
34	JHQ9A	G6K020146-3	6321133	2A	1.0	11/22/06 19:44		☐
35	JHQ9F	G6K020146-4	6321133	2A	1.0	11/22/06 19:48		☐
36	JHQ9H	G6K020146-5	6321133	2A	1.0	11/22/06 19:51		☐
37	JHRAM	G6K020151-1	6321133	2A	1.0	11/22/06 19:55		☐
38	JHRAX	G6K020151-2	6321133	2A	1.0	11/22/06 19:59		☐
39	JHRA2	G6K020151-3	6321133	2A	1.0	11/22/06 20:03		☐
40	CCV 5				1.0	11/22/06 20:06		☐
41	CCB 5				1.0	11/22/06 20:10		☐
42	CCV 6				1.0	11/22/06 20:14		☐
43	CCB 6				1.0	11/22/06 20:18		☐
44	JHRA4	G6K020151-4	6321133	2A	1.0	11/22/06 20:22		☐
45	JJACE	G6K090141-1	6326120	2A	1.0	11/22/06 20:25		☐
46	JJACEP5	G6K090141	6326120		5.0	11/22/06 20:29		☐
47	JJACEZ	G6K090141-1	6326120		1.0	11/22/06 20:33		☐
48	JJACG	G6K090141-2	6326120	2A	1.0	11/22/06 20:37		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: 061122B1 **Analyst: votawb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	JJACH	G6K090141-3	6326120	2A	1.0	11/22/06 20:40		☐
50	JJACJ	G6K090141-4	6326120	2A	1.0	11/22/06 20:44		☐
51	JJACK	G6K090141-5	6326120	2A	1.0	11/22/06 20:48		☐
52	JJMHA	G6K140165-1	6326120	2A	1.0	11/22/06 20:52		☐
53	JJMHE	G6K140165-2	6326120	2A	1.0	11/22/06 20:56		☐
54	CCV 7				1.0	11/22/06 20:59		☐
55	CCB 7				1.0	11/22/06 21:03		☐
56	CCV 8				1.0	11/22/06 21:07		☐
57	CCB 8				1.0	11/22/06 21:11		☐
58	JJMHF	G6K140165-3	6326120	2A	1.0	11/22/06 21:14		☐
59	LLSTD 10X				10.0	11/22/06 21:18		☐
60	LLSTD 5X				5.0	11/22/06 21:21		☐
61	ICSA				1.0	11/22/06 21:28		☐
62	ICSAB				1.0	11/22/06 21:32		☐
63	ICSAB				1.0	11/22/06 21:37		☐
64	Rinse				1.0	11/22/06 21:41		☐
65	CCV 9				1.0	11/22/06 21:45		☐
66	CCB 9				1.0	11/22/06 21:49		☐
69	CCV 10				1.0	11/22/06 22:13		☐
70	CCB 10				1.0	11/22/06 22:17		☐
71	JJ71HC	G6K220000	6326122	2A	1.0	11/22/06 22:20		☐
72	JJ71HL	G6K220000	6326122	2A	1.0	11/22/06 22:24		☐
73	Rinse				1.0	11/22/06 22:27		☐
74	JJ71HB	G6K220000	6326122	2A	1.0	11/22/06 22:31		☐
75	JJ547	G6K210170-1	6326122	2A	1.0	11/22/06 22:34		☐
76	JJ547P5	G6K210170	6326122		5.0	11/22/06 22:37		☐
77	JJ547X	G6K210170-1	6326122	2A	1.0	11/22/06 22:41		☐
78	JJ547Z	G6K210170-1	6326122		1.0	11/22/06 22:45		☐
79	JJ55E	G6K210170-2	6326122	2A	1.0	11/22/06 22:48		☐
80	JJ55F	G6K210170-3	6326122	2A	1.0	11/22/06 22:52		☐
81	CCV 11				1.0	11/22/06 22:55		☐
82	CCB 11				1.0	11/22/06 22:59		☐
83	CCV 12				1.0	11/22/06 23:02		☐
84	CCB 12				1.0	11/22/06 23:06		☐
85	JJ55G	G6K210170-4	6326122	2A	1.0	11/22/06 23:09		☐
86	JJ55H	G6K210170-5	6326122	2A	1.0	11/22/06 23:13		☐
87	JJ55J	G6K210170-6	6326122	2A	1.0	11/22/06 23:16		☐
88	JJ55K	G6K210170-7	6326122	2A	1.0	11/22/06 23:20		☐
89	JJ55L	G6K210170-8	6326122	2A	1.0	11/22/06 23:23		☐
90	JJ55M	G6K210170-9	6326122	2A	1.0	11/22/06 23:27		☐
91	JJ55P	G6K210170-10	6326122	2A	1.0	11/22/06 23:30		☐
92	JJ55Q	G6K210170-11	6326122	2A	1.0	11/22/06 23:34		☐
93	JJ55R	G6K210170-12	6326122	2A	1.0	11/22/06 23:37		☐
94	JJ558	G6K210173-1	6326122	2A	1.0	11/22/06 23:41		☐
95	CCV 13				1.0	11/22/06 23:44		☐
96	CCB 13				1.0	11/22/06 23:48		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: 06112281 **Analyst: votawb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
97	CCV 14				1.0	11/22/06 23:51		☐
98	CCB 14				1.0	11/22/06 23:55		☐
99	JJ559	G6K210173-2	6326122	2A	1.0	11/22/06 23:58		☐
100	JJ56A	G6K210173-3	6326122	2A	1.0	11/23/06 00:02		☐
101	JJ56C	G6K210173-4	6326122	2A	1.0	11/23/06 00:05		☐
102	JJ56D	G6K210173-5	6326122	2A	1.0	11/23/06 00:09		☐
103	JJ56E	G6K210173-6	6326122	2A	1.0	11/23/06 00:12		☐
104	JJ56F	G6K210173-7	6326122	2A	1.0	11/23/06 00:16		☐
105	JJ71QC	G6K220000	6326127	2A	1.0	11/23/06 00:19		☐
106	JJ71QL	G6K220000	6326127	2A	1.0	11/23/06 00:23		☐
107	Rinse				1.0	11/23/06 00:26		☐
108	JJ71QB	G6K220000	6326127	2A	1.0	11/23/06 00:30		☐
109	CCV 15				1.0	11/23/06 00:33		☐
110	CCB 15				1.0	11/23/06 00:37		☐
111	CCV 16				1.0	11/23/06 00:40		☐
112	CCB 16				1.0	11/23/06 00:44		☐
113	JJ560	G6K210178-1	6326127	2A	1.0	11/23/06 00:47		☐
114	JJ560P5	G6K210178	6326127		5.0	11/23/06 00:51		☐
115	JJ560X	G6K210178-1	6326127	2A	1.0	11/23/06 00:54		☐
116	JJ560Z	G6K210178-1	6326127		1.0	11/23/06 00:58		☐
117	JJ563	G6K210178-2	6326127	2A	1.0	11/23/06 01:01		☐
118	JJ564	G6K210178-3	6326127	2A	1.0	11/23/06 01:05		☐
119	JJ566	G6K210178-4	6326127	2A	1.0	11/23/06 01:08		☐
120	JJ567	G6K210178-5	6326127	2A	1.0	11/23/06 01:12		☐
121	JJ569	G6K210178-6	6326127	2A	1.0	11/23/06 01:15		☐
122	JJ57A	G6K210178-7	6326127	2A	1.0	11/23/06 01:19		☐
123	CCV 17				1.0	11/23/06 01:22		☐
124	CCB 17				1.0	11/23/06 01:26		☐
127	CCV 18				1.0	11/23/06 01:29		☐
128	CCB 18				1.0	11/23/06 01:33		☐
129	JJ57C	G6K210178-8	6326127	2A	1.0	11/23/06 01:36		☐
130	JJ57D	G6K210178-9	6326127	2A	1.0	11/23/06 01:40		☐
131	JJ57E	G6K210178-10	6326127	2A	1.0	11/23/06 01:43		☐
132	JJ57F	G6K210178-11	6326127	2A	1.0	11/23/06 01:47		☐
133	JJ57G	G6K210178-12	6326127	2A	1.0	11/23/06 01:50		☐
134	JJ57H	G6K210178-13	6326127	2A	1.0	11/23/06 01:54		☐
135	JJ56G	G6K210173-8	6326127	2A	1.0	11/23/06 01:57		☐
136	JJ56H	G6K210173-9	6326127	2A	1.0	11/23/06 02:01		☐
137	JJ56J	G6K210173-10	6326127	2A	1.0	11/23/06 02:04		☐
138	JJ56K	G6K210173-11	6326127	2A	1.0	11/23/06 02:08		☐
139	CCV 19				1.0	11/23/06 02:11		☐
140	CCB 19				1.0	11/23/06 02:15		☐
141	CCV 20				1.0	11/23/06 02:18		☐
142	CCB 20				1.0	11/23/06 02:22		☐
143	JJ56L	G6K210173-12	6326127	2A	1.0	11/23/06 02:25		☐
144	JJ56M	G6K210173-13	6326127	2A	1.0	11/23/06 02:29		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: 061122B1 **Analyst: votawb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
145	JJW8JC	G6K170000	6321081	2A	1.0	11/23/06 02:32		☐
146	JJW8JL	G6K170000	6321081	2A	1.0	11/23/06 02:36		☐
147	Rinse				1.0	11/23/06 02:39		☐
148	JJW8JB	G6K170000	6321081	2A	1.0	11/23/06 02:43		☐
149	JG77J	G6J250276-1	6321081	2A	1.0	11/23/06 02:46		☐
150	JG77JP5	G6J250276	6321081		5.0	11/23/06 02:50		☐
151	JG77JZ	G6J250276-1	6321081		1.0	11/23/06 02:53		☐
152	JG77L	G6J250276-2	6321081	2A	1.0	11/23/06 02:57		☐
153	CCV 21				1.0	11/23/06 03:00		☐
154	CCB 21				1.0	11/23/06 03:04		☐
155	CCV 22				1.0	11/23/06 03:07		☐
156	CCB 22				1.0	11/23/06 03:11		☐
157	JG77M	G6J250276-3	6321081	2A	1.0	11/23/06 03:15		☐
158	JG77Q	G6J250276-4	6321081	2A	1.0	11/23/06 03:18		☐
159	JG77T	G6J250276-5	6321081	2A	1.0	11/23/06 03:22		☐
160	JG77V	G6J250276-6	6321081	2A	1.0	11/23/06 03:25		☐
161	JG77X	G6J250276-7	6321081	2A	1.0	11/23/06 03:29		☐
162	JG772	G6J250276-8	6321081	2A	1.0	11/23/06 03:32		☐
163	JH244	G6K060161-1	6321081	2A	1.0	11/23/06 03:36		☐
164	JH249	G6K060161-2	6321081	2A	1.0	11/23/06 03:39		☐
165	JH25C	G6K060161-3	6321081	2A	1.0	11/23/06 03:42		☐
166	JH25D	G6K060161-4	6321081	2A	1.0	11/23/06 03:46		☐
167	CCV 23				1.0	11/23/06 03:49		☐
168	CCB 23				1.0	11/23/06 03:53		☐
171	CCV 24				1.0	11/23/06 03:56		☐
172	CCB 24				1.0	11/23/06 04:00		☐
173	JH25J	G6K060161-5	6321081	2A	1.0	11/23/06 04:04		☐
174	JH25K	G6K060161-6	6321081	2A	1.0	11/23/06 04:07		☐
175	JH25L	G6K060161-7	6321081	2A	1.0	11/23/06 04:10		☐
176	JH25N	G6K060161-8	6321081	2A	1.0	11/23/06 04:14		☐
177	JJKE8C	G6K130000	6317241	2A	1.0	11/23/06 04:17		☐
178	JJKE8L	G6K130000	6317241	2A	1.0	11/23/06 04:21		☐
179	Rinse				1.0	11/23/06 04:24		☐
180	JJKE8B	G6K130000	6317241	2A	1.0	11/23/06 04:28		☐
181	CCV 25				1.0	11/23/06 04:32		☐
182	CCB 25				1.0	11/23/06 04:35		☐
183	CCV 26				1.0	11/23/06 04:39		☐
184	CCB 26				1.0	11/23/06 04:42		☐
185	JGWWP	G6J200219-1	6317241	2A	1.0	11/23/06 04:46		☐
186	JGWWPP5	G6J200219	6317241		5.0	11/23/06 04:49		☐
187	JGWWPZ	G6J200219-1	6317241		1.0	11/23/06 04:53		☐
188	JGWWX	G6J200219-2	6317241	2A	1.0	11/23/06 04:56		☐
189	JGWW2	G6J200219-3	6317241	2A	1.0	11/23/06 05:00		☐
190	JGWXD	G6J200219-4	6317241	2A	1.0	11/23/06 05:03		☐
191	JGWXF	G6J200219-5	6317241	2A	1.0	11/23/06 05:07		☐
192	JGWXG	G6J200219-6	6317241	2A	1.0	11/23/06 05:10		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: 061122B1 Analyst: votawb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
193	JGWXL	G6J200219-7	6317241	2A	1.0	11/23/06 05:14		☐
194	JGWXN	G6J200219-8	6317241	2A	1.0	11/23/06 05:17		☐
195	CCV 27				1.0	11/23/06 05:21		☐
196	CCB 27				1.0	11/23/06 05:24		☐
197	CCV 28				1.0	11/23/06 05:28		☐
198	CCB 28				1.0	11/23/06 05:31		☐
199	JG3D8	G6J230134-1	6317241	2A	1.0	11/23/06 05:35		☐
200	JG3EA	G6J230134-2	6317241	2A	1.0	11/23/06 05:38		☐
201	JG3EC	G6J230134-3	6317241	2A	1.0	11/23/06 05:42		☐
202	JG3ED	G6J230134-4	6317241	2A	1.0	11/23/06 05:45		☐
203	JG3EE	G6J230134-5	6317241	2A	1.0	11/23/06 05:49		☐
204	JG3EF	G6J230134-6	6317241	2A	1.0	11/23/06 05:52		☐
205	JG3EH	G6J230134-7	6317241	2A	1.0	11/23/06 05:56		☐
206	JG3EJ	G6J230134-8	6317241	2A	1.0	11/23/06 05:59		☐
207	JJKH2C	G6K130000	6317263	2A	1.0	11/23/06 06:03		☐
208	JJKH2L	G6K130000	6317263	2A	1.0	11/23/06 06:06		☐
209	CCV 29				1.0	11/23/06 06:10		☐
210	CCB 29				1.0	11/23/06 06:13		☐
211	CCV 30				1.0	11/23/06 06:17		☐
212	CCB 30				1.0	11/23/06 06:20		☐
213	JJKH2B	G6K130000	6317263	2A	1.0	11/23/06 06:24		☐
214	JHA94	G6J260249-1	6317263	2A	1.0	11/23/06 06:27		☐
215	JHA94P5	G6J260249	6317263		5.0	11/23/06 06:31		☐
216	JHA94Z	G6J260249-1	6317263		1.0	11/23/06 06:34		☐
217	JHA95	G6J260249-2	6317263	2A	1.0	11/23/06 06:38		☐
218	JHA96	G6J260249-3	6317263	2A	1.0	11/23/06 06:41		☐
219	JHA97	G6J260249-4	6317263	2A	1.0	11/23/06 06:45		☐
220	JHA99	G6J260249-5	6317263	2A	1.0	11/23/06 06:48		☐
221	JHCAA	G6J260249-6	6317263	2A	1.0	11/23/06 06:52		☐
222	JHCAC	G6J260249-7	6317263	2A	1.0	11/23/06 06:55		☐
223	CCV 31				1.0	11/23/06 06:59		☐
224	CCB 31				1.0	11/23/06 07:02		☐
227	CCV 32				1.0	11/23/06 07:06		☐
228	CCB 32				1.0	11/23/06 07:09		☐
229	JHCAD	G6J260249-8	6317263	2A	1.0	11/23/06 07:13		☐
230	JHJKC	G6J300165-1	6317263	2A	1.0	11/23/06 07:16		☐
231	JHJKF	G6J300165-2	6317263	2A	1.0	11/23/06 07:19		☐
232	JHJKG	G6J300165-3	6317263	2A	1.0	11/23/06 07:23		☐
233	JHJKH	G6J300165-4	6317263	2A	1.0	11/23/06 07:26		☐
234	JHJKJ	G6J300165-5	6317263	2A	1.0	11/23/06 07:30		☐
235	JHJKK	G6J300165-6	6317263	2A	1.0	11/23/06 07:33		☐
236	JHJKL	G6J300165-7	6317263	2A	1.0	11/23/06 07:37		☐
237	JHJKN	G6J300165-8	6317263	2A	1.0	11/23/06 07:40		☐
238	CCV 33				1.0	11/23/06 07:44		☐
239	CCB 33				1.0	11/23/06 07:47		☐
240	CCV 34				1.0	11/23/06 07:51		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/27/06 13:44:47

File ID: **061122B1** **Analyst: votawb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
241	CCB 34				1.0	11/23/06 07:54		☐
242	JJL12C	G6K140000	6318093	2A	1.0	11/23/06 07:58		☐
243	JJL12L	G6K140000	6318093	2A	1.0	11/23/06 08:01		☐
244	Rinse				1.0	11/23/06 08:05		☐
245	JJL12B	G6K140000	6318093	2A	1.0	11/23/06 08:08		☐
246	JHGNW	G6J280108-5	6318093	2A	1.0	11/23/06 08:12		☐
247	JHGNWP5	G6J280108	6318093		5.0	11/23/06 08:15		☐
248	JHGNWZ	G6J280108-5	6318093		1.0	11/23/06 08:19		☐
249	JHGNX	G6J280108-6	6318093	2A	1.0	11/23/06 08:22		☐
250	JHGN0	G6J280108-7	6318093	2A	1.0	11/23/06 08:26		☐
251	JHGN1	G6J280108-8	6318093	2A	1.0	11/23/06 08:29		☐
252	CCV 35				1.0	11/23/06 08:33		☐
253	CCB 35				1.0	11/23/06 08:36		☐
254	CCV 36				1.0	11/23/06 08:40		☐
255	CCB 36				1.0	11/23/06 08:43		☐
256	JHPT4	G6K010273-1	6318093	2A	1.0	11/23/06 08:47		☐
257	JHPT5	G6K010273-2	6318093	2A	1.0	11/23/06 08:50		☐
258	JHPT7	G6K010273-3	6318093	2A	1.0	11/23/06 08:54		☐
259	JHPT8	G6K010273-4	6318093	2A	1.0	11/23/06 08:57		☐
260	JHPT9	G6K010273-5	6318093	2A	1.0	11/23/06 09:01		☐
261	JHPVA	G6K010273-6	6318093	2A	1.0	11/23/06 09:04		☐
262	JHPVC	G6K010273-7	6318093	2A	1.0	11/23/06 09:08		☐
263	JHPVD	G6K010273-8	6318093	2A	1.0	11/23/06 09:11		☐
264	JJERQ	G6K100129-1	6318093	2A	1.0	11/23/06 09:15		☐
265	JJERR	G6K100129-2	6318093	2A	1.0	11/23/06 09:18		☐
266	CCV 37				1.0	11/23/06 09:22		☐
267	CCB 37				1.0	11/23/06 09:25		☐
268	CCV 38				1.0	11/23/06 09:29		☐
269	CCB 38				1.0	11/23/06 09:32		☐
270	JJERT	G6K100129-3	6318093	2A	1.0	11/23/06 09:36		☐
271	JJERV	G6K100129-4	6318093	2A	1.0	11/23/06 09:39		☐
272	JJERW	G6K100129-5	6318093	2A	1.0	11/23/06 09:43		☐
273	JJERX	G6K100129-6	6318093	2A	1.0	11/23/06 09:46		☐
274	JJER1	G6K100129-7	6318093	2A	1.0	11/23/06 09:50		☐
275	JJER2	G6K100129-8	6318093	2A	1.0	11/23/06 09:53		☐
276	CCV 39				1.0	11/23/06 09:57		☐
277	CCB 39				1.0	11/23/06 10:00		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: 061122B1R **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	Rinse	11/22/06 17:40	94.4	96.5	93.4	102.7	☐
2	Blank	11/22/06 17:44	100.0	100.0	100.0	100.0	☑
3	Standard1	11/22/06 17:48	102.7	99.8	104.1	97.2	☑
4	ICV	11/22/06 17:52	105.3	102.2	112.2	95.1	☑
5	ICB	11/22/06 17:56	104.7	101.4	113.8	94.1	☑
6	LLSTD 10X	11/22/06 18:00	111.4	114.7	124.2	102.5	☑
7	LLSTD 5X	11/22/06 18:03	110.8	116.6	123.6	103.1	☑
8	ICSA	11/22/06 18:09	85.2	78.6	81.7	80.4	☑
9	ICSAB	11/22/06 18:13	87.1	81.2	78.6	81.0	☑
10	Rinse	11/22/06 18:17	126.7	116.5	111.0	101.0	☑
11	CCV 1	11/22/06 18:21	129.0	112.0	122.1	100.8	☑
12	CCB 1	11/22/06 18:24	123.7	113.3	128.9	102.4	☑
15	CCV 2	11/22/06 18:28	101.0	98.4	102.7	101.7	☑
16	CCB 2	11/22/06 18:32	99.0	97.8	103.2	101.7	☑
17	LLSTD 5X	11/22/06 18:37	104.4	115.3	113.5	110.0	☑
18	JJXAJC	11/22/06 18:41	93.4	97.4	103.3	103.6	☑
19	JJXAJL	11/22/06 18:45	94.3	99.2	102.6	103.5	☑
20	JJ71FC	11/22/06 18:49	92.2	97.3	99.4	101.4	☑
21	JJ71FL	11/22/06 18:53	94.1	99.5	101.9	103.6	☑
22	Rinse	11/22/06 18:56	95.0	98.2	99.7	103.4	☑
23	JJXAJB	11/22/06 19:00	95.1	101.4	99.6	105.0	☑
24	MB CONTRO	11/22/06 19:04	101.0	111.6	109.0	113.0	☑
25	JJ71FB	11/22/06 19:07	96.3	101.7	98.0	104.7	☑
26	MB CONTRO	11/22/06 19:11	102.1	111.1	106.0	112.7	☑
27	CCV 3	11/22/06 19:14	97.0	100.8	96.6	103.5	☑
28	CCB 3	11/22/06 19:18	96.7	100.0	99.4	103.4	☑
29	CCV 4	11/22/06 19:22	100.5	100.6	96.0	103.4	☑
30	CCB 4	11/22/06 19:25	98.4	101.1	101.1	104.4	☑
31	JHQ8V	11/22/06 19:29	96.8	103.6	99.3	104.9	☑
32	JHQ8VP5	11/22/06 19:33	98.0	102.7	97.5	104.8	☐
33	JHQ8VZ	11/22/06 19:37	93.9	100.8	97.7	103.6	☑
34	JHQ88	11/22/06 19:40	93.9	103.0	97.3	104.7	☑
35	JHQ9A	11/22/06 19:44	94.8	102.6	95.9	105.0	☑
36	JHQ9F	11/22/06 19:48	94.1	101.7	95.7	104.2	☑
37	JHQ9H	11/22/06 19:51	92.8	101.9	96.1	104.2	☑
38	JHRAM	11/22/06 19:55	93.8	101.7	94.2	104.9	☑
39	JHRAX	11/22/06 19:59	92.7	100.5	92.8	103.3	☑
40	JHRA2	11/22/06 20:03	93.3	101.7	92.7	104.3	☑
41	CCV 5	11/22/06 20:06	95.2	100.3	94.0	103.6	☑
42	CCB 5	11/22/06 20:10	96.1	102.3	94.7	103.9	☑
43	CCV 6	11/22/06 20:14	97.5	101.9	93.1	104.2	☑
44	CCB 6	11/22/06 20:18	96.5	102.0	90.5	102.5	☑
45	JHRA4	11/22/06 20:22	96.1	104.8	93.8	105.4	☑
46	JJACE	11/22/06 20:25	96.9	103.1	91.8	104.6	☑
47	JJACEP5	11/22/06 20:29	97.4	103.0	91.7	103.6	☐
48	JJACEZ	11/22/06 20:33	95.9	103.9	87.2	103.9	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: 061122B1R **Analyst:** jonesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	JJACG	11/22/06 20:37	94.5	100.5	89.4	103.6	☑
50	JJACH	11/22/06 20:40	93.5	101.2	88.5	103.6	☑
51	JJACJ	11/22/06 20:44	93.8	100.4	89.1	103.4	☑
52	JJACK	11/22/06 20:48	93.5	101.8	90.1	104.6	☑
53	JJMHA	11/22/06 20:52	93.0	100.9	87.3	103.7	☑
54	JJMHE	11/22/06 20:56	94.0	103.1	87.7	103.2	☑
55	CCV 7	11/22/06 20:59	94.9	100.5	88.9	102.7	☑
56	CCB 7	11/22/06 21:03	96.3	103.1	89.6	103.9	☑
57	CCV 8	11/22/06 21:07	96.3	102.2	87.5	103.1	☑
58	CCB 8	11/22/06 21:11	96.3	103.2	87.4	103.4	☑
59	JJMHF	11/22/06 21:14	93.9	103.3	83.7	104.1	☑
60	LLSTD 10X	11/22/06 21:18	103.5	117.5	97.3	113.0	☑
61	LLSTD 5X	11/22/06 21:21	102.6	120.8	95.1	111.1	☑
62	ICSA	11/22/06 21:28	73.4	77.4	63.5	86.9	☑
63	ICSAB	11/22/06 21:32	92.1	101.3	70.2	103.0	☑
64	ICSAB	11/22/06 21:37	72.1	75.7	62.8	84.7	☑
65	Rinse	11/22/06 21:41	94.8	102.7	71.6	104.4	☑
66	CCV 9	11/22/06 21:45	96.5	101.3	77.2	102.9	☑
67	CCB 9	11/22/06 21:49	100.1	106.2	78.7	104.3	☑
70	CCV 10	11/22/06 22:13	100.2	98.7	109.0	100.1	☑
71	CCB 10	11/22/06 22:17	102.3	102.1	110.2	100.6	☑
72	JJ71HC	11/22/06 22:20	97.3	99.1	105.1	99.6	☑
73	JJ71HL	11/22/06 22:24	94.6	97.3	106.2	99.1	☑
74	Rinse	11/22/06 22:27	97.3	98.2	110.2	98.7	☑
75	JJ71HB	11/22/06 22:31	96.5	99.3	106.1	100.6	☑
76	JJ547	11/22/06 22:34	97.2	97.6	105.2	98.8	☑
77	JJ547P5	11/22/06 22:37	100.5	99.4	110.7	99.2	☐
78	JJ547X	11/22/06 22:41	98.4	98.4	105.4	99.4	☑
79	JJ547Z	11/22/06 22:45	95.1	94.7	103.9	97.0	☑
80	JJ55E	11/22/06 22:48	95.2	96.9	105.0	97.3	☑
81	JJ55F	11/22/06 22:52	97.0	97.8	107.9	98.4	☑
82	CCV 11	11/22/06 22:55	96.4	95.2	111.2	95.3	☑
83	CCB 11	11/22/06 22:59	101.0	99.2	111.2	98.6	☑
84	CCV 12	11/22/06 23:02	99.5	96.9	112.3	96.7	☑
85	CCB 12	11/22/06 23:06	100.9	99.7	112.6	98.6	☑
86	JJ55G	11/22/06 23:09	99.7	99.5	106.8	99.7	☑
87	JJ55H	11/22/06 23:13	99.1	99.8	105.6	98.9	☑
88	JJ55J	11/22/06 23:16	99.9	100.2	109.6	99.8	☑
89	JJ55K	11/22/06 23:20	99.9	99.7	108.8	98.6	☑
90	JJ55L	11/22/06 23:23	100.1	98.9	109.4	98.7	☑
91	JJ55M	11/22/06 23:27	98.6	98.8	106.5	98.9	☑
92	JJ55P	11/22/06 23:30	99.6	100.7	107.6	98.2	☑
93	JJ55Q	11/22/06 23:34	99.8	99.9	109.2	99.0	☑
94	JJ55R	11/22/06 23:37	99.9	99.9	109.3	99.5	☑
95	JJ558	11/22/06 23:41	97.9	99.0	109.1	99.2	☑
96	CCV 13	11/22/06 23:44	98.4	94.4	115.0	94.0	☑

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: **061122B1R** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
97	CCB 13	11/22/06 23:48	101.1	98.4	113.7	96.7	☑
98	CCV 14	11/22/06 23:51	100.2	96.3	114.7	95.5	☑
99	CCB 14	11/22/06 23:55	101.4	99.3	115.9	97.5	☑
100	JJ559	11/22/06 23:58	97.9	99.9	108.5	97.3	☑
101	JJ56A	11/23/06 00:02	99.3	98.6	106.8	97.8	☑
102	JJ56C	11/23/06 00:05	98.5	98.8	109.2	98.4	☑
103	JJ56D	11/23/06 00:09	98.8	99.3	110.5	97.5	☑
104	JJ56E	11/23/06 00:12	98.6	99.9	112.3	98.2	☑
105	JJ56F	11/23/06 00:16	97.1	98.5	109.2	95.7	☑
106	JJ71QC	11/23/06 00:19	93.3	96.1	109.4	95.4	☑
107	JJ71QL	11/23/06 00:23	92.8	95.4	112.8	95.0	☑
108	Rinse	11/23/06 00:26	95.7	96.5	115.4	94.6	☑
109	JJ71QB	11/23/06 00:30	93.3	97.0	111.0	96.2	☑
110	CCV 15	11/23/06 00:33	98.3	96.6	118.0	93.5	☑
111	CCB 15	11/23/06 00:37	98.8	98.2	116.3	94.3	☑
112	CCV 16	11/23/06 00:40	99.1	96.6	115.7	93.9	☑
113	CCB 16	11/23/06 00:44	100.2	98.6	116.3	95.1	☑
114	JJ560	11/23/06 00:47	97.7	99.0	108.9	95.8	☑
115	JJ560P5	11/23/06 00:51	99.4	98.3	114.5	95.5	☐
116	JJ560X	11/23/06 00:54	97.2	97.8	109.4	95.5	☑
117	JJ560Z	11/23/06 00:58	92.3	95.6	108.4	92.5	☑
118	JJ563	11/23/06 01:01	93.3	95.4	108.3	93.1	☑
119	JJ564	11/23/06 01:05	93.4	94.0	107.8	92.1	☑
120	JJ566	11/23/06 01:08	93.9	96.0	107.4	92.3	☑
121	JJ567	11/23/06 01:12	95.4	95.4	110.3	94.1	☑
122	JJ569	11/23/06 01:15	94.9	96.2	109.7	93.8	☑
123	JJ57A	11/23/06 01:19	96.3	97.9	111.2	93.5	☑
124	CCV 17	11/23/06 01:22	93.7	94.0	117.3	89.6	☑
125	CCB 17	11/23/06 01:26	99.4	97.0	119.0	92.3	☑
128	CCV 18	11/23/06 01:29	99.5	98.4	99.3	99.2	☑
129	CCB 18	11/23/06 01:33	100.7	100.7	98.1	99.0	☑
130	JJ57C	11/23/06 01:36	97.6	101.3	93.0	100.7	☑
131	JJ57D	11/23/06 01:40	96.8	99.0	92.4	100.9	☑
132	JJ57E	11/23/06 01:43	97.2	100.1	94.6	100.7	☑
133	JJ57F	11/23/06 01:47	97.6	100.8	96.3	102.6	☑
134	JJ57G	11/23/06 01:50	97.6	99.8	91.7	100.1	☑
135	JJ57H	11/23/06 01:54	95.7	100.7	94.3	100.2	☑
136	JJ56G	11/23/06 01:57	97.0	99.3	92.1	100.2	☑
137	JJ56H	11/23/06 02:01	96.8	99.1	94.5	100.6	☑
138	JJ56J	11/23/06 02:04	95.5	98.2	92.7	98.5	☑
139	JJ56K	11/23/06 02:08	96.4	99.0	93.0	98.2	☑
140	CCV 19	11/23/06 02:11	98.1	95.7	98.3	96.0	☑
141	CCB 19	11/23/06 02:15	101.6	99.6	100.4	97.9	☑
142	CCV 20	11/23/06 02:18	99.5	97.3	98.8	95.9	☑
143	CCB 20	11/23/06 02:22	100.5	98.8	98.5	97.6	☑
144	JJ56L	11/23/06 02:25	97.5	99.8	96.7	100.8	☑

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: 061122B1R **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
145	JJ56M	11/23/06 02:29	96.7	99.8	92.7	99.3	☑
146	JJW8JC	11/23/06 02:32	92.7	96.4	96.0	96.8	☑
147	JJW8JL	11/23/06 02:36	91.1	95.7	96.8	97.0	☑
148	Rinse	11/23/06 02:39	97.0	98.1	100.8	97.0	☑
149	JJW8JB	11/23/06 02:43	92.9	97.5	96.1	98.6	☑
150	JG77J	11/23/06 02:46	92.5	98.3	96.4	98.2	☑
151	JG77JP5	11/23/06 02:50	96.6	99.7	98.2	97.6	☐
152	JG77JZ	11/23/06 02:53	90.4	95.6	93.6	95.8	☑
153	JG77L	11/23/06 02:57	90.5	97.3	93.4	97.8	☑
154	CCV 21	11/23/06 03:00	96.4	96.8	101.0	94.6	☑
155	CCB 21	11/23/06 03:04	99.4	99.2	101.5	97.1	☑
156	CCV 22	11/23/06 03:07	97.7	95.4	98.6	94.4	☑
157	CCB 22	11/23/06 03:11	99.8	97.9	101.1	95.7	☑
158	JG77M	11/23/06 03:15	95.0	99.2	94.6	98.8	☑
159	JG77Q	11/23/06 03:18	92.3	96.1	93.4	96.9	☑
160	JG77T	11/23/06 03:22	93.2	97.2	95.6	99.7	☑
161	JG77V	11/23/06 03:25	92.1	97.9	93.3	97.7	☑
162	JG77X	11/23/06 03:29	91.4	96.1	91.1	96.1	☑
163	JG772	11/23/06 03:32	93.2	97.7	93.9	97.9	☑
164	JH244	11/23/06 03:36	92.8	99.0	93.8	97.0	☑
165	JH249	11/23/06 03:39	92.3	97.2	93.0	97.7	☑
166	JH25C	11/23/06 03:42	92.5	96.7	93.8	97.0	☑
167	JH25D	11/23/06 03:46	92.7	97.4	94.7	97.9	☑
168	CCV 23	11/23/06 03:49	96.1	94.6	99.9	92.5	☑
169	CCB 23	11/23/06 03:53	100.4	98.4	102.1	96.2	☑
172	CCV 24	11/23/06 03:56	98.3	97.5	98.8	98.1	☑
173	CCB 24	11/23/06 04:00	100.3	100.4	99.1	98.8	☑
174	JH25J	11/23/06 04:04	96.3	99.7	94.5	101.8	☑
175	JH25K	11/23/06 04:07	94.5	100.7	94.5	101.7	☑
176	JH25L	11/23/06 04:10	94.4	100.2	94.3	101.9	☑
177	JH25N	11/23/06 04:14	94.6	100.9	92.9	102.8	☑
178	JJKE8C	11/23/06 04:17	91.9	98.9	96.3	101.0	☑
179	JJKE8L	11/23/06 04:21	90.4	97.2	95.0	97.7	☑
180	Rinse	11/23/06 04:24	96.2	98.5	100.3	98.1	☑
181	JJKE8B	11/23/06 04:28	91.2	98.1	94.2	100.1	☑
182	CCV 25	11/23/06 04:32	97.1	97.1	100.5	96.7	☑
183	CCB 25	11/23/06 04:35	99.3	100.2	100.6	98.1	☑
184	CCV 26	11/23/06 04:39	98.1	98.0	101.7	98.4	☑
185	CCB 26	11/23/06 04:42	99.5	99.0	99.8	98.7	☑
186	JGWWP	11/23/06 04:46	96.1	101.9	95.1	101.6	☑
187	JGWWPP5	11/23/06 04:49	97.3	98.6	94.6	97.6	☐
188	JGWWPZ	11/23/06 04:53	92.8	99.6	93.2	101.0	☑
189	JGWWX	11/23/06 04:56	91.4	98.0	92.5	99.2	☑
190	JGWW2	11/23/06 05:00	91.7	98.6	93.5	100.1	☑
191	JGWXD	11/23/06 05:03	92.4	98.8	93.8	101.3	☑
192	JGWXF	11/23/06 05:07	92.9	99.9	93.6	100.6	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: 061122B1R **Analyst: jonesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
193	JGWXG	11/23/06 05:10	92.0	98.4	94.0	101.5	☑
194	JGWXL	11/23/06 05:14	93.2	100.2	93.2	102.8	☑
195	JGWXN	11/23/06 05:17	92.6	99.1	91.7	100.6	☑
196	CCV 27	11/23/06 05:21	97.4	97.0	102.6	97.7	☑
197	CCB 27	11/23/06 05:24	99.5	101.1	100.8	99.1	☑
198	CCV 28	11/23/06 05:28	99.2	98.5	101.0	98.6	☑
199	CCB 28	11/23/06 05:31	102.0	101.0	101.7	99.7	☑
200	JG3D8	11/23/06 05:35	97.7	102.1	97.6	102.4	☑
201	JG3EA	11/23/06 05:38	94.9	101.2	95.1	101.7	☑
202	JG3EC	11/23/06 05:42	95.1	101.6	95.1	103.1	☑
203	JG3ED	11/23/06 05:45	94.2	100.2	92.6	101.8	☑
204	JG3EE	11/23/06 05:49	94.8	100.8	94.1	100.6	☑
205	JG3EF	11/23/06 05:52	93.6	99.1	93.1	101.6	☑
206	JG3EH	11/23/06 05:56	94.6	101.2	94.4	101.9	☑
207	JG3EJ	11/23/06 05:59	94.9	100.1	93.9	102.6	☑
208	JJKH2C	11/23/06 06:03	91.5	98.7	93.6	100.1	☑
209	JJKH2L	11/23/06 06:06	91.8	99.5	97.9	100.3	☑
210	CCV 29	11/23/06 06:10	97.8	96.8	103.2	98.2	☑
211	CCB 29	11/23/06 06:13	101.5	102.2	104.7	101.1	☑
212	CCV 30	11/23/06 06:17	98.8	98.1	102.1	98.2	☑
213	CCB 30	11/23/06 06:20	101.3	102.6	103.9	99.8	☑
214	JJKH2B	11/23/06 06:24	97.0	101.5	99.2	103.2	☑
215	JHA94	11/23/06 06:27	97.1	102.7	97.0	104.1	☑
216	JHA94P5	11/23/06 06:31	100.9	103.4	101.3	102.4	☐
217	JHA94Z	11/23/06 06:34	94.6	99.5	93.0	101.1	☑
218	JHA95	11/23/06 06:38	93.8	100.5	93.4	102.2	☑
219	JHA96	11/23/06 06:41	93.5	99.9	93.0	102.3	☑
220	JHA97	11/23/06 06:45	94.6	101.4	91.9	102.9	☑
221	JHA99	11/23/06 06:48	94.9	101.0	93.6	103.9	☑
222	JHCAA	11/23/06 06:52	95.4	101.2	94.5	101.8	☑
223	JHCAC	11/23/06 06:55	95.2	100.9	94.2	103.5	☑
224	CCV 31	11/23/06 06:59	100.4	99.9	104.9	101.5	☑
225	CCB 31	11/23/06 07:02	102.8	103.1	104.2	102.4	☑
228	CCV 32	11/23/06 07:06	99.4	96.7	99.0	99.3	☑
229	CCB 32	11/23/06 07:09	100.8	99.2	97.9	99.9	☑
230	JHCAD	11/23/06 07:13	97.0	101.6	93.9	102.3	☑
231	JHJKC	11/23/06 07:16	96.7	99.6	91.4	103.6	☑
232	JHJKF	11/23/06 07:19	96.3	100.3	92.4	103.0	☑
233	JHJKG	11/23/06 07:23	95.7	99.9	91.6	103.1	☑
234	JHJKH	11/23/06 07:26	95.3	99.9	89.0	101.9	☑
235	JHJKJ	11/23/06 07:30	95.0	100.0	89.9	101.8	☑
236	JHJKK	11/23/06 07:33	94.5	99.2	90.3	101.2	☑
237	JHJKL	11/23/06 07:37	94.1	100.1	90.6	101.7	☑
238	JHJKN	11/23/06 07:40	95.1	99.2	90.7	103.0	☑
239	CCV 33	11/23/06 07:44	99.7	97.8	101.9	100.1	☑
240	CCB 33	11/23/06 07:47	102.0	101.8	100.1	100.5	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 12:29:24

File ID: 061122B1R **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
241	CCV 34	11/23/06 07:51	101.1	99.5	100.4	100.0	☑
242	CCB 34	11/23/06 07:54	103.8	102.5	103.1	102.3	☑
243	JJL12C	11/23/06 07:58	96.0	101.1	95.9	102.7	☑
244	JJL12L	11/23/06 08:01	94.2	99.3	95.2	101.2	☑
245	Rinse	11/23/06 08:05	99.5	100.3	100.5	100.5	☑
246	JJL12B	11/23/06 08:08	94.5	99.4	93.8	103.2	☑
247	JHGNW	11/23/06 08:12	93.2	100.9	92.8	103.2	☑
248	JHGNWP5	11/23/06 08:15	98.9	102.2	98.2	101.1	☐
249	JHGNWZ	11/23/06 08:19	91.5	97.8	90.1	100.7	☑
250	JHGNX	11/23/06 08:22	92.6	98.2	90.4	101.9	☑
251	JHGN0	11/23/06 08:26	92.6	98.3	91.2	102.4	☑
252	JHGN1	11/23/06 08:29	92.9	99.7	91.9	102.9	☑
253	CCV 35	11/23/06 08:33	99.7	98.8	100.4	100.7	☑
254	CCB 35	11/23/06 08:36	101.9	101.2	100.6	101.9	☑
255	CCV 36	11/23/06 08:40	101.2	98.9	101.7	100.3	☑
256	CCB 36	11/23/06 08:43	104.0	103.6	103.9	103.5	☑
257	JHPT4	11/23/06 08:47	98.2	101.8	95.9	105.7	☑
258	JHPT5	11/23/06 08:50	96.4	101.7	94.0	104.0	☑
259	JHPT7	11/23/06 08:54	96.7	102.3	93.7	106.2	☑
260	JHPT8	11/23/06 08:57	97.1	101.5	93.4	105.1	☑
261	JHPT9	11/23/06 09:01	97.1	101.7	91.9	106.0	☑
262	JHPVA	11/23/06 09:04	96.6	102.5	93.4	106.1	☑
263	JHPVC	11/23/06 09:08	94.8	100.2	93.8	105.7	☑
264	JHPVD	11/23/06 09:11	96.9	102.6	94.0	105.3	☑
265	JJERQ	11/23/06 09:15	96.9	101.7	92.6	105.6	☑
266	JJERR	11/23/06 09:18	97.0	102.8	92.0	106.2	☑
267	CCV 37	11/23/06 09:22	103.6	101.2	103.6	103.1	☑
268	CCB 37	11/23/06 09:25	103.6	103.8	101.0	103.8	☑
269	CCV 38	11/23/06 09:29	102.8	101.8	100.9	102.7	☑
270	CCB 38	11/23/06 09:32	105.8	105.7	102.4	104.4	☑
271	JJERT	11/23/06 09:36	100.3	104.9	95.7	107.3	☑
272	JJERV	11/23/06 09:39	99.1	103.7	96.7	107.4	☑
273	JJERW	11/23/06 09:43	97.7	103.8	93.1	106.8	☑
274	JJERX	11/23/06 09:46	97.9	102.6	93.7	107.4	☑
275	JJER1	11/23/06 09:50	96.8	102.7	92.0	104.9	☑
276	JJER2	11/23/06 09:53	98.4	103.5	94.7	107.9	☑
277	CCV 39	11/23/06 09:57	103.8	102.0	102.9	104.4	☑
278	CCB 39	11/23/06 10:00	106.3	104.3	103.2	106.1	☑

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

File Name: 6321133.mth
File Path: C:\elandata\Method\6321133.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
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
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
Ge-1	71.922	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
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
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
W	181.948	Peak Hopping	1	5.0 ms	250 ms

Signal Processing

Detector Mode: Dual
Measurement Units: Counts
AutoLens: On

Report Date/Time: Thursday, November 23, 2006 12:58:57

Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
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
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
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
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
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			
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L				
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			
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			
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			
W	181.948	Linear Thru Zero	ug/L	ug/L				

Report Date/Time: Thursday, November 23, 2006 12:58:57

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: 2830-25D

Internal standard: 2830-24B

Blank, CCBs: 2531-34G

Standard 1, CCVs: 2830-24D

ICV: 2830-18D

ICSA: 2830-22B

ICSAB: 2830-25A

File Number: 061122B1

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Wednesday, November 22, 2006 12:12:37

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1576	0.711	2032	
Be	9.012	9.079	2067	0.722	2018	
Co	58.933	58.929	14295	0.719	1890	
In	114.904	114.879	27956	0.719	1852	
Ce	139.905	139.928	34030	0.717	1896	
Tl	204.975	204.979	49740	0.709	2114	
Pb	207.977	207.978	50476	0.706	2133	
U	238.050	238.025	57679	0.709	2293	

Report Date/Time: Wednesday, November 22, 2006 16:02:43

Elan 6000 Instrument Optomization Report

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

Sample Information

Sample Date/Time: Wednesday, November 22, 2006 12:12:37
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.8
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0

AutoLens Calibration

Date:	12:18:06 Wed 22-Nov-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	061122A1\
Lens Voltage Start:	3.50 V
Lens Voltage End:	7.50 V
Lens Voltage Step:	0.25 V
Slope:	0.0141
Intercept:	3.9764

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	4.0 V	5758 cps	17
Co	58.933	5.0 V	263510 cps	17
In	114.904	5.5 V	479594 cps	17

Dual Detector Calibration

Date:	17:37:42 Tue 21-Nov-06
Sample Filename:	DUAL BJONES.786
Dataset Pathname:	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	6.015	6125	2.04e+009 cps
Li	7.016	5687	2.20e+009 cps
Be	9.012	5272	2.37e+009 cps
B	11.009	5560	2.25e+009 cps
Na	22.990	5499	2.28e+009 cps

Report Date/Time: Wednesday, November 22, 2006 16:02:51

Mg	23.985	5177	2.42e+009 cps
Mg	24.986	4973	2.52e+009 cps
Al	26.982	4906	2.55e+009 cps
P	30.994	4449	2.81e+009 cps
K	38.964	4364	2.87e+009 cps
Ca	42.959	4370	2.86e+009 cps
Ca	43.956	4314	2.90e+009 cps
Sc	44.956	4318	2.90e+009 cps
V	50.944	4227	2.96e+009 cps
Cr	51.941	4097	3.06e+009 cps
Fe	53.940	4103	3.05e+009 cps
Mn	54.938	4024	3.11e+009 cps
Fe	56.935	3877	3.23e+009 cps
Co	58.933	3910	3.20e+009 cps
Ni	59.933	3813	3.28e+009 cps
Cu	62.930	3734	3.35e+009 cps
Cu	64.928	3754	3.33e+009 cps
Zn	67.925	3801	3.29e+009 cps
Ge	71.922	3767	3.32e+009 cps
As	74.922	3720	3.37e+009 cps
Se	77.917	3863	3.24e+009 cps
Br	78.918		cps
Se	81.917	3724	3.36e+009 cps
Sr	87.906	3727	3.36e+009 cps
Mo	96.906	3759	3.33e+009 cps
Ag	106.905	3394	3.69e+009 cps
Ag	108.905	3383	3.70e+009 cps
Cd	110.904	3548	3.53e+009 cps
Cd	113.904	3536	3.54e+009 cps
In	114.904	3544	3.53e+009 cps
Sn	117.902	3586	3.49e+009 cps
Sb	120.904	3525	3.55e+009 cps
Ba	134.906	3496	3.58e+009 cps
Tm	168.934	3369	3.72e+009 cps
Tl	204.975	3227	3.88e+009 cps
Pb	207.977	3243	3.86e+009 cps
Bi	208.980		cps
U	238.050	3223	3.88e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Wednesday, November 22, 2006 12:20:44
Sample Description:
Sample File: C:\elandata\Sample\6321025R.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\061122A1\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	79357.460	1451.236	1.829
	Rh	103	350176.000	2873.352	0.821
	Pb	208	189671.210	2406.194	1.269
⌈>	Ba	138	368814.042	3678.345	0.997
⌊	Ba++	69	0.026	0.000	1.811
⌈>	Ce	140	438918.179	935.643	0.213
⌊	CeO	156	0.030	0.001	2.566
	Bkgd	220	5.429	2.119	39.033
	Li	7	15862.920	342.217	2.157
	Be	9	5418.318	160.734	2.966
	Co	59	198230.959	1555.756	0.785
	In	115	454988.931	3241.283	0.712
	Tl	205	275402.871	3334.091	1.211

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:40:43

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.001

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
>	6	Li-1			618560.827	ug/L	247022.469
	9	Be	0.002646	231.364	2.333	ug/L	0.667
	27	Al	-12.326167	9.295	45495.896	ug/L	28302.056
	52	Cr	-0.290596	14.718	19031.019	ug/L	5011.768
	55	Mn	-0.175855	2.652	1536.468	ug/L	1046.729
	59	Co	0.001503	20.879	90.334	ug/L	14.667
	60	Ni	-0.067915	5.809	98.750	ug/L	76.717
	65	Cu	-0.036933	17.647	263.201	ug/L	90.074
	68	Zn	-1.606557	4.656	2733.761	ug/L	1045.396
	75	As	-5.616752	6.215	14491.060	ug/L	6981.819
>	72	Ge-1			1545066.909	ug/L	345349.437
	111	Cd	-0.003943	49.826	85.184	ug/L	24.164
	121	Sb	0.003975	7.093	149.668	ug/L	28.333
	135	Ba	-0.026783	25.140	291.338	ug/L	92.667
>	115	In-1			1687589.080	ug/L	422066.967
	208	Pb	-0.022182	3.071	744.679	ug/L	401.004
>	169	Tm-1			1332445.813	ug/L	336428.803
	50	Cr	0.297978	42.517	-267.159	ug/L	-77.107
	53	Cr	-20.211406	7.193	28288.194	ug/L	8805.395
	61	Ni	11.781584	22.162	2541.703	ug/L	412.694
	63	Cu	-0.042842	3.076	173.005	ug/L	66.001
	67	Zn	-15.095539	5.129	1660.108	ug/L	732.419
	66	Zn	-1.061626	2.545	897.796	ug/L	342.353
>	72	Ge			1545066.909	ug/L	345349.437
	108	Cd	-0.096402	23.306	17.027	ug/L	9.137
	114	Cd	-0.016264	24.190	216.867	ug/L	81.468
>	115	In			1687589.080	ug/L	422066.967
	208	207.977	-0.022151	3.509	380.675	ug/L	205.669
	207	Pb	-0.023558	6.898	155.335	ug/L	86.667
	206	Pb	-0.021190	6.242	208.669	ug/L	108.667
>	169	Tm			1332445.813	ug/L	336428.803
	106	Pd	0.197801	85.167	34.667	ug/L	22.333
	83	Kr	3670.056386	20.649	390.675	ug/L	146.001
	182	W			4.000	ug/L	0.333

Report Date/Time: Wednesday, November 22, 2006 17:42:18

Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	250.407
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	447.392
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	399.839
	Pb	208	
>	Tm-1	169	396.056
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	447.392
	Cd	108	
	Cd	114	
>	In	115	399.839
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	396.056
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:44:50

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Blank.002

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
>	6	Li-1			662549.582	ug/L	
	9	Be			2.667	ug/L	
	27	Al			109698.073	ug/L	
	52	Cr			18225.965	ug/L	
	55	Mn			3420.369	ug/L	
	59	Co			73.334	ug/L	
	60	Ni			187.632	ug/L	
	65	Cu			275.978	ug/L	
	68	Zn			2065.244	ug/L	
	75	As			14612.198	ug/L	
>	72	Ge-1			1636059.066	ug/L	
	111	Cd			39.786	ug/L	
	121	Sb			172.002	ug/L	
	135	Ba			324.339	ug/L	
>	115	In-1			1748778.775	ug/L	
	208	Pb			938.686	ug/L	
>	169	Tm-1			1297351.469	ug/L	
	50	Cr			-253.029	ug/L	
	53	Cr			27338.540	ug/L	
	61	Ni			2459.969	ug/L	
	63	Cu			204.340	ug/L	
	67	Zn			1457.673	ug/L	
	66	Zn			570.719	ug/L	
>	72	Ge			1636059.066	ug/L	
	108	Cd			34.781	ug/L	
	114	Cd			137.294	ug/L	
>	115	In			1748778.775	ug/L	
	208	207.977			475.346	ug/L	
	207	Pb			203.002	ug/L	
	206	Pb			260.337	ug/L	
>	169	Tm			1297351.469	ug/L	
	106	Pd			49.667	ug/L	
	83	Kr			357.674	ug/L	
	182	W			6.667	ug/L	

Report Date/Time: Wednesday, November 22, 2006 17:46:25

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	
	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	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	
	Kr	83	
	W	182	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 17:48:52
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\Standard 1.003
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
>	6	Li-1			689936.004	ug/L	662549.582
	9	Be	100.000000	1.719	30391.361	ug/L	2.667
	27	Al	5100.000000	2.306	33290932.901	ug/L	109698.073
	52	Cr	100.000000	1.680	952123.645	ug/L	18225.965
	55	Mn	100.000000	1.814	1476521.938	ug/L	3420.669
	59	Co	100.000000	1.694	1113776.417	ug/L	73.334
	60	Ni	100.000000	1.177	236831.360	ug/L	187.632
	65	Cu	100.000000	1.010	247260.639	ug/L	275.978
	68	Zn	100.000000	1.303	98615.979	ug/L	2065.244
	75	As	100.000000	1.134	246795.023	ug/L	14612.198
>	72	Ge-1			1679608.280	ug/L	1636059.066
	111	Cd	100.000000	2.269	229198.546	ug/L	39.786
	121	Sb	50.000000	1.823	349102.460	ug/L	172.002
	135	Ba	100.000000	1.957	230064.997	ug/L	324.339
>	115	In-1			1744803.142	ug/L	1748778.775
	208	Pb	100.000000	2.391	2488129.234	ug/L	938.686
>	169	Tm-1			1261663.419	ug/L	1297351.469
	50	Cr	100.000000	7.723	22634.023	ug/L	-253.029
	53	Cr	100.000000	5.972	68616.716	ug/L	27338.540
	61	Ni	100.000000	7.014	6407.900	ug/L	2459.969
	63	Cu	100.000000	1.117	180528.441	ug/L	204.340
	67	Zn	100.000000	2.354	9343.620	ug/L	1457.673
	66	Zn	100.000000	1.612	46206.467	ug/L	570.719
>	72	Ge			1679608.280	ug/L	1636059.066
	108	Cd	100.000000	1.451	16201.656	ug/L	34.781
	114	Cd	100.000000	1.938	522750.184	ug/L	137.294
>	115	In			1744803.142	ug/L	1748778.775
	208	207.977	100.000000	2.883	1252978.030	ug/L	475.346
	207	Pb	100.000000	2.333	523370.453	ug/L	203.002
	206	Pb	100.000000	1.723	711780.752	ug/L	260.337
>	169	Tm			1261663.419	ug/L	1297351.469
	106	Pd	100.000000	0.392	21473.317	ug/L	49.667
	83	Kr	100.000000	52.801	411.010	ug/L	357.674
	182	W			84.334	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	
	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	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	
	Kr	83	
	W	182	

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 17:52:32
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\ICV.004
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
>	6	Li-1			743195.421	ug/L	662549.582
	9	Be	79.054141	0.754	25882.223	ug/L	2.667
	27	Al	776.816766	0.621	5299817.974	ug/L	109698.073
	52	Cr	78.804070	1.121	773772.304	ug/L	18225.965
	55	Mn	81.448080	0.957	1234324.917	ug/L	3420.669
	59	Co	79.497907	0.176	908322.302	ug/L	73.334
	60	Ni	78.844169	0.982	191586.873	ug/L	187.632
	65	Cu	78.811294	0.372	199952.900	ug/L	275.978
	68	Zn	79.632515	0.294	80997.505	ug/L	2065.244
	75	As	75.677400	0.471	195326.549	ug/L	14612.198
>	72	Ge-1			1722768.120	ug/L	1636059.066
	111	Cd	78.390939	0.252	184090.621	ug/L	39.786
	121	Sb	37.977053	1.767	271659.836	ug/L	172.002
	135	Ba	74.841285	0.657	176485.419	ug/L	324.339
>	115	In-1			1787125.763	ug/L	1748778.775
	208	Pb	84.300107	1.055	2051279.090	ug/L	938.686
>	169	Tm-1			1233660.115	ug/L	1297351.469
	50	Cr	68.791044	6.784	15882.380	ug/L	-253.029
	53	Cr	77.647994	5.142	61099.128	ug/L	27338.540
	61	Ni	71.699347	3.748	5447.078	ug/L	2459.969
	63	Cu	78.159351	0.752	144787.748	ug/L	204.340
	67	Zn	78.604538	2.491	7861.546	ug/L	1457.673
	66	Zn	79.172491	1.519	37650.135	ug/L	570.719
>	72	Ge			1722768.120	ug/L	1636059.066
	108	Cd	76.271878	0.757	12667.129	ug/L	34.781
	114	Cd	78.537456	0.168	420648.053	ug/L	137.294
>	115	In			1787125.763	ug/L	1748778.775
	208	207.977	83.982518	1.297	1029107.709	ug/L	475.346
	207	Pb	84.368610	0.796	431841.037	ug/L	203.002
	206	Pb	84.808825	1.004	590330.344	ug/L	260.337
>	169	Tm			1233660.115	ug/L	1297351.469
	106	Pd	79.853207	0.622	17157.138	ug/L	49.667
	83	Kr	84.999921	32.495	403.009	ug/L	357.674
	182	W			21.667	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	112.172
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	105.300
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.193
	Pb	208	
>	Tm-1	169	95.091
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	105.300
	Cd	108	
	Cd	114	
>	In	115	102.193
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	95.091
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 17:54:07
Page 2
Sample ID: ICV

SOP No. SAC-MT-0001

BJones

Sample ID: ICB

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 17:56:18

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICB.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
>	6	Li-1			753670.017	ug/L	662549.582
	9	Be	-0.001193	576.799	2.667	ug/L	2.667
	27	Al	-0.050364	423.004	114483.414	ug/L	109698.073
	52	Cr	0.018204	101.177	19250.152	ug/L	18225.965
	55	Mn	0.006377	121.760	3675.772	ug/L	3420.669
	59	Co	0.001083	99.734	89.000	ug/L	73.334
	60	Ni	-0.003041	42.121	189.049	ug/L	187.632
	65	Cu	-0.011459	31.746	259.973	ug/L	275.978
	68	Zn	-0.114512	98.764	2048.573	ug/L	2065.244
	75	As	-0.242466	62.631	14720.113	ug/L	14612.198
>	72	Ge-1			1712531.935	ug/L	1636059.066
	111	Cd	0.002472	214.985	46.150	ug/L	39.786
	121	Sb	0.294658	10.711	2265.962	ug/L	172.002
	135	Ba	-0.020777	41.655	280.338	ug/L	324.339
>	115	In-1			1772924.135	ug/L	1748778.775
	208	Pb	0.004759	42.989	997.689	ug/L	938.686
>	169	Tm-1			1220641.892	ug/L	1297351.469
	50	Cr	0.091791	79.045	-243.336	ug/L	-253.029
	53	Cr	-2.007756	17.766	27785.993	ug/L	27338.540
	61	Ni	-3.092962	24.726	2452.295	ug/L	2459.969
	63	Cu	-0.001940	83.816	210.340	ug/L	204.340
	67	Zn	-1.237223	56.534	1426.993	ug/L	1457.673
	66	Zn	-0.167404	63.351	519.377	ug/L	570.719
>	72	Ge			1712531.935	ug/L	1636059.066
	108	Cd	-0.036918	191.849	29.164	ug/L	34.781
	114	Cd	-0.001285	17.179	132.349	ug/L	137.294
>	115	In			1772924.135	ug/L	1748778.775
	208	207.977	0.006204	43.433	522.349	ug/L	475.346
	207	Pb	0.001913	149.103	200.669	ug/L	203.002
	206	Pb	0.004310	31.659	274.671	ug/L	260.337
>	169	Tm			1220641.892	ug/L	1297351.469
	106	Pd	-0.009336	505.800	47.667	ug/L	49.667
	83	Kr	86.874918	23.741	404.009	ug/L	357.674
	182	W			3.000	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 17:57:53

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	113.753
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	104.674
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.381
	Pb	208	
>	Tm-1	169	94.087
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	104.674
	Cd	108	
	Cd	114	
>	In	115	101.381
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	94.087
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 17:57:53
Page 2
Sample ID: ICB

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

BJones

Sample ID: LLSTD 10X

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:00:08

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\LLSTD 10X.006

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 9

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-1			822784.968	ug/L	662549.582
	9	Be	0.856266	7.210	313.672	ug/L	2.667
	27	Al	41.154002	0.498	412783.806	ug/L	109698.073
	52	Cr	1.006014	4.165	30496.730	ug/L	18225.965
	55	Mn	1.152216	0.953	22230.874	ug/L	3420.669
	59	Co	1.016583	2.256	12368.738	ug/L	73.334
	60	Ni	0.998919	4.638	2774.198	ug/L	187.632
	65	Cu	1.075268	1.206	3189.579	ug/L	275.978
	68	Zn	10.688636	1.645	13493.731	ug/L	2065.244
	75	As	-0.114393	148.556	15991.295	ug/L	14612.198
>	72	Ge-1			1822646.636	ug/L	1636059.066
	111	Cd	0.868792	5.006	2334.598	ug/L	39.786
	121	Sb	0.513315	3.003	4317.065	ug/L	172.002
	135	Ba	0.839315	3.199	2590.384	ug/L	324.339
>	115	In-1			2006274.493	ug/L	1748778.775
	208	Pb	1.072007	0.398	29070.817	ug/L	938.686
>	169	Tm-1			1329806.549	ug/L	1297351.469
	50	Cr	1.805176	0.696	166.487	ug/L	-253.029
	53	Cr	-4.884014	11.101	28306.635	ug/L	27338.540
	61	Ni	3.560424	83.690	2890.571	ug/L	2459.969
	63	Cu	1.095896	1.293	2372.233	ug/L	204.340
	67	Zn	6.908138	4.500	2212.116	ug/L	1457.673
	66	Zn	11.135454	0.875	6149.044	ug/L	570.719
>	72	Ge			1822646.636	ug/L	1636059.066
	108	Cd	0.573238	2.646	146.487	ug/L	34.781
	114	Cd	0.874501	1.767	5414.263	ug/L	137.294
>	115	In			2006274.493	ug/L	1748778.775
	208	207.977	1.083546	0.837	14795.166	ug/L	475.346
	207	Pb	1.039084	0.951	5939.015	ug/L	203.002
	206	Pb	1.075902	0.563	8336.636	ug/L	260.337
>	169	Tm			1329806.549	ug/L	1297351.469
	106	Pd	0.838650	9.185	229.336	ug/L	49.667
	83	Kr	88.749915	7.617	405.009	ug/L	357.674
	182	W			10.000	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 18:01:41

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	124.185
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	111.405
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	114.724
	Pb	208	
>	Tm-1	169	102.502
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	111.405
	Cd	108	
	Cd	114	
>	In	115	114.724
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.502
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: LLSTD 5X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 18:03:22
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.007
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 10
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-1			819158.362	ug/L	662549.582
	9	Be	1.787824	1.998	648.357	ug/L	2.667
	27	Al	91.673485	1.233	765126.887	ug/L	109698.073
	52	Cr	1.908490	2.323	39414.245	ug/L	18225.965
	55	Mn	2.226319	1.285	39179.195	ug/L	3420.669
	59	Co	1.998226	0.820	24097.471	ug/L	73.334
	60	Ni	2.047951	1.634	5437.519	ug/L	187.632
	65	Cu	2.095439	2.043	5890.298	ug/L	275.978
	68	Zn	15.138512	1.120	18051.268	ug/L	2065.244
	75	As	0.881318	16.051	18391.060	ug/L	14612.198
>	72	Ge-1			1812341.229	ug/L	1636059.066
	111	Cd	1.717206	1.811	4645.709	ug/L	39.786
	121	Sb	0.882136	0.573	7395.124	ug/L	172.002
	135	Ba	1.667031	1.949	4854.013	ug/L	324.339
>	115	In-1			2038801.140	ug/L	1748778.775
	208	Pb	2.119632	1.506	56875.406	ug/L	938.686
>	169	Tm-1			1337751.752	ug/L	1297351.469
	50	Cr	3.039134	4.237	470.303	ug/L	-253.029
	53	Cr	-6.676542	26.226	27361.661	ug/L	27338.540
	61	Ni	4.516872	21.258	2914.359	ug/L	2459.969
	63	Cu	2.078388	1.835	4270.583	ug/L	204.340
	67	Zn	11.577907	4.065	2595.077	ug/L	1457.673
	66	Zn	15.645500	1.074	8334.433	ug/L	570.719
>	72	Ge			1812341.229	ug/L	1636059.066
	108	Cd	1.339137	5.866	293.567	ug/L	34.781
	114	Cd	1.731142	0.605	10734.652	ug/L	137.294
>	115	In			2038801.140	ug/L	1748778.775
	208	207.977	2.146614	2.379	29002.666	ug/L	475.346
	207	Pb	2.076873	1.422	11732.863	ug/L	203.002
	206	Pb	2.103574	2.568	16139.876	ug/L	260.337
>	169	Tm			1337751.752	ug/L	1297351.469
	106	Pd	1.962065	10.714	470.013	ug/L	49.667
	83	Kr	35.624940	153.476	376.675	ug/L	357.674
	182	W			4.333	ug/L	6.667

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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	123.637
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	110.775
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	116.584
	Pb	208	
>	Tm-1	169	103.114
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	110.775
	Cd	108	
	Cd	114	
>	In	115	116.584
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.114
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: ICSA

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:09:25

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\ICSA.008

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
>	6	Li-1			541540.429	ug/L	662549.582
	9	Be	0.033927	31.760	10.333	ug/L	2.667
	27	Al	111921.020916	0.588	604671664.695	ug/L	109698.073
	52	Cr	3.583998	6.251	43319.794	ug/L	18225.965
	55	Mn	5.255228	0.802	67191.022	ug/L	3420.669
	59	Co	2.820994	1.172	26150.695	ug/L	73.334
	60	Ni	3.407152	4.818	6854.163	ug/L	187.632
	65	Cu	0.258254	89.263	766.738	ug/L	275.978
	68	Zn	2.194317	4.727	3518.708	ug/L	2065.244
	75	As	0.946899	44.676	14277.753	ug/L	14612.198
>	72	Ge-1			1394435.761	ug/L	1636059.066
	111	Cd	0.447597	29.242	839.004	ug/L	39.786
	121	Sb	0.342114	0.676	2017.566	ug/L	172.002
	135	Ba	0.874598	2.545	1839.527	ug/L	324.339
>	115	In-1			1375355.593	ug/L	1748778.775
	208	Pb	0.756974	1.150	16330.241	ug/L	938.686
>	169	Tm-1			1043596.712	ug/L	1297351.469
	50	Cr	192.097038	7.710	36274.560	ug/L	-253.029
	53	Cr	45.040639	5.124	38468.693	ug/L	27338.540
	61	Ni	48.234864	7.477	3652.802	ug/L	2459.969
	63	Cu	5.181786	1.513	7932.726	ug/L	204.340
	67	Zn	29.389231	4.677	3156.594	ug/L	1457.673
	66	Zn	7.297277	4.027	3251.025	ug/L	570.719
>	72	Ge			1394435.761	ug/L	1636059.066
	108	Cd	69.301931	5.074	8862.581	ug/L	34.781
	114	Cd	3.968330	3.282	16462.511	ug/L	137.294
>	115	In			1375355.593	ug/L	1748778.775
	208	207.977	0.783350	2.023	8498.792	ug/L	475.346
	207	Pb	0.749404	0.937	3406.997	ug/L	203.002
	206	Pb	0.716110	2.078	4424.452	ug/L	260.337
>	169	Tm			1043596.712	ug/L	1297351.469
	106	Pd	1.551284	7.321	382.008	ug/L	49.667
	83	Kr	828.768381	8.467	799.703	ug/L	357.674
	182	W			852.116	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	81.736
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	85.231
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	78.647
	Pb	208	
>	Tm-1	169	80.441
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	85.231
	Cd	108	
	Cd	114	
>	In	115	78.647
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	80.441
	Pd	106	
	Kr	83	
	W	182	

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 18:13:08
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\ICSAB.009
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
>	6	Li-1			521071.655	ug/L	662549.582
	9	Be	100.175240	0.624	22993.520	ug/L	2.667
	27	Al	111143.788996	1.230	613765507.664	ug/L	109698.073
	52	Cr	112.589420	0.936	907753.772	ug/L	18225.965
	55	Mn	110.287927	1.030	1381601.675	ug/L	3420.669
	59	Co	109.067988	0.987	1030928.879	ug/L	73.334
	60	Ni	105.466716	0.167	211963.724	ug/L	187.632
	65	Cu	95.062241	0.216	199481.548	ug/L	275.978
	68	Zn	93.269146	0.277	78175.346	ug/L	2065.244
	75	As	106.700100	0.330	222617.679	ug/L	14612.198
>	72	Ge-1			1425252.492	ug/L	1636059.066
	111	Cd	98.765677	0.820	184371.765	ug/L	39.786
	121	Sb	53.143279	0.301	302155.154	ug/L	172.002
	135	Ba	111.004208	0.783	207963.784	ug/L	324.339
>	115	In-1			1420675.557	ug/L	1748778.775
	208	Pb	90.209424	1.024	1869746.381	ug/L	938.686
>	169	Tm-1			1050801.544	ug/L	1297351.469
	50	Cr	274.579934	4.779	53098.298	ug/L	-253.029
	53	Cr	142.646851	3.308	72930.640	ug/L	27338.540
	61	Ni	155.219554	1.661	7259.423	ug/L	2459.969
	63	Cu	102.133434	0.529	156464.331	ug/L	204.340
	67	Zn	125.672245	0.702	9638.175	ug/L	1457.673
	66	Zn	100.518178	0.586	39414.367	ug/L	570.719
>	72	Ge			1425252.492	ug/L	1636059.066
	108	Cd	170.137793	0.853	22427.816	ug/L	34.781
	114	Cd	102.223144	0.372	435207.189	ug/L	137.294
>	115	In			1420675.557	ug/L	1748778.775
	208	207.977	90.057490	0.926	940007.026	ug/L	475.346
	207	Pb	89.901611	1.027	391957.715	ug/L	203.002
	206	Pb	90.703230	1.315	537781.640	ug/L	260.337
>	169	Tm			1050801.544	ug/L	1297351.469
	106	Pd	81.137819	1.076	17432.349	ug/L	49.667
	83	Kr	940.649075	7.909	859.376	ug/L	357.674
	182	W			891.794	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	78.646
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	87.115
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	81.238
	Pb	208	
>	Tm-1	169	80.996
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	87.115
	Cd	108	
	Cd	114	
>	In	115	81.238
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	80.996
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:17:14

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\Rinse.010

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
>	6	Li-1			735426.405	ug/L	662549.582
	9	Be	-0.003975	118.574	1.667	ug/L	2.667
	27	Al	-8.518174	3.465	70601.481	ug/L	109698.073
	52	Cr	0.863712	21.184	33044.742	ug/L	18225.965
	55	Mn	-0.119849	2.229	2155.599	ug/L	3420.669
	59	Co	0.002189	30.446	123.001	ug/L	73.334
	60	Ni	-0.043312	9.211	111.331	ug/L	187.632
	65	Cu	-0.001228	546.056	345.994	ug/L	275.978
	68	Zn	0.684708	5.826	3433.340	ug/L	2065.244
	75	As	0.339946	20.665	19493.253	ug/L	14612.198
>	72	Ge-1			2073688.426	ug/L	1636059.066
	111	Cd	0.002493	320.602	52.959	ug/L	39.786
	121	Sb	-0.004862	21.912	160.668	ug/L	172.002
	135	Ba	-0.017918	12.138	329.673	ug/L	324.339
>	115	In-1			2036804.434	ug/L	1748778.775
	208	Pb	-0.003922	32.898	846.683	ug/L	938.686
>	169	Tm-1			1310527.413	ug/L	1297351.469
	50	Cr	-0.238994	64.792	-388.036	ug/L	-253.029
	53	Cr	7.600250	49.734	38448.003	ug/L	27338.540
	61	Ni	-0.494477	427.515	3093.865	ug/L	2459.969
	63	Cu	0.015122	34.438	292.680	ug/L	204.340
	67	Zn	0.487962	369.727	1893.910	ug/L	1457.673
	66	Zn	0.598627	6.015	1060.513	ug/L	570.719
>	72	Ge			2073688.426	ug/L	1636059.066
	108	Cd	0.023807	114.643	44.991	ug/L	34.781
	114	Cd	0.004528	29.278	187.506	ug/L	137.294
>	115	In			2036804.434	ug/L	1748778.775
	208	207.977	-0.003180	55.852	438.678	ug/L	475.346
	207	Pb	-0.006440	31.041	170.002	ug/L	203.002
	206	Pb	-0.003378	20.020	238.003	ug/L	260.337
>	169	Tm			1310527.413	ug/L	1297351.469
	106	Pd	-0.048234	112.995	39.333	ug/L	49.667
	83	Kr	267.501337	17.373	500.348	ug/L	357.674
	182	W			10.333	ug/L	6.667

Report Date/Time: Wednesday, November 22, 2006 18:18:50

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	110.999
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	126.749
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	116.470
	Pb	208	
>	Tm-1	169	101.016
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	126.749
	Cd	108	
	Cd	114	
>	In	115	116.470
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.016
	Pd	106	
	Kr	83	
	W	182	

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 18:21:01
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 1.011
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
6	Li-1			808953.371	ug/L	662549.582
9	Be	103.503709	2.585	36873.200	ug/L	2.667
27	Al	4771.048474	1.910	39137035.561	ug/L	109698.073
52	Cr	99.252848	0.863	1187571.694	ug/L	18225.965
55	Mn	102.822680	0.876	1907405.043	ug/L	3420.669
59	Co	98.650310	1.627	1380450.758	ug/L	73.334
60	Ni	100.739821	0.513	299770.042	ug/L	187.632
65	Cu	97.258177	1.006	302149.903	ug/L	275.978
68	Zn	99.818130	1.358	123675.583	ug/L	2065.244
75	As	99.748376	0.825	309347.110	ug/L	14612.198
72	Ge-1			2110254.883	ug/L	1636059.066
111	Cd	101.399450	0.757	260978.884	ug/L	39.786
121	Sb	50.051267	0.853	392357.459	ug/L	172.002
135	Ba	93.901917	0.210	242604.605	ug/L	324.339
115	In-1			1958723.507	ug/L	1748778.775
208	Pb	101.799504	0.993	2626443.435	ug/L	938.686
169	Tm-1			1308057.336	ug/L	1297351.469
50	Cr	102.735136	1.763	29221.815	ug/L	-253.029
53	Cr	89.991675	3.192	81121.445	ug/L	27338.540
61	Ni	91.967790	2.042	7661.046	ug/L	2459.969
63	Cu	98.593088	0.798	223633.660	ug/L	204.340
67	Zn	96.371589	1.966	11379.682	ug/L	1457.673
66	Zn	98.948899	1.643	57447.902	ug/L	570.719
72	Ge			2110254.883	ug/L	1636059.066
108	Cd	101.228476	0.847	18413.844	ug/L	34.781
114	Cd	100.795727	0.833	591650.685	ug/L	137.294
115	In			1958723.507	ug/L	1748778.775
208	207.977	101.836275	0.933	1323142.434	ug/L	475.346
207	Pb	101.793545	1.284	552434.300	ug/L	203.002
206	Pb	101.739153	0.965	750866.701	ug/L	260.337
169	Tm			1308057.336	ug/L	1297351.469
106	Pd	114.088393	1.131	24491.565	ug/L	49.667
83	Kr	358.127747	6.290	548.684	ug/L	357.674
182	W			92.335	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	122.097
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	128.984
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	112.005
	Pb	208	
>	Tm-1	169	100.825
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	128.984
	Cd	108	
	Cd	114	
>	In	115	112.005
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.825
	Pd	106	
	Kr	83	
	W	182	

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 18:24:48
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 1.012
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
>	6	Li-1			854235.854	ug/L	662549.582
	9	Be	0.000568	1070.488	3.667	ug/L	2.667
	27	Al	-0.756538	22.127	134965.982	ug/L	109698.073
	52	Cr	0.360930	23.722	27671.053	ug/L	18225.965
	55	Mn	0.006780	13.787	4526.170	ug/L	3420.669
	59	Co	0.001575	81.899	116.334	ug/L	73.334
	60	Ni	-0.007772	40.539	218.354	ug/L	187.632
	65	Cu	-0.007895	63.763	330.637	ug/L	275.978
	68	Zn	-0.200450	14.278	2414.667	ug/L	2065.244
	75	As	0.023407	698.407	18867.308	ug/L	14612.198
>	72	Ge-1			2104942.104	ug/L	1636059.066
	111	Cd	0.001852	175.884	49.935	ug/L	39.786
	121	Sb	0.152642	14.718	1405.114	ug/L	172.002
	135	Ba	-0.026031	12.862	299.672	ug/L	324.339
>	115	In-1			1982073.555	ug/L	1748778.775
	208	Pb	0.004911	3.504	1090.359	ug/L	938.686
>	169	Tm-1			1329102.281	ug/L	1297351.469
	50	Cr	0.073019	191.895	-304.545	ug/L	-253.029
	53	Cr	-9.569496	24.685	30306.384	ug/L	27338.540
	61	Ni	-10.500108	16.879	2653.794	ug/L	2459.969
	63	Cu	0.001977	603.540	267.345	ug/L	204.340
	67	Zn	-3.894341	25.064	1492.357	ug/L	1457.673
	66	Zn	-0.248151	25.223	592.390	ug/L	570.719
>	72	Ge			2104942.104	ug/L	1636059.066
	108	Cd	-0.053894	162.949	29.486	ug/L	34.781
	114	Cd	-0.002300	90.150	141.940	ug/L	137.294
>	115	In			1982073.555	ug/L	1748778.775
	208	207.977	0.005407	16.128	558.351	ug/L	475.346
	207	Pb	0.002793	45.164	223.336	ug/L	203.002
	206	Pb	0.005595	16.690	308.672	ug/L	260.337
>	169	Tm			1329102.281	ug/L	1297351.469
	106	Pd	0.026451	123.949	55.334	ug/L	49.667
	83	Kr	218.750784	24.803	474.346	ug/L	357.674
	182	W			5.333	ug/L	6.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	128.932
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	128.659
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	113.340
	Pb	208	
>	Tm-1	169	102.447
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	128.659
	Cd	108	
	Cd	114	
>	In	115	113.340
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.447
	Pd	106	
	Kr	83	
	W	182	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

BJones

Sample ID: BLK RECAL

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:24:48

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 1.012

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
>	6	Li-1			854235.854	ug/L	
	9	Be			3.667	ug/L	
	27	Al			134965.982	ug/L	
	52	Cr			27671.053	ug/L	
	55	Mn			4526.170	ug/L	
	59	Co			116.334	ug/L	
	60	Ni			218.354	ug/L	
	65	Cu			330.637	ug/L	
	68	Zn			2414.667	ug/L	
	75	As			18867.308	ug/L	
>	72	Ge-1			2104942.104	ug/L	
	111	Cd			49.935	ug/L	
	121	Sb			1405.114	ug/L	
	135	Ba			299.672	ug/L	
>	115	In-1			1982073.555	ug/L	
	208	Pb			1090.359	ug/L	
>	169	Tm-1			1329102.281	ug/L	
	50	Cr			-304.545	ug/L	
	53	Cr			30306.384	ug/L	
	61	Ni			2653.794	ug/L	
	63	Cu			267.345	ug/L	
	67	Zn			1492.357	ug/L	
	66	Zn			592.390	ug/L	
>	72	Ge			2104942.104	ug/L	
	108	Cd			29.486	ug/L	
	114	Cd			141.940	ug/L	
>	115	In			1982073.555	ug/L	
	208	207.977			558.351	ug/L	
	207	Pb			223.336	ug/L	
	206	Pb			308.672	ug/L	
>	169	Tm			1329102.281	ug/L	
	106	Pd			55.334	ug/L	
	83	Kr			474.346	ug/L	
	182	W			5.333	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	
	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	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	
	Kr	83	
	W	182	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

BJones

Sample ID: STD1 RECAL

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 18:21:01

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 1.011

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
>	6	Li-1			808953.371	ug/L	854235.854
	9	Be	100.000000	2.585	36873.200	ug/L	3.667
	27	Al	5100.000000	1.910	39137035.561	ug/L	134965.982
	52	Cr	100.000000	0.866	1187571.694	ug/L	27671.053
	55	Mn	100.000000	0.876	1907405.043	ug/L	4526.170
	59	Co	100.000000	1.627	1380450.758	ug/L	116.334
	60	Ni	100.000000	0.513	299770.042	ug/L	218.354
	65	Cu	100.000000	1.006	302149.903	ug/L	330.637
	68	Zn	100.000000	1.355	123675.583	ug/L	2414.667
	75	As	100.000000	0.825	309347.110	ug/L	18867.308
>	72	Ge-1			2110254.883	ug/L	2104942.104
	111	Cd	100.000000	0.757	260978.884	ug/L	49.935
	121	Sb	50.000000	0.856	392357.459	ug/L	1405.114
	135	Ba	100.000000	0.210	242604.605	ug/L	299.672
>	115	In-1			1958723.507	ug/L	1982073.555
	208	Pb	100.000000	0.993	2626443.435	ug/L	1090.359
>	169	Tm-1			1308057.336	ug/L	1329102.281
	50	Cr	100.000000	1.764	29221.815	ug/L	-304.545
	53	Cr	100.000000	2.885	81121.445	ug/L	30306.384
	61	Ni	100.000000	1.833	7661.046	ug/L	2653.794
	63	Cu	100.000000	0.798	223633.660	ug/L	267.345
	67	Zn	100.000000	1.889	11379.682	ug/L	1492.357
	66	Zn	100.000000	1.639	57447.902	ug/L	592.390
>	72	Ge			2110254.883	ug/L	2104942.104
	108	Cd	100.000000	0.847	18413.844	ug/L	29.486
	114	Cd	100.000000	0.833	591650.685	ug/L	141.940
>	115	In			1958723.507	ug/L	1982073.555
	208	207.977	100.000000	0.933	1323142.434	ug/L	558.351
	207	Pb	100.000000	1.284	552434.300	ug/L	223.336
	206	Pb	100.000000	0.965	750866.701	ug/L	308.672
>	169	Tm			1308057.336	ug/L	1329102.281
	106	Pd	100.000000	1.131	24491.565	ug/L	55.334
	83	Kr	100.000000	16.162	548.684	ug/L	474.346
	182	W			92.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:35:13

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	
	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	
>	Ge	72	
	Cd	108	
	Cd	114	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	
	Kr	83	
	W	182	

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: Wednesday, November 22, 2006 18:28:34
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 2.013
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
>	6	Li-1			877124.476	ug/L	854235.854
	9	Be	97.832712	1.648	39121.597	ug/L	3.667
	27	Al	4886.201153	2.310	37783420.608	ug/L	134965.982
	52	Cr	98.161940	1.532	1174937.192	ug/L	27671.053
	55	Mn	99.895996	0.149	1919734.505	ug/L	4526.170
	59	Co	97.901111	1.203	1361767.795	ug/L	116.334
	60	Ni	97.555698	0.663	294636.323	ug/L	218.354
	65	Cu	98.389149	1.071	299506.811	ug/L	330.637
	68	Zn	98.816938	0.548	123160.045	ug/L	2414.667
	75	As	97.899658	0.692	305513.525	ug/L	18867.308
>	72	Ge-1			2125924.985	ug/L	2104942.104
	111	Cd	98.236801	1.405	255251.268	ug/L	49.935
	121	Sb	49.541328	1.012	387082.642	ug/L	1405.114
	135	Ba	97.964959	1.581	236629.690	ug/L	299.672
>	115	In-1			1950328.667	ug/L	1982073.555
	208	Pb	99.728577	0.170	2707010.757	ug/L	1090.359
>	169	Tm-1			1351812.959	ug/L	1329102.281
	50	Cr	100.033206	0.432	29445.437	ug/L	-304.545
	53	Cr	93.229685	3.190	78271.619	ug/L	30306.384
	61	Ni	92.175198	4.877	7323.576	ug/L	2653.794
	63	Cu	97.986215	2.243	220758.394	ug/L	267.345
	67	Zn	96.329899	2.192	11099.680	ug/L	1492.357
	66	Zn	100.353107	1.097	58083.859	ug/L	592.390
>	72	Ge			2125924.985	ug/L	2104942.104
	108	Cd	97.586960	0.772	17891.999	ug/L	29.486
	114	Cd	99.144646	1.402	584024.136	ug/L	141.940
>	115	In			1950328.667	ug/L	1982073.555
	208	207.977	99.379433	0.991	1358994.525	ug/L	558.351
	207	Pb	100.320476	0.573	572744.949	ug/L	223.336
	206	Pb	99.908326	0.816	775271.283	ug/L	308.672
>	169	Tm			1351812.959	ug/L	1329102.281
	106	Pd	98.153392	2.168	24040.323	ug/L	55.334
	83	Kr	95.515695	32.435	545.350	ug/L	474.346
	182	W			87.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:35:29
Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	102.679
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.997
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.398
	Pb	208	
>	Tm-1	169	101.709
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.997
	Cd	108	
	Cd	114	
>	In	115	98.398
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.709
	Pd	106	
	Kr	83	
	W	182	

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: Wednesday, November 22, 2006 18:32:20

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCB 2.014

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
>	6	Li-1			881292.476	ug/L	854235.854
	9	Be	0.003769	129.621	5.333	ug/L	3.667
	27	Al	0.534813	67.986	137608.715	ug/L	134965.982
	52	Cr	-0.182434	64.523	25290.220	ug/L	27671.053
	55	Mn	0.002881	230.153	4532.173	ug/L	4526.170
	59	Co	0.001303	57.752	133.001	ug/L	116.334
	60	Ni	0.006113	23.996	234.146	ug/L	218.354
	65	Cu	-0.009029	76.138	300.101	ug/L	330.637
	68	Zn	-0.064471	157.435	2311.973	ug/L	2414.667
	75	As	-0.039602	242.052	18556.654	ug/L	18867.308
>	72	Ge-1			2083292.962	ug/L	2104942.104
	111	Cd	-0.007167	62.839	30.233	ug/L	49.935
	121	Sb	0.013476	154.109	1477.792	ug/L	1405.114
	135	Ba	0.010272	28.092	317.672	ug/L	299.672
>	115	In-1			1938531.510	ug/L	1982073.555
	208	Pb	0.002363	39.048	1173.364	ug/L	1090.359
>	169	Tm-1			1352048.682	ug/L	1329102.281
	50	Cr	0.030567	232.790	-292.723	ug/L	-304.545
	53	Cr	-5.871979	42.132	27041.593	ug/L	30306.384
	61	Ni	-1.370037	177.801	2558.048	ug/L	2653.794
	63	Cu	-0.009187	89.076	244.343	ug/L	267.345
	67	Zn	-1.100101	23.983	1369.634	ug/L	1492.357
	66	Zn	0.057540	136.071	618.395	ug/L	592.390
>	72	Ge			2083292.962	ug/L	2104942.104
	108	Cd	0.091925	71.641	45.621	ug/L	29.486
	114	Cd	-0.002124	272.616	126.597	ug/L	141.940
>	115	In			1938531.510	ug/L	1982073.555
	208	207.977	0.002509	33.488	602.354	ug/L	558.351
	207	Pb	0.002964	109.527	244.003	ug/L	223.336
	206	Pb	0.001661	109.132	327.006	ug/L	308.672
>	169	Tm			1352048.682	ug/L	1329102.281
	106	Pd	-0.010913	444.234	52.667	ug/L	55.334
	83	Kr	13.901262	97.897	484.680	ug/L	474.346
	182	W			6.000	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:35:31

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	103.167
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	98.972
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.803
	Pb	208	
>	Tm-1	169	101.726
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	98.972
	Cd	108	
	Cd	114	
>	In	115	97.803
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.726
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: LLSTD 5X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 18:37:32
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.015
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 10
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-1			969870.545	ug/L	854235.854
	9	Be	1.759330	3.844	782.035	ug/L	3.667
	27	Al	90.173276	2.686	859016.059	ug/L	134965.982
	52	Cr	1.601668	3.196	48228.227	ug/L	27671.053
	55	Mn	2.279991	2.408	49898.566	ug/L	4526.170
	59	Co	2.017299	0.734	29119.040	ug/L	116.334
	60	Ni	2.031083	1.286	6562.931	ug/L	218.354
	65	Cu	2.112776	1.962	6984.978	ug/L	330.637
	68	Zn	16.072374	2.643	22813.040	ug/L	2414.667
	75	As	0.890704	22.337	22390.734	ug/L	18867.308
>	72	Ge-1			2197275.435	ug/L	2104942.104
	111	Cd	1.741641	1.721	5361.526	ug/L	49.935
	121	Sb	0.743948	2.455	8409.373	ug/L	1405.114
	135	Ba	1.726259	1.167	5227.895	ug/L	299.672
>	115	In-1			2286114.413	ug/L	1982073.555
	208	Pb	2.167685	0.802	64817.288	ug/L	1090.359
>	169	Tm-1			1462271.338	ug/L	1329102.281
	50	Cr	2.904037	18.772	574.918	ug/L	-304.545
	53	Cr	-11.314223	12.035	25654.919	ug/L	30306.384
	61	Ni	3.224034	74.523	2937.715	ug/L	2653.794
	63	Cu	2.118803	3.143	5206.669	ug/L	267.345
	67	Zn	12.263981	8.016	2819.939	ug/L	1492.357
	66	Zn	16.652169	3.143	10476.539	ug/L	592.390
>	72	Ge			2197275.435	ug/L	2104942.104
	108	Cd	1.403001	3.282	335.101	ug/L	29.486
	114	Cd	1.750399	0.405	12248.030	ug/L	141.940
>	115	In			2286114.413	ug/L	1982073.555
	208	207.977	2.209670	0.710	33283.850	ug/L	558.351
	207	Pb	2.107782	1.958	13256.368	ug/L	223.336
	206	Pb	2.137777	0.249	18277.070	ug/L	308.672
>	169	Tm			1462271.338	ug/L	1329102.281
	106	Pd	1.879784	2.504	514.682	ug/L	55.334
	83	Kr	-27.802577	82.731	453.678	ug/L	474.346
	182	W			6.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:39:05
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Sample ID: LLSTD 5X

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	113.537
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	104.387
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	115.340
	Pb	208	
>	Tm-1	169	110.019
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	104.387
	Cd	108	
	Cd	114	
>	In	115	115.340
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	110.019
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: JJXAJC
Sample Description: G6K170000-133 LCS
Batch ID: 6321133
Sample Date/Time: Wednesday, November 22, 2006 18:41:56
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJXAJC.016
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 135
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-1			882311.552	ug/L	854235.854
	9	Be	169.504090	1.475	68183.973	ug/L	3.667
	27	Al	897.366511	1.423	6521946.649	ug/L	134965.982
	52	Cr	183.730250	1.290	2011687.624	ug/L	27671.053
	55	Mn	189.299933	2.174	3361001.634	ug/L	4526.170
	59	Co	181.078699	0.902	2329552.751	ug/L	116.334
	60	Ni	181.114871	0.549	505778.726	ug/L	218.354
	65	Cu	185.369838	1.128	521689.896	ug/L	330.637
	68	Zn	178.946526	0.482	204470.464	ug/L	2414.667
	75	As	172.485157	0.351	484467.072	ug/L	18867.308
>	72	Ge-1			1966429.128	ug/L	2104942.104
	111	Cd	176.444733	1.374	453993.738	ug/L	49.935
	121	Sb	43.185971	3.547	334279.680	ug/L	1405.114
	135	Ba	183.361722	1.960	438390.493	ug/L	299.672
>	115	In-1			1931505.061	ug/L	1982073.555
	208	Pb	186.825587	1.160	5163838.322	ug/L	1090.359
>	169	Tm-1			1376821.293	ug/L	1329102.281
	50	Cr	158.517534	4.454	43326.243	ug/L	-304.545
	53	Cr	152.680020	5.078	100515.591	ug/L	30306.384
	61	Ni	182.116594	0.815	10966.208	ug/L	2653.794
	63	Cu	182.600447	1.185	380340.115	ug/L	267.345
	67	Zn	170.797709	0.443	17127.140	ug/L	1492.357
	66	Zn	180.826200	0.204	96367.660	ug/L	592.390
>	72	Ge			1966429.128	ug/L	2104942.104
	108	Cd	173.786766	1.134	31536.305	ug/L	29.486
	114	Cd	174.792897	0.926	1019654.141	ug/L	141.940
>	115	In			1931505.061	ug/L	1982073.555
	208	207.977	189.085429	1.777	2632824.026	ug/L	558.351
	207	Pb	198.385838	1.237	1153340.602	ug/L	223.336
	206	Pb	174.338266	0.318	1377673.694	ug/L	308.672
>	169	Tm			1376821.293	ug/L	1329102.281
	106	Pd	175.912026	0.357	43041.603	ug/L	55.334
	83	Kr	0.448422	7950.601	474.680	ug/L	474.346
	182	W			104.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:43:28
Page 1
Sample ID: JJXAJC

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	103.287
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	93.420
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.449
	Pb	208	
>	Tm-1	169	103.590
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	93.420
	Cd	108	
	Cd	114	
>	In	115	97.449
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.590
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: JJXAJL
Sample Description: G6K170000-133 LCSD
Batch ID: 6321133
Sample Date/Time: Wednesday, November 22, 2006 18:45:37
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\06112 2b1\JJXAJL.017
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 136
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-1			876601.888	ug/L	854235.854
	9	Be	172.093034	2.608	68757.775	ug/L	3.667
	27	Al	894.858601	0.768	6568220.676	ug/L	134965.982
	52	Cr	182.791431	0.569	2021292.288	ug/L	27671.053
	55	Mn	191.974663	0.315	3442115.237	ug/L	4526.170
	59	Co	181.647368	0.626	2359900.994	ug/L	116.334
	60	Ni	182.226654	2.579	513870.467	ug/L	218.354
	65	Cu	185.311731	0.560	526673.638	ug/L	330.637
	68	Zn	179.595309	0.258	207226.152	ug/L	2414.667
	75	As	172.603212	0.311	489569.433	ug/L	18867.308
>	72	Ge-1			1985811.253	ug/L	2104942.104
	111	Cd	175.204086	0.451	459039.847	ug/L	49.935
	121	Sb	43.580386	2.062	343536.058	ug/L	1405.114
	135	Ba	182.129844	1.095	443376.822	ug/L	299.672
>	115	In-1			1966635.836	ug/L	1982073.555
	208	Pb	190.577424	1.773	5263133.275	ug/L	1090.359
>	169	Tm-1			1375800.776	ug/L	1329102.281
	50	Cr	160.176558	1.404	44212.785	ug/L	-304.545
	53	Cr	148.850838	0.286	99679.472	ug/L	30306.384
	61	Ni	175.284020	0.625	10752.802	ug/L	2653.794
	63	Cu	179.865661	1.125	378335.313	ug/L	267.345
	67	Zn	171.438882	0.994	17355.732	ug/L	1492.357
	66	Zn	180.702436	0.658	97250.047	ug/L	592.390
>	72	Ge			1985811.253	ug/L	2104942.104
	108	Cd	175.525222	0.871	32427.344	ug/L	29.486
	114	Cd	173.061417	0.797	1027917.642	ug/L	141.940
>	115	In			1966635.836	ug/L	1982073.555
	208	207.977	193.458206	2.309	2691393.546	ug/L	558.351
	207	Pb	201.481143	0.612	1170449.694	ug/L	223.336
	206	Pb	177.478974	1.871	1401290.035	ug/L	308.672
>	169	Tm			1375800.776	ug/L	1329102.281
	106	Pd	179.335117	0.623	43878.077	ug/L	55.334
	83	Kr	4.035901	1350.022	477.346	ug/L	474.346
	182	W			95.335	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:47:10
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	102.618
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.340
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.221
	Pb	208	
>	Tm-1	169	103.514
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.340
	Cd	108	
	Cd	114	
>	In	115	99.221
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.514
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: JJ71FC
Sample Description: G6K220000-120 LCS
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 18:49:19
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJ71FC.018
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 137
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-1			849343.102	ug/L	854235.854
	9	Be	174.541483	2.939	67559.483	ug/L	3.667
	27	Al	873.462954	3.833	6265605.551	ug/L	134965.982
	52	Cr	179.643610	2.962	1941256.078	ug/L	27671.053
	55	Mn	187.277421	3.197	3280641.408	ug/L	4526.170
	59	Co	180.724912	3.620	2293651.781	ug/L	116.334
	60	Ni	181.229673	3.530	499276.514	ug/L	218.354
	65	Cu	183.975352	2.318	510931.307	ug/L	330.637
	68	Zn	184.231113	3.271	207618.645	ug/L	2414.667
	75	As	177.847957	3.808	492242.316	ug/L	18867.308
>	72	Ge-1			1941388.114	ug/L	2104942.104
	111	Cd	176.378352	4.950	452678.703	ug/L	49.935
	121	Sb	43.916358	5.601	339070.083	ug/L	1405.114
	135	Ba	180.321512	5.595	429947.342	ug/L	299.672
>	115	In-1			1929077.420	ug/L	1982073.555
	208	Pb	188.415981	3.325	5095645.793	ug/L	1090.359
>	169	Tm-1			1348215.354	ug/L	1329102.281
	50	Cr	156.861791	4.088	42291.985	ug/L	-304.545
	53	Cr	146.050939	6.131	96054.394	ug/L	30306.384
	61	Ni	177.046020	3.538	10587.574	ug/L	2653.794
	63	Cu	179.521108	2.661	368960.099	ug/L	267.345
	67	Zn	174.979230	3.994	17275.621	ug/L	1492.357
	66	Zn	185.885655	3.711	97709.035	ug/L	592.390
>	72	Ge			1941388.114	ug/L	2104942.104
	108	Cd	174.351934	4.632	31556.636	ug/L	29.486
	114	Cd	175.619843	4.281	1022055.248	ug/L	141.940
>	115	In			1929077.420	ug/L	1982073.555
	208	207.977	191.100528	2.982	2603825.732	ug/L	558.351
	207	Pb	196.933857	3.361	1120242.268	ug/L	223.336
	206	Pb	177.418658	3.959	1371577.793	ug/L	308.672
>	169	Tm			1348215.354	ug/L	1329102.281
	106	Pd	174.012145	0.826	42577.344	ug/L	55.334
	83	Kr	32.735326	90.536	498.681	ug/L	474.346
	182	W			80.001	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:50:52
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	99.427
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	92.230
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.326
	Pb	208	
>	Tm-1	169	101.438
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	92.230
	Cd	108	
	Cd	114	
>	In	115	97.326
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.438
	Pd	106	
	Kr	83	
	W	182	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

BJones

Sample ID: JJ71FL

Sample Description: G6K220000-120 LCSD
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 18:53:01
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJ71FL.019
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 138
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-1			870585.083	ug/L	854235.854
⌊	9	Be	172.985732	1.235	68660.003	ug/L	3.667
⌈	27	Al	866.959069	1.910	6351449.054	ug/L	134965.982
|	52	Cr	179.106836	0.748	1976268.936	ug/L	27671.053
|	55	Mn	184.120646	0.762	3293554.130	ug/L	4526.170
|	59	Co	179.778829	1.223	2329902.923	ug/L	116.334
|	60	Ni	178.444785	1.270	501999.412	ug/L	218.354
|	65	Cu	180.788144	1.237	512574.115	ug/L	330.637
|	68	Zn	180.549598	0.940	207805.681	ug/L	2414.667
|	75	As	175.145030	0.837	495301.900	ug/L	18867.308
⌊>	72	Ge-1			1981026.291	ug/L	2104942.104
⌈	111	Cd	175.744950	0.820	461609.772	ug/L	49.935
|	121	Sb	43.369318	2.665	342718.513	ug/L	1405.114
|	135	Ba	178.715294	2.297	436133.093	ug/L	299.672
⌊>	115	In-1			1971622.184	ug/L	1982073.555
⌈	208	Pb	186.012228	0.057	5142163.715	ug/L	1090.359
⌊>	169	Tm-1			1377004.944	ug/L	1329102.281
⌈	50	Cr	154.573446	3.340	42557.781	ug/L	-304.545
|	53	Cr	142.161466	1.352	96248.755	ug/L	30306.384
|	61	Ni	168.882231	3.053	10425.365	ug/L	2653.794
|	63	Cu	176.715586	0.464	370834.585	ug/L	267.345
|	67	Zn	170.539038	0.986	17230.039	ug/L	1492.357
|	66	Zn	182.281821	1.381	97860.219	ug/L	592.390
⌊>	72	Ge			1981026.291	ug/L	2104942.104
⌈	108	Cd	173.908821	1.201	32209.665	ug/L	29.486
|	114	Cd	173.899879	0.364	1035575.939	ug/L	141.940
⌊>	115	In			1971622.184	ug/L	1982073.555
⌈	208	207.977	188.209835	0.323	2621063.886	ug/L	558.351
|	207	Pb	194.577444	0.295	1131383.492	ug/L	223.336
|	206	Pb	175.838112	0.442	1389716.337	ug/L	308.672
⌊>	169	Tm			1377004.944	ug/L	1329102.281
	106	Pd	180.005505	0.268	44041.895	ug/L	55.334
	83	Kr	48.878819	62.782	510.682	ug/L	474.346
	182	W			81.001	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 18:54:34
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	101.914
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.113
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.473
	Pb	208	
>	Tm-1	169	103.604
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.113
	Cd	108	
	Cd	114	
>	In	115	99.473
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.604
	Pd	106	
	Kr	83	
	W	182	

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: Wednesday, November 22, 2006 18:56:47
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\Rinse.020
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
>	6	Li-1			851712.638	ug/L	854235.854
	9	Be	0.005229	79.698	5.667	ug/L	3.667
	27	Al	-10.188630	1.250	54342.230	ug/L	134965.982
	52	Cr	-0.372489	4.260	22183.084	ug/L	27671.053
	55	Mn	-0.138280	2.759	1805.186	ug/L	4526.170
	59	Co	0.005390	12.686	181.002	ug/L	116.334
	60	Ni	-0.032584	9.461	114.949	ug/L	218.354
	65	Cu	-0.038429	1.644	204.107	ug/L	330.637
	68	Zn	0.514807	14.277	2884.809	ug/L	2414.667
	75	As	-0.109066	84.988	17616.874	ug/L	18867.308
>	72	Ge-1			1998894.188	ug/L	2104942.104
	111	Cd	0.001478	438.726	52.855	ug/L	49.935
	121	Sb	0.396907	15.430	4466.149	ug/L	1405.114
	135	Ba	0.006632	75.436	310.339	ug/L	299.672
>	115	In-1			1947011.506	ug/L	1982073.555
	208	Pb	-0.000130	784.196	1123.361	ug/L	1090.359
>	169	Tm-1			1373967.532	ug/L	1329102.281
	50	Cr	0.419146	20.269	-172.062	ug/L	-304.545
	53	Cr	-12.761358	6.060	22643.419	ug/L	30306.384
	61	Ni	-1.770228	196.684	2434.950	ug/L	2653.794
	63	Cu	-0.032384	5.250	185.339	ug/L	267.345
	67	Zn	-1.810337	11.238	1247.582	ug/L	1492.357
	66	Zn	0.875731	3.975	1034.171	ug/L	592.390
>	72	Ge			1998894.188	ug/L	2104942.104
	108	Cd	-0.046518	216.456	20.497	ug/L	29.486
	114	Cd	-0.000642	105.839	135.655	ug/L	141.940
>	115	In			1947011.506	ug/L	1982073.555
	208	207.977	0.000377	260.684	582.353	ug/L	558.351
	207	Pb	0.002333	122.088	244.337	ug/L	223.336
	206	Pb	-0.002835	53.892	296.672	ug/L	308.672
>	169	Tm			1373967.532	ug/L	1329102.281
	106	Pd	-0.075026	53.721	37.000	ug/L	55.334
	83	Kr	9.865471	529.773	481.680	ug/L	474.346
	182	W			3.667	ug/L	5.333

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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	99.705
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.962
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.231
	Pb	208	
>	Tm-1	169	103.376
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.962
	Cd	108	
	Cd	114	
>	In	115	98.231
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.376
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 18:58:22
Page 2
Sample ID: Rinse

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

Sample ID: JJXAJB
Sample Description: G6K170000-133 BLK
Batch ID: 6321133
Sample Date/Time: Wednesday, November 22, 2006 19:00:32
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJXAJB.021
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 12
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-1			850991.127	ug/L	854235.854
	9	Be	-0.006837	0.623	1.000	ug/L	3.667
	27	Al	-12.722030	0.641	36043.757	ug/L	134965.982
	52	Cr	-0.318763	21.003	22804.693	ug/L	27671.053
	55	Mn	0.832982	3.863	19337.014	ug/L	4526.170
	59	Co	0.013819	25.832	291.338	ug/L	116.334
	60	Ni	0.265072	1.008	960.882	ug/L	218.354
	65	Cu	0.593738	8.350	2013.463	ug/L	330.637
	68	Zn	0.663149	4.456	3059.535	ug/L	2414.667
	75	As	0.155357	76.654	18368.732	ug/L	18867.308
>	72	Ge-1			2001844.771	ug/L	2104942.104
	111	Cd	-0.006203	62.949	34.091	ug/L	49.935
	121	Sb	0.056288	9.113	1876.868	ug/L	1405.114
	135	Ba	0.102455	4.383	558.685	ug/L	299.672
>	115	In-1			2010757.415	ug/L	1982073.555
	208	Pb	0.111204	4.485	4260.404	ug/L	1090.359
>	169	Tm-1			1396001.084	ug/L	1329102.281
	50	Cr	1.106004	3.222	20.212	ug/L	-304.545
	53	Cr	-40.334833	3.409	9400.492	ug/L	30306.384
	61	Ni	-1.046028	144.878	2473.646	ug/L	2653.794
	63	Cu	0.605757	4.701	1537.378	ug/L	267.345
	67	Zn	-6.528565	13.479	806.771	ug/L	1492.357
	66	Zn	0.941003	4.030	1070.850	ug/L	592.390
>	72	Ge			2001844.771	ug/L	2104942.104
	108	Cd	-0.142763	21.939	2.927	ug/L	29.486
	114	Cd	-0.005245	35.105	112.156	ug/L	141.940
>	115	In			2010757.415	ug/L	1982073.555
	208	207.977	0.116343	9.451	2227.951	ug/L	558.351
	207	Pb	0.109854	0.800	882.044	ug/L	223.336
	206	Pb	0.103142	2.467	1150.409	ug/L	308.672
>	169	Tm			1396001.084	ug/L	1329102.281
	106	Pd	-0.197794	5.474	7.000	ug/L	55.334
	83	Kr	8.071691	274.031	480.347	ug/L	474.346
	182	W			32.334	ug/L	5.333

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Sample ID: JJXAJB

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	99.620
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	95.102
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.447
	Pb	208	
>	Tm-1	169	105.033
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	95.102
	Cd	108	
	Cd	114	
>	In	115	101.447
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	105.033
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: MB CONTROL
Sample Description:
Batch ID: 6321133
Sample Date/Time: Wednesday, November 22, 2006 19:04:22
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\MB CONTROL.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 13
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-1			931534.125	ug/L	854235.854
9	Be	-0.007848	17.287	0.667	ug/L	3.667
27	Al	-2.548456	7.752	116651.105	ug/L	134965.982
52	Cr	1.786809	2.676	48816.799	ug/L	27671.053
55	Mn	2.458571	1.673	51694.930	ug/L	4526.170
59	Co	0.551537	0.958	7787.131	ug/L	116.334
60	Ni	1.039002	1.970	3355.720	ug/L	218.354
65	Cu	1.317024	1.835	4338.351	ug/L	330.637
68	Zn	1.555385	2.354	4338.409	ug/L	2414.667
75	As	-0.578686	6.821	17359.378	ug/L	18867.308
72	Ge-1			2125639.445	ug/L	2104942.104
111	Cd	0.001528	270.837	60.292	ug/L	49.935
121	Sb	-0.071288	6.133	938.384	ug/L	1405.114
135	Ba	0.822295	2.462	2584.715	ug/L	299.672
115	In-1			2212227.343	ug/L	1982073.555
208	Pb	0.230874	0.312	8194.150	ug/L	1090.359
169	Tm-1			1502306.390	ug/L	1329102.281
50	Cr	2.247453	2.296	360.898	ug/L	-304.545
53	Cr	-38.623065	4.077	10855.879	ug/L	30306.384
61	Ni	7.157865	101.288	3039.491	ug/L	2653.794
63	Cu	1.346000	1.324	3298.406	ug/L	267.345
67	Zn	-6.311847	14.546	878.124	ug/L	1492.357
66	Zn	1.976736	3.040	1730.479	ug/L	592.390
72	Ge			2125639.445	ug/L	2104942.104
108	Cd	0.164261	34.246	66.954	ug/L	29.486
114	Cd	-0.001476	153.972	148.465	ug/L	141.940
115	In			2212227.343	ug/L	1982073.555
208	207.977	0.238495	0.666	4254.034	ug/L	558.351
207	Pb	0.236783	0.517	1754.176	ug/L	223.336
206	Pb	0.213098	1.997	2185.940	ug/L	308.672
169	Tm			1502306.390	ug/L	1329102.281
106	Pd	0.335571	1.863	137.334	ug/L	55.334
83	Kr	8.520107	39.736	480.680	ug/L	474.346
182	W			101.002	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:05:55
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Sample ID: MB CONTROL

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	109.049
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.983
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	111.612
	Pb	208	
>	Tm-1	169	113.032
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.983
	Cd	108	
	Cd	114	
>	In	115	111.612
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	113.032
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: JJ71FB
Sample Description: G6K220000-120 BLK
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 19:07:31
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJ71FB.023
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 14
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-1			837197.701	ug/L	854235.854
	9	Be	-0.002387	278.006	2.667	ug/L	3.667
	27	Al	-13.077942	0.679	33898.210	ug/L	134965.982
	52	Cr	-0.759819	3.848	18187.551	ug/L	27671.053
	55	Mn	0.164178	4.157	7363.765	ug/L	4526.170
	59	Co	0.001733	67.842	135.001	ug/L	116.334
	60	Ni	0.079519	3.293	439.312	ug/L	218.354
	65	Cu	0.570103	2.655	1972.442	ug/L	330.637
	68	Zn	0.007211	369.291	2334.645	ug/L	2414.667
	75	As	-0.001983	1362.577	18171.228	ug/L	18867.308
>	72	Ge-1			2027932.766	ug/L	2104942.104
	111	Cd	0.002820	168.429	58.383	ug/L	49.935
	121	Sb	-0.109115	4.635	550.684	ug/L	1405.114
	135	Ba	0.481644	4.200	1505.463	ug/L	299.672
>	115	In-1			2015702.298	ug/L	1982073.555
	208	Pb	0.030921	7.948	2005.423	ug/L	1090.359
>	169	Tm-1			1391706.724	ug/L	1329102.281
	50	Cr	0.903124	8.214	-37.090	ug/L	-304.545
	53	Cr	-40.943616	4.668	9223.334	ug/L	30306.384
	61	Ni	-3.014516	50.682	2411.931	ug/L	2653.794
	63	Cu	0.566731	3.775	1474.348	ug/L	267.345
	67	Zn	-7.080676	9.180	764.761	ug/L	1492.357
	66	Zn	0.516401	13.584	853.117	ug/L	592.390
>	72	Ge			2027932.766	ug/L	2104942.104
	108	Cd	-0.125901	9.518	6.173	ug/L	29.486
	114	Cd	0.001257	229.828	152.002	ug/L	141.940
>	115	In			2015702.298	ug/L	1982073.555
	208	207.977	0.032719	13.397	1045.063	ug/L	558.351
	207	Pb	0.032028	17.985	422.010	ug/L	223.336
	206	Pb	0.026938	11.531	538.350	ug/L	308.672
>	169	Tm			1391706.724	ug/L	1329102.281
	106	Pd	-0.170513	7.332	13.667	ug/L	55.334
	83	Kr	35.874334	78.571	501.014	ug/L	474.346
	182	W			5.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:09:05
Page 1
Sample ID: JJ71FB

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	98.005
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.341
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.697
	Pb	208	
>	Tm-1	169	104.710
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.341
	Cd	108	
	Cd	114	
>	In	115	101.697
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.710
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: MB CONTROL
Sample Description:
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 19:11:21
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\MB CONTROL.024
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 15
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-1			905101.260	ug/L	854235.854
	9	Be	-0.007800	17.923	0.667	ug/L	3.667
	27	Al	-2.103759	5.620	121408.215	ug/L	134965.982
	52	Cr	0.910324	2.553	39006.433	ug/L	27671.053
	55	Mn	0.658095	0.723	17374.901	ug/L	4526.170
	59	Co	1.090973	1.328	15457.645	ug/L	116.334
	60	Ni	0.926670	1.538	3050.149	ug/L	218.354
	65	Cu	1.024148	1.286	3486.075	ug/L	330.637
	68	Zn	1.765477	2.082	4645.900	ug/L	2414.667
	75	As	-0.449073	6.805	17934.206	ug/L	18867.308
>	72	Ge-1			2149105.661	ug/L	2104942.104
	111	Cd	0.002626	220.725	63.129	ug/L	49.935
	121	Sb	-0.102392	1.751	661.025	ug/L	1405.114
	135	Ba	1.410695	2.651	4176.664	ug/L	299.672
>	115	In-1			2202648.701	ug/L	1982073.555
	208	Pb	0.105452	0.883	4398.093	ug/L	1090.359
>	169	Tm-1			1497506.442	ug/L	1329102.281
	50	Cr	1.775883	6.845	223.270	ug/L	-304.545
	53	Cr	-39.885161	3.944	10321.402	ug/L	30306.384
	61	Ni	4.213574	82.266	2923.370	ug/L	2653.794
	63	Cu	1.036120	2.742	2630.441	ug/L	267.345
	67	Zn	-5.769081	17.810	942.143	ug/L	1492.357
	66	Zn	2.230639	4.518	1896.909	ug/L	592.390
>	72	Ge			2149105.661	ug/L	2104942.104
	108	Cd	0.143038	27.067	62.288	ug/L	29.486
	114	Cd	0.001835	127.281	170.046	ug/L	141.940
>	115	In			2202648.701	ug/L	1982073.555
	208	207.977	0.108453	2.763	2271.295	ug/L	558.351
	207	Pb	0.108749	3.415	939.050	ug/L	223.336
	206	Pb	0.097737	3.614	1187.747	ug/L	308.672
>	169	Tm			1497506.442	ug/L	1329102.281
	106	Pd	0.300104	18.312	128.668	ug/L	55.334
	83	Kr	4.484264	566.307	477.680	ug/L	474.346
	182	W			85.335	ug/L	5.333

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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	105.954
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	102.098
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	111.129
	Pb	208	
>	Tm-1	169	112.671
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	102.098
	Cd	108	
	Cd	114	
>	In	115	111.129
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	112.671
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 19:14:32

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 3.025

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
>	6	Li-1			824887.057	ug/L	854235.854
	9	Be	100.166079	1.133	37673.937	ug/L	3.667
	27	Al	4926.834960	1.245	36581199.598	ug/L	134965.982
	52	Cr	97.007818	1.051	1115264.857	ug/L	27671.053
	55	Mn	97.014983	0.364	1790202.246	ug/L	4526.170
	59	Co	98.913158	0.634	1321002.893	ug/L	116.334
	60	Ni	97.137057	0.421	281685.369	ug/L	218.354
	65	Cu	99.507768	0.406	290854.078	ug/L	330.637
	68	Zn	98.318283	0.547	117670.982	ug/L	2414.667
	75	As	98.702006	0.459	295605.730	ug/L	18867.308
>	72	Ge-1			2041223.366	ug/L	2104942.104
	111	Cd	97.555245	0.615	259643.248	ug/L	49.935
	121	Sb	49.031784	0.213	392417.073	ug/L	1405.114
	135	Ba	98.026260	0.590	242538.368	ug/L	299.672
>	115	In-1			1997528.226	ug/L	1982073.555
	208	Pb	99.046043	0.497	2734452.081	ug/L	1090.359
>	169	Tm-1			1374973.191	ug/L	1329102.281
	50	Cr	90.878648	2.088	25659.018	ug/L	-304.545
	53	Cr	85.639295	0.383	71430.858	ug/L	30306.384
	61	Ni	95.755331	6.070	7205.975	ug/L	2653.794
	63	Cu	98.485498	0.888	213054.088	ug/L	267.345
	67	Zn	96.947914	1.265	10717.684	ug/L	1492.357
	66	Zn	100.659632	0.713	55937.873	ug/L	592.390
>	72	Ge			2041223.366	ug/L	2104942.104
	108	Cd	97.023806	0.955	18220.615	ug/L	29.486
	114	Cd	98.213858	0.875	592613.983	ug/L	141.940
>	115	In			1997528.226	ug/L	1982073.555
	208	207.977	98.643750	0.633	1371927.587	ug/L	558.351
	207	Pb	100.059670	0.545	581034.170	ug/L	223.336
	206	Pb	99.009169	0.856	781490.324	ug/L	308.672
>	169	Tm			1374973.191	ug/L	1329102.281
	106	Pd	99.481566	1.255	24364.879	ug/L	55.334
	83	Kr	60.986449	48.446	519.682	ug/L	474.346
	182	W			91.001	ug/L	5.333

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Sample ID: CCV 3

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	96.564
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.973
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.780
	Pb	208	
>	Tm-1	169	103.451
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.973
	Cd	108	
	Cd	114	
>	In	115	100.780
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.451
	Pd	106	
	Kr	83	
	W	182	

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 19:18:18
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 3.026
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
>	6	Li-1			848724.080	ug/L	854235.854
	9	Be	-0.003377	45.402	2.333	ug/L	3.667
	27	Al	2.010379	38.136	145229.762	ug/L	134965.982
	52	Cr	-0.380692	24.735	22477.842	ug/L	27671.053
	55	Mn	-0.007157	128.995	4242.028	ug/L	4526.170
	59	Co	0.002223	39.701	142.001	ug/L	116.334
	60	Ni	-0.001760	158.685	205.922	ug/L	218.354
	65	Cu	-0.029247	6.783	234.644	ug/L	330.637
	68	Zn	-0.472711	9.472	1782.182	ug/L	2414.667
	75	As	-0.145749	215.668	17819.079	ug/L	18867.308
>	72	Ge-1			2035287.590	ug/L	2104942.104
	111	Cd	-0.004631	63.232	37.822	ug/L	49.935
	121	Sb	0.034402	83.489	1673.828	ug/L	1405.114
	135	Ba	0.015815	36.640	338.340	ug/L	299.672
>	115	In-1			1982210.332	ug/L	1982073.555
	208	Pb	0.001256	268.844	1162.030	ug/L	1090.359
>	169	Tm-1			1374228.125	ug/L	1329102.281
	50	Cr	0.503005	8.486	-151.454	ug/L	-304.545
	53	Cr	-13.561818	18.161	22645.808	ug/L	30306.384
	61	Ni	-3.565695	75.321	2393.585	ug/L	2653.794
	63	Cu	-0.027720	38.542	198.673	ug/L	267.345
	67	Zn	-1.436163	51.785	1304.939	ug/L	1492.357
	66	Zn	0.069152	146.401	609.726	ug/L	592.390
>	72	Ge			2035287.590	ug/L	2104942.104
	108	Cd	0.062471	168.016	40.918	ug/L	29.486
	114	Cd	0.005319	47.196	173.659	ug/L	141.940
>	115	In			1982210.332	ug/L	1982073.555
	208	207.977	0.001108	282.690	593.020	ug/L	558.351
	207	Pb	0.001481	219.646	239.337	ug/L	223.336
	206	Pb	0.001350	416.216	329.673	ug/L	308.672
>	169	Tm			1374228.125	ug/L	1329102.281
	106	Pd	0.006821	572.363	57.000	ug/L	55.334
	83	Kr	38.116479	63.169	502.681	ug/L	474.346
	182	W			4.333	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	99.355
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.691
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.007
	Pb	208	
>	Tm-1	169	103.395
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.691
	Cd	108	
	Cd	114	
>	In	115	100.007
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.395
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 19:19:54
Page 2
Sample ID: CCB 3

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 19:22:05
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 4.027
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			819710.942	ug/L	854235.854
	9	Be	100.772050	0.603	37662.887	ug/L	3.667
	27	Al	4770.887945	1.482	36701549.278	ug/L	134965.982
	52	Cr	94.807003	1.329	1129611.819	ug/L	27671.053
	55	Mn	95.990019	1.132	1834854.017	ug/L	4526.170
	59	Co	96.844086	1.088	1339713.233	ug/L	116.334
	60	Ni	97.151012	1.625	291806.957	ug/L	218.354
	65	Cu	98.166333	0.992	297225.896	ug/L	330.637
	68	Zn	96.867685	1.311	120125.301	ug/L	2414.667
	75	As	98.089553	1.430	304409.941	ug/L	18867.308
>	72	Ge-1			2114624.514	ug/L	2104942.104
	111	Cd	98.405991	0.762	261513.649	ug/L	49.935
	121	Sb	49.745585	1.112	397508.102	ug/L	1405.114
	135	Ba	98.592753	0.916	243583.037	ug/L	299.672
>	115	In-1			1994584.578	ug/L	1982073.555
	208	Pb	99.766723	0.833	2752322.277	ug/L	1090.359
>	169	Tm-1			1373939.975	ug/L	1329102.281
	50	Cr	96.129149	0.809	28135.353	ug/L	-304.545
	53	Cr	84.469299	2.367	73394.556	ug/L	30306.384
	61	Ni	96.338106	4.258	7492.976	ug/L	2653.794
	63	Cu	98.246159	1.793	220150.976	ug/L	267.345
	67	Zn	95.550539	2.277	10963.873	ug/L	1492.357
	66	Zn	100.136986	2.162	57643.853	ug/L	592.390
>	72	Ge			2114624.514	ug/L	2104942.104
	108	Cd	98.060355	1.293	18387.121	ug/L	29.486
	114	Cd	98.639906	0.685	594289.184	ug/L	141.940
>	115	In			1994584.578	ug/L	1982073.555
	208	207.977	99.495995	0.830	1382792.200	ug/L	558.351
	207	Pb	100.004880	0.779	580298.913	ug/L	223.336
	206	Pb	100.068554	1.668	789231.164	ug/L	308.672
>	169	Tm			1373939.975	ug/L	1329102.281
	106	Pd	101.247575	1.656	24796.425	ug/L	55.334
	83	Kr	91.479781	12.679	542.350	ug/L	474.346
	182	W			107.669	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	95.958
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.460
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.631
	Pb	208	
>	Tm-1	169	103.374
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.460
	Cd	108	
	Cd	114	
>	In	115	100.631
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.374
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 19:23:39
Page 2
Sample ID: CCV 4

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: Wednesday, November 22, 2006 19:25:51
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 4.028
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			863759.227	ug/L	854235.854
	9	Be	0.005831	243.273	6.000	ug/L	3.667
	27	Al	2.174784	2.465	149170.457	ug/L	134965.982
	52	Cr	-0.387351	11.427	22825.077	ug/L	27671.053
	55	Mn	-0.010882	38.616	4251.700	ug/L	4526.170
	59	Co	0.004780	34.881	179.335	ug/L	116.334
	60	Ni	0.003292	64.961	224.589	ug/L	218.354
	65	Cu	-0.037123	9.079	215.435	ug/L	330.637
	68	Zn	-0.594645	13.202	1668.493	ug/L	2414.667
	75	As	-0.093548	73.857	18303.288	ug/L	18867.308
>	72	Ge-1			2071784.825	ug/L	2104942.104
	111	Cd	-0.004001	117.228	39.746	ug/L	49.935
	121	Sb	0.033612	60.633	1691.165	ug/L	1405.114
	135	Ba	0.004662	60.585	314.672	ug/L	299.672
>	115	In-1			2004506.768	ug/L	1982073.555
	208	Pb	0.003184	22.914	1226.700	ug/L	1090.359
>	169	Tm-1			1387341.150	ug/L	1329102.281
	50	Cr	0.600861	19.278	-125.639	ug/L	-304.545
	53	Cr	-14.230980	7.228	22739.132	ug/L	30306.384
	61	Ni	-1.524998	58.716	2537.030	ug/L	2653.794
	63	Cu	-0.027564	8.440	202.673	ug/L	267.345
	67	Zn	-1.329560	56.468	1339.955	ug/L	1492.357
	66	Zn	-0.051317	81.941	554.383	ug/L	592.390
>	72	Ge			2071784.825	ug/L	2104942.104
	108	Cd	0.041560	101.235	37.671	ug/L	29.486
	114	Cd	0.001511	246.916	152.815	ug/L	141.940
>	115	In			2004506.768	ug/L	1982073.555
	208	207.977	0.003466	48.818	631.356	ug/L	558.351
	207	Pb	0.003790	14.983	255.337	ug/L	223.336
	206	Pb	0.002242	71.716	340.007	ug/L	308.672
>	169	Tm			1387341.150	ug/L	1329102.281
	106	Pd	0.019097	107.143	60.000	ug/L	55.334
	83	Kr	35.874340	88.185	501.014	ug/L	474.346
	182	W			4.000	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 19:27:26
Page 1
Sample ID: CCB 4

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	101.115
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	98.425
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.132
	Pb	208	
>	Tm-1	169	104.382
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	98.425
	Cd	108	
	Cd	114	
>	In	115	101.132
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.382
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 19:27:26
Page 2
Sample ID: CCB 4

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: Wednesday, November 22, 2006 20:06:55
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 5.039
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
>	6	Li-1			802584.822	ug/L	854235.854
	9	Be	100.468120	2.021	36758.719	ug/L	3.667
	27	Al	4990.242150	1.640	36378773.987	ug/L	134965.982
	52	Cr	96.970133	0.287	1094603.526	ug/L	27671.053
	55	Mn	97.003826	0.473	1757564.005	ug/L	4526.170
	59	Co	97.853637	0.931	1283153.801	ug/L	116.334
	60	Ni	96.576280	0.614	274984.774	ug/L	218.354
	65	Cu	99.033869	1.235	284217.538	ug/L	330.637
	68	Zn	98.043211	0.969	115220.004	ug/L	2414.667
	75	As	98.932001	0.516	290877.930	ug/L	18867.308
>	72	Ge-1			2004241.578	ug/L	2104942.104
	111	Cd	97.911312	0.626	259274.559	ug/L	49.935
	121	Sb	49.139810	1.657	391266.296	ug/L	1405.114
	135	Ba	98.773651	1.210	243137.769	ug/L	299.672
>	115	In-1			1987544.637	ug/L	1982073.555
	208	Pb	97.517609	0.362	2695640.328	ug/L	1090.359
>	169	Tm-1			1376660.509	ug/L	1329102.281
	50	Cr	91.457996	7.091	25356.542	ug/L	-304.545
	53	Cr	87.266043	1.958	70918.727	ug/L	30306.384
	61	Ni	97.651370	0.553	7165.205	ug/L	2653.794
	63	Cu	98.118874	0.720	208423.822	ug/L	267.345
	67	Zn	96.921671	0.783	10520.681	ug/L	1492.357
	66	Zn	100.903157	1.780	55055.819	ug/L	592.390
>	72	Ge			2004241.578	ug/L	2104942.104
	108	Cd	97.835262	2.176	18277.742	ug/L	29.486
	114	Cd	97.706695	0.962	586558.333	ug/L	141.940
>	115	In			1987544.637	ug/L	1982073.555
	208	207.977	97.100951	0.499	1352181.572	ug/L	558.351
	207	Pb	98.337792	0.775	571750.130	ug/L	223.336
	206	Pb	97.648371	0.858	771708.625	ug/L	308.672
>	169	Tm			1376660.509	ug/L	1329102.281
	106	Pd	99.326982	0.427	24327.104	ug/L	55.334
	83	Kr	54.259988	57.097	514.682	ug/L	474.346
	182	W			99.002	ug/L	5.333

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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	93.954
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	95.216
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.276
	Pb	208	
>	Tm-1	169	103.578
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	95.216
	Cd	108	
	Cd	114	
>	In	115	100.276
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.578
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001
BJones

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 20:10:42
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 5.040
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
>	6	Li-1			808611.784	ug/L	854235.854
	9	Be	-0.002198	139.071	2.667	ug/L	3.667
	27	Al	2.943549	5.566	151276.203	ug/L	134965.982
	52	Cr	-0.118900	91.689	25270.499	ug/L	27671.053
	55	Mn	-0.005004	236.881	4257.037	ug/L	4526.170
	59	Co	0.007075	15.071	205.336	ug/L	116.334
	60	Ni	0.002563	141.277	217.261	ug/L	218.354
	65	Cu	-0.032450	6.745	223.918	ug/L	330.637
	68	Zn	-0.574248	2.752	1652.823	ug/L	2414.667
	75	As	-0.179904	14.687	17630.617	ug/L	18867.308
>	72	Ge-1			2022888.221	ug/L	2104942.104
	111	Cd	-0.003780	172.916	40.886	ug/L	49.935
	121	Sb	0.027995	62.002	1665.493	ug/L	1405.114
	135	Ba	0.023024	46.387	364.674	ug/L	299.672
>	115	In-1			2027930.620	ug/L	1982073.555
	208	Pb	0.006098	16.478	1301.704	ug/L	1090.359
>	169	Tm-1			1380665.741	ug/L	1329102.281
	50	Cr	0.722710	11.916	-88.291	ug/L	-304.545
	53	Cr	-9.323903	24.256	24583.754	ug/L	30306.384
	61	Ni	-0.518591	490.760	2525.689	ug/L	2653.794
	63	Cu	-0.034501	41.093	183.339	ug/L	267.345
	67	Zn	-0.674712	166.396	1369.968	ug/L	1492.357
	66	Zn	0.141373	49.711	646.067	ug/L	592.390
>	72	Ge			2022888.221	ug/L	2104942.104
	108	Cd	0.025952	56.587	35.091	ug/L	29.486
	114	Cd	0.000317	1534.427	146.771	ug/L	141.940
>	115	In			2027930.620	ug/L	1982073.555
	208	207.977	0.007017	13.094	678.026	ug/L	558.351
	207	Pb	0.007946	10.384	278.338	ug/L	223.336
	206	Pb	0.003120	76.202	345.340	ug/L	308.672
>	169	Tm			1380665.741	ug/L	1329102.281
	106	Pd	-0.015005	166.639	51.667	ug/L	55.334
	83	Kr	11.210735	389.646	482.680	ug/L	474.346
	182	W			10.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:12:17
Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	94.659
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.102
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.314
	Pb	208	
>	Tm-1	169	103.880
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.102
	Cd	108	
	Cd	114	
>	In	115	102.314
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.880
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 6

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 20:14:28

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 6.041

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
>	6	Li-1			795390.914	ug/L	854235.854
	9	Be	101.420362	1.226	36776.797	ug/L	3.667
	27	Al	5021.383411	0.670	37490413.789	ug/L	134965.982
	52	Cr	96.003601	0.187	1110150.823	ug/L	27671.053
	55	Mn	95.749614	1.080	1776819.676	ug/L	4526.170
	59	Co	98.326988	0.272	1320509.278	ug/L	116.334
	60	Ni	96.374952	0.987	281037.766	ug/L	218.354
	65	Cu	98.983821	0.463	290944.667	ug/L	330.637
	68	Zn	96.891358	1.003	116648.109	ug/L	2414.667
	75	As	98.398086	0.497	296400.280	ug/L	18867.308
>	72	Ge-1			2052670.934	ug/L	2104942.104
	111	Cd	97.844895	1.761	263317.450	ug/L	49.935
	121	Sb	49.288464	1.506	398875.668	ug/L	1405.114
	135	Ba	98.678253	1.955	246867.985	ug/L	299.672
>	115	In-1			2020092.629	ug/L	1982073.555
	208	Pb	96.051937	0.476	2672066.075	ug/L	1090.359
>	169	Tm-1			1385439.525	ug/L	1329102.281
	50	Cr	91.007672	2.715	25838.019	ug/L	-304.545
	53	Cr	89.485237	1.037	73729.308	ug/L	30306.384
	61	Ni	97.739544	2.731	7342.618	ug/L	2653.794
	63	Cu	98.555070	0.493	214407.116	ug/L	267.345
	67	Zn	97.539145	2.181	10834.085	ug/L	1492.357
	66	Zn	99.764085	0.682	55757.708	ug/L	592.390
>	72	Ge			2052670.934	ug/L	2104942.104
	108	Cd	99.379799	0.363	18872.555	ug/L	29.486
	114	Cd	97.478905	1.720	594726.420	ug/L	141.940
>	115	In			2020092.629	ug/L	1982073.555
	208	207.977	95.747442	0.604	1341872.437	ug/L	558.351
	207	Pb	96.745062	0.697	566081.363	ug/L	223.336
	206	Pb	96.078537	0.891	764112.275	ug/L	308.672
>	169	Tm			1385439.525	ug/L	1329102.281
	106	Pd	101.284500	1.296	24805.448	ug/L	55.334
	83	Kr	115.246721	17.275	560.018	ug/L	474.346
	182	W			86.668	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:16:03

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	93.111
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	97.517
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.918
	Pb	208	
>	Tm-1	169	104.239
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.517
	Cd	108	
	Cd	114	
>	In	115	101.918
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.239
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 20:16:03
Page 2
Sample ID: CCV 6

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 20:18:14
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 6.042
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
>	6	Li-1			772773.501	ug/L	854235.854
	9	Be	0.007618	37.643	6.000	ug/L	3.667
	27	Al	3.234225	17.477	153955.960	ug/L	134965.982
	52	Cr	0.106954	107.501	27875.037	ug/L	27671.053
	55	Mn	-0.000695	818.271	4352.416	ug/L	4526.170
	59	Co	0.008522	12.001	225.336	ug/L	116.334
	60	Ni	0.003915	96.152	221.831	ug/L	218.354
	65	Cu	-0.026580	6.266	241.757	ug/L	330.637
	68	Zn	-0.506295	14.908	1738.506	ug/L	2414.667
	75	As	0.200801	77.493	18755.836	ug/L	18867.308
>	72	Ge-1			2030346.878	ug/L	2104942.104
	111	Cd	0.002693	305.474	58.477	ug/L	49.935
	121	Sb	0.036455	69.646	1725.171	ug/L	1405.114
	135	Ba	0.013359	48.778	339.007	ug/L	299.672
>	115	In-1			2022177.653	ug/L	1982073.555
	208	Pb	0.008494	31.224	1349.040	ug/L	1090.359
>	169	Tm-1			1362017.491	ug/L	1329102.281
	50	Cr	0.806596	5.298	-64.654	ug/L	-304.545
	53	Cr	-6.367713	40.777	26114.099	ug/L	30306.384
	61	Ni	1.896558	80.001	2651.459	ug/L	2653.794
	63	Cu	-0.029213	23.900	195.006	ug/L	267.345
	67	Zn	0.968796	75.760	1531.376	ug/L	1492.357
	66	Zn	0.137672	14.361	646.734	ug/L	592.390
>	72	Ge			2030346.878	ug/L	2104942.104
	108	Cd	0.057050	11.766	40.904	ug/L	29.486
	114	Cd	0.003609	39.514	166.737	ug/L	141.940
>	115	In			2022177.653	ug/L	1982073.555
	208	207.977	0.008337	44.467	686.694	ug/L	558.351
	207	Pb	0.009966	38.598	286.005	ug/L	223.336
	206	Pb	0.007686	26.042	376.341	ug/L	308.672
>	169	Tm			1362017.491	ug/L	1329102.281
	106	Pd	0.004092	642.910	56.334	ug/L	55.334
	83	Kr	23.318314	158.453	491.681	ug/L	474.346
	182	W			9.000	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	90.464
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.456
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.023
	Pb	208	
>	Tm-1	169	102.476
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.456
	Cd	108	
	Cd	114	
>	In	115	102.023
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.476
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 20:19:49
Page 2
Sample ID: CCB 6

Sample ID: JJACE
Sample Description: G6K090141-1
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 20:25:47
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJACE.044
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
>	6	Li-1			784517.441	ug/L	854235.854
	9	Be	0.000822	515.743	3.667	ug/L	3.667
	27	Al	242.478050	1.079	1924239.354	ug/L	134965.982
	52	Cr	1.168990	5.753	39935.606	ug/L	27671.053
	55	Mn	8.917112	1.789	168472.877	ug/L	4526.170
	59	Co	0.291426	1.741	4003.583	ug/L	116.334
	60	Ni	0.808670	4.111	2553.890	ug/L	218.354
	65	Cu	10.287244	1.490	30345.959	ug/L	330.637
	68	Zn	5.888578	2.606	9246.217	ug/L	2414.667
	75	As	0.646955	24.607	20106.993	ug/L	18867.308
>	72	Ge-1			2040669.591	ug/L	2104942.104
	111	Cd	0.046090	17.719	176.737	ug/L	49.935
	121	Sb	-0.021907	15.659	1269.759	ug/L	1405.114
	135	Ba	5.680992	2.805	14667.284	ug/L	299.672
>	115	In-1			2043708.244	ug/L	1982073.555
	208	Pb	1.565356	1.043	44813.403	ug/L	1090.359
>	169	Tm-1			1390096.668	ug/L	1329102.281
	50	Cr	3.817687	4.942	794.447	ug/L	-304.545
	53	Cr	-36.284688	4.225	11576.475	ug/L	30306.384
	61	Ni	-1.649778	91.756	2492.661	ug/L	2653.794
	63	Cu	10.315868	0.767	22542.347	ug/L	267.345
	67	Zn	-0.652102	142.235	1384.641	ug/L	1492.357
	66	Zn	6.730376	3.340	4274.589	ug/L	592.390
>	72	Ge			2040669.591	ug/L	2104942.104
	108	Cd	0.105863	74.371	50.783	ug/L	29.486
	114	Cd	0.030524	13.610	334.464	ug/L	141.940
>	115	In			2043708.244	ug/L	1982073.555
	208	207.977	1.620095	1.548	23354.798	ug/L	558.351
	207	Pb	1.611621	1.264	9691.030	ug/L	223.336
	206	Pb	1.434861	0.986	11767.574	ug/L	308.672
>	169	Tm			1390096.668	ug/L	1329102.281
	106	Pd	0.418782	15.212	157.668	ug/L	55.334
	83	Kr	0.448397	4371.813	474.680	ug/L	474.346
	182	W			936.474	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	91.839
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.947
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.110
	Pb	208	
>	Tm-1	169	104.589
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.947
	Cd	108	
	Cd	114	
>	In	115	103.110
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.589
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001
BJones

Sample ID: JJACEP5
Sample Description: G6K090141-1 5X
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 20:29:34
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJACEP5.045
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
>	6	Li-1			783389.745	ug/L	854235.854
	9	Be	-0.005678	28.692	1.333	ug/L	3.667
	27	Al	37.181415	1.829	407657.766	ug/L	134965.982
	52	Cr	0.520046	18.649	32814.850	ug/L	27671.053
	55	Mn	2.021734	1.749	41771.817	ug/L	4526.170
	59	Co	0.062540	5.222	951.385	ug/L	116.334
	60	Ni	0.172746	16.018	714.352	ug/L	218.354
	65	Cu	2.054040	1.046	6343.323	ug/L	330.637
	68	Zn	7.350632	1.457	11007.920	ug/L	2414.667
	75	As	0.296452	11.501	19209.204	ug/L	18867.308
>	72	Ge-1			2049659.782	ug/L	2104942.104
	111	Cd	0.004584	40.291	63.853	ug/L	49.935
	121	Sb	-0.110594	1.795	546.017	ug/L	1405.114
	135	Ba	1.164736	3.650	3249.603	ug/L	299.672
>	115	In-1			2041895.145	ug/L	1982073.555
	208	Pb	0.346190	2.412	10697.200	ug/L	1090.359
>	169	Tm-1			1377094.437	ug/L	1329102.281
	50	Cr	1.211439	10.388	50.442	ug/L	-304.545
	53	Cr	-2.856878	121.013	28117.730	ug/L	30306.384
	61	Ni	1.434904	227.767	2654.798	ug/L	2653.794
	63	Cu	2.080238	0.659	4773.544	ug/L	267.345
	67	Zn	6.348208	0.191	2062.681	ug/L	1492.357
	66	Zn	8.367396	2.080	5198.991	ug/L	592.390
>	72	Ge			2049659.782	ug/L	2104942.104
	108	Cd	-0.114007	44.472	8.632	ug/L	29.486
	114	Cd	-0.001072	235.192	139.791	ug/L	141.940
>	115	In			2041895.145	ug/L	1982073.555
	208	207.977	0.359431	2.742	5582.781	ug/L	558.351
	207	Pb	0.363946	5.245	2346.648	ug/L	223.336
	206	Pb	0.309795	1.141	2767.771	ug/L	308.672
>	169	Tm			1377094.437	ug/L	1329102.281
	106	Pd	-0.066841	28.057	39.000	ug/L	55.334
	83	Kr	42.152374	88.234	505.681	ug/L	474.346
	182	W			202.007	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:31:09
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	91.706
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	97.374
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.018
	Pb	208	
>	Tm-1	169	103.611
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	97.374
	Cd	108	
	Cd	114	
>	In	115	103.018
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.611
	Pd	106	
	Kr	83	
	W	182	

Sample ID: JJACEZ
Sample Description: G6K090141-1 PS
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 20:33:21
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJACEZ.046
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
>	6	Li-1			744988.735	ug/L	854235.854
	9	Be	192.702349	0.767	65446.244	ug/L	3.667
	27	Al	1141.785255	1.012	8481124.089	ug/L	134965.982
	52	Cr	177.525276	2.368	1995327.071	ug/L	27671.053
	55	Mn	189.338373	2.361	3449495.092	ug/L	4526.170
	59	Co	181.053910	1.632	2390282.586	ug/L	116.334
	60	Ni	182.479542	1.791	522913.031	ug/L	218.354
	65	Cu	196.085813	2.436	566240.538	ug/L	330.637
	68	Zn	201.887581	0.928	236434.543	ug/L	2414.667
	75	As	183.980439	1.303	529075.749	ug/L	18867.308
>	72	Ge-1			2018137.870	ug/L	2104942.104
	111	Cd	179.914226	1.061	493522.209	ug/L	49.935
	121	Sb	43.202494	3.381	356561.853	ug/L	1405.114
	135	Ba	189.985448	0.841	484239.668	ug/L	299.672
>	115	In-1			2059092.723	ug/L	1982073.555
	208	Pb	183.954992	0.992	5098693.973	ug/L	1090.359
>	169	Tm-1			1380719.736	ug/L	1329102.281
	50	Cr	157.850343	5.480	44259.350	ug/L	-304.545
	53	Cr	146.568470	4.302	100169.867	ug/L	30306.384
	61	Ni	180.819660	1.158	11192.008	ug/L	2653.794
	63	Cu	192.501718	1.873	411431.153	ug/L	267.345
	67	Zn	194.140397	1.925	19784.453	ug/L	1492.357
	66	Zn	202.302808	2.639	110553.060	ug/L	592.390
>	72	Ge			2018137.870	ug/L	2104942.104
	108	Cd	178.615958	0.622	34549.967	ug/L	29.486
	114	Cd	177.120783	1.320	1101460.645	ug/L	141.940
>	115	In			2059092.723	ug/L	1982073.555
	208	207.977	187.001932	0.598	2611173.306	ug/L	558.351
	207	Pb	191.204665	1.516	1114716.486	ug/L	223.336
	206	Pb	173.252147	1.676	1372804.180	ug/L	308.672
>	169	Tm			1380719.736	ug/L	1329102.281
	106	Pd	191.347956	0.323	46813.563	ug/L	55.334
	83	Kr	56.502130	41.056	516.349	ug/L	474.346
	182	W			1015.498	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	87.211
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	95.876
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.886
	Pb	208	
>	Tm-1	169	103.884
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	95.876
	Cd	108	
	Cd	114	
>	In	115	103.886
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.884
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 20:34:56
Page 2
Sample ID: JJACEZ

SOP No. SAC-MT-0001
BJones

Sample ID: JJMHA
Sample Description: G6K140165-1
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 20:52:22
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJMHA.051
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 45
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-1			745335.452	ug/L	854235.854
	9	Be	-0.005480	62.223	1.333	ug/L	3.667
	27	Al	60.825375	1.861	556894.635	ug/L	134965.982
	52	Cr	1.232457	7.826	38981.000	ug/L	27671.053
	55	Mn	4.491795	1.697	83473.277	ug/L	4526.170
	59	Co	0.310459	2.783	4082.953	ug/L	116.334
	60	Ni	0.747150	4.402	2278.076	ug/L	218.354
	65	Cu	6.270087	2.478	17856.158	ug/L	330.637
	68	Zn	2.698176	2.239	5279.593	ug/L	2414.667
	75	As	0.569919	27.091	19077.525	ug/L	18867.308
>	72	Ge-1			1957084.174	ug/L	2104942.104
	111	Cd	0.035593	20.304	145.324	ug/L	49.935
	121	Sb	-0.068327	4.383	872.377	ug/L	1405.114
	135	Ba	2.240802	1.727	5847.620	ug/L	299.672
>	115	In-1			2000546.559	ug/L	1982073.555
	208	Pb	0.707372	1.126	20694.418	ug/L	1090.359
>	169	Tm-1			1378002.103	ug/L	1329102.281
	50	Cr	2.714724	9.526	459.969	ug/L	-304.545
	53	Cr	-33.745847	6.383	12289.545	ug/L	30306.384
	61	Ni	3.271847	48.754	2618.764	ug/L	2653.794
	63	Cu	6.360503	2.745	13422.771	ug/L	267.345
	67	Zn	-3.050924	43.813	1107.198	ug/L	1492.357
	66	Zn	3.648769	3.604	2475.314	ug/L	592.390
>	72	Ge			1957084.174	ug/L	2104942.104
	108	Cd	0.062801	58.251	41.546	ug/L	29.486
	114	Cd	0.013076	22.043	222.311	ug/L	141.940
>	115	In			2000546.559	ug/L	1982073.555
	208	207.977	0.725690	0.391	10690.193	ug/L	558.351
	207	Pb	0.728746	4.210	4470.476	ug/L	223.336
	206	Pb	0.659368	0.628	5533.749	ug/L	308.672
>	169	Tm			1378002.103	ug/L	1329102.281
	106	Pd	0.282371	12.990	124.334	ug/L	55.334
	83	Kr	-58.295618	42.739	431.011	ug/L	474.346
	182	W			304.015	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 20:53:58
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	87.252
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	92.976
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.932
	Pb	208	
>	Tm-1	169	103.679
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	92.976
	Cd	108	
	Cd	114	
>	In	115	100.932
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.679
	Pd	106	
	Kr	83	
	W	182	

Sample ID: JJMHE
Sample Description: G6K140165-2
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 20:56:07
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJMHE.052
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 46
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
>	6	Li-1			748989.935	ug/L	854235.854
	9	Be	-0.003557	81.319	2.000	ug/L	3.667
	27	Al	79.501740	0.346	697276.188	ug/L	134965.982
	52	Cr	1.287655	2.370	40028.015	ug/L	27671.053
	55	Mn	4.195123	1.123	79135.929	ug/L	4526.170
	59	Co	3.356305	1.543	43567.535	ug/L	116.334
	60	Ni	0.664509	2.129	2072.435	ug/L	218.354
	65	Cu	8.031016	2.182	23046.468	ug/L	330.637
	68	Zn	4.036731	2.623	6862.357	ug/L	2414.667
	75	As	0.507023	42.136	19123.051	ug/L	18867.308
>	72	Ge-1			1979364.966	ug/L	2104942.104
	111	Cd	0.029942	15.462	132.955	ug/L	49.935
	121	Sb	-0.055916	14.095	992.390	ug/L	1405.114
	135	Ba	2.809800	1.829	7409.136	ug/L	299.672
>	115	In-1			2042937.300	ug/L	1982073.555
	208	Pb	0.655671	0.654	19179.484	ug/L	1090.359
>	169	Tm-1			1371917.144	ug/L	1329102.281
	50	Cr	2.859816	11.199	505.352	ug/L	-304.545
	53	Cr	-33.938331	6.792	12338.085	ug/L	30306.384
	61	Ni	1.168415	255.265	2550.376	ug/L	2653.794
	63	Cu	7.950690	0.974	16909.965	ug/L	267.345
	67	Zn	-2.002197	64.834	1217.238	ug/L	1492.357
	66	Zn	4.780130	2.607	3106.544	ug/L	592.390
>	72	Ge			1979364.966	ug/L	2104942.104
	108	Cd	0.130924	32.011	55.447	ug/L	29.486
	114	Cd	0.017488	35.971	254.438	ug/L	141.940
>	115	In			2042937.300	ug/L	1982073.555
	208	207.977	0.679802	1.533	10005.718	ug/L	558.351
	207	Pb	0.665323	1.447	4084.287	ug/L	223.336
	206	Pb	0.606048	0.567	5089.480	ug/L	308.672
>	169	Tm			1371917.144	ug/L	1329102.281
	106	Pd	0.298740	6.474	128.334	ug/L	55.334
	83	Kr	-44.842769	105.257	441.011	ug/L	474.346
	182	W			415.028	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	87.680
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.034
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.071
	Pb	208	
>	Tm-1	169	103.221
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.034
	Cd	108	
	Cd	114	
>	In	115	103.071
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.221
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 20:57:40
Page 2
Sample ID: JJMHE

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

Sample ID: CCV 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 20:59:51
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 7.053
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
>	6	Li-1			759492.694	ug/L	854235.854
	9	Be	103.442415	2.589	35800.767	ug/L	3.667
	27	Al	5149.770654	0.665	37429175.789	ug/L	134965.982
	52	Cr	97.237337	0.810	1094340.487	ug/L	27671.053
	55	Mn	95.868119	0.854	1731957.284	ug/L	4526.170
	59	Co	98.562004	0.693	1288747.012	ug/L	116.334
	60	Ni	97.417505	1.183	276557.925	ug/L	218.354
	65	Cu	99.324901	1.861	284207.659	ug/L	330.637
	68	Zn	96.991543	0.966	113676.666	ug/L	2414.667
	75	As	98.639275	0.242	289232.208	ug/L	18867.308
>	72	Ge-1			1998461.551	ug/L	2104942.104
	111	Cd	97.858843	1.622	259733.368	ug/L	49.935
	121	Sb	49.137476	0.265	392199.890	ug/L	1405.114
	135	Ba	98.933593	1.070	244109.673	ug/L	299.672
>	115	In-1			1992179.556	ug/L	1982073.555
	208	Pb	96.163165	2.450	2634751.038	ug/L	1090.359
>	169	Tm-1			1364878.621	ug/L	1329102.281
	50	Cr	93.402609	3.673	25830.597	ug/L	-304.545
	53	Cr	92.802057	2.578	73370.704	ug/L	30306.384
	61	Ni	94.405996	6.003	6992.158	ug/L	2653.794
	63	Cu	98.244980	0.247	208091.208	ug/L	267.345
	67	Zn	98.698633	2.618	10656.143	ug/L	1492.357
	66	Zn	99.657629	0.940	54225.419	ug/L	592.390
>	72	Ge			1998461.551	ug/L	2104942.104
	108	Cd	98.102091	1.388	18372.035	ug/L	29.486
	114	Cd	97.856774	0.855	588842.990	ug/L	141.940
>	115	In			1992179.556	ug/L	1982073.555
	208	207.977	95.534382	3.206	1318528.299	ug/L	558.351
	207	Pb	96.941516	2.223	558685.384	ug/L	223.336
	206	Pb	96.698493	1.309	757537.355	ug/L	308.672
>	169	Tm			1364878.621	ug/L	1329102.281
	106	Pd	99.794811	1.036	24441.424	ug/L	55.334
	83	Kr	12.107626	455.599	483.347	ug/L	474.346
	182	W			108.002	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:01:26
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	88.909
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.941
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.510
	Pb	208	
>	Tm-1	169	102.692
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.941
	Cd	108	
	Cd	114	
>	In	115	100.510
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.692
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: CCB 7
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:03:38
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 7.054
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
6	Li-1			765681.412	ug/L	854235.854
9	Be	0.017248	48.665	9.333	ug/L	3.667
27	Al	3.663506	2.850	156925.783	ug/L	134965.982
52	Cr	0.187140	43.272	28741.838	ug/L	27671.053
55	Mn	-0.011749	20.372	4144.648	ug/L	4526.170
59	Co	0.011278	13.293	261.671	ug/L	116.334
60	Ni	0.006594	55.237	229.240	ug/L	218.354
65	Cu	-0.022579	6.221	252.978	ug/L	330.637
68	Zn	-0.592119	13.861	1635.486	ug/L	2414.667
75	As	0.067743	73.348	18362.457	ug/L	18867.308
72	Ge-1			2027534.740	ug/L	2104942.104
111	Cd	0.003785	140.729	61.836	ug/L	49.935
121	Sb	0.030723	70.214	1698.166	ug/L	1405.114
135	Ba	0.023660	36.656	369.008	ug/L	299.672
115	In-1			2043661.142	ug/L	1982073.555
208	Pb	0.006548	45.562	1315.038	ug/L	1090.359
169	Tm-1			1381020.338	ug/L	1329102.281
50	Cr	0.729317	2.725	-86.499	ug/L	-304.545
53	Cr	-5.226721	26.706	26644.167	ug/L	30306.384
61	Ni	1.179647	252.685	2612.093	ug/L	2653.794
63	Cu	-0.030846	8.325	191.339	ug/L	267.345
67	Zn	0.481138	79.167	1483.352	ug/L	1492.357
66	Zn	0.100037	67.906	625.063	ug/L	592.390
72	Ge			2027534.740	ug/L	2104942.104
108	Cd	0.080038	59.684	45.660	ug/L	29.486
114	Cd	0.008682	34.509	199.748	ug/L	141.940
115	In			2043661.142	ug/L	1982073.555
208	207.977	0.006574	51.140	672.359	ug/L	558.351
207	Pb	0.009239	17.299	286.005	ug/L	223.336
206	Pb	0.004523	87.698	356.674	ug/L	308.672
169	Tm			1381020.338	ug/L	1329102.281
106	Pd	0.038195	40.564	64.667	ug/L	55.334
83	Kr	-16.591879	142.527	462.012	ug/L	474.346
182	W			9.667	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:05:13
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Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	89.633
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.323
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.107
	Pb	208	
>	Tm-1	169	103.906
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.323
	Cd	108	
	Cd	114	
>	In	115	103.107
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.906
	Pd	106	
	Kr	83	
	W	182	

SOP No. SAC-MT-0001

BJones

Sample ID: CCV 8

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, November 22, 2006 21:07:24

Method File: C:\elandata\Method\6321133.mth

Dataset File: c:\elandata\dataset\061122b1\CCV 8.055

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
>	6	Li-1			747876.517	ug/L	854235.854
	9	Be	103.594366	1.706	35314.460	ug/L	3.667
	27	Al	5173.117184	0.583	38123631.718	ug/L	134965.982
	52	Cr	95.258615	0.328	1087622.390	ug/L	27671.053
	55	Mn	94.572291	1.341	1732435.233	ug/L	4526.170
	59	Co	97.566596	2.845	1293303.945	ug/L	116.334
	60	Ni	96.752551	1.204	278514.943	ug/L	218.354
	65	Cu	98.343563	1.576	285353.782	ug/L	330.637
	68	Zn	96.335526	0.591	114504.717	ug/L	2414.667
	75	As	98.799592	1.458	293700.972	ug/L	18867.308
>	72	Ge-1			2026383.926	ug/L	2104942.104
	111	Cd	96.632638	1.604	260763.374	ug/L	49.935
	121	Sb	48.688403	2.364	395067.597	ug/L	1405.114
	135	Ba	99.378028	0.487	249323.482	ug/L	299.672
>	115	In-1			2025642.213	ug/L	1982073.555
	208	Pb	96.005319	1.567	2642090.099	ug/L	1090.359
>	169	Tm-1			1370693.504	ug/L	1329102.281
	50	Cr	92.394381	6.026	25908.382	ug/L	-304.545
	53	Cr	93.379345	1.804	74685.082	ug/L	30306.384
	61	Ni	97.517536	2.973	7238.377	ug/L	2653.794
	63	Cu	97.991704	1.675	210443.317	ug/L	267.345
	67	Zn	98.740922	0.457	10809.665	ug/L	1492.357
	66	Zn	99.060457	0.653	54658.205	ug/L	592.390
>	72	Ge			2026383.926	ug/L	2104942.104
	108	Cd	96.119508	1.886	18301.445	ug/L	29.486
	114	Cd	97.176605	1.465	594523.212	ug/L	141.940
>	115	In			2025642.213	ug/L	1982073.555
	208	207.977	95.912290	1.541	1329753.267	ug/L	558.351
	207	Pb	95.874482	1.506	554949.022	ug/L	223.336
	206	Pb	96.265508	1.922	757387.810	ug/L	308.672
>	169	Tm			1370693.504	ug/L	1329102.281
	106	Pd	100.812541	0.428	24690.119	ug/L	55.334
	83	Kr	64.573879	20.554	522.349	ug/L	474.346
	182	W			104.002	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:08:58

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	87.549
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.268
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.198
	Pb	208	
>	Tm-1	169	103.129
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.268
	Cd	108	
	Cd	114	
>	In	115	102.198
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.129
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:08:58
Page 2
Sample ID: CCV 8

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

Sample ID: CCB 8
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:11:10
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 8.056
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
>	6	Li-1			746988.425	ug/L	854235.854
	9	Be	0.013099	56.632	7.667	ug/L	3.667
	27	Al	4.122785	11.636	160293.444	ug/L	134965.982
	52	Cr	0.362562	25.348	30691.425	ug/L	27671.053
	55	Mn	-0.006284	133.237	4244.363	ug/L	4526.170
	59	Co	0.011869	23.777	269.338	ug/L	116.334
	60	Ni	0.015408	45.300	254.680	ug/L	218.354
	65	Cu	-0.027366	17.492	239.194	ug/L	330.637
	68	Zn	-0.434450	11.013	1819.523	ug/L	2414.667
	75	As	0.208874	94.107	18754.909	ug/L	18867.308
>	72	Ge-1			2027655.878	ug/L	2104942.104
	111	Cd	0.002317	266.426	57.712	ug/L	49.935
	121	Sb	0.037937	79.686	1757.512	ug/L	1405.114
	135	Ba	0.028292	26.866	380.675	ug/L	299.672
>	115	In-1			2044590.526	ug/L	1982073.555
	208	Pb	0.010647	4.646	1421.044	ug/L	1090.359
>	169	Tm-1			1374245.019	ug/L	1329102.281
	50	Cr	0.707787	8.564	-92.660	ug/L	-304.545
	53	Cr	-3.116755	92.600	27667.428	ug/L	30306.384
	61	Ni	-0.865711	209.483	2514.345	ug/L	2653.794
	63	Cu	-0.026161	14.459	201.340	ug/L	267.345
	67	Zn	0.890885	134.473	1521.705	ug/L	1492.357
	66	Zn	0.247612	30.395	706.080	ug/L	592.390
>	72	Ge			2027655.878	ug/L	2104942.104
	108	Cd	0.042906	171.428	38.623	ug/L	29.486
	114	Cd	0.008160	9.427	196.815	ug/L	141.940
>	115	In			2044590.526	ug/L	1982073.555
	208	207.977	0.009849	18.497	714.363	ug/L	558.351
	207	Pb	0.012214	28.246	301.672	ug/L	223.336
	206	Pb	0.010902	17.634	405.009	ug/L	308.672
>	169	Tm			1374245.019	ug/L	1329102.281
	106	Pd	0.016369	354.729	59.334	ug/L	55.334
	83	Kr	3.139008	1325.338	476.680	ug/L	474.346
	182	W			11.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:12:45
Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	87.445
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.328
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.154
	Pb	208	
>	Tm-1	169	103.396
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.328
	Cd	108	
	Cd	114	
>	In	115	103.154
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.396
	Pd	106	
	Kr	83	
	W	182	

Sample ID: JJMHF
Sample Description: G6K140165-3
Batch ID: 6326120
Sample Date/Time: Wednesday, November 22, 2006 21:14:55
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\JJMHF.057
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 47
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-1			715373.817	ug/L	854235.854
	9	Be	-0.000239	1229.349	3.000	ug/L	3.667
	27	Al	143.311016	1.690	1153242.772	ug/L	134965.982
	52	Cr	1.122747	5.852	38177.122	ug/L	27671.053
	55	Mn	5.709618	2.499	105992.454	ug/L	4526.170
	59	Co	0.526896	2.497	6921.070	ug/L	116.334
	60	Ni	0.985883	2.528	2970.455	ug/L	218.354
	65	Cu	29.048925	1.168	82440.376	ug/L	330.637
	68	Zn	5.218786	1.355	8194.836	ug/L	2414.667
	75	As	1.267050	25.409	21153.896	ug/L	18867.308
>	72	Ge-1			1976648.007	ug/L	2104942.104
	111	Cd	0.064419	3.789	227.336	ug/L	49.935
	121	Sb	-0.008938	78.499	1378.442	ug/L	1405.114
	135	Ba	3.514735	0.340	9216.186	ug/L	299.672
>	115	In-1			2048337.586	ug/L	1982073.555
	208	Pb	0.673737	0.634	19843.331	ug/L	1090.359
>	169	Tm-1			1383446.129	ug/L	1329102.281
	50	Cr	3.096788	13.701	569.297	ug/L	-304.545
	53	Cr	-34.541910	4.250	12048.277	ug/L	30306.384
	61	Ni	2.697169	60.521	2618.097	ug/L	2653.794
	63	Cu	28.906011	1.551	60720.586	ug/L	267.345
	67	Zn	-0.456032	146.486	1359.963	ug/L	1492.357
	66	Zn	6.133398	3.122	3821.669	ug/L	592.390
>	72	Ge			1976648.007	ug/L	2104942.104
	108	Cd	0.137247	8.670	56.833	ug/L	29.486
	114	Cd	0.047863	14.147	443.203	ug/L	141.940
>	115	In			2048337.586	ug/L	1982073.555
	208	207.977	0.692532	1.068	10269.023	ug/L	558.351
	207	Pb	0.705090	1.292	4350.415	ug/L	223.336
	206	Pb	0.617550	1.255	5223.893	ug/L	308.672
>	169	Tm			1383446.129	ug/L	1329102.281
	106	Pd	0.428331	8.274	160.001	ug/L	55.334
	83	Kr	42.152339	27.884	505.681	ug/L	474.346
	182	W			395.025	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	83.744
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	93.905
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.343
	Pb	208	
>	Tm-1	169	104.089
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	93.905
	Cd	108	
	Cd	114	
>	In	115	103.343
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.089
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:16:27
Page 2
Sample ID: JJMHF

Sample ID: LLSTD 10X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:18:43
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\LLSTD 10X.058
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 9
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-1			831501.954	ug/L	854235.854
	9	Be	0.914439	7.635	350.007	ug/L	3.667
	27	Al	44.738883	0.707	492809.586	ug/L	134965.982
	52	Cr	1.932033	7.428	51762.793	ug/L	27671.053
	55	Mn	1.115999	0.974	26602.047	ug/L	4526.170
	59	Co	1.021342	2.110	14672.295	ug/L	116.334
	60	Ni	1.041934	0.643	3447.309	ug/L	218.354
	65	Cu	1.114467	1.920	3813.742	ug/L	330.637
	68	Zn	11.397274	1.367	16763.044	ug/L	2414.667
	75	As	0.182995	54.063	20070.582	ug/L	18867.308
>	72	Ge-1			2177919.268	ug/L	2104942.104
	111	Cd	0.869843	1.803	2757.480	ug/L	49.935
	121	Sb	0.310500	1.941	4538.510	ug/L	1405.114
	135	Ba	0.937643	2.759	3054.200	ug/L	299.672
>	115	In-1			2329176.734	ug/L	1982073.555
	208	Pb	0.973189	0.729	30555.806	ug/L	1090.359
>	169	Tm-1			1501290.272	ug/L	1329102.281
	50	Cr	1.810612	9.749	236.556	ug/L	-304.545
	53	Cr	17.868520	17.142	40713.056	ug/L	30306.384
	61	Ni	11.885837	10.995	3359.138	ug/L	2653.794
	63	Cu	1.142967	2.784	2911.690	ug/L	267.345
	67	Zn	12.212478	7.594	2790.246	ug/L	1492.357
	66	Zn	12.589119	0.765	8000.896	ug/L	592.390
>	72	Ge			2177919.268	ug/L	2104942.104
	108	Cd	0.663105	12.463	179.698	ug/L	29.486
	114	Cd	0.874937	2.799	6320.400	ug/L	141.940
>	115	In			2329176.734	ug/L	1982073.555
	208	207.977	0.988008	0.465	15628.278	ug/L	558.351
	207	Pb	0.949093	1.343	6267.578	ug/L	223.336
	206	Pb	0.964804	0.874	8659.950	ug/L	308.672
>	169	Tm			1501290.272	ug/L	1329102.281
	106	Pd	0.883950	10.732	271.338	ug/L	55.334
	83	Kr	34.529021	6.748	500.014	ug/L	474.346
	182	W			16.333	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	97.339
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	103.467
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	117.512
	Pb	208	
>	Tm-1	169	112.955
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	103.467
	Cd	108	
	Cd	114	
>	In	115	117.512
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	112.955
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:20:15
Page 2
Sample ID: LLSTD 10X

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

Sample ID: LLSTD 5X
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:21:56
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\LLSTD 5X.059
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 10
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-1			812398.199	ug/L	854235.854
[	9	Be	1.812948	4.744	675.026	ug/L	3.667
[	27	Al	100.611820	1.404	926300.980	ug/L	134965.982
	52	Cr	2.676717	4.488	60181.665	ug/L	27671.053
	55	Mn	2.175350	1.095	47024.032	ug/L	4526.170
	59	Co	1.982144	0.890	28132.154	ug/L	116.334
	60	Ni	2.037340	3.017	6471.847	ug/L	218.354
	65	Cu	2.123679	2.223	6901.444	ug/L	330.637
	68	Zn	15.003107	0.794	21103.419	ug/L	2414.667
	75	As	1.207284	21.362	22951.400	ug/L	18867.308
[>	72	Ge-1			2160259.036	ug/L	2104942.104
[	111	Cd	1.689753	0.388	5449.932	ug/L	49.935
	121	Sb	0.710328	0.711	8486.780	ug/L	1405.114
	135	Ba	1.796368	1.802	5682.178	ug/L	299.672
[>	115	In-1			2394342.972	ug/L	1982073.555
[	208	Pb	1.961623	2.414	59324.416	ug/L	1090.359
[>	169	Tm-1			1476496.991	ug/L	1329102.281
[	50	Cr	3.022301	3.391	600.824	ug/L	-304.545
	53	Cr	13.748703	17.462	38247.145	ug/L	30306.384
	61	Ni	12.652289	33.872	3371.490	ug/L	2653.794
	63	Cu	2.100406	0.829	5077.455	ug/L	267.345
	67	Zn	16.206742	6.202	3171.610	ug/L	1492.357
	66	Zn	16.428817	2.540	10171.534	ug/L	592.390
[>	72	Ge			2160259.036	ug/L	2104942.104
[	108	Cd	1.313153	15.530	330.658	ug/L	29.486
	114	Cd	1.690278	1.895	12391.947	ug/L	141.940
[>	115	In			2394342.972	ug/L	1982073.555
[	208	207.977	1.991566	2.829	30341.182	ug/L	558.351
	207	Pb	1.922123	2.217	12225.869	ug/L	223.336
	206	Pb	1.937922	1.910	16757.364	ug/L	308.672
[>	169	Tm			1476496.991	ug/L	1329102.281
	106	Pd	1.848408	1.597	507.015	ug/L	55.334
	83	Kr	26.008885	128.827	493.681	ug/L	474.346
	182	W			11.333	ug/L	5.333

Report Date/Time: Wednesday, November 22, 2006 21:23:29
Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	95.102
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	102.628
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	120.800
	Pb	208	
>	Tm-1	169	111.090
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	102.628
	Cd	108	
	Cd	114	
>	In	115	120.800
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	111.090
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:23:29
Page 2
Sample ID: LLSTD 5X

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:28:42
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\ICSA.060
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
>	6	Li-1			542313.462	ug/L	854235.854
	9	Be	0.044528	43.545	13.333	ug/L	3.667
	27	Al	110281.253579	0.508	617952655.900	ug/L	134965.982
	52	Cr	2.350900	2.077	40287.874	ug/L	27671.053
	55	Mn	4.855645	0.693	71008.037	ug/L	4526.170
	59	Co	2.631202	1.127	26694.007	ug/L	116.334
	60	Ni	1.325638	6.275	3067.005	ug/L	218.354
	65	Cu	0.293520	27.354	890.218	ug/L	330.637
	68	Zn	1.709872	7.869	3290.619	ug/L	2414.667
	75	As	1.104618	31.232	16198.118	ug/L	18867.308
>	72	Ge-1			1545707.211	ug/L	2104942.104
	111	Cd	0.498335	25.681	1055.155	ug/L	49.935
	121	Sb	0.174209	3.071	2155.932	ug/L	1405.114
	135	Ba	0.926091	5.349	1989.560	ug/L	299.672
>	115	In-1			1534905.192	ug/L	1982073.555
	208	Pb	0.710482	0.481	17426.031	ug/L	1090.359
>	169	Tm-1			1155549.257	ug/L	1329102.281
	50	Cr	219.432460	6.375	47263.279	ug/L	-304.545
	53	Cr	20.195695	2.476	29764.465	ug/L	30306.384
	61	Ni	53.446999	5.572	3907.778	ug/L	2653.794
	63	Cu	5.069230	1.215	8491.862	ug/L	267.345
	67	Zn	29.241930	2.724	3213.319	ug/L	1492.357
	66	Zn	7.606993	1.703	3602.742	ug/L	592.390
>	72	Ge			1545707.211	ug/L	2104942.104
	108	Cd	63.217927	4.783	9125.801	ug/L	29.486
	114	Cd	3.666331	4.155	17096.742	ug/L	141.940
>	115	In			1534905.192	ug/L	1982073.555
	208	207.977	0.731371	1.348	9030.324	ug/L	558.351
	207	Pb	0.722130	1.412	3717.123	ug/L	223.336
	206	Pb	0.665105	1.610	4678.584	ug/L	308.672
>	169	Tm			1155549.257	ug/L	1329102.281
	106	Pd	1.396869	3.160	396.676	ug/L	55.334
	83	Kr	504.941643	10.928	849.708	ug/L	474.346
	182	W			953.812	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	63.485
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	73.432
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	77.439
	Pb	208	
>	Tm-1	169	86.942
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	73.432
	Cd	108	
	Cd	114	
>	In	115	77.439
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	86.942
	Pd	106	
	Kr	83	
	W	182	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**

SOP No. SAC-MT-0001

BJones

Sample ID: ICSAB

wrong autosampler position entered
BFV 11/22/06

Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:32:24
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\ICSAB.061
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
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-1			599880.027	ug/L	854235.854
	9	Be	0.013678	26.821	6.333	ug/L	3.667
	27	Al	193.495207	2.416	1483260.637	ug/L	134965.982
	52	Cr	4.724680	5.489	75771.666	ug/L	27671.053
	55	Mn	8.508412	2.973	152824.734	ug/L	4526.170
	59	Co	0.427124	2.768	5521.075	ug/L	116.334
	60	Ni	3.326172	3.266	9349.243	ug/L	218.354
	65	Cu	83.767147	2.376	232470.354	ug/L	330.637
	68	Zn	102.303721	1.721	116155.340	ug/L	2414.667
	75	As	1.910351	13.950	22462.244	ug/L	18867.308
>	72	Ge-1			1938636.544	ug/L	2104942.104
	111	Cd	0.161362	9.152	481.460	ug/L	49.935
	121	Sb	1.476798	1.344	13262.383	ug/L	1405.114
	135	Ba	17.405042	3.211	43514.601	ug/L	299.672
>	115	In-1			2008337.562	ug/L	1982073.555
	208	Pb	7.175832	1.733	198348.355	ug/L	1090.359
>	169	Tm-1			1369540.420	ug/L	1329102.281
	50	Cr	5.444280	10.069	1193.988	ug/L	-304.545
	53	Cr	-20.591414	15.795	18280.070	ug/L	30306.384
	61	Ni	18.161054	24.087	3274.716	ug/L	2653.794
	63	Cu	83.307595	2.030	171132.698	ug/L	267.345
	67	Zn	92.194901	5.952	9736.481	ug/L	1492.357
	66	Zn	106.837746	2.375	56334.383	ug/L	592.390
>	72	Ge			1938636.544	ug/L	2104942.104
	108	Cd	0.608953	24.477	144.121	ug/L	29.486
	114	Cd	0.118840	8.119	863.402	ug/L	141.940
>	115	In			2008337.562	ug/L	1982073.555
	208	207.977	7.351485	1.627	102364.636	ug/L	558.351
	207	Pb	7.344111	2.881	42683.206	ug/L	223.336
	206	Pb	6.742506	1.118	53300.514	ug/L	308.672
>	169	Tm			1369540.420	ug/L	1329102.281
	106	Pd	1.688800	5.248	468.013	ug/L	55.334
	83	Kr	29.147870	57.646	496.014	ug/L	474.346
	182	W			288.013	ug/L	5.333

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Sample ID: ICSAB

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	70.224
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	92.099
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.325
	Pb	208	
>	Tm-1	169	103.043
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	92.099
	Cd	108	
	Cd	114	
>	In	115	101.325
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	103.043
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:33:57
Page 2
Sample ID: ICSAB

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: Wednesday, November 22, 2006 21:37:59
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\ICSAB.062
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
>	6	Li-1			536881.669	ug/L	854235.854
	9	Be	102.093076	3.633	24980.301	ug/L	3.667
	27	Al	113176.055861	4.768	621988410.192	ug/L	134965.982
	52	Cr	107.774543	3.609	918119.269	ug/L	27671.053
	55	Mn	101.884660	3.334	1396380.434	ug/L	4526.170
	59	Co	107.082805	3.302	1062285.815	ug/L	116.334
	60	Ni	101.223725	3.486	218019.997	ug/L	218.354
	65	Cu	97.028540	3.262	210667.535	ug/L	330.637
	68	Zn	92.587641	3.985	82409.088	ug/L	2414.667
	75	As	108.581100	3.072	240196.856	ug/L	18867.308
>	72	Ge-1			1516884.952	ug/L	2104942.104
	111	Cd	97.692120	4.333	195028.419	ug/L	49.935
	121	Sb	54.114490	4.427	324736.001	ug/L	1405.114
	135	Ba	116.715597	3.676	216581.833	ug/L	299.672
>	115	In-1			1499442.267	ug/L	1982073.555
	208	Pb	86.387671	3.933	1951983.385	ug/L	1090.359
>	169	Tm-1			1126005.021	ug/L	1329102.281
	50	Cr	268.911293	6.178	56895.773	ug/L	-304.545
	53	Cr	124.135351	5.223	67090.321	ug/L	30306.384
	61	Ni	149.865022	4.300	7296.175	ug/L	2653.794
	63	Cu	102.827779	3.281	165230.213	ug/L	267.345
	67	Zn	123.723436	5.053	9861.546	ug/L	1492.357
	66	Zn	102.944101	3.279	42487.982	ug/L	592.390
>	72	Ge			1516884.952	ug/L	2104942.104
	108	Cd	165.654653	3.260	23322.497	ug/L	29.486
	114	Cd	101.388256	4.319	458869.375	ug/L	141.940
>	115	In			1499442.267	ug/L	1982073.555
	208	207.977	86.185012	3.830	981080.589	ug/L	558.351
	207	Pb	86.244194	4.304	409863.279	ug/L	223.336
	206	Pb	86.850340	3.890	561039.517	ug/L	308.672
>	169	Tm			1126005.021	ug/L	1329102.281
	106	Pd	75.361371	1.798	18470.812	ug/L	55.334
	83	Kr	547.992789	13.142	881.711	ug/L	474.346
	182	W			956.813	ug/L	5.333

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Page 1

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	62.849
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	72.063
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	75.650
	Pb	208	
>	Tm-1	169	84.719
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	72.063
	Cd	108	
	Cd	114	
>	In	115	75.650
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	84.719
	Pd	106	
	Kr	83	
	W	182	

Report Date/Time: Wednesday, November 22, 2006 21:39:32
Page 2
Sample ID: ICSAB

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:41:44
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\Rinse.063
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
>	6	Li-1			612010.749	ug/L	854235.854
	9	Be	0.004929	147.904	4.000	ug/L	3.667
	27	Al	-7.277764	4.734	75257.304	ug/L	134965.982
	52	Cr	0.657174	9.447	33433.128	ug/L	27671.053
	55	Mn	-0.141085	1.773	1751.842	ug/L	4526.170
	59	Co	0.002890	48.326	148.001	ug/L	116.334
	60	Ni	-0.037546	4.710	100.584	ug/L	218.354
	65	Cu	-0.038424	15.830	203.490	ug/L	330.637
	68	Zn	0.299262	21.134	2631.396	ug/L	2414.667
	75	As	0.935512	28.817	20441.629	ug/L	18867.308
>	72	Ge-1			1994905.277	ug/L	2104942.104
	111	Cd	-0.002768	69.604	43.784	ug/L	49.935
	121	Sb	-0.143046	1.102	280.671	ug/L	1405.114
	135	Ba	0.024132	13.278	368.674	ug/L	299.672
>	115	In-1			2036290.271	ug/L	1982073.555
	208	Pb	-0.007851	8.820	919.352	ug/L	1090.359
>	169	Tm-1			1386984.807	ug/L	1329102.281
	50	Cr	0.538608	6.180	-138.420	ug/L	-304.545
	53	Cr	11.632269	16.455	34291.121	ug/L	30306.384
	61	Ni	19.425191	5.224	3433.219	ug/L	2653.794
	63	Cu	-0.041734	8.977	165.338	ug/L	267.345
	67	Zn	4.590208	19.528	1842.210	ug/L	1492.357
	66	Zn	0.928801	8.321	1061.181	ug/L	592.390
>	72	Ge			1994905.277	ug/L	2104942.104
	108	Cd	0.140750	31.747	57.226	ug/L	29.486
	114	Cd	0.006967	35.979	188.610	ug/L	141.940
>	115	In			2036290.271	ug/L	1982073.555
	208	207.977	-0.008384	15.870	465.012	ug/L	558.351
	207	Pb	-0.006340	39.591	196.002	ug/L	223.336
	206	Pb	-0.008022	36.434	258.337	ug/L	308.672
>	169	Tm			1386984.807	ug/L	1329102.281
	106	Pd	-0.092759	9.184	32.667	ug/L	55.334
	83	Kr	284.307423	30.018	685.694	ug/L	474.346
	182	W			11.333	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	71.644
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	94.772
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.735
	Pb	208	
>	Tm-1	169	104.355
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	94.772
	Cd	108	
	Cd	114	
>	In	115	102.735
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.355
	Pd	106	
	Kr	83	
	W	182	

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

Sample ID: CCV 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:45:31
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCV 9.064
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
>	6	Li-1			659498.535	ug/L	854235.854
	9	Be	105.825367	1.575	31819.767	ug/L	3.667
	27	Al	5185.731299	0.353	38302667.814	ug/L	134965.982
	52	Cr	97.015988	2.420	1109644.223	ug/L	27671.053
	55	Mn	93.180261	1.370	1710854.624	ug/L	4526.170
	59	Co	98.446166	2.091	1308022.476	ug/L	116.334
	60	Ni	98.381190	0.478	283844.245	ug/L	218.354
	65	Cu	100.380650	1.120	291915.428	ug/L	330.637
	68	Zn	96.030166	1.017	114402.371	ug/L	2414.667
	75	As	101.833025	0.530	302856.481	ug/L	18867.308
>	72	Ge-1			2030917.959	ug/L	2104942.104
	111	Cd	97.075697	0.786	259693.255	ug/L	49.935
	121	Sb	49.611123	0.677	399069.554	ug/L	1405.114
	135	Ba	102.524621	0.221	254953.028	ug/L	299.672
>	115	In-1			2007802.827	ug/L	1982073.555
	208	Pb	91.106563	0.284	2501687.551	ug/L	1090.359
>	169	Tm-1			1367458.022	ug/L	1329102.281
	50	Cr	92.971581	1.981	26123.547	ug/L	-304.545
	53	Cr	99.578789	4.131	77874.724	ug/L	30306.384
	61	Ni	109.972824	2.306	7853.189	ug/L	2653.794
	63	Cu	100.780934	1.920	216905.419	ug/L	267.345
	67	Zn	102.989697	1.223	11237.503	ug/L	1492.357
	66	Zn	98.781508	1.280	54629.422	ug/L	592.390
>	72	Ge			2030917.959	ug/L	2104942.104
	108	Cd	97.808930	0.600	18462.292	ug/L	29.486
	114	Cd	97.090226	0.944	588838.457	ug/L	141.940
>	115	In			2007802.827	ug/L	1982073.555
	208	207.977	90.290750	0.360	1249003.662	ug/L	558.351
	207	Pb	91.649842	0.616	529333.585	ug/L	223.336
	206	Pb	92.144404	0.122	723350.303	ug/L	308.672
>	169	Tm			1367458.022	ug/L	1329102.281
	106	Pd	100.361121	0.382	24579.809	ug/L	55.334
	83	Kr	632.301549	8.145	944.384	ug/L	474.346
	182	W			95.335	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	77.203
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	96.483
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.298
	Pb	208	
>	Tm-1	169	102.886
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	96.483
	Cd	108	
	Cd	114	
>	In	115	101.298
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.886
	Pd	106	
	Kr	83	
	W	182	

Sample ID: CCB 9
Sample Description:
Batch ID:
Sample Date/Time: Wednesday, November 22, 2006 21:49:17
Method File: C:\elandata\Method\6321133.mth
Dataset File: c:\elandata\dataset\061122b1\CCB 9.065
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
>	6	Li-1			672573.321	ug/L	854235.854
	9	Be	0.016726	40.202	8.000	ug/L	3.667
	27	Al	4.644487	12.447	170463.393	ug/L	134965.982
	52	Cr	0.959850	7.675	38800.216	ug/L	27671.053
	55	Mn	-0.005028	126.504	4432.456	ug/L	4526.170
	59	Co	0.013816	6.745	306.672	ug/L	116.334
	60	Ni	0.012012	52.953	254.497	ug/L	218.354
	65	Cu	-0.013799	9.375	289.282	ug/L	330.637
	68	Zn	-0.444860	17.606	1876.868	ug/L	2414.667
	75	As	0.860991	26.302	21369.083	ug/L	18867.308
>	72	Ge-1			2106118.876	ug/L	2104942.104
	111	Cd	0.008216	36.836	76.052	ug/L	49.935
	121	Sb	0.004266	297.528	1527.800	ug/L	1405.114
	135	Ba	0.019499	37.596	369.008	ug/L	299.672
>	115	In-1			2104809.451	ug/L	1982073.555
	208	Pb	0.009280	7.557	1395.376	ug/L	1090.359
>	169	Tm-1			1386334.144	ug/L	1329102.281
	50	Cr	0.702895	8.715	-97.604	ug/L	-304.545
	53	Cr	5.922392	18.507	33319.027	ug/L	30306.384
	61	Ni	11.947847	35.239	3250.360	ug/L	2653.794
	63	Cu	-0.023673	9.563	214.674	ug/L	267.345
	67	Zn	2.817757	43.046	1770.169	ug/L	1492.357
	66	Zn	0.130445	46.708	666.738	ug/L	592.390
>	72	Ge			2106118.876	ug/L	2104942.104
	108	Cd	0.052198	88.298	41.609	ug/L	29.486
	114	Cd	0.009032	23.408	208.147	ug/L	141.940
>	115	In			2104809.451	ug/L	1982073.555
	208	207.977	0.009749	5.295	719.030	ug/L	558.351
	207	Pb	0.010036	4.575	291.672	ug/L	223.336
	206	Pb	0.007897	28.994	384.675	ug/L	308.672
>	169	Tm			1386334.144	ug/L	1329102.281
	106	Pd	0.015005	223.237	59.000	ug/L	55.334
	83	Kr	546.647319	5.488	880.711	ug/L	474.346
	182	W			8.667	ug/L	5.333

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
>	Li-1	6	78.734
	Be	9	
	Al	27	
	Cr	52	
	Mn	55	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
>	Ge-1	72	100.056
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	106.192
	Pb	208	
>	Tm-1	169	104.306
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
>	Ge	72	100.056
	Cd	108	
	Cd	114	
>	In	115	106.192
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	104.306
	Pd	106	
	Kr	83	
	W	182	

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 061127A1	Batch Numbers 6321133, 6326120, 6321081, 6317263	Date 11/27/06	Analyst BRJ

Lot Numbers G6K020146, G6K020151, G6K090141, G6K140165, G6J250276, G6K060161, G6J260249, G6J300165	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: _____

REVIEWED BY: MTSL
DATE: 11/28/06

DATA ENTERED BY: BRJ
DATE: 11/28/06

QA-427 ERS 6/11/03

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

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\061127A1\
Report Date/Time: Monday, November 27, 2006 17:12:25

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	11:57:51 Mon 27-Nov-06	Sample	
	AUTOLENS BJONES	12:03:20 Mon 27-Nov-06	Sample	Auto Lens Calib
	DAILY BJONES	12:05:26 Mon 27-Nov-06	Sample	
	Rinse	12:31:50 Mon 27-Nov-06	Sample	
	Blank	12:34:59 Mon 27-Nov-06	Blank	
	Standard 1	12:38:01 Mon 27-Nov-06	Standard #1	
	ICV	12:40:48 Mon 27-Nov-06	Sample	
	ICB	12:43:40 Mon 27-Nov-06	Sample	
	LLSTD 10X	12:46:36 Mon 27-Nov-06	Sample	
	LLSTD 5X	12:48:54 Mon 27-Nov-06	Sample	
	ICSA	12:51:35 Mon 27-Nov-06	Sample	
	ICSAB	12:54:24 Mon 27-Nov-06	Sample	
	Rinse	12:57:16 Mon 27-Nov-06	Sample	
	CCV 1	13:00:09 Mon 27-Nov-06	Sample	
	CCB 1	13:03:42 Mon 27-Nov-06	Sample	
	CCV 2	13:06:34 Mon 27-Nov-06	Sample	
	CCB 2	13:09:26 Mon 27-Nov-06	Sample	
6321133	JJXAJC	13:12:16 Mon 27-Nov-06	Sample	G6K170000-133 LCS
6321133	JJXAJL	13:15:04 Mon 27-Nov-06	Sample	G6K170000-133 LCSD
6326120	JJ71FC	13:17:52 Mon 27-Nov-06	Sample	G6K220000-120 LCS
6326120	JJ71FL	13:20:40 Mon 27-Nov-06	Sample	G6K220000-120 LCSD
	Rinse	13:23:31 Mon 27-Nov-06	Sample	
6321133	JJXAJB	13:26:24 Mon 27-Nov-06	Sample	G6K170000-133 BLK
6321133	MB CONTROL	13:29:23 Mon 27-Nov-06	Sample	
6326120	JJ71FB	13:31:42 Mon 27-Nov-06	Sample	G6K220000-120 BLK
6326120	MB CONTROL	13:34:41 Mon 27-Nov-06	Sample	
	CCV 3	13:36:59 Mon 27-Nov-06	Sample	
	CCB 3	13:39:51 Mon 27-Nov-06	Sample	
	CCV 4	13:42:44 Mon 27-Nov-06	Sample	
	CCB 4	13:45:36 Mon 27-Nov-06	Sample	
6321133	JHQ8V	13:48:27 Mon 27-Nov-06	Sample	G6K020146-1
6321133	JHQ8VP5	13:51:15 Mon 27-Nov-06	Sample	G6K020146-1 5X
6321133	JHQ8VZ	13:54:04 Mon 27-Nov-06	Sample	G6K020146-1 PS
6321133	JHQ88	13:56:53 Mon 27-Nov-06	Sample	G6K020146-2
6321133	JHQ9A	13:59:42 Mon 27-Nov-06	Sample	G6K020146-3
6321133	JHQ9F	14:02:32 Mon 27-Nov-06	Sample	G6K020146-4
6321133	JHQ9H	14:05:22 Mon 27-Nov-06	Sample	G6K020146-5
6321133	JHRAM	14:08:13 Mon 27-Nov-06	Sample	G6K020151-1
6321133	JHRAX	14:11:04 Mon 27-Nov-06	Sample	G6K020151-2
6321133	JHRA2	14:13:55 Mon 27-Nov-06	Sample	G6K020151-3
	CCV 5	14:16:47 Mon 27-Nov-06	Sample	
	CCB 5	14:19:40 Mon 27-Nov-06	Sample	
	CCV 6	14:22:32 Mon 27-Nov-06	Sample	
	CCB 6	14:25:24 Mon 27-Nov-06	Sample	
6321133	JHRA4	14:28:17 Mon 27-Nov-06	Sample	G6K020151-4
6326120	JJACE	14:31:07 Mon 27-Nov-06	Sample	G6K090141-1
6326120	JJACEP5	14:33:55 Mon 27-Nov-06	Sample	G6K090141-1 5X
6326120	JJACEZ	14:36:43 Mon 27-Nov-06	Sample	G6K090141-1 PS
6326120	JJACG	14:39:32 Mon 27-Nov-06	Sample	G6K090141-2

6326120	JJACH	14:42:21 Mon 27-Nov-06	Sample	G6K090141-3
6326120	JJACJ	14:45:11 Mon 27-Nov-06	Sample	G6K090141-4
6326120	JJACK	14:48:01 Mon 27-Nov-06	Sample	G6K090141-5
6326120	JJMHA	14:50:52 Mon 27-Nov-06	Sample	G6K140165-1
6326120	JJMHE	14:53:43 Mon 27-Nov-06	Sample	G6K140165-2
	CCV 7 RECAL	14:56:34 Mon 27-Nov-06	Sample	
	CCB 7	14:59:27 Mon 27-Nov-06	Sample	
	CCV 8	15:02:19 Mon 27-Nov-06	Sample	
	CCB 8	15:05:12 Mon 27-Nov-06	Sample	
6326120	JJMHF	15:08:04 Mon 27-Nov-06	Sample	G6K140165-3
	LLSTD 10X	15:10:58 Mon 27-Nov-06	Sample	
	LLSTD 5X	15:13:17 Mon 27-Nov-06	Sample	
	ICSA	15:15:31 Mon 27-Nov-06	Sample	
	ICSAB	15:18:20 Mon 27-Nov-06	Sample	
	Rinse	15:21:12 Mon 27-Nov-06	Sample	
	CCV 9	15:24:05 Mon 27-Nov-06	Sample	
	CCB 9	15:26:57 Mon 27-Nov-06	Sample	
	CCV 10	15:29:49 Mon 27-Nov-06	Sample	
	CCB 10	15:32:42 Mon 27-Nov-06	Sample	
6321081	JG77M	15:35:32 Mon 27-Nov-06	Sample	G6J250276-3
6321081	JG77Q	15:38:19 Mon 27-Nov-06	Sample	G6J250276-4
6321081	JG77T	15:41:07 Mon 27-Nov-06	Sample	G6J250276-5
6321081	JG77V	15:43:55 Mon 27-Nov-06	Sample	G6J250276-6
6321081	JG77X	15:46:44 Mon 27-Nov-06	Sample	G6J250276-7
6321081	JG772	15:49:33 Mon 27-Nov-06	Sample	G6J250276-8
6321081	JH244	15:52:23 Mon 27-Nov-06	Sample	G6K060161-1
6321081	JH249	15:55:13 Mon 27-Nov-06	Sample	G6K060161-2
6321081	JH25C	15:58:03 Mon 27-Nov-06	Sample	G6K060161-3
6321081	JH25D	16:00:54 Mon 27-Nov-06	Sample	G6K060161-4
	CCV 11	16:03:45 Mon 27-Nov-06	Sample	
	CCB 11	16:06:38 Mon 27-Nov-06	Sample	
	CCV 12	16:09:30 Mon 27-Nov-06	Sample	
	CCB 12	16:12:22 Mon 27-Nov-06	Sample	
6317263	JJKH2B	16:15:16 Mon 27-Nov-06	Sample	G6K130000-263 BLK
6317263	JHA94	16:18:09 Mon 27-Nov-06	Sample	G6J260249-1
6317263	JHA94P5	16:21:00 Mon 27-Nov-06	Sample	G6J260249-1 5X
6317263	JHA94Z	16:23:52 Mon 27-Nov-06	Sample	G6J260249-1 PS
6317263	JHA95	16:26:45 Mon 27-Nov-06	Sample	G6J260249-2
6317263	JHA96	16:29:37 Mon 27-Nov-06	Sample	G6J260249-3
6317263	JHA97	16:32:30 Mon 27-Nov-06	Sample	G6J260249-4
6317263	JHA99	16:35:24 Mon 27-Nov-06	Sample	G6J260249-5
6317263	JHCAA	16:38:18 Mon 27-Nov-06	Sample	G6J260249-6
6317263	JHCAC	16:41:12 Mon 27-Nov-06	Sample	G6J260249-7
	CCV 13	16:44:05 Mon 27-Nov-06	Sample	
	CCB 13	16:46:57 Mon 27-Nov-06	Sample	

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/28/06 15:14:25

File ID: 061127A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse				1.0	11/27/06 12:31		☐
2	Blank				1.0	11/27/06 12:34		☐
3	Standard1				1.0	11/27/06 12:38		☐
4	ICV				1.0	11/27/06 12:40		☐
5	ICB				1.0	11/27/06 12:43		☐
6	LLSTD 10X				10.0	11/27/06 12:46		☐
7	LLSTD 5X				5.0	11/27/06 12:48		☐
8	ICSA				1.0	11/27/06 12:51		☐
9	ICSAB				1.0	11/27/06 12:54		☐
10	Rinse				1.0	11/27/06 12:57		☐
11	CCV 1				1.0	11/27/06 13:00		☐
12	CCB 1				1.0	11/27/06 13:03		☐
13	CCV 2				1.0	11/27/06 13:06		☐
14	CCB 2				1.0	11/27/06 13:09		☐
15	JJXAJC	G6K170000	6321133	2A	1.0	11/27/06 13:12		☐
16	JJXAJL	G6K170000	6321133	2A	1.0	11/27/06 13:15		☐
17	JJ71FC	G6K220000	6326120	2A	1.0	11/27/06 13:17		☐
18	JJ71FL	G6K220000	6326120	2A	1.0	11/27/06 13:20		☐
19	Rinse				1.0	11/27/06 13:23		☐
20	JJXAJB	G6K170000	6321133	2A	1.0	11/27/06 13:26		☐
21	MB CONTRO				1.0	11/27/06 13:29		☐
22	JJ71FB	G6K220000	6326120	2A	1.0	11/27/06 13:31		☐
23	MB CONTRO				1.0	11/27/06 13:34		☐
24	CCV 3				1.0	11/27/06 13:36		☐
25	CCB 3				1.0	11/27/06 13:39		☐
26	CCV 4				1.0	11/27/06 13:42		☐
27	CCB 4				1.0	11/27/06 13:45		☐
28	JHQ8V	G6K020146-1	6321133	2A	1.0	11/27/06 13:48		☐
29	JHQ8VP5	G6K020146	6321133		5.0	11/27/06 13:51		☐
30	JHQ8VZ	G6K020146-1	6321133		1.0	11/27/06 13:54		☐
31	JHQ88	G6K020146-2	6321133	2A	1.0	11/27/06 13:56		☐
32	JHQ9A	G6K020146-3	6321133	2A	1.0	11/27/06 13:59		☐
33	JHQ9F	G6K020146-4	6321133	2A	1.0	11/27/06 14:02		☐
34	JHQ9H	G6K020146-5	6321133	2A	1.0	11/27/06 14:05		☐
35	JHRAM	G6K020151-1	6321133	2A	1.0	11/27/06 14:08		☐
36	JHRAX	G6K020151-2	6321133	2A	1.0	11/27/06 14:11		☐
37	JHRA2	G6K020151-3	6321133	2A	1.0	11/27/06 14:13		☐
38	CCV 5				1.0	11/27/06 14:16		☐
39	CCB 5				1.0	11/27/06 14:19		☐
40	CCV 6				1.0	11/27/06 14:22		☐
41	CCB 6				1.0	11/27/06 14:25		☐
42	JHRA4	G6K020151-4	6321133	2A	1.0	11/27/06 14:28		☐
43	JJACE	G6K090141-1	6326120	2A	1.0	11/27/06 14:31		☐
44	JJACEP5	G6K090141	6326120		5.0	11/27/06 14:33		☐
45	JJACEZ	G6K090141-1	6326120		1.0	11/27/06 14:36		☐
46	JJACG	G6K090141-2	6326120	2A	1.0	11/27/06 14:39		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 11/28/06 15:14:25

File ID: 061127A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	JJACH	G6K090141-3	6326120	2A	1.0	11/27/06 14:42		☐
48	JJACJ	G6K090141-4	6326120	2A	1.0	11/27/06 14:45		☐
49	JJACK	G6K090141-5	6326120	2A	1.0	11/27/06 14:48		☐
50	JJMHA	G6K140165-1	6326120	2A	1.0	11/27/06 14:50		☐
51	JJMHE	G6K140165-2	6326120	2A	1.0	11/27/06 14:53		☐
52	CCV 7				1.0	11/27/06 14:56		☐
53	CCB 7				1.0	11/27/06 14:59		☐
56	CCV 8				1.0	11/27/06 15:02		☐
57	CCB 8				1.0	11/27/06 15:05		☐
58	JJMHF	G6K140165-3	6326120	2A	1.0	11/27/06 15:08		☐
59	LLSTD 10X				10.0	11/27/06 15:10		☐
60	LLSTD 5X				5.0	11/27/06 15:13		☐
61	ICSA				1.0	11/27/06 15:15		☐
62	ICSAB				1.0	11/27/06 15:18		☐
63	Rinse				1.0	11/27/06 15:21		☐
64	CCV 9				1.0	11/27/06 15:24		☐
65	CCB 9				1.0	11/27/06 15:26		☐
66	CCV 10				1.0	11/27/06 15:29		☐
67	CCB 10				1.0	11/27/06 15:32		☐
68	JG77M	G6J250276-3	6321081	2A	1.0	11/27/06 15:35		☐
69	JG77Q	G6J250276-4	6321081	2A	1.0	11/27/06 15:38		☐
70	JG77T	G6J250276-5	6321081	2A	1.0	11/27/06 15:41		☐
71	JG77V	G6J250276-6	6321081	2A	1.0	11/27/06 15:43		☐
72	JG77X	G6J250276-7	6321081	2A	1.0	11/27/06 15:46		☐
73	JG772	G6J250276-8	6321081	2A	1.0	11/27/06 15:49		☐
74	JH244	G6K060161-1	6321081	2A	1.0	11/27/06 15:52		☐
75	JH249	G6K060161-2	6321081	2A	1.0	11/27/06 15:55		☐
76	JH25C	G6K060161-3	6321081	2A	1.0	11/27/06 15:58		☐
77	JH25D	G6K060161-4	6321081	2A	1.0	11/27/06 16:00		☐
78	CCV 11				1.0	11/27/06 16:03		☐
79	CCB 11				1.0	11/27/06 16:06		☐
80	CCV 12				1.0	11/27/06 16:09		☐
81	CCB 12				1.0	11/27/06 16:12		☐
82	JJKH2B	G6K130000	6317263	2A	1.0	11/27/06 16:15		☐
83	JHA94	G6J260249-1	6317263	2A	1.0	11/27/06 16:18		☐
84	JHA94P5	G6J260249	6317263		5.0	11/27/06 16:21		☐
85	JHA94Z	G6J260249-1	6317263		1.0	11/27/06 16:23		☐
86	JHA95	G6J260249-2	6317263	2A	1.0	11/27/06 16:26		☐
87	JHA96	G6J260249-3	6317263	2A	1.0	11/27/06 16:29		☐
88	JHA97	G6J260249-4	6317263	2A	1.0	11/27/06 16:32		☐
89	JHA99	G6J260249-5	6317263	2A	1.0	11/27/06 16:35		☐
90	JHCAA	G6J260249-6	6317263	2A	1.0	11/27/06 16:38		☐
91	JHCAC	G6J260249-7	6317263	2A	1.0	11/27/06 16:41		☐
92	CCV 13				1.0	11/27/06 16:44		☐
93	CCB 13				1.0	11/27/06 16:46		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 15:14:25

File ID: 061127A1 **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse	11/27/06 12:31	95.1	☐
2	Blank	11/27/06 12:34	100.0	☑
3	Standard1	11/27/06 12:38	97.7	☑
4	ICV	11/27/06 12:40	97.7	☑
5	ICB	11/27/06 12:43	98.6	☑
6	LLSTD 10X	11/27/06 12:46	104.6	☑
7	LLSTD 5X	11/27/06 12:48	103.7	☑
8	ICSA	11/27/06 12:51	78.0	☑
9	ICSAB	11/27/06 12:54	78.8	☑
10	Rinse	11/27/06 12:57	99.5	☑
11	CCV 1	11/27/06 13:00	100.2	☑
12	CCB 1	11/27/06 13:03	100.3	☑
13	CCV 2	11/27/06 13:06	99.8	☑
14	CCB 2	11/27/06 13:09	103.3	☑
15	JJXAJC	11/27/06 13:12	98.6	☑
16	JJXAJL	11/27/06 13:15	97.1	☑
17	JJ71FC	11/27/06 13:17	97.4	☑
18	JJ71FL	11/27/06 13:20	93.7	☑
19	Rinse	11/27/06 13:23	95.8	☑
20	JJXAJB	11/27/06 13:26	97.9	☑
21	MB CONTRO	11/27/06 13:29	103.8	☑
22	JJ71FB	11/27/06 13:31	100.0	☑
23	MB CONTRO	11/27/06 13:34	105.0	☑
24	CCV 3	11/27/06 13:36	100.2	☑
25	CCB 3	11/27/06 13:39	102.4	☑
26	CCV 4	11/27/06 13:42	100.0	☑
27	CCB 4	11/27/06 13:45	101.6	☑
28	JHQ8V	11/27/06 13:48	100.9	☑
29	JHQ8VP5	11/27/06 13:51	101.4	☐
30	JHQ8VZ	11/27/06 13:54	98.7	☑
31	JHQ88	11/27/06 13:56	98.5	☑
32	JHQ9A	11/27/06 13:59	99.3	☑
33	JHQ9F	11/27/06 14:02	97.4	☑
34	JHQ9H	11/27/06 14:05	97.0	☑
35	JHRAM	11/27/06 14:08	98.4	☑
36	JHRAX	11/27/06 14:11	99.5	☑
37	JHRA2	11/27/06 14:13	98.6	☑
38	CCV 5	11/27/06 14:16	99.3	☑
39	CCB 5	11/27/06 14:19	101.0	☑
40	CCV 6	11/27/06 14:22	99.9	☑
41	CCB 6	11/27/06 14:25	101.5	☑
42	JHRA4	11/27/06 14:28	100.5	☑
43	JJACE	11/27/06 14:31	100.7	☑
44	JJACEP5	11/27/06 14:33	102.3	☐
45	JJACEZ	11/27/06 14:36	99.2	☑
46	JJACG	11/27/06 14:39	98.8	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 11/28/06 15:14:25

File ID: 061127A1 **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Q
47	JJACH	11/27/06 14:42	98.7	☑
48	JJACJ	11/27/06 14:45	99.5	☑
49	JJACK	11/27/06 14:48	98.1	☑
50	JJMHA	11/27/06 14:50	96.6	☑
51	JJMHE	11/27/06 14:53	93.6	☑
52	CCV 7	11/27/06 14:56	97.8	☑
53	CCB 7	11/27/06 14:59	99.4	☑
56	CCV 8	11/27/06 15:02	98.8	☑
57	CCB 8	11/27/06 15:05	100.6	☑
58	JJMHF	11/27/06 15:08	100.3	☑
59	LLSTD 10X	11/27/06 15:10	105.7	☑
60	LLSTD 5X	11/27/06 15:13	106.4	☑
61	ICSA	11/27/06 15:15	78.6	☑
62	ICSAB	11/27/06 15:18	78.5	☑
63	Rinse	11/27/06 15:21	99.4	☑
64	CCV 9	11/27/06 15:24	99.6	☑
65	CCB 9	11/27/06 15:26	100.7	☑
66	CCV 10	11/27/06 15:29	99.5	☑
67	CCB 10	11/27/06 15:32	98.5	☑
68	JG77M	11/27/06 15:35	100.5	☑
69	JG77Q	11/27/06 15:38	101.4	☑
70	JG77T	11/27/06 15:41	100.5	☑
71	JG77V	11/27/06 15:43	102.3	☑
72	JG77X	11/27/06 15:46	101.9	☑
73	JG772	11/27/06 15:49	101.3	☑
74	JH244	11/27/06 15:52	101.0	☑
75	JH249	11/27/06 15:55	101.6	☑
76	JH25C	11/27/06 15:58	102.7	☑
77	JH25D	11/27/06 16:00	102.6	☑
78	CCV 11	11/27/06 16:03	102.9	☑
79	CCB 11	11/27/06 16:06	102.3	☑
80	CCV 12	11/27/06 16:09	100.5	☑
81	CCB 12	11/27/06 16:12	103.7	☑
82	JJKH2B	11/27/06 16:15	101.5	☑
83	JHA94	11/27/06 16:18	101.6	☑
84	JHA94P5	11/27/06 16:21	104.6	☐
85	JHA94Z	11/27/06 16:23	97.6	☑
86	JHA95	11/27/06 16:26	98.3	☑
87	JHA96	11/27/06 16:29	99.2	☑
88	JHA97	11/27/06 16:32	99.7	☑
89	JHA99	11/27/06 16:35	100.6	☑
90	JHCAA	11/27/06 16:38	101.5	☑
91	JHCAC	11/27/06 16:41	100.1	☑
92	CCV 13	11/27/06 16:44	99.2	☑
93	CCB 13	11/27/06 16:46	102.7	☑

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

File Name: 6326122R.mth
File Path: C:\elandata\Method\6326122R.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
As	74.922	Peak Hopping	1	20.0 ms	1000 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
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78

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			
As	74.922	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			

Report Date/Time: Monday, November 27, 2006 17:12:38

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

AIR TOX STANDARDS - 4 % HNO_3, 0.5 % HCl

Standards for run:

Tuning standard: 2830-25D

Internal standard: 2830-26B

Blank, CCBs: 2531-34G

Standard 1, CCVs: 2830-24D

ICV: 2830-18D

ICSA: 2830-22B

ICSAB: 2830-25A

File Number: 061127A1

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Monday, November 27, 2006 11:57:51

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	6.976	1567	0.731	2028	
Be	9.012	9.029	2070	0.721	2015	
Co	58.933	58.879	14281	0.740	1887	
In	114.904	114.929	27962	0.727	1849	
Ce	139.905	139.928	34035	0.732	1893	
Tl	204.975	204.979	49740	0.715	2111	
Pb	207.977	207.979	50476	0.704	2132	
U	238.050	238.077	57685	0.695	2293	

Report Date/Time: Monday, November 27, 2006 11:59:28

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Monday, November 27, 2006 12:05:26
Sample Description:
Sample File: C:\elandata\Sample\6326122X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\061127A1\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	77831.578	783.714	1.007
	Rh	103	349785.858	2789.205	0.797
	Pb	208	216848.307	2009.960	0.927
>	Ba	138	364279.591	3471.797	0.953
	Ba++	69	0.022	0.001	2.355
>	Ce	140	443986.327	1856.872	0.418
	CeO	156	0.031	0.002	6.862
	Bkgd	220	2.571	0.639	24.845
	Li	7	14113.964	33.501	0.237
	Be	9	4884.383	100.042	2.048
	Co	59	185237.513	2731.812	1.475
	In	115	448563.492	3195.337	0.712
	Tl	205	314344.341	4561.777	1.451

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, November 27, 2006 12:31:50
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\Rinse.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			2091751.215	ug/L	0.000
⌈	44	Ca			24436.749	ug/L	0.000
|	68	Zn			4050.281	ug/L	0.000
|	75	As			20827.163	ug/L	0.000
⌊>	72	Ge-1			1567691.740	ug/L	0.000
⌈	67	Zn			2183.763	ug/L	0.000
|	66	Zn			1775.515	ug/L	0.000
⌊>	72	Ge			1567691.740	ug/L	0.000
	106	Pd			7.000	ug/L	0.000
	83	Kr			440.344	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	
	Kr	83	

Report Date/Time: Monday, November 27, 2006 12:32:27
Page 1
Sample ID: Rinse

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:34:59
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\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			2215394.987	ug/L	
⌈	44	Ca			23597.780	ug/L	
|	68	Zn			5732.557	ug/L	
|	75	As			21004.722	ug/L	
⌊>	72	Ge-1			1648032.719	ug/L	
⌈	67	Zn			2136.397	ug/L	
|	66	Zn			2620.438	ug/L	
⌊>	72	Ge			1648032.719	ug/L	
	106	Pd			10.667	ug/L	
	83	Kr			438.678	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	
	Kr	83	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:38:01
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\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			2181033.556	ug/L	2215394.987
⌈	44	Ca	5100.000000	0.769	2102346.615	ug/L	23597.780
|	68	Zn	100.000000	0.514	118991.998	ug/L	5732.557
|	75	As	100.000000	1.376	300672.457	ug/L	21004.722
⌊>	72	Ge-1			1610765.234	ug/L	1648032.719
⌈	67	Zn	100.000000	2.431	11648.338	ug/L	2136.397
|	66	Zn	100.000000	1.071	58111.336	ug/L	2620.438
⌊>	72	Ge			1610765.234	ug/L	1648032.719
	106	Pd	100.000000	1.088	25244.366	ug/L	10.667
	83	Kr	100.000000	73.956	461.679	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: ICV

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 12:40:48

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\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			2165872.546	ug/L	2215394.987
⌈	44	Ca	883.345043	3.632	382691.058	ug/L	23597.780
|	68	Zn	83.066221	4.143	99645.217	ug/L	5732.557
|	75	As	81.052883	5.008	247212.651	ug/L	21004.722
⌊>	72	Ge-1			1609605.763	ug/L	1648032.719
⌈	67	Zn	84.578095	4.517	10160.827	ug/L	2136.397
|	66	Zn	82.502934	5.192	48313.365	ug/L	2620.438
⌊>	72	Ge			1609605.763	ug/L	1648032.719
	106	Pd	81.232672	1.079	20508.675	ug/L	10.667
	83	Kr	136.231962	55.370	470.013	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	97.668
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.668
	Pd	106	
	Kr	83	

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:43:40
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\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			2187519.266	ug/L	2215394.987
⌈	44	Ca	0.387344	165.791	23416.965	ug/L	23597.780
|	68	Zn	-2.467240	8.185	2830.460	ug/L	5732.557
|	75	As	-0.269608	86.783	19935.977	ug/L	21004.722
⌊>	72	Ge-1			1624272.210	ug/L	1648032.719
⌈	67	Zn	-1.490025	37.073	1961.616	ug/L	2136.397
|	66	Zn	-2.582987	5.080	1136.207	ug/L	2620.438
⌊>	72	Ge			1624272.210	ug/L	1648032.719
	106	Pd	-0.005284	263.391	9.333	ug/L	10.667
	83	Kr	-76.811500	58.824	421.010	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	98.558
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.558
	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: LLSTD 10X
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:46:36
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\LLSTD 10X.009
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
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			2332809.759	ug/L	2215394.987
⌈	44	Ca	51.057741	1.627	46946.611	ug/L	23597.780
|	68	Zn	3.789958	9.104	10592.081	ug/L	5732.557
|	75	As	0.126492	200.646	22343.028	ug/L	21004.722
⌊>	72	Ge-1			1723277.215	ug/L	1648032.719
⌈	67	Zn	2.757351	11.060	2516.013	ug/L	2136.397
|	66	Zn	3.971874	10.241	5100.833	ug/L	2620.438
⌊>	72	Ge			1723277.215	ug/L	1648032.719
	106	Pd	1.038311	5.040	272.671	ug/L	10.667
	83	Kr	11.594163	645.539	441.344	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	104.566
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	104.566
	Pd	106	
	Kr	83	

Sample ID: LLSTD 5X
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:48:54
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\LLSTD 5X.010
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 84
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			2325863.480	ug/L	2215394.987
⌈	44	Ca	103.525783	0.815	69259.038	ug/L	23597.780
|	68	Zn	8.104509	4.342	15693.732	ug/L	5732.557
|	75	As	1.149728	32.743	25195.784	ug/L	21004.722
⌊>	72	Ge-1			1709147.240	ug/L	1648032.719
⌈	67	Zn	7.460167	11.220	2972.748	ug/L	2136.397
|	66	Zn	8.232863	3.210	7569.490	ug/L	2620.438
⌊>	72	Ge			1709147.240	ug/L	1648032.719
	106	Pd	2.000031	4.831	515.349	ug/L	10.667
	83	Kr	-104.347582	88.421	414.677	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	103.708
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	103.708
	Pd	106	
	Kr	83	

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:51:35
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\ICSA.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			1802763.344	ug/L	2215394.987
⌈	44	Ca	103915.795115	1.346	33849729.289	ug/L	23597.780
|	68	Zn	0.253229	65.623	4703.265	ug/L	5732.557
|	75	As	0.457197	80.398	17415.426	ug/L	21004.722
⌊>	72	Ge-1			1286211.066	ug/L	1648032.719
⌈	67	Zn	29.336347	3.505	3907.108	ug/L	2136.397
|	66	Zn	6.253025	5.137	4819.049	ug/L	2620.438
⌊>	72	Ge			1286211.066	ug/L	1648032.719
	106	Pd	1.714683	8.701	443.345	ug/L	10.667
	83	Kr	1640.613432	5.776	816.038	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	78.045
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	78.045
	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, November 27, 2006 12:54:24
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\ICSAB.012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc			1825376.504	ug/L	2215394.987
44	Ca	104225.196779	0.625	34277723.266	ug/L	23597.780
68	Zn	94.665378	0.348	91054.989	ug/L	5732.557
75	As	103.447537	0.286	250203.487	ug/L	21004.722
72	Ge-1			1298597.488	ug/L	1648032.719
67	Zn	123.860465	1.408	11231.148	ug/L	2136.397
66	Zn	100.911385	0.845	47260.031	ug/L	2620.438
72	Ge			1298597.488	ug/L	1648032.719
106	Pd	79.184369	0.274	19991.812	ug/L	10.667
83	Kr	1798.591465	6.370	852.375	ug/L	438.678

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	78.797
Zn	67	
Zn	66	
Ge	72	78.797
Pd	106	
Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: Rinse

Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 12:57:16
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\Rinse.013
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			2222892.439	ug/L	2215394.987
⌈	44	Ca	-6.726523	17.044	20674.062	ug/L	23597.780
¦	68	Zn	-2.714762	7.205	2567.378	ug/L	5732.557
¦	75	As	0.075248	32.791	21105.648	ug/L	21004.722
⌊>	72	Ge-1			1639111.712	ug/L	1648032.719
⌈	67	Zn	-2.465793	24.472	1884.902	ug/L	2136.397
¦	66	Zn	-2.804431	7.976	1019.834	ug/L	2620.438
⌊>	72	Ge			1639111.712	ug/L	1648032.719
	106	Pd	-0.010568	150.000	8.000	ug/L	10.667
	83	Kr	157.971163	51.564	475.013	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
¦	Zn	68	
¦	As	75	
⌊>	Ge-1	72	99.459
⌈	Zn	67	
¦	Zn	66	
⌊>	Ge	72	99.459
	Pd	106	
	Kr	83	

Report Date/Time: Monday, November 27, 2006 12:57:53
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STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 13:00:09
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 1.014
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			2197787.679	ug/L	2215394.987
⌈	44	Ca	5058.143758	1.408	2137226.915	ug/L	23597.780
|	68	Zn	99.119264	0.579	120935.348	ug/L	5732.557
|	75	As	100.297226	0.956	309035.900	ug/L	21004.722
⌊>	72	Ge-1			1650983.314	ug/L	1648032.719
⌈	67	Zn	99.090331	0.262	11851.433	ug/L	2136.397
|	66	Zn	98.194993	0.518	58535.483	ug/L	2620.438
⌊>	72	Ge			1650983.314	ug/L	1648032.719
	106	Pd	95.628432	0.631	24141.258	ug/L	10.667
	83	Kr	256.522392	46.551	497.681	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.179
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.179
	Pd	106	
	Kr	83	

Report Date/Time: Monday, November 27, 2006 13:00:45
Page 1

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 13:03:42
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 1.015
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			2199169.385	ug/L	2215394.987
⌈	44	Ca	-5.785286	32.449	21230.061	ug/L	23597.780
|	68	Zn	-2.920975	6.755	2350.985	ug/L	5732.557
|	75	As	0.351271	52.848	22073.455	ug/L	21004.722
⌊>	72	Ge-1			1652532.160	ug/L	1648032.719
⌈	67	Zn	-2.285951	21.298	1917.255	ug/L	2136.397
|	66	Zn	-3.034989	6.729	898.798	ug/L	2620.438
⌊>	72	Ge			1652532.160	ug/L	1648032.719
	106	Pd	-0.010568	112.500	8.000	ug/L	10.667
	83	Kr	-40.579630	258.553	429.344	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.273
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.273
	Pd	106	
	Kr	83	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 13:06:34
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 2.016
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2220597.147	ug/L	2215394.987
⌈	44	Ca	5123.750467	0.065	2157206.012	ug/L	23597.780
|	68	Zn	100.048572	0.921	121586.963	ug/L	5732.557
|	75	As	99.985675	0.364	307072.479	ug/L	21004.722
⌊>	72	Ge-1			1645151.346	ug/L	1648032.719
⌈	67	Zn	97.524455	1.554	11656.032	ug/L	2136.397
|	66	Zn	97.850890	0.568	58135.457	ug/L	2620.438
⌊>	72	Ge			1645151.346	ug/L	1648032.719
	106	Pd	93.362073	1.376	23569.372	ug/L	10.667
	83	Kr	271.015147	25.213	501.014	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
:	As	75	
⌊>	Ge-1	72	99.825
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.825
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 2

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:09:26

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 2.017

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2263037.403	ug/L	2215394.987
⌈	44	Ca	-7.396395	9.682	21196.984	ug/L	23597.780
|	68	Zn	-3.005917	7.790	2321.311	ug/L	5732.557
|	75	As	-0.153622	262.125	21241.999	ug/L	21004.722
⌊>	72	Ge-1			1703003.773	ug/L	1648032.719
⌈	67	Zn	-3.302960	19.417	1873.228	ug/L	2136.397
|	66	Zn	-3.149217	6.516	858.453	ug/L	2620.438
⌊>	72	Ge			1703003.773	ug/L	1648032.719
	106	Pd	-0.015852	101.036	6.667	ug/L	10.667
	83	Kr	146.376909	47.370	472.346	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	103.336
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	103.336
	Pd	106	
	Kr	83	

Sample ID: JJ71FC
Sample Description: G6K220000-120 LCS
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 13:17:52
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJ71FC.020
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 103
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			2124187.320	ug/L	2215394.987
⌈	44	Ca	1120.591223	1.737	478013.146	ug/L	23597.780
|	68	Zn	184.817321	1.597	214286.901	ug/L	5732.557
|	75	As	177.909507	1.639	516840.895	ug/L	21004.722
⌊>	72	Ge-1			1604362.184	ug/L	1648032.719
⌈	67	Zn	175.843953	1.068	18825.875	ug/L	2136.397
|	66	Zn	179.503426	0.785	101869.814	ug/L	2620.438
⌊>	72	Ge			1604362.184	ug/L	1648032.719
	106	Pd	171.831936	0.596	43370.221	ug/L	10.667
	83	Kr	210.145275	38.652	487.014	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	97.350
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.350
	Pd	106	
	Kr	83	

Sample ID: JJ71FL
Sample Description: G6K220000-120 LCSD
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 13:20:40
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJ71FL.021
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 104
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			2069553.323	ug/L	2215394.987
⌈	44	Ca	1191.670721	4.119	487485.079	ug/L	23597.780
|	68	Zn	195.191571	4.425	217350.087	ug/L	5732.557
|	75	As	187.890183	3.791	523893.194	ug/L	21004.722
⌊>	72	Ge-1			1544164.856	ug/L	1648032.719
⌈	67	Zn	185.770530	2.953	19019.375	ug/L	2136.397
|	66	Zn	189.376859	3.291	103237.940	ug/L	2620.438
⌊>	72	Ge			1544164.856	ug/L	1648032.719
	106	Pd	176.181225	0.389	44467.708	ug/L	10.667
	83	Kr	252.174497	37.983	496.681	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	93.697
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	93.697
	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: JJ71FB
Sample Description: G6K220000-120 BLK
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 13:31:42
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJ71FB.025
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 22
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2183721.464	ug/L	2215394.987
⌈	44	Ca	139.653387	0.976	81854.084	ug/L	23597.780
|	68	Zn	-1.416993	8.295	4088.956	ug/L	5732.557
|	75	As	-0.086521	237.118	20755.398	ug/L	21004.722
⌊>	72	Ge-1			1648058.677	ug/L	1648032.719
⌈	67	Zn	-8.732424	7.612	1281.930	ug/L	2136.397
|	66	Zn	-1.378660	7.827	1836.873	ug/L	2620.438
⌊>	72	Ge			1648058.677	ug/L	1648032.719
	106	Pd	0.009247	42.857	13.000	ug/L	10.667
	83	Kr	149.275507	64.276	473.013	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.002
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.002
	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: MB CONTROL
Sample Description:
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 13:34:41
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\MB CONTROL.026
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 23
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			2325327.408	ug/L	2215394.987
⌈	44	Ca	338.989141	1.919	173259.661	ug/L	23597.780
|	68	Zn	0.097552	363.742	6139.494	ug/L	5732.557
|	75	As	-0.570140	13.132	20339.533	ug/L	21004.722
⌊>	72	Ge-1			1730588.807	ug/L	1648032.719
⌈	67	Zn	-7.642903	2.248	1458.340	ug/L	2136.397
|	66	Zn	0.021492	1690.937	2765.229	ug/L	2620.438
⌊>	72	Ge			1730588.807	ug/L	1648032.719
	106	Pd	0.541609	11.344	147.335	ug/L	10.667
	83	Kr	123.188431	46.153	467.012	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	105.009
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	105.009
	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, November 27, 2006 13:36:59
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 3.027
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2235743.056	ug/L	2215394.987
⌈	44	Ca	5041.364370	1.879	2131310.261	ug/L	23597.780
|	68	Zn	96.555482	3.008	117989.199	ug/L	5732.557
|	75	As	96.782043	2.348	299063.403	ug/L	21004.722
⌊>	72	Ge-1			1652142.785	ug/L	1648032.719
⌈	67	Zn	94.721211	3.303	11426.185	ug/L	2136.397
|	66	Zn	94.495350	2.983	56445.224	ug/L	2620.438
⌊>	72	Ge			1652142.785	ug/L	1648032.719
	106	Pd	91.079941	0.375	22993.505	ug/L	10.667
	83	Kr	204.348256	67.361	485.680	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.249
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.249
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 3

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 13:39:51

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 3.028

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: C:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Aliquot Volume (mL):

Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2262591.935	ug/L	2215394.987
⌈	44	Ca	-5.867584	4.636	21659.109	ug/L	23597.780
|	68	Zn	-2.857079	2.154	2476.351	ug/L	5732.557
|	75	As	-0.151428	46.756	21065.440	ug/L	21004.722
⌊>	72	Ge-1			1687662.410	ug/L	1648032.719
⌈	67	Zn	-2.693480	29.811	1918.256	ug/L	2136.397
|	66	Zn	-2.951157	1.345	965.816	ug/L	2620.438
⌊>	72	Ge			1687662.410	ug/L	1648032.719
	106	Pd	-0.017173	53.294	6.333	ug/L	10.667
	83	Kr	194.203131	18.642	483.347	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	102.405
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	102.405
	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, November 27, 2006 13:42:44
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 4.029
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2201464.677	ug/L	2215394.987
⌈	44	Ca	5067.657739	0.249	2138118.569	ug/L	23597.780
|	68	Zn	97.795462	0.218	119219.754	ug/L	5732.557
|	75	As	98.039260	1.157	302086.553	ug/L	21004.722
⌊>	72	Ge-1			1648474.010	ug/L	1648032.719
⌈	67	Zn	95.013752	1.345	11433.881	ug/L	2136.397
|	66	Zn	95.319551	0.353	56812.803	ug/L	2620.438
⌊>	72	Ge			1648474.010	ug/L	1648032.719
	106	Pd	92.058735	0.870	23240.491	ug/L	10.667
	83	Kr	266.667265	13.346	500.014	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.027
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.027
	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, November 27, 2006 13:45:36
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 4.030
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2219019.133	ug/L	2215394.987
⌈	44	Ca	-6.866294	9.526	21062.655	ug/L	23597.780
|	68	Zn	-2.535312	22.000	2835.809	ug/L	5732.557
|	75	As	-0.228396	30.407	20674.254	ug/L	21004.722
⌊>	72	Ge-1			1674259.268	ug/L	1648032.719
⌈	67	Zn	-2.283557	26.477	1943.271	ug/L	2136.397
|	66	Zn	-2.554888	22.226	1186.903	ug/L	2620.438
⌊>	72	Ge			1674259.268	ug/L	1648032.719
	106	Pd	-0.009247	49.487	8.333	ug/L	10.667
	83	Kr	15.941951	245.960	442.345	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	101.591
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.591
	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, November 27, 2006 14:16:47
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 5.041
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			2203556.111	ug/L	2215394.987
⌈	44	Ca	5063.402145	2.290	2119688.532	ug/L	23597.780
|	68	Zn	97.965103	2.081	118482.178	ug/L	5732.557
|	75	As	96.553748	1.628	295522.974	ug/L	21004.722
⌊>	72	Ge-1			1635832.312	ug/L	1648032.719
⌈	67	Zn	96.316801	1.353	11472.355	ug/L	2136.397
|	66	Zn	94.720539	1.636	56034.981	ug/L	2620.438
⌊>	72	Ge			1635832.312	ug/L	1648032.719
	106	Pd	89.967419	0.845	22712.775	ug/L	10.667
	83	Kr	178.261040	19.563	479.680	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	99.260
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.260
	Pd	106	
	Kr	83	

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:19:40
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 5.042
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			2238929.284	ug/L	2215394.987
⌈	44	Ca	-4.498855	45.373	21939.484	ug/L	23597.780
|	68	Zn	-2.917755	5.212	2373.990	ug/L	5732.557
|	75	As	-0.292538	61.906	20374.554	ug/L	21004.722
⌊>	72	Ge-1			1665208.469	ug/L	1648032.719
⌈	67	Zn	-2.406249	20.853	1920.590	ug/L	2136.397
|	66	Zn	-2.956332	4.810	950.812	ug/L	2620.438
⌊>	72	Ge			1665208.469	ug/L	1648032.719
	106	Pd	-0.007926	144.338	8.667	ug/L	10.667
	83	Kr	114.492993	150.708	465.012	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	101.042
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.042
	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 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:22:32
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 6.043
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			2192955.485	ug/L	2215394.987
⌈	44	Ca	5022.512783	0.454	2117126.915	ug/L	23597.780
|	68	Zn	97.555802	0.893	118818.653	ug/L	5732.557
|	75	As	97.185336	0.743	299348.175	ug/L	21004.722
⌊>	72	Ge-1			1646795.372	ug/L	1648032.719
⌈	67	Zn	94.172106	0.808	11340.541	ug/L	2136.397
|	66	Zn	94.791338	0.537	56455.398	ug/L	2620.438
⌊>	72	Ge			1646795.372	ug/L	1648032.719
	106	Pd	90.338261	1.120	22806.352	ug/L	10.667
	83	Kr	298.551647	40.785	507.348	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	99.925
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.925
	Pd	106	
	Kr	83	

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:25:24
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 6.044
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			2220521.644	ug/L	2215394.987
⌈	44	Ca	-4.059618	13.984	22230.205	ug/L	23597.780
|	68	Zn	-2.225593	13.947	3195.588	ug/L	5732.557
|	75	As	-0.134581	49.426	20927.202	ug/L	21004.722
⌊>	72	Ge-1			1672589.283	ug/L	1648032.719
⌈	67	Zn	-1.385811	9.977	2030.660	ug/L	2136.397
|	66	Zn	-2.396681	9.492	1276.262	ug/L	2620.438
⌊>	72	Ge			1672589.283	ug/L	1648032.719
	106	Pd	-0.017173	87.368	6.333	ug/L	10.667
	83	Kr	231.884523	38.745	492.014	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	101.490
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.490
	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: JJMHA
Sample Description: G6K140165-1
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 14:50:52
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJMHA.053
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 53
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			2118736.000	ug/L	2215394.987
⌈	44	Ca	478.982393	3.564	215787.545	ug/L	23597.780
|	68	Zn	1.823501	8.830	7581.617	ug/L	5732.557
|	75	As	0.158265	138.764	20731.232	ug/L	21004.722
⌊>	72	Ge-1			1592637.679	ug/L	1648032.719
⌈	67	Zn	-4.778184	16.586	1613.751	ug/L	2136.397
|	66	Zn	1.659308	1.475	3443.563	ug/L	2620.438
⌊>	72	Ge			1592637.679	ug/L	1648032.719
	106	Pd	0.475558	4.883	130.668	ug/L	10.667
	83	Kr	110.144959	76.236	464.012	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	96.639
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	96.639
	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: JJMHE
Sample Description: G6K140165-2
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 14:53:43
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJMHE.054
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 54
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			2055940.125	ug/L	2215394.987
⌈	44	Ca	594.890797	5.103	254051.556	ug/L	23597.780
|	68	Zn	3.613648	9.022	9280.252	ug/L	5732.557
|	75	As	0.404276	93.203	20717.990	ug/L	21004.722
⌊>	72	Ge-1			1542633.315	ug/L	1648032.719
⌈	67	Zn	-3.068750	32.843	1717.473	ug/L	2136.397
|	66	Zn	3.527435	4.375	4327.329	ug/L	2620.438
⌊>	72	Ge			1542633.315	ug/L	1648032.719
	106	Pd	0.544251	4.547	148.001	ug/L	10.667
	83	Kr	75.362321	128.487	456.012	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	93.605
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	93.605
	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 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:56:34
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 7.055
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			2151798.780	ug/L	2215394.987
⌈	44	Ca	5038.922172	0.867	2078105.713	ug/L	23597.780
|	68	Zn	97.385158	0.779	116062.360	ug/L	5732.557
|	75	As	96.913928	0.818	292128.812	ug/L	21004.722
⌊>	72	Ge-1			1611293.053	ug/L	1648032.719
⌈	67	Zn	96.803906	2.086	11348.577	ug/L	2136.397
|	66	Zn	95.680199	0.179	55733.300	ug/L	2620.438
⌊>	72	Ge			1611293.053	ug/L	1648032.719
	106	Pd	88.727787	0.808	22399.970	ug/L	10.667
	83	Kr	198.551028	43.041	484.347	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	97.771
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.771
	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 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:59:27
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 7.056
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			2215742.301	ug/L	2215394.987
⌈	44	Ca	-5.766118	18.622	21053.972	ug/L	23597.780
|	68	Zn	-2.561013	4.839	2743.764	ug/L	5732.557
|	75	As	-0.382217	59.214	19778.259	ug/L	21004.722
⌊>	72	Ge-1			1637320.588	ug/L	1648032.719
⌈	67	Zn	-1.588013	45.201	1968.287	ug/L	2136.397
|	66	Zn	-2.734973	4.733	1059.180	ug/L	2620.438
⌊>	72	Ge			1637320.588	ug/L	1648032.719
	106	Pd	-0.007926	125.831	8.667	ug/L	10.667
	83	Kr	298.551642	39.998	507.348	ug/L	438.678

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	99.350
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.350
	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: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:59:27
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 7.056
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			2215742.301	ug/L	
⌈	44	Ca			21053.972	ug/L	
|	68	Zn			2743.764	ug/L	
|	75	As			19778.259	ug/L	
⌊>	72	Ge-1			1637320.588	ug/L	
⌈	67	Zn			1968.287	ug/L	
|	66	Zn			1059.180	ug/L	
⌊>	72	Ge			1637320.588	ug/L	
	106	Pd			8.667	ug/L	
	83	Kr			507.348	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	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: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 14:56:34
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 7.055
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			2151798.780	ug/L	2215742.301
⌈	44	Ca	5100.000000	0.866	2078105.713	ug/L	21053.972
|	68	Zn	100.000000	0.759	116062.360	ug/L	2743.764
|	75	As	100.000000	0.815	292128.812	ug/L	19778.259
⌊>	72	Ge-1			1611293.053	ug/L	1637320.588
⌈	67	Zn	100.000000	2.052	11348.577	ug/L	1968.287
|	66	Zn	100.000000	0.174	55733.300	ug/L	1059.180
⌊>	72	Ge			1611293.053	ug/L	1637320.588
	106	Pd	100.000000	0.808	22399.970	ug/L	8.667
	83	Kr	100.000000	85.458	484.347	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	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: CCV 8
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 15:02:19
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCV 8.057
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			2175869.148	ug/L	2215742.301
⌈	44	Ca	5104.270298	0.953	2088541.089	ug/L	21053.972
|	68	Zn	101.018325	0.469	117709.134	ug/L	2743.764
|	75	As	100.745128	0.884	295402.102	ug/L	19778.259
⌊>	72	Ge-1			1618050.867	ug/L	1637320.588
⌈	67	Zn	97.614290	1.212	11169.259	ug/L	1968.287
|	66	Zn	99.794350	1.083	55850.334	ug/L	1059.180
⌊>	72	Ge			1618050.867	ug/L	1637320.588
	106	Pd	100.399988	0.741	22489.532	ug/L	8.667
	83	Kr	-79.710419	215.874	525.683	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	98.823
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.823
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001

BJones

Sample ID: CCB 8

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:05:12

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCB 8.058

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			2193499.107	ug/L	2215742.301
[	44	Ca	0.056438	1900.642	21195.983	ug/L	21053.972
|	68	Zn	0.404511	67.459	3227.599	ug/L	2743.764
|	75	As	0.087085	421.134	20132.784	ug/L	19778.259
|>	72	Ge-1			1646535.789	ug/L	1637320.588
[	67	Zn	0.671768	69.722	2044.002	ug/L	1968.287
|	66	Zn	0.449540	76.524	1316.281	ug/L	1059.180
|>	72	Ge			1646535.789	ug/L	1637320.588
	106	Pd	-0.004466	152.752	7.667	ug/L	8.667
	83	Kr	8.695734	851.951	505.348	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
[	Ca	44	
|	Zn	68	
|	As	75	
|>	Ge-1	72	100.563
[	Zn	67	
|	Zn	66	
|>	Ge	72	100.563
	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: JJMHF
Sample Description: G6K140165-3
Batch ID: 6326120
Sample Date/Time: Monday, November 27, 2006 15:08:04
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\JJMHF.059
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 55
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			2162112.495	ug/L	2215742.301
⌈	44	Ca	494.931778	1.775	224564.056	ug/L	21053.972
|	68	Zn	6.196535	4.242	9910.280	ug/L	2743.764
|	75	As	0.807520	25.906	22075.650	ug/L	19778.259
⌊>	72	Ge-1			1641897.904	ug/L	1637320.588
⌈	67	Zn	-2.390331	12.989	1744.487	ug/L	1968.287
|	66	Zn	6.510842	0.704	4690.518	ug/L	1059.180
⌊>	72	Ge			1641897.904	ug/L	1637320.588
	106	Pd	0.666932	14.595	158.001	ug/L	8.667
	83	Kr	-21.739062	291.435	512.348	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.280
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.280
	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: LLSTD 10X
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 15:10:58
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\LLSTD 10X.060
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 83
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			2336751.017	ug/L	2215742.301
⌈	44	Ca	51.086583	1.244	44390.652	ug/L	21053.972
|	68	Zn	6.183497	2.382	10429.881	ug/L	2743.764
|	75	As	0.406866	16.708	22097.756	ug/L	19778.259
⌊>	72	Ge-1			1730666.682	ug/L	1637320.588
⌈	67	Zn	4.466698	14.774	2532.026	ug/L	1968.287
|	66	Zn	6.319827	1.650	4832.067	ug/L	1059.180
⌊>	72	Ge			1730666.682	ug/L	1637320.588
	106	Pd	1.097169	8.246	254.337	ug/L	8.667
	83	Kr	52.173982	154.635	495.347	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	105.701
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	105.701
	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: LLSTD 5X
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 15:13:17
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\LLSTD 5X.061
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 84
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			2364913.650	ug/L	2215742.301
┌	44	Ca	101.391607	4.327	66593.122	ug/L	21053.972
│	68	Zn	9.941804	3.011	15099.686	ug/L	2743.764
│	75	As	1.011688	15.592	24025.097	ug/L	19778.259
└>	72	Ge-1			1742071.034	ug/L	1637320.588
┌	67	Zn	7.901841	10.950	2896.675	ug/L	1968.287
│	66	Zn	10.310987	1.680	7222.003	ug/L	1059.180
└>	72	Ge			1742071.034	ug/L	1637320.588
	106	Pd	2.206278	0.843	502.681	ug/L	8.667
	83	Kr	197.101074	61.488	462.012	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
┌	Ca	44	
│	Zn	68	
│	As	75	
└>	Ge-1	72	106.398
┌	Zn	67	
│	Zn	66	
└>	Ge	72	106.398
	Pd	106	
	Kr	83	

SOP No. SAC-MT-0001
BJones

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 15:15:31
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\ICSA.062
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			1830699.468	ug/L	2215742.301
⌈	44	Ca	106401.280183	1.554	34315444.769	ug/L	21053.972
|	68	Zn	2.636941	5.988	4545.848	ug/L	2743.764
|	75	As	0.666571	40.249	17008.657	ug/L	19778.259
⌊>	72	Ge-1			1287589.725	ug/L	1637320.588
⌈	67	Zn	29.709643	6.217	3781.288	ug/L	1968.287
|	66	Zn	8.580084	3.779	4582.693	ug/L	1059.180
⌊>	72	Ge			1287589.725	ug/L	1637320.588
	106	Pd	1.877264		429.011	ug/L	8.667
	83	Kr	-1494.233398	10.766	851.041	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	78.640
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	78.640
	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, November 27, 2006 15:18:20
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\ICSAB.063
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			1824130.704	ug/L	2215742.301
44	Ca	106624.003301	0.837	34314477.551	ug/L	21053.972
68	Zn	97.838028	0.340	90591.552	ug/L	2743.764
75	As	106.048791	0.383	246091.690	ug/L	19778.259
72	Ge-1			1284780.244	ug/L	1637320.588
67	Zn	128.061510	1.190	11153.872	ug/L	1968.287
66	Zn	104.837158	0.985	46547.447	ug/L	1059.180
72	Ge			1284780.244	ug/L	1637320.588
106	Pd	86.540081	0.355	19386.119	ug/L	8.667
83	Kr	-1634.819041	10.909	883.378	ug/L	507.348

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Zn	68	
As	75	
Ge-1	72	78.468
Zn	67	
Zn	66	
Ge	72	78.468
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, November 27, 2006 15:21:12
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\Rinse.064
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			2177424.510	ug/L	2215742.301
⌈	44	Ca	-3.266566	16.549	19601.265	ug/L	21053.972
|	68	Zn	-0.783098	23.141	1831.527	ug/L	2743.764
|	75	As	0.390148	79.336	20742.887	ug/L	19778.259
⌊>	72	Ge-1			1627932.332	ug/L	1637320.588
⌈	67	Zn	-1.308655	15.795	1832.537	ug/L	1968.287
|	66	Zn	-0.681928	30.163	676.408	ug/L	1059.180
⌊>	72	Ge			1627932.332	ug/L	1637320.588
	106	Pd	-0.00(2732185925.878		8.667	ug/L	8.667
	83	Kr	-92.753719	75.341	528.683	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	99.427
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.427
	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 9

Sample Description:

Batch ID:

Sample Date/Time: Monday, November 27, 2006 15:24:05

Method File: C:\elandata\Method\6326122R.mth

Dataset File: C:\elandata\Dataset\061127A1\CCV 9.065

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			2212140.807	ug/L	2215742.301
⌈	44	Ca	5104.716424	1.084	2104983.795	ug/L	21053.972
|	68	Zn	99.446971	1.494	116815.335	ug/L	2743.764
|	75	As	100.690031	0.950	297536.554	ug/L	19778.259
⌊>	72	Ge-1			1630545.469	ug/L	1637320.588
⌈	67	Zn	98.329854	1.157	11324.148	ug/L	1968.287
|	66	Zn	99.270848	0.476	55995.576	ug/L	1059.180
⌊>	72	Ge			1630545.469	ug/L	1637320.588
	106	Pd	104.176198	0.559	23335.075	ug/L	8.667
	83	Kr	-73.913073	79.865	524.349	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	99.586
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.586
	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 9
Sample Description:
Batch ID:
Sample Date/Time: Monday, November 27, 2006 15:26:57
Method File: C:\elandata\Method\6326122R.mth
Dataset File: C:\elandata\Dataset\061127A1\CCB 9.066
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			2228177.651	ug/L	2215742.301
⌈	44	Ca	-4.153139	13.122	19493.025	ug/L	21053.972
|	68	Zn	-0.308684	56.387	2405.999	ug/L	2743.764
|	75	As	0.411026	66.669	21068.956	ug/L	19778.259
⌊>	72	Ge-1			1649261.412	ug/L	1637320.588
⌈	67	Zn	-0.751289	75.368	1910.251	ug/L	1968.287
|	66	Zn	-0.208340	81.405	950.479	ug/L	1059.180
⌊>	72	Ge			1649261.412	ug/L	1637320.588
	106	Pd	0.007443	91.652	10.333	ug/L	8.667
	83	Kr	-28.985427	133.324	514.015	ug/L	507.348

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Zn	68	
|	As	75	
⌊>	Ge-1	72	100.729
⌈	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.729
	Pd	106	
	Kr	83	

Sample Preparation Log

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 22-Nov-06 **Analyst:** LoeraM **Matrix:** AIR

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

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6K220000	120	JJ71FB	2A	NA	NA	NA	100	6326120	1.2
G6K220000	120	JJ71FC	2A	NA	NA	NA	100	6326120	1.2
G6K220000	120	JJ71FL	2A	NA	NA	NA	100	6326120	1.2
G6K090141	1	JJACE	2A	9	0.75	0.75	100	6326120	1.2
G6K090141	2	JJACG	2A	9	0.75	0.75	100	6326120	1.2
G6K090141	3	JJACH	2A	9	0.75	0.75	100	6326120	1.2
G6K090141	4	JJACJ	2A	9	0.75	0.75	100	6326120	1.2
G6K090141	5	JJACK	2A	9	0.75	0.75	100	6326120	1.2
G6K140165	1	JJMHA	2A	9	0.75	0.75	100	6326120	1.2
G6K140165	2	JJMHE	2A	9	0.75	0.75	100	6326120	1.2
G6K140165	3	JJMHF	2A	9	0.75	0.75	100	6326120	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 # G6K140165-(1-3); G6K090141-(1-5)

Batch Number: 6326120

EPA Analytical Method ID: 6020

Spiked Date: 11/22/06

Hot Plate Microwave ID: 90°-4

MS Run #:

EPA Prep Method ID: 2A

Initial: 90°

Hot Plate Temp Final:

Analyst Initial/Date: mc/11/22/06

Witness Initial/Date: T.L 11/22/06

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	5,000				
		Al, As, Ba, Se, Sn, Tl	200				
		Fe,Mo,Ti	100				
		Sb,Co,Pb,Mn,Ni,V,Zn	50				
		Cu	25				
		Cr	20				
		Be,Cd	5				
		Ag	5.0				
	ICP Part 2 2% HNO_3	K,Na	5,000				
		P,S	1,000				
		B,Li,Sr	100				
	Si H20/Tr HF	Si	1,000				
✓	XCAL-45 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B,Si	50	1774-Mt 8-12	2.0ml		10/07
		As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, Li Sn,Sr,Ti	10				
		Sb,Ag,Tl	2.5				
	Misc. Elements						

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO_3	Mallinckrodt	C370 55		30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	

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

QA-400 DAW 5/22/06

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

AIR, 9056, Sulfate

General Anions by IC

Fluoride
Chloride
Nitrite
Bromide
Nitrate
Phosphate
Sulfate

STL Sacramento

LEVEL 1&2 REVIEW CHECKLIST
GENERAL CHEMISTRY

LAB NUMBERS: G6K200163; G6K200169; G6K200166; G6K200172; G6K150183
G6K180206; G6K200210; G6K090141 and G6K140165

ANALYSIS: 300.0 DATE: 11/22/06 ANALYST: DS

LEVEL 1 RUN REVIEW:	YES	NO	NA
1. Samples are properly preserved and verified			✓
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)	✓		
3. Calibration criteria met	✓		
4. Calibration verifications and second source reference are in control	✓		
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)	✓		
6. Calculations have been checked	✓		
7. QAS +/or QAPP was consulted and followed for client specifics	✓		
8. Standard Tracking # noted on benchsheet +/or runlog	✓		
9. Manual integration performed, documented and approved			✓

LEVEL 1 DATA REVIEW:			
1. Benchsheet complete	✓		
2. QAS +/or QAPP consulted and followed for client specifics for data entry	✓		
3. Data entered properly	✓		
4. Copy of prep sheet and prep checklist attached to run			✓
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.			✓

Completed By & Date: DS 11/28/06

LEVEL 2 REVIEW:			
1. Level 1 checklist complete and verified	✓		
2. Deviations, Anomalies, Holding times checked and approved			✓
3. Reprep/Reanalysis documented and chemist notified	✓		
4. Client specific criteria met	✓		
5. Data entry checked and released in Quantims	✓		
6. Indication on benchsheet on review and release (dated & signed)			✓
7. Manual integration reviewed, approved, and properly documented			✓

Completed By & Date: JDR 12-4-06

Comments:

QA-159 NEK 7/00

Sulfate in Filters

Lot:	G6K090141 and G6K140165			Analysis Date:	11/22/06			
Default RL =	0.040	mg/Filter		Batch:	6331180			
Sample ID	Work Order	Dilution for Fraction of Filter Analyzed*	Instrument Dilution Factor	Adjusted Dilution Factor	Sulfate (mg/L)	RL (mg/Filter)	Total Sulfate (mg/Filter)	% Rec
G6K090141-1	JJACE	12	1	12	2.291	0.4800	1.0997	
G6K090141-2	JJACG	12	1	12	2.412	0.4800	1.1578	
G6K090141-3	JJACH	12	1	12	2.396	0.4800	1.1501	
G6K090141-4	JJACJ	12	1	12	0.227	0.4800	0.1090	
G6K090141-5	JJACK	12	1	12	3.676	0.4800	1.7645	
G6K140165-1	JJMHA	12	1	12	1.163	0.4800	0.5582	
G6K140165-2	JJMHE	12	1	12	1.448	0.4800	0.6950	
G6K140165-3	JJMHF	12	1	12	1.427	0.4800	0.6850	
MB		12	1	12	1.178	0.4800	0.5654	
LCS		12	1	12	10.084	0.4800	4.8403	101
DSC		12	1	12	10.126	0.4800	4.8605	101

* Dilution for Fraction of Filter Analyzed ----------> If entire Filter is used, enter 1

If only a portion of Filter is used, enter "Dilution" based on the fraction used

(i.e. if 1/12 of filter is used for analysis, enter 12; if half of filter is used, enter 2, etc)

LCS True Value =	4.800	mg/Filter
MS/SD True Value =	N/A	
Analyst:	QS	

Date Entered: 11/27/06 Reviewed By: JDC 12.4.06

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 11/27/06
Time: 10:05:08

STL Sacramento

PRODUCTION FIGURES - WET CHEM

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

METHOD: GK Sulfate (9056, Ion Chromatography)
QC BATCH #: **6331180**
PREP DATE: 11/22/06 13:00
COMP DATE: 11/22/06 14:00
USER: OUNIS

INITIALS:
PREP _____
ANAL _____

DATA ENTRY:
INITIALS _____
DATE _____

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJACE-1-AL	G-6K090141-001	XX S 82 GK YM	Y-D		P-0790
JJACG-1-AL	G-6K090141-002	XX S 82 GK YM	Y-D		P-0791
JJACH-1-AL	G-6K090141-003	XX S 82 GK YM	Y-D		P-0793
JJACJ-1-AL	G-6K090141-004	XX S 82 GK YM	Y-D		P-0794
JJACK-1-AL	G-6K090141-005	XX S 82 GK YM	Y-D		P-0795
JJMHA-1-AL	G-6K140165-001	XX S 82 GK YM	Y-D		P-0796
JJMHE-1-AL	G-6K140165-002	XX S 82 GK YM	Y-D		P-0797
JJMHF-1-AL	G-6K140165-003	XX S 82 GK YM	Y-D		P-0799
JKC3P-1-AA	G-6K270000-180-B	XX S 82 GK YM			INTRA-LAB BLANK
JKC3P-1-AC	G-6K270000-180-C	XX S 82 GK YM			INTRA-LAB CHECK
JKC3P-1-AD	G-6K270000-180-L	XX S 82 GK YM			INTRA-LAB CHECK

Control Limits

(85-115)

(85-115)

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch 6331180

Date 11/27/2006
Time 15:20:16

Method Code: GK Sulfate (9056, Ion Chromatography)
Analyst: Sonia Ouni

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
JJACE-1-AL	1.100	mg	0.48	11/22/06	.00	N		1.1 J	0.48	12.00
JJACG-1-AL	1.158	mg	0.48	11/22/06	.00	N		1.2 J	0.48	12.00
JJACH-1-AL	1.150	mg	0.48	11/22/06	.00	N		1.2 J	0.48	12.00
JJACJ-1-AL	0.109	mg	0.48	11/22/06	.00	N		0.11 B,J	0.48	12.00
JJACK-1-AL	1.764	mg	0.48	11/22/06	.00	N		1.8 J	0.48	12.00
JJMHA-1-AL	0.558	mg	0.48	11/22-11/23/06	.00	N		0.56 J	0.48	12.00
JJMHE-1-AL	0.695	mg	0.48	11/22-11/23/06	.00	N		0.70 J	0.48	12.00
JJMHF-1-AL	0.685	mg	0.48	11/22-11/23/06	.00	N		0.68 J	0.48	12.00
JKC3P-1-AA	0.565	mg	0.48	11/22-11/23/06	.00			0.56	0.48	12.00

Notes:
J Method blank contamination. The associated method blank contains the target analyte at a reportable level.
B Estimated result. Result is less than RL.

LCS - LCSD

Work Order	Exception Code	Measured Sample	True Spike	Measured SPIKE	Measured Dup.	Pct. Recovered SPIKE	Pct. Recovered DUP	RPD	Prep. - Anal.	Dil.
JKC3P-1-AC			4.800	4.8403	4.8605	100.83	101.26	.41	11/22-11/23/06	1.00

Notes:

PRODUCTION TOTALS

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

Cal. : 11/22/06
Cal. exp: 11/27/06

IC6
Method 300.0

Sequence: 061122A
Operator: ounis
Eluent: 2867-wc-33-3

Printed: 11/27/2006 4:52:53 PM

Title: AS14A 013004
Datasource: D4N34341_local
Spike: 2627-wc-34-F:CL
2724-wc-32-10
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67

SONIA OUNI
11/22/06

Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
1	BLANK	1.0000	Standard	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	1R	1.0000	Standard	0.510	0.954	n.a.	0.525	0.055	0.233	0.916
3	2R	1.0000	Standard	2.337	4.899	0.504	2.442	0.480	2.289	5.069
4	3R	1.0000	Standard	5.162	9.757	0.983	4.791	0.966	4.571	10.113
5	4R	1.0000	Standard	9.454	20.062	1.947	9.703	1.935	9.237	19.941
6	5R	1.0000	Standard	24.508	50.491	4.909	24.393	4.870	24.048	49.933
7	6R	1.0000	Standard	51.029	99.812	10.157	51.146	10.244	52.322	100.028
8	BLANK	1.0000	Unknown	n.a.	0.888	n.a.	n.a.	n.a.	n.a.	n.a.
9	ICV	1.0000	Unknown	30.844	76.225	7.391	29.752	7.547	29.495	75.494
10	ICB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11	JJ4JT 1X G6K200163-1 NO3, CL, SO4	1.0000	Unknown	0.332	18.916	n.a.	n.a.	3.516	n.a.	32.087
12	JJ4J1 1X G6K200163-2	1.0000	Unknown	n.a.	21.376	n.a.	n.a.	1.942	n.a.	15.696
13	JJ4HW 1X G6K200159-1	1.0000	Unknown	0.240	13.025	n.a.	n.a.	5.882	n.a.	20.957
14	JJ4H6 1X G6K200159-2	1.0000	Unknown	0.166	27.044	n.a.	n.a.	2.592	n.a.	12.291
15	JJ4JL 1X G6K200159-3	1.0000	Unknown	0.253	19.483	n.a.	0.308	6.959	n.a.	19.186
16	JJ4JM 1X G6K200159-4	1.0000	Unknown	0.326	25.851	n.a.	n.a.	4.627	n.a.	9.165
17	JJ4J9 1X G6K200166-1	1.0000	Unknown	0.237	38.271	n.a.	0.519	3.368	n.a.	25.693
18	JJ4KE 1X G6K200166-2	1.0000	Unknown	n.a.	5.153	n.a.	n.a.	9.570	n.a.	12.740
19	JJ4KH 1X G6K200166-3	1.0000	Unknown	0.258	13.208	n.a.	n.a.	4.941	0.180	20.323
20	JJ4KK 2X G6K200166-4	2.0000	Unknown	n.a.	134.408	n.a.	1.321	0.221	n.a.	13.804
21	CCV	1.0000	Unknown	24.142	50.391	4.892	24.311	4.918	24.296	50.009
22	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
23	JJ4KM 2X G6K200166-5	2.0000	Unknown	n.a.	133.689	n.a.	1.301	0.261	n.a.	13.617
24	JJ4KP 1X G6K200166-6	1.0000	Unknown	n.a.	23.893	n.a.	0.339	6.011	n.a.	24.226
25	JJ4KT 1X G6K200166-7	1.0000	Unknown	0.315	9.612	n.a.	n.a.	n.a.	n.a.	1.706
26	JJ4LQ 1X G6K200172-1	1.0000	Unknown	0.232	40.524	n.a.	0.362	0.426	n.a.	9.299
27	JJ4LT 1X G6K200172-2	1.0000	Unknown	n.a.	24.197	n.a.	0.306	2.916	n.a.	74.974
28	JJ4LV 1X G6K200172-3	1.0000	Unknown	n.a.	24.378	n.a.	0.292	2.878	n.a.	74.413
29	JJ4LW 1X G6K200172-4	1.0000	Unknown	0.250	86.416	n.a.	1.110	0.766	n.a.	16.045
30	JJ4L0 1X G6K200172-5	1.0000	Unknown	0.256	12.006	n.a.	n.a.	0.374	n.a.	14.614
31	JJQF3 2X G6K150183-1 CL	2.0000	Unknown	n.a.	169.108	n.a.	0.619	1.416	n.a.	28.798
32	JJQG1 1X G6K150183-2	1.0000	Unknown	n.a.	20.354	n.a.	n.a.	1.097	n.a.	4.817
33	CCV	1.0000	Unknown	25.146	50.286	4.878	24.254	4.893	24.209	49.728
34	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
35	JJ3AX 1X G6K180206-1 CL	1.0000	Unknown	n.a.	21.978	n.a.	n.a.	4.207	n.a.	3.282
36	JJ3A0 1X G6K180206-2	1.0000	Unknown	n.a.	63.597	n.a.	n.a.	1.760	n.a.	11.037
37	JJ3A1 1X G6K180206-3	1.0000	Unknown	n.a.	63.754	n.a.	n.a.	1.804	n.a.	11.048
38	JJ3A2 1X G6K180206-4	1.0000	Unknown	n.a.	16.739	n.a.	n.a.	0.966	n.a.	3.338
39	JJ3A3 1X G6K180206-5	1.0000	Unknown	n.a.	56.286	n.a.	0.409	1.328	n.a.	10.161
40	JJ433 1X G6K200210-1	1.0000	Unknown	n.a.	54.112	n.a.	n.a.	0.889	n.a.	9.161

Method 300.0 ; reporting CL, NO3 and SO4

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Title: AS14A 013004
Datasource: D4N34341_local
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67
Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Status	Program	Method
1	BLANK	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
2	1R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
3	2R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
4	3R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
5	4R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
6	5R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
7	6R	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
8	BLANK	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
9	ICV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
10	ICB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
11	JJ4JT 1X G6K200163-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
12	JJ4J1 1X G6K200163-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
13	JJ4HW 1X G6K200159-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
14	JJ4H6 1X G6K200159-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
15	JJ4JL 1X G6K200159-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
16	JJ4JM 1X G6K200159-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
17	JJ4J9 1X G6K200166-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
18	JJ4KE 1X G6K200166-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
19	JJ4KH 1X G6K200166-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
20	JJ4KK 2X G6K200166-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
21	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
22	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
23	JJ4KM 2X G6K200166-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
24	JJ4KP 1X G6K200166-6	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
25	JJ4KT 1X G6K200166-7	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
26	JJ4LQ 1X G6K200172-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
27	JJ4LT 1X G6K200172-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
28	JJ4LV 1X G6K200172-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
29	JJ4LW 1X G6K200172-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
30	JJ4L0 1X G6K200172-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
31	JJQF3 2X G6K150183-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
32	JJQG1 1X G6K150183-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
33	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
34	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
35	JJ3AX 1X G6K180206-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
36	JJ3A0 1X G6K180206-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
37	JJ3A1 1X G6K180206-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
38	JJ3A2 1X G6K180206-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
39	JJ3A3 1X G6K180206-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
40	JJ433 1X G6K200210-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE

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Title: AS14A 013004
Datasource: D4N34341_local
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67
Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
1	BLANK	11/22/2006 3:06:35 AM	100.0		OUNI SONIA	1.0000
2	1R	11/22/2006 3:24:05 AM	100.0	2724-WC-31-6	OUNI SONIA	1.0000
3	2R	11/22/2006 3:41:36 AM	100.0	2724-WC-31-9	OUNI SONIA	1.0000
4	3R	11/22/2006 3:59:06 AM	100.0	2724-WC-32-1	OUNI SONIA	1.0000
5	4R	11/22/2006 4:16:37 AM	100.0	2724-WC-32-4	OUNI SONIA	1.0000
6	5R	11/22/2006 4:34:08 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
7	6R	11/22/2006 4:51:38 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
8	BLANK	11/22/2006 9:13:57 AM	100.0		OUNI SONIA	1.0000
9	ICV	11/22/2006 9:31:27 AM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
10	ICB	11/22/2006 9:48:57 AM	100.0		OUNI SONIA	1.0000
11	JJ4JT 1X G6K200163-1	11/22/2006 10:06:27 AM	100.0		OUNI SONIA	1.0000
12	JJ4J1 1X G6K200163-2	11/22/2006 10:23:58 AM	100.0		OUNI SONIA	1.0000
13	JJ4HW 1X G6K200159-1	11/22/2006 10:41:28 AM	100.0		OUNI SONIA	1.0000
14	JJ4H6 1X G6K200159-2	11/22/2006 10:58:58 AM	100.0		OUNI SONIA	1.0000
15	JJ4JL 1X G6K200159-3	11/22/2006 11:16:28 AM	100.0		OUNI SONIA	1.0000
16	JJ4JM 1X G6K200159-4	11/22/2006 11:33:59 AM	100.0		OUNI SONIA	1.0000
17	JJ4J9 1X G6K200166-1	11/22/2006 11:51:29 AM	100.0		OUNI SONIA	1.0000
18	JJ4KE 1X G6K200166-2	11/22/2006 12:08:59 PM	100.0		OUNI SONIA	1.0000
19	JJ4KH 1X G6K200166-3	11/22/2006 12:26:29 PM	100.0		OUNI SONIA	1.0000
20	JJ4KK 2X G6K200166-4	11/22/2006 12:44:00 PM	100.0		OUNI SONIA	1.0000
21	CCV	11/22/2006 1:01:30 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
22	CCB	11/22/2006 1:19:00 PM	100.0		OUNI SONIA	1.0000
23	JJ4KM 2X G6K200166-5	11/22/2006 1:36:30 PM	100.0		OUNI SONIA	1.0000
24	JJ4KP 1X G6K200166-6	11/22/2006 1:54:01 PM	100.0		OUNI SONIA	1.0000
25	JJ4KT 1X G6K200166-7	11/22/2006 2:11:31 PM	100.0		OUNI SONIA	1.0000
26	JJ4LQ 1X G6K200172-1	11/22/2006 2:29:01 PM	100.0		OUNI SONIA	1.0000
27	JJ4LT 1X G6K200172-2	11/22/2006 2:46:31 PM	100.0		OUNI SONIA	1.0000
28	JJ4LV 1X G6K200172-3	11/22/2006 3:04:01 PM	100.0		OUNI SONIA	1.0000
29	JJ4LW 1X G6K200172-4	11/22/2006 3:21:32 PM	100.0		OUNI SONIA	1.0000
30	JJ4L0 1X G6K200172-5	11/22/2006 3:39:02 PM	100.0		OUNI SONIA	1.0000
31	JJQF3 2X G6K150183-1	11/22/2006 3:56:32 PM	100.0		OUNI SONIA	1.0000
32	JJQG1 1X G6K150183-2	11/22/2006 4:14:03 PM	100.0		OUNI SONIA	1.0000
33	CCV	11/22/2006 4:31:33 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
34	CCB	11/22/2006 4:49:03 PM	100.0		OUNI SONIA	1.0000
35	JJ3AX 1X G6K180206-1	11/22/2006 5:06:33 PM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
36	JJ3A0 1X G6K180206-2	11/22/2006 5:24:03 PM	100.0		OUNI SONIA	1.0000
37	JJ3A1 1X G6K180206-3	11/22/2006 5:41:34 PM	100.0		OUNI SONIA	1.0000
38	JJ3A2 1X G6K180206-4	11/22/2006 5:59:04 PM	100.0		OUNI SONIA	1.0000
39	JJ3A3 1X G6K180206-5	11/22/2006 6:16:35 PM	100.0		OUNI SONIA	1.0000
40	JJ433 1X G6K200210-1	11/22/2006 6:34:05 PM	100.0		OUNI SONIA	1.0000

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Sequence: 061122A
Operator: ounis

Title: AS14A 013004
Datasource: D4N34341_local
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67

Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Dil. Factor	Type	F [ppm] Fluoride	CL [ppm] Chloride	NO2 [ppm] Nitrite	Br [ppm] Bromide	NO3 [ppm] Nitrate	PO4 [ppm] Phosphate	SO4 [ppm] Sulfate
41	JJ434 1X G6K200210-2 C	1.0000	Unknown	n.a.	41.872	n.a.	n.a.	1.340	n.a.	15.701
42	JJ435 1X G6K200210-3	1.0000	Unknown	n.a.	91.350	n.a.	n.a.	2.647	n.a.	14.890
43	JJ436 5X G6K200210-4	5.0000	Unknown	n.a.	209.148	n.a.	n.a.	2.785	n.a.	56.878
44	JJ437 1X G6K200210-5	1.0000	Unknown	n.a.	70.521	n.a.	n.a.	2.501	n.a.	14.120
45	CCV	1.0000	Unknown	25.117	50.354	4.903	24.265	4.874	24.125	49.335
46	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
47	JJ4KK S 2X G6K200166-4	2.0000	Unknown	9.080	152.457	1.418	10.617	2.133	8.922	33.138
48	JJ4KK D 2X G6K200166-4	2.0000	Unknown	9.304	152.477	1.433	10.614	2.137	8.933	33.632
49	JJ437 S 1X G6K200210-5	1.0000	Unknown	n.a.	81.222	n.a.	n.a.	2.564	n.a.	14.149
50	JJ437 D 1X G6K200210-5	1.0000	Unknown	n.a.	79.598	n.a.	0.279	2.507	n.a.	14.056
51	DU-IVC	1.0000	Unknown	30.094	78.746	n.a.	29.940	7.600	29.537	75.479
52	JJACE 1X G6K090141-1	1.0000	Unknown	n.a.	0.230	n.a.	n.a.	0.685	0.451	2.291
53	JJACG 1X G6K090141-2	1.0000	Unknown	n.a.	0.224	n.a.	n.a.	0.671	0.446	2.412
54	JJACH 1X G6K090141-3	1.0000	Unknown	n.a.	0.216	n.a.	n.a.	0.717	0.419	2.396
55	JJACJ 1X G6K090141-4	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.435	0.227
56	JJACK 1X G6K090141-5	1.0000	Unknown	0.208	0.951	n.a.	n.a.	0.944	0.640	3.676
57	CCV	1.0000	Unknown	23.606	50.322	4.894	24.426	4.923	24.128	49.976
58	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.200
59	JJMHA 1X G6K140165-1	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	0.219	0.455	1.163
60	JJMHE 1X G6K140165-2	1.0000	Unknown	n.a.	0.194	n.a.	n.a.	0.244	0.423	1.448
61	JJMHF 1X G6K140165-3	1.0000	Unknown	n.a.	0.305	n.a.	n.a.	0.201	0.325	1.427
62	MB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	0.355	1.178
63	LCS	1.0000	Unknown	5.111	9.662	0.963	4.743	0.957	4.785	10.084
64	DCS	1.0000	Unknown	4.754	9.702	0.978	4.740	0.948	4.788	10.126
65	CCV	1.0000	Unknown	25.098	50.441	4.901	24.409	4.874	24.028	49.989
66	CCB	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
67	SHUTDOWN	1.0000	Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Sum			308.368	2631.134	55.150	312.235	153.096	304.074	1311.684

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Title: AS14A 013004
Datasource: D4N34341_local
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67
Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Status	Program	Method
41	JJ434 1X G6K200210-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
42	JJ435 1X G6K200210-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
43	JJ436 5X G6K200210-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
44	JJ437 1X G6K200210-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
45	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
46	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
47	JJ4KK S 2X G6K200166-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
48	JJ4KK D 2X G6K200166-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
49	JJ437 S 1X G6K200210-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
50	JJ437 D 1X G6K200210-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
51	DU-IVC	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
52	JJACE 1X G6K090141-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
53	JJACG 1X G6K090141-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
54	JJACH 1X G6K090141-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
55	JJACJ 1X G6K090141-4	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
56	JJACK 1X G6K090141-5	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
57	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
58	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
59	JJMHA 1X G6K140165-1	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
60	JJMHE 1X G6K140165-2	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
61	JJMHF 1X G6K140165-3	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
62	MB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
63	LCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
64	DCS	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
65	CCV	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
66	CCB	Finished	AS14A PROGRAM	AS14A METHODHIGH 8PTCURVE
67	SHUTDOWN	Finished	ICS1000 SHUTDOWN PROGRAM	AS14A METHODHIGH 8PTCURVE
	Sum			

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Sequence: 061122A
Operator: ounis

Title: AS14A 013004
Datasource: D4N34341_local
Location: ICS1000\SEQUENCES\2006\NOVEMBER 2006
Timebase: ICS1000
#Samples: 67

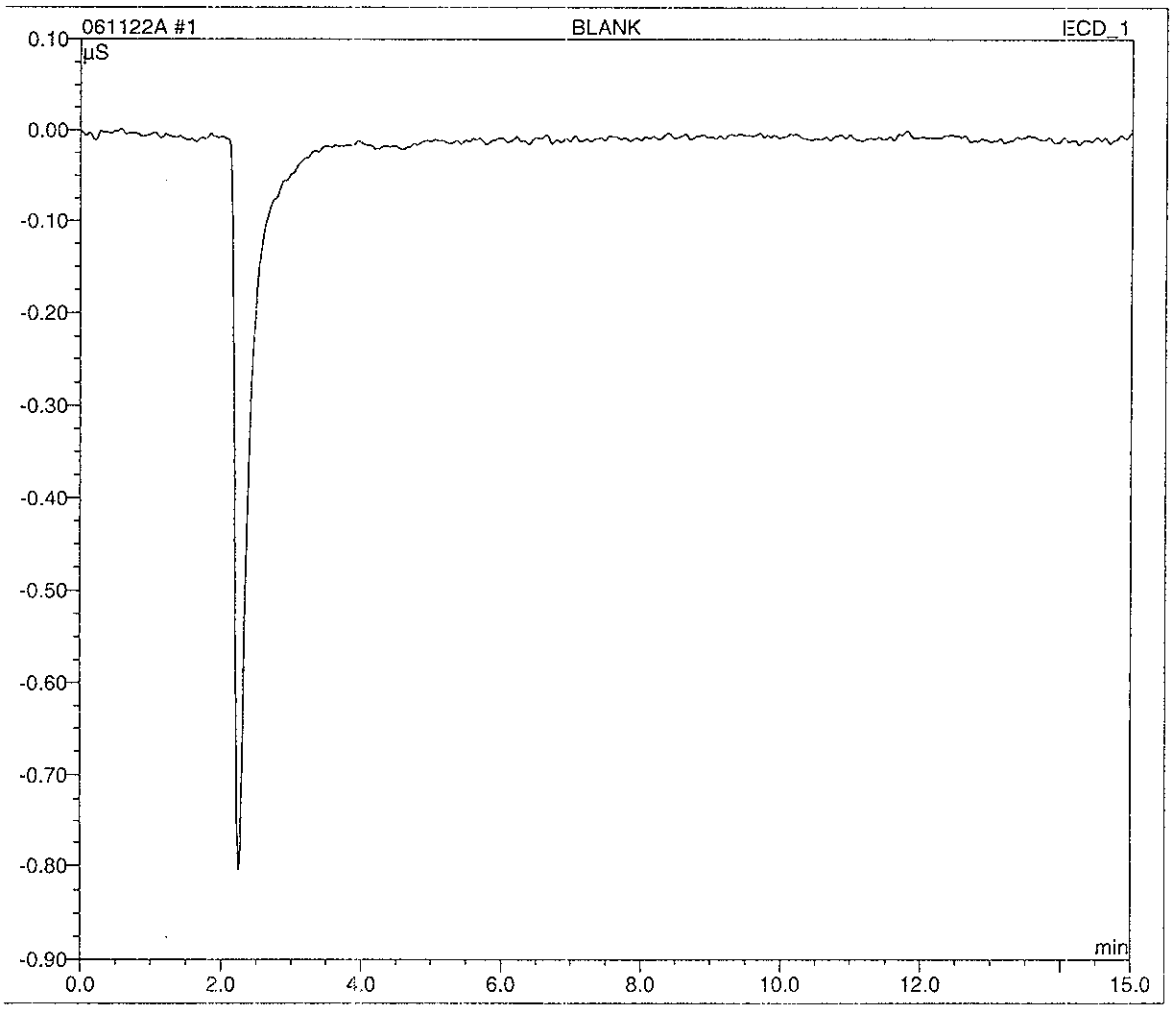
Created: 11/22/2006 9:13:05 AM by ounis
Last Update: 11/27/2006 4:52:06 PM by ounis

No.	Name	Inj. Date/Time	Inj. Vol.	Sample ID	Comment	Weight
41	JJ434 1X G6K200210-2	11/22/2006 6:51:35 PM	100.0		OUNI SONIA	1.0000
42	JJ435 1X G6K200210-3	11/22/2006 7:09:05 PM	100.0		OUNI SONIA	1.0000
43	JJ436 5X G6K200210-4	11/22/2006 7:26:36 PM	100.0		OUNI SONIA	1.0000
44	JJ437 1X G6K200210-5	11/22/2006 7:44:06 PM	100.0		OUNI SONIA	1.0000
45	CCV	11/22/2006 8:01:36 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
46	CCB	11/22/2006 8:19:06 PM	100.0		OUNI SONIA	1.0000
47	JJ4KK S 2X G6K200166-4	11/22/2006 8:36:36 PM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
48	JJ4KK D 2X G6K200166-4	11/22/2006 8:54:07 PM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
49	JJ437 S 1X G6K200210-5	11/22/2006 9:11:37 PM	100.0	2627-WC-34-5	OUNI SONIA	1.0000
50	JJ437 D 1X G6K200210-5	11/22/2006 9:29:07 PM	100.0	2627-WC-34-5	OUNI SONIA	1.0000
51	DU-IVC	11/22/2006 9:46:37 PM	100.0	2724-WC-12-5	OUNI SONIA	1.0000
52	JJACE 1X G6K090141-1	11/22/2006 10:04:08 PM	100.0		OUNI SONIA	1.0000
53	JJACG 1X G6K090141-2	11/22/2006 10:21:38 PM	100.0		OUNI SONIA	1.0000
54	JJACH 1X G6K090141-3	11/22/2006 10:39:08 PM	100.0		OUNI SONIA	1.0000
55	JJACJ 1X G6K090141-4	11/22/2006 10:56:39 PM	100.0		OUNI SONIA	1.0000
56	JJACK 1X G6K090141-5	11/22/2006 11:14:09 PM	100.0		OUNI SONIA	1.0000
57	CCV	11/22/2006 11:31:39 PM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
58	CCB	11/22/2006 11:49:09 PM	100.0		OUNI SONIA	1.0000
59	JJMHA 1X G6K140165-1	11/23/2006 12:06:40 AM	100.0		OUNI SONIA	1.0000
60	JJMHE 1X G6K140165-2	11/23/2006 12:24:10 AM	100.0		OUNI SONIA	1.0000
61	JJMHF 1X G6K140165-3	11/23/2006 12:41:41 AM	100.0		OUNI SONIA	1.0000
62	MB	11/23/2006 12:59:11 AM	100.0		OUNI SONIA	1.0000
63	LCS	11/23/2006 1:16:41 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
64	DCS	11/23/2006 1:34:12 AM	100.0	2724-WC-32-10	OUNI SONIA	1.0000
65	CCV	11/23/2006 1:51:42 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
66	CCB	11/23/2006 2:09:13 AM	100.0	2724-WC-32-7	OUNI SONIA	1.0000
67	SHUTDOWN	11/23/2006 2:26:43 AM	100.0		OUNI SONIA	1.0000
	Sum					

Chromeleon © Dionex Corporation, Version 6.50 SP4 Build 1000

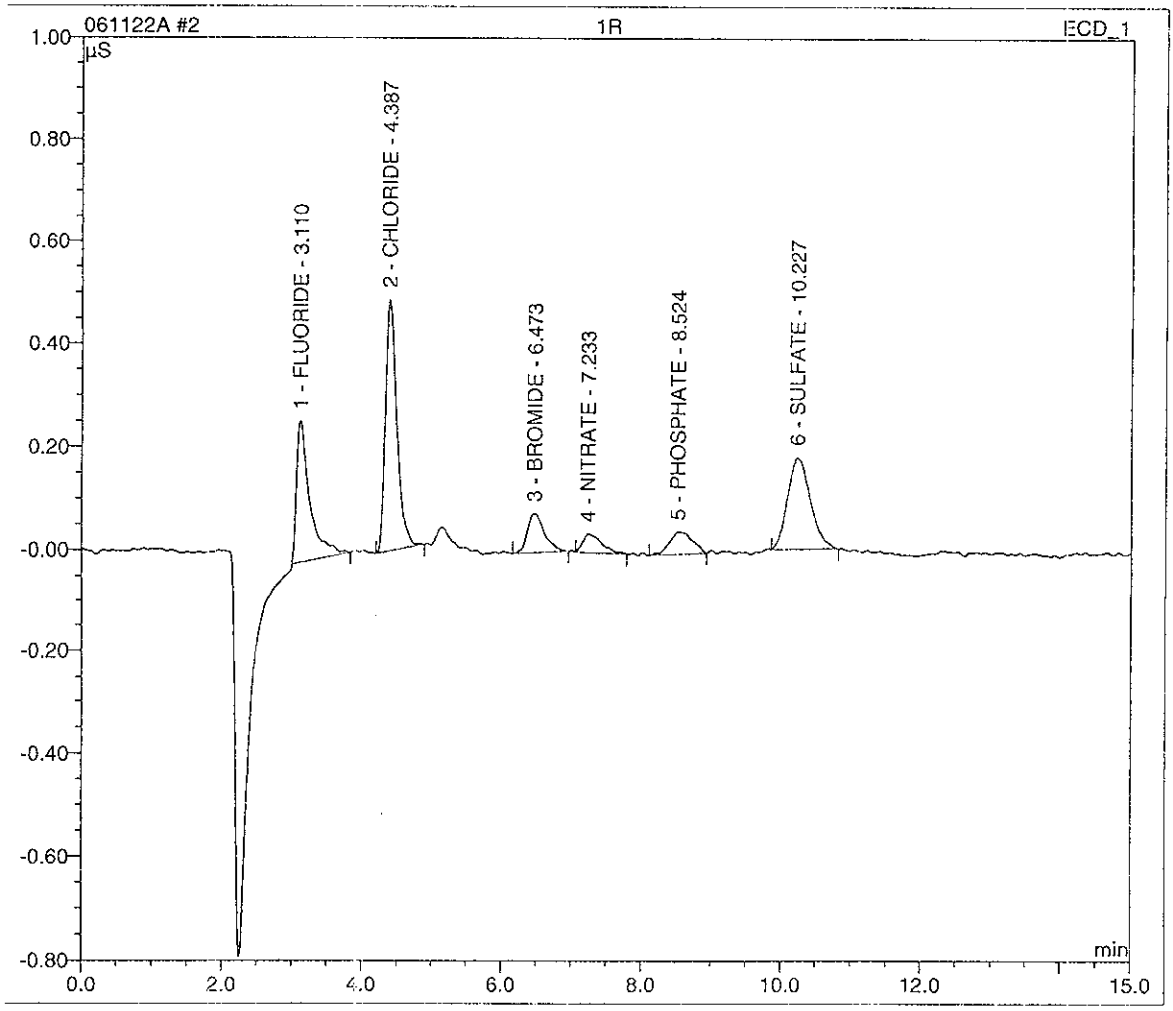
Sample Name:	BLANK	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 03:06	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



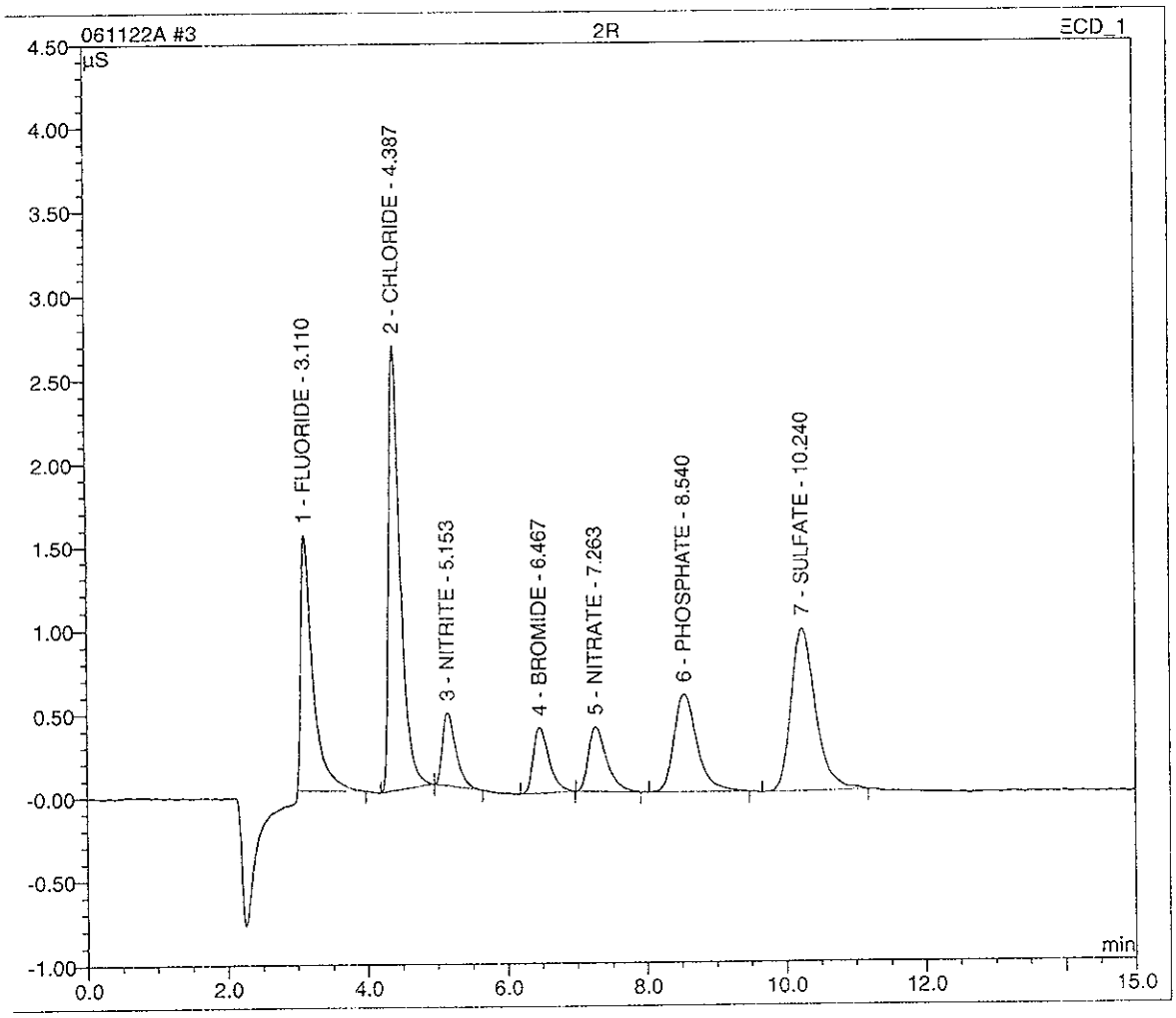
Sample Name:	1R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 03:24	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	0.060	0.273	0.5101
2	4.39	CHLORIDE	BMB	0.092	0.487	0.9543
3	6.47	BROMIDE	BMB	0.021	0.076	0.5245
4	7.23	NITRATE	BMB	0.011	0.036	0.0549
5	8.52	PHOSPHATE	BMB	0.016	0.043	0.2331
6	10.23	SULFATE	BMB	0.067	0.177	0.9164
		TOTAL:		0.27	1.09	3.19



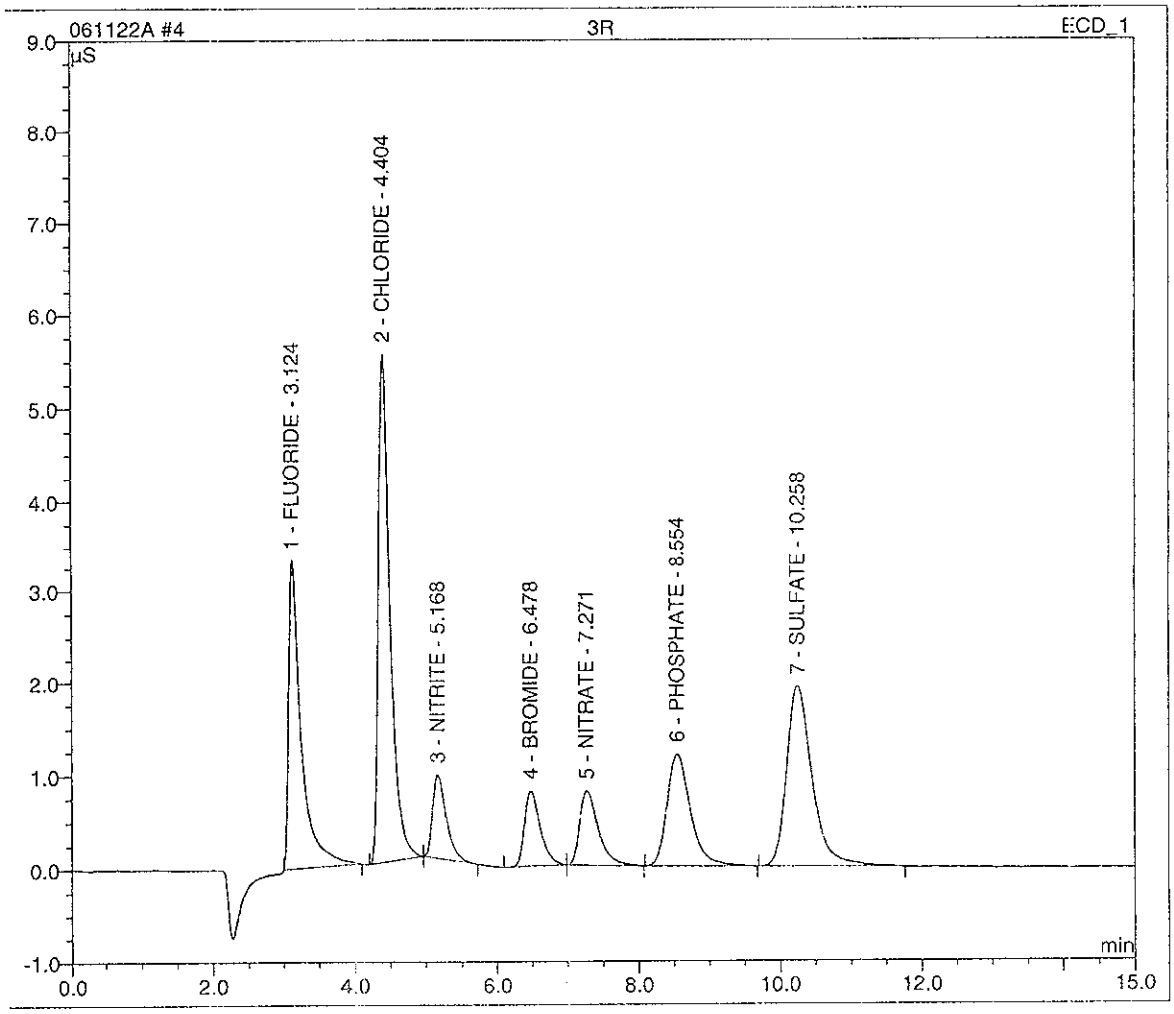
Sample Name:	2R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 03:41	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	0.307	1.531	2.3375
2	4.39	CHLORIDE	BMb	0.514	2.667	4.8985
3	5.15	NITRITE	bMB	0.098	0.439	0.5038
4	6.47	BROMIDE	BMB	0.106	0.398	2.4415
5	7.26	NITRATE	BMB	0.119	0.391	0.4796
6	8.54	PHOSPHATE	BMB	0.228	0.585	2.2886
7	10.24	SULFATE	BMB	0.398	0.973	5.0695
		TOTAL:		1.77	6.99	18.02



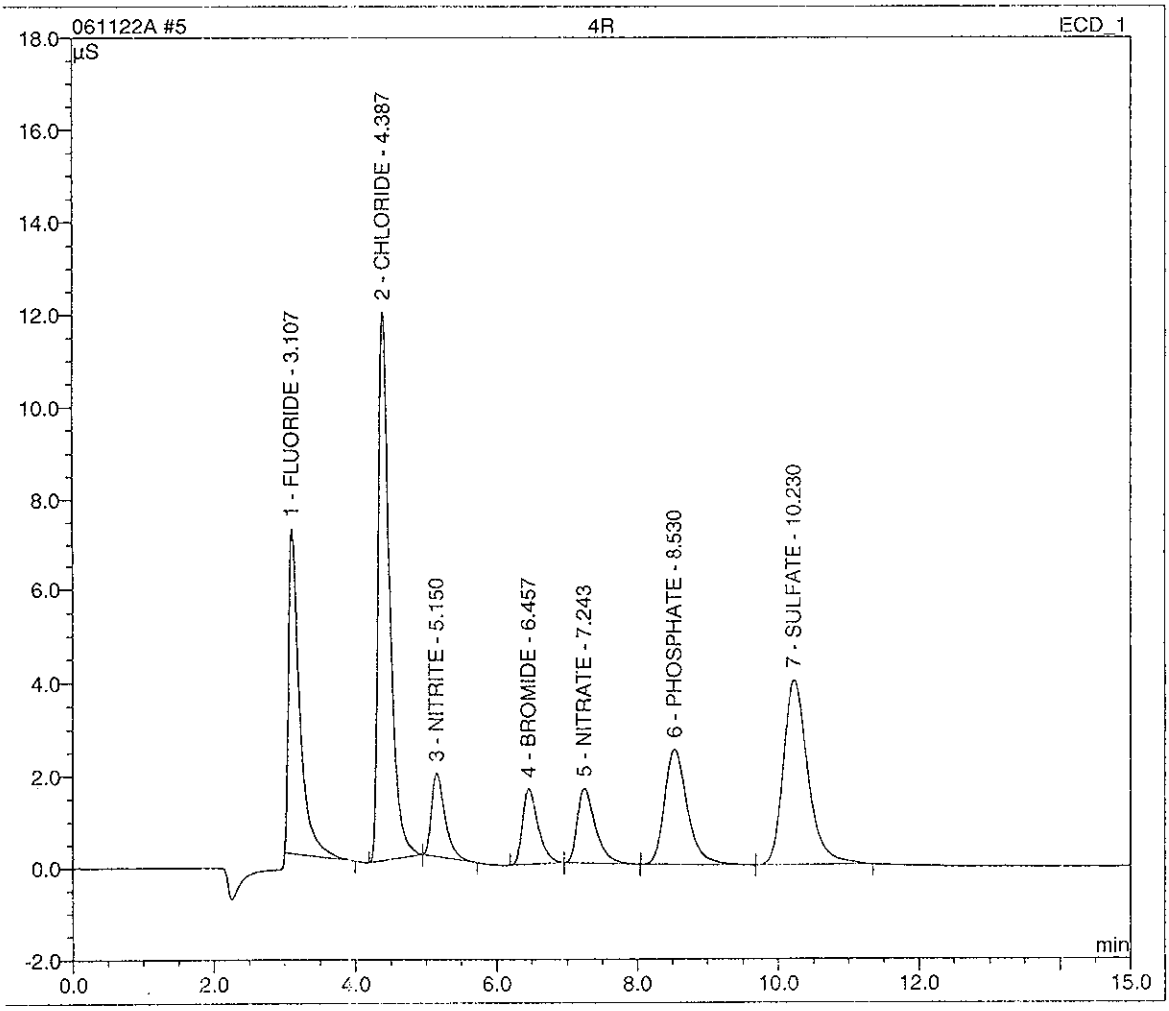
Sample Name:	3R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 03:59	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.12	FLUORIDE	BMB	0.690	3.344	5.1624
2	4.40	CHLORIDE	BMb	1.048	5.499	9.7569
3	5.17	NITRITE	bMB	0.199	0.889	0.9831
4	6.48	BROMIDE	BMb	0.209	0.801	4.7912
5	7.27	NITRATE	bMB	0.243	0.792	0.9658
6	8.55	PHOSPHATE	BMB	0.463	1.199	4.5713
7	10.26	SULFATE	BMB	0.807	1.934	10.1131
		TOTAL:		3.66	14.46	36.34



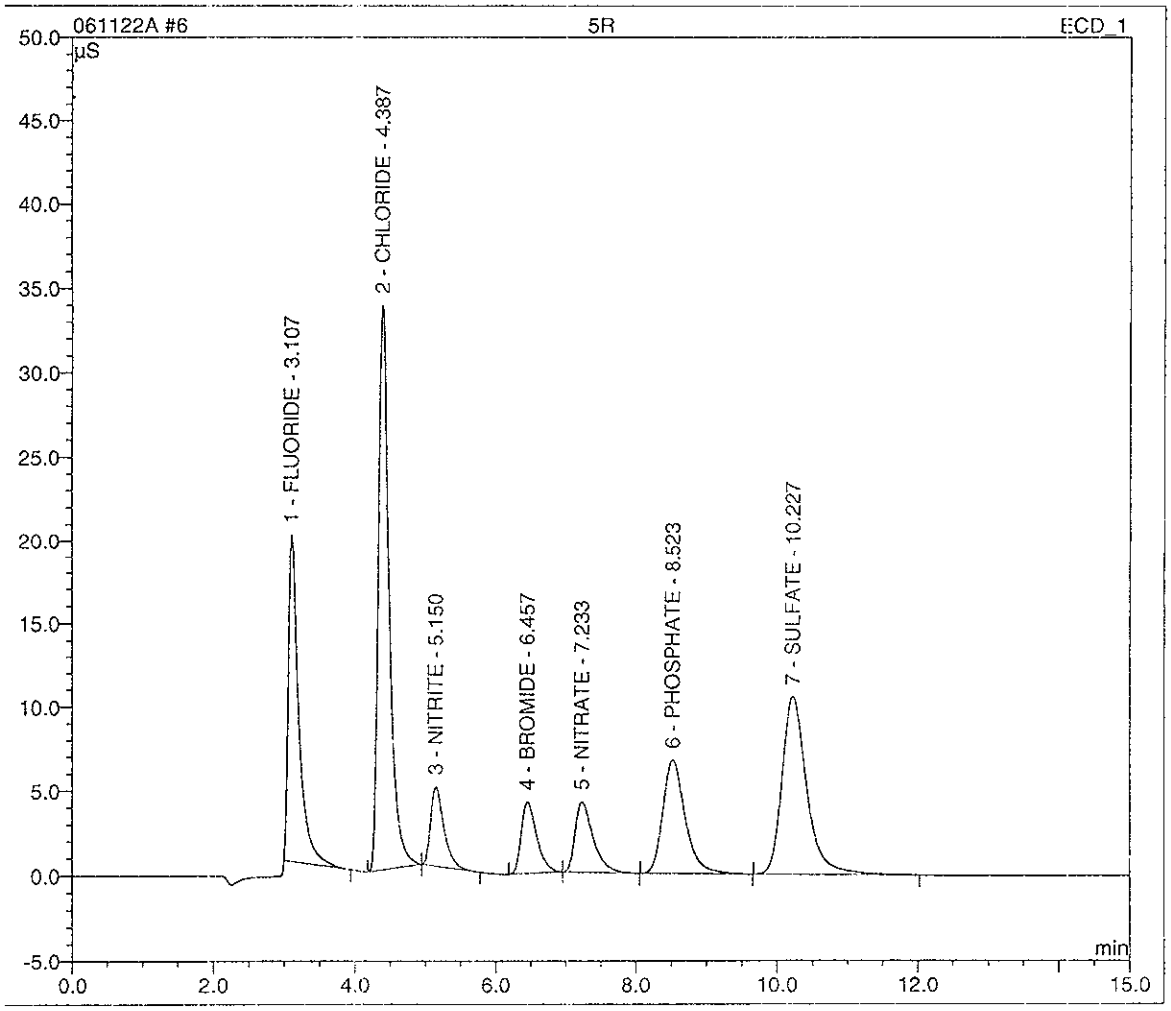
Sample Name:	4R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 04:16	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	1.271	7.046	9.4539
2	4.39	CHLORIDE	BMb	2.230	11.898	20.0617
3	5.15	NITRITE	bMB	0.401	1.810	1.9466
4	6.46	BROMIDE	BMb	0.426	1.644	9.7031
5	7.24	NITRATE	bMB	0.489	1.627	1.9353
6	8.53	PHOSPHATE	BMB	0.943	2.498	9.2372
7	10.23	SULFATE	BMB	1.621	3.988	19.9409
		TOTAL:		7.38	30.51	72.28



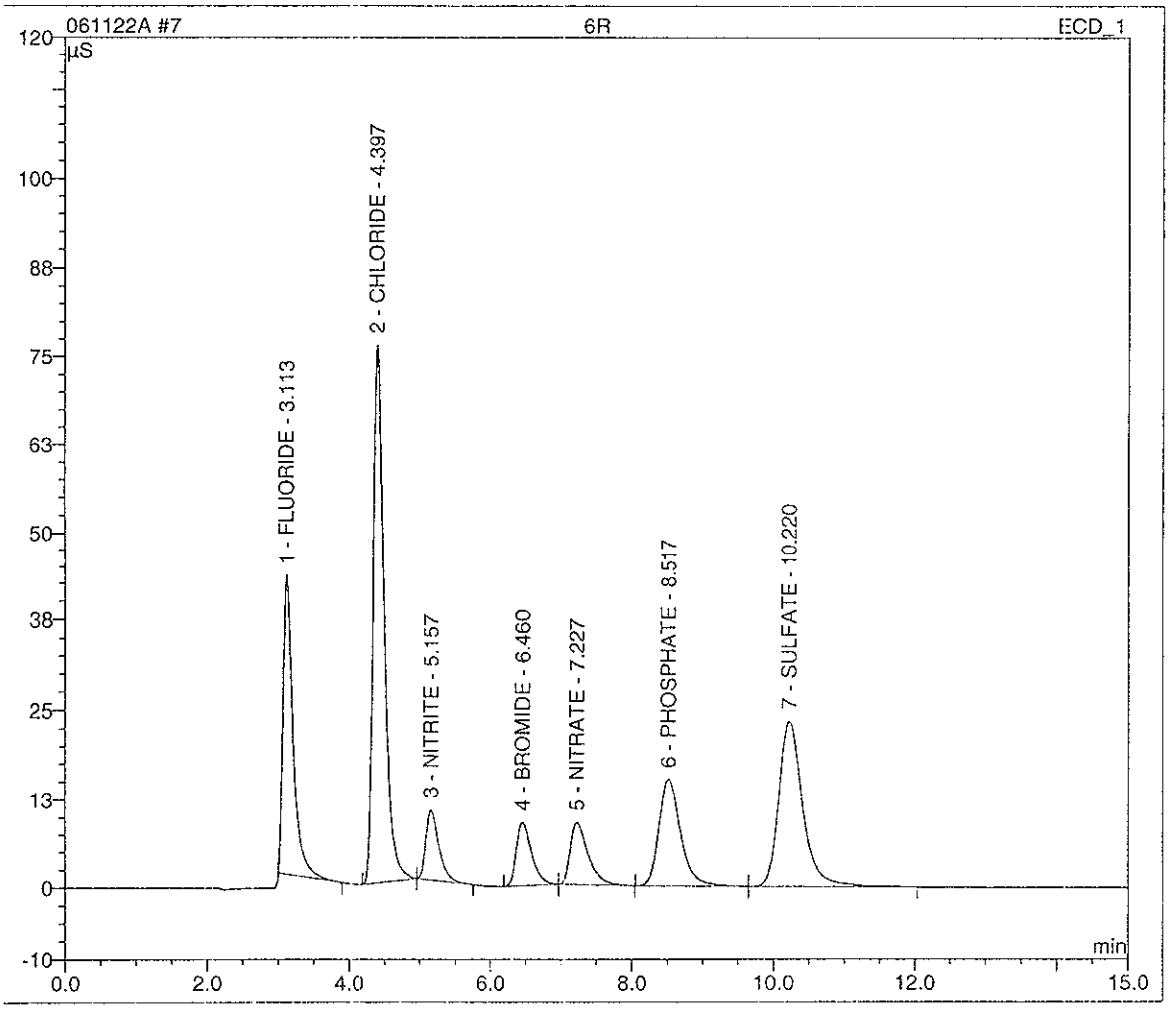
Sample Name:	5R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 04:34	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	3.309	19.518	24.5075
2	4.39	CHLORIDE	BMb	6.119	33.639	50.4914
3	5.15	NITRITE	bMB	1.024	4.678	4.9092
4	6.46	BROMIDE	BMb	1.073	4.214	24.3932
5	7.23	NITRATE	bMB	1.234	4.145	4.8701
6	8.52	PHOSPHATE	BMB	2.466	6.699	24.0482
7	10.23	SULFATE	BMB	4.265	10.532	49.9333
		TOTAL:		19.49	83.43	183.15



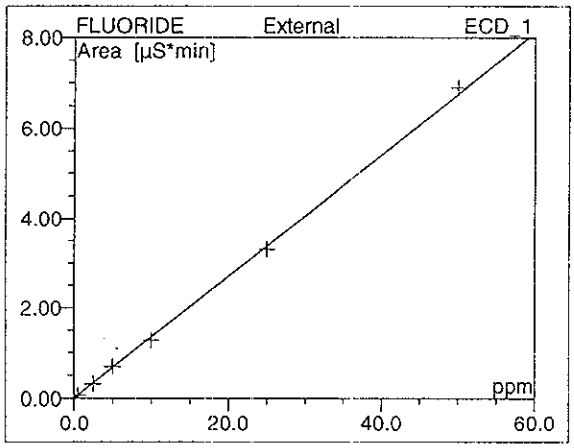
Sample Name:	6R	*Inj. Vol.:*	100.0
Sample Type:	standard	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 04:51	*Run Time:*	15.00

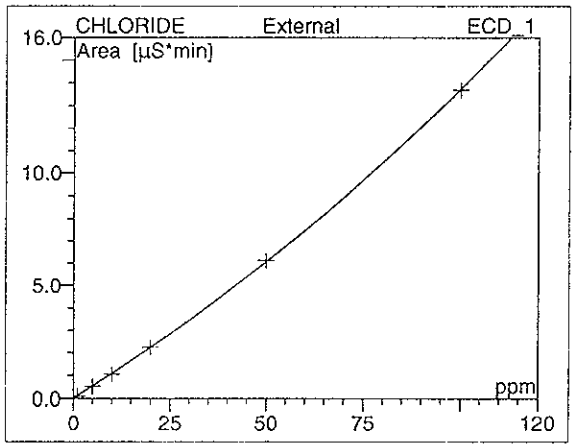
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	6.899	41.803	51.0287
2	4.40	CHLORIDE	BMb	13.691	75.915	99.8116
3	5.16	NITRITE	bMB	2.128	9.919	10.1572
4	6.46	BROMIDE	BMb	2.252	9.043	51.1464
5	7.23	NITRATE	bMB	2.600	8.881	10.2443
6	8.52	PHOSPHATE	BMB	5.374	15.086	52.3217
7	10.22	SULFATE	BMB	9.211	23.309	100.0278
		TOTAL:		42.16	183.96	374.74

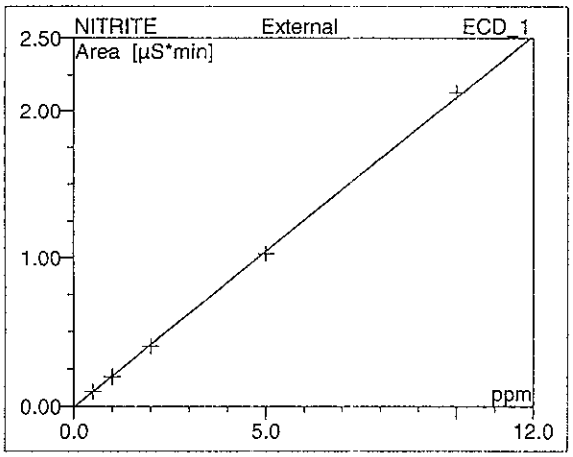


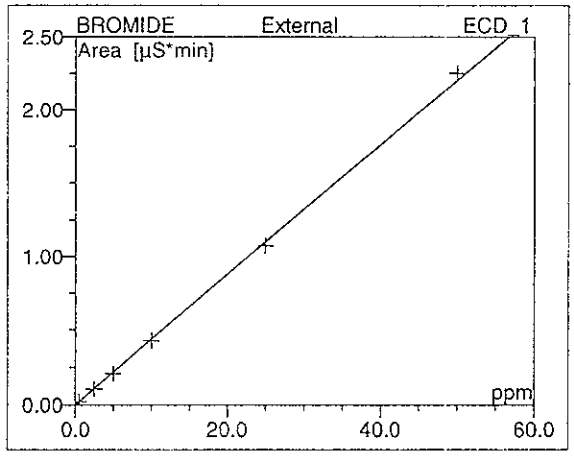
Calibration Batch Report

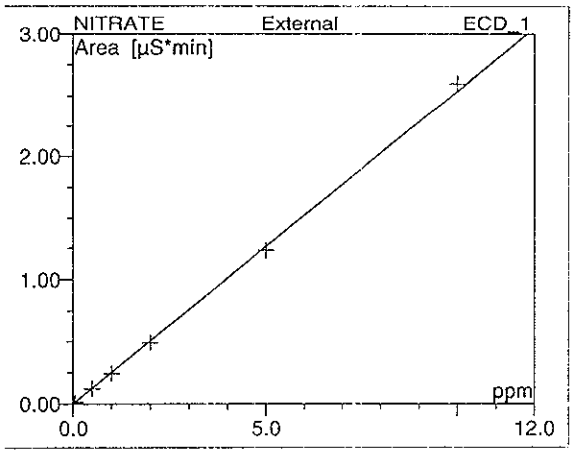
Sequence:	061122A	Inj. Vol.:	100.0
Program:	AS14A PROGRAM	Operator:	SACPC205ICS1000
Inj. Date/Time:	11/22/06 04:51	Run Time:	15.00

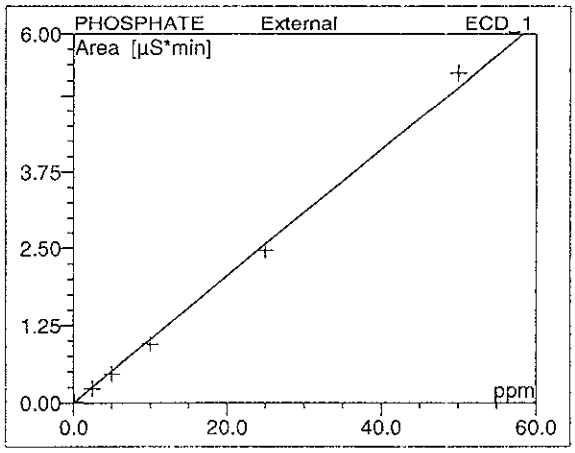




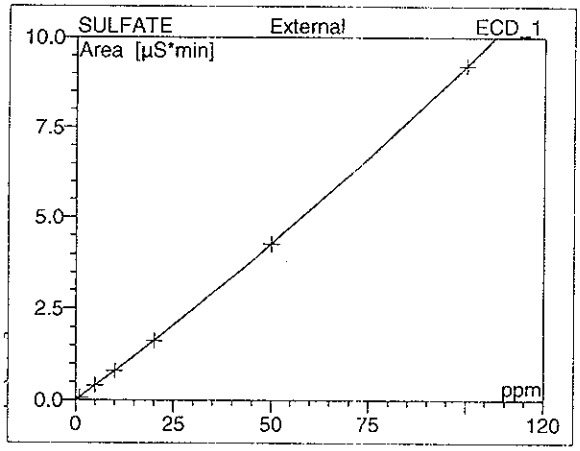








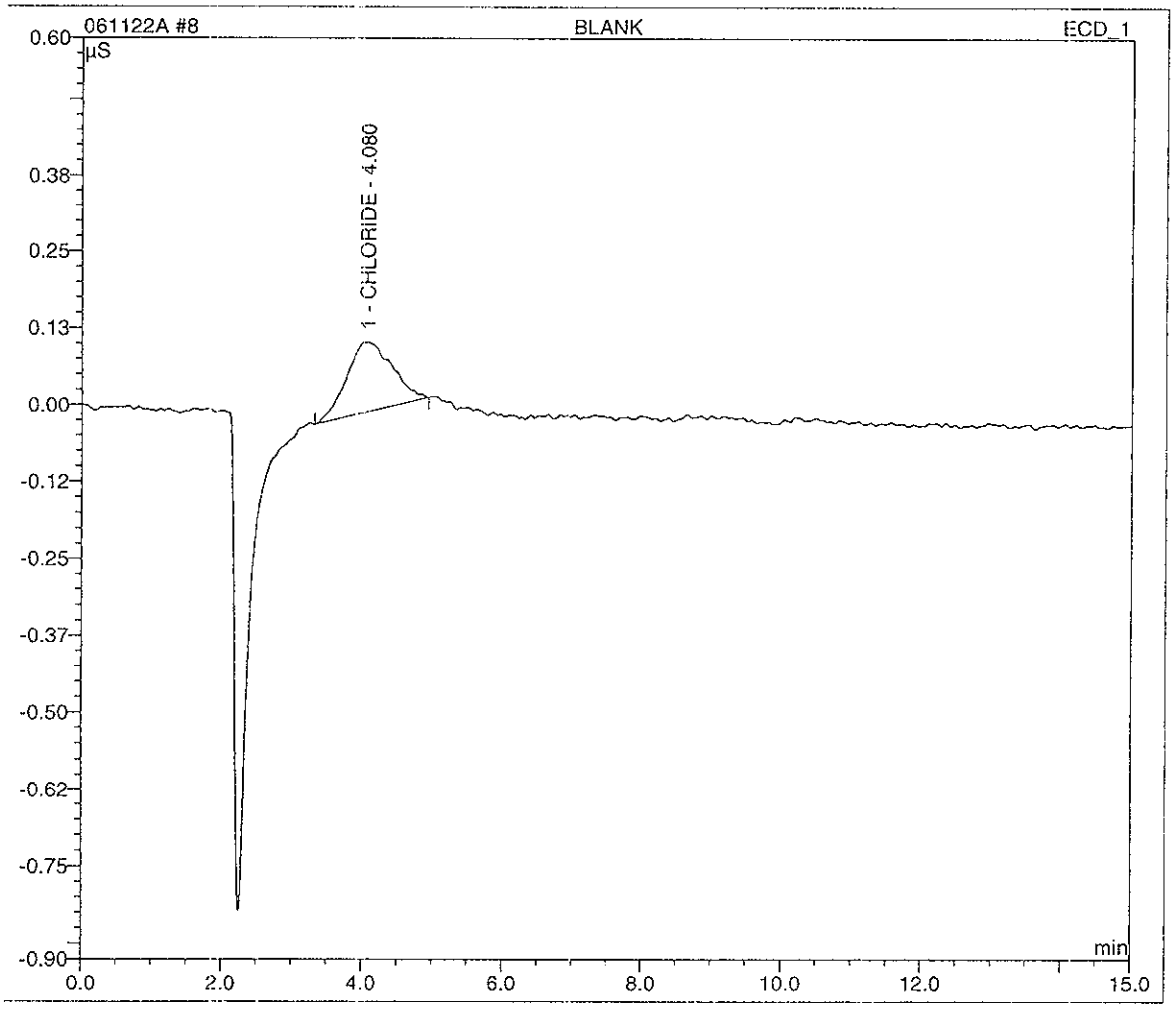
Sequence:	**061122A**	*Inj. Vol.:*	**100.0**
Program:	**AS14A PROGRAM**	*Operator:*	**n.a.**
Inj. Date/Time:	**11/22/06 04:51**	*Run Time:*	**15.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %	
1	3.11	FLUORIDE	X0LOff	6	-0.009	0.135	0.000	99.953	
2	4.40	CHLORIDE	X0QOff	6	-0.008	0.105	0.000	99.681	√
3	5.16	NITRITE	X0LOff	5	-0.008	0.210	0.000	99.978	
4	6.46	BROMIDE	X0LOff	6	-0.002	0.044	0.000	99.962	
5	7.23	NITRATE	X0LOff	6	-0.003	0.254	0.000	99.959	√
6	8.52	PHOSPHATE	X0LOff	6	-0.007	0.103	0.000	99.849	
7	10.22	SULFATE	X0QOff	6	-0.005	0.079	0.000	99.888	√
AVERAGE:					-0.0061	0.1329	0.0001	99.8958	

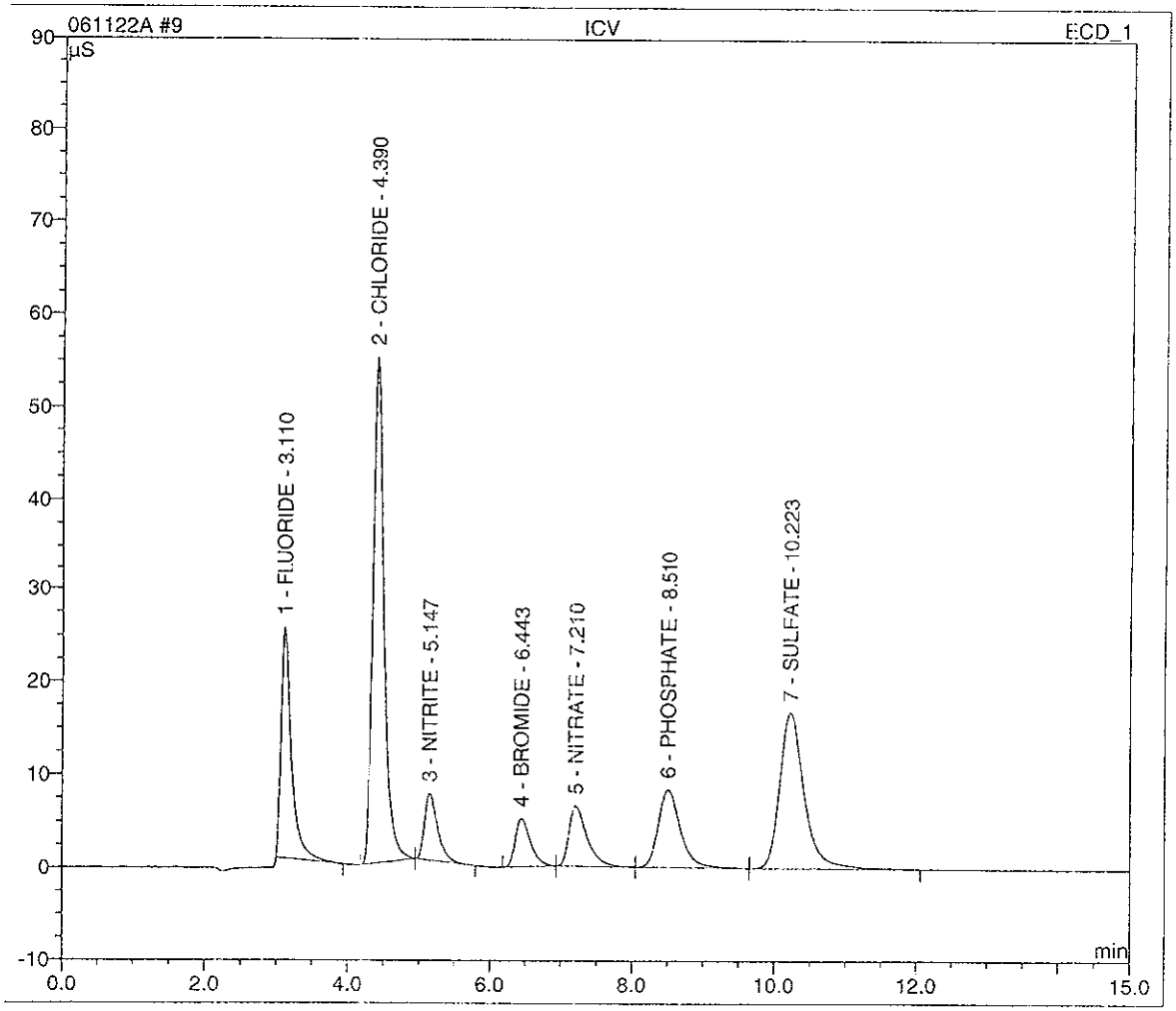
Sample Name:	BLANK	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 09:13	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	4.08	CHLORIDE	BMB	0.085	0.114	0.8883
		TOTAL:		0.09	0.11	0.89



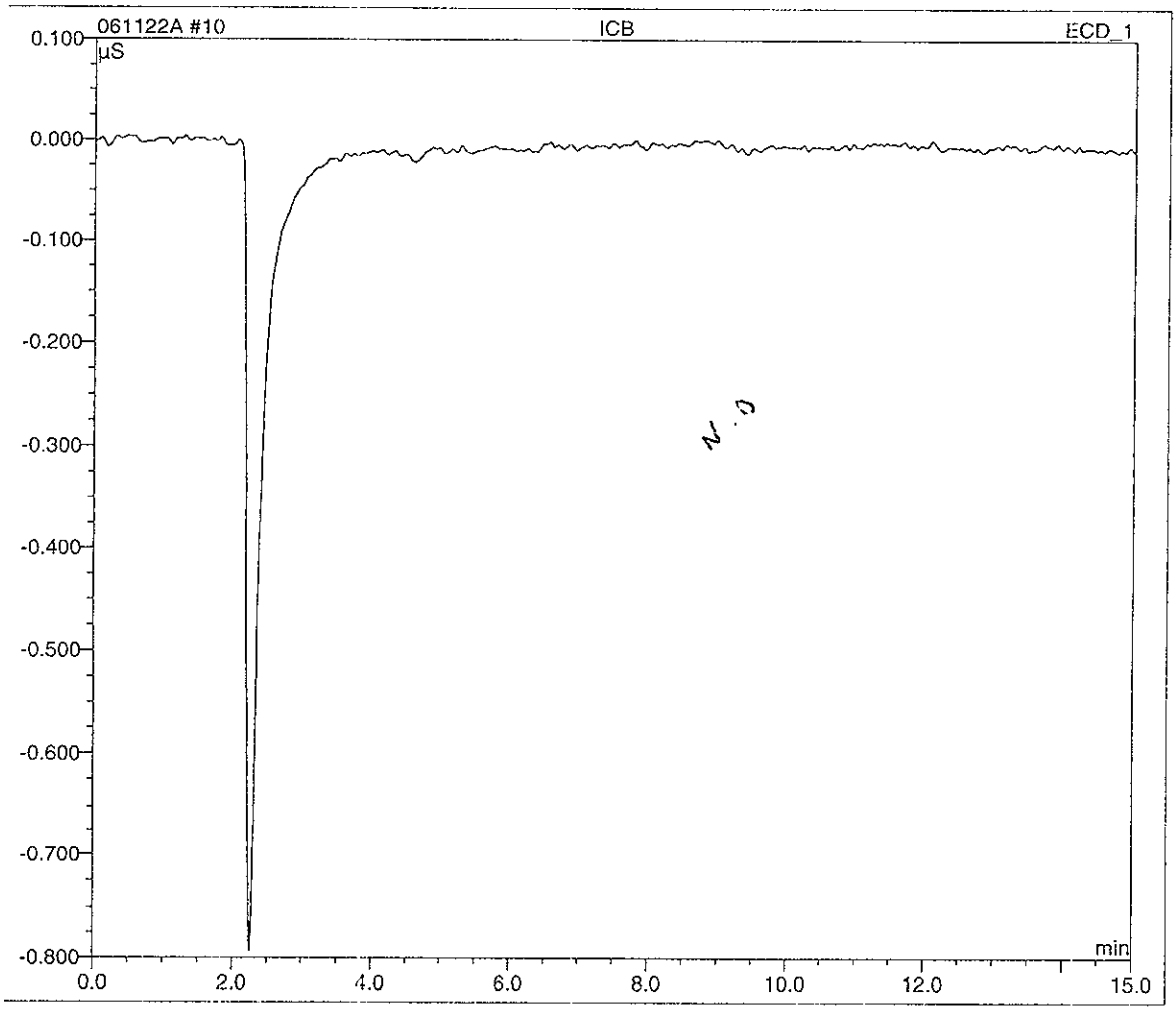
Sample Name:	ICV	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 09:31	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	%	Amount ppm	T.V mm
1	3.11	FLUORIDE	BMB	4.167	24.739		30.8437	
2	4.39	CHLORIDE	BMb	9.874	54.894	102	76.2255	75
3	5.15	NITRITE	bMB	1.546	7.156		7.3908	
4	6.44	BROMIDE	BMb	1.309	5.209		29.7515	
5	7.21	NITRATE	bMB	1.914	6.480	101	7.5473	7.5
6	8.51	PHOSPHATE	BMB	3.026	8.347		29.4951	
7	10.22	SULFATE	BMB	6.706	16.742	101	75.4943	75
		TOTAL:		28.54	123.57		256.75	



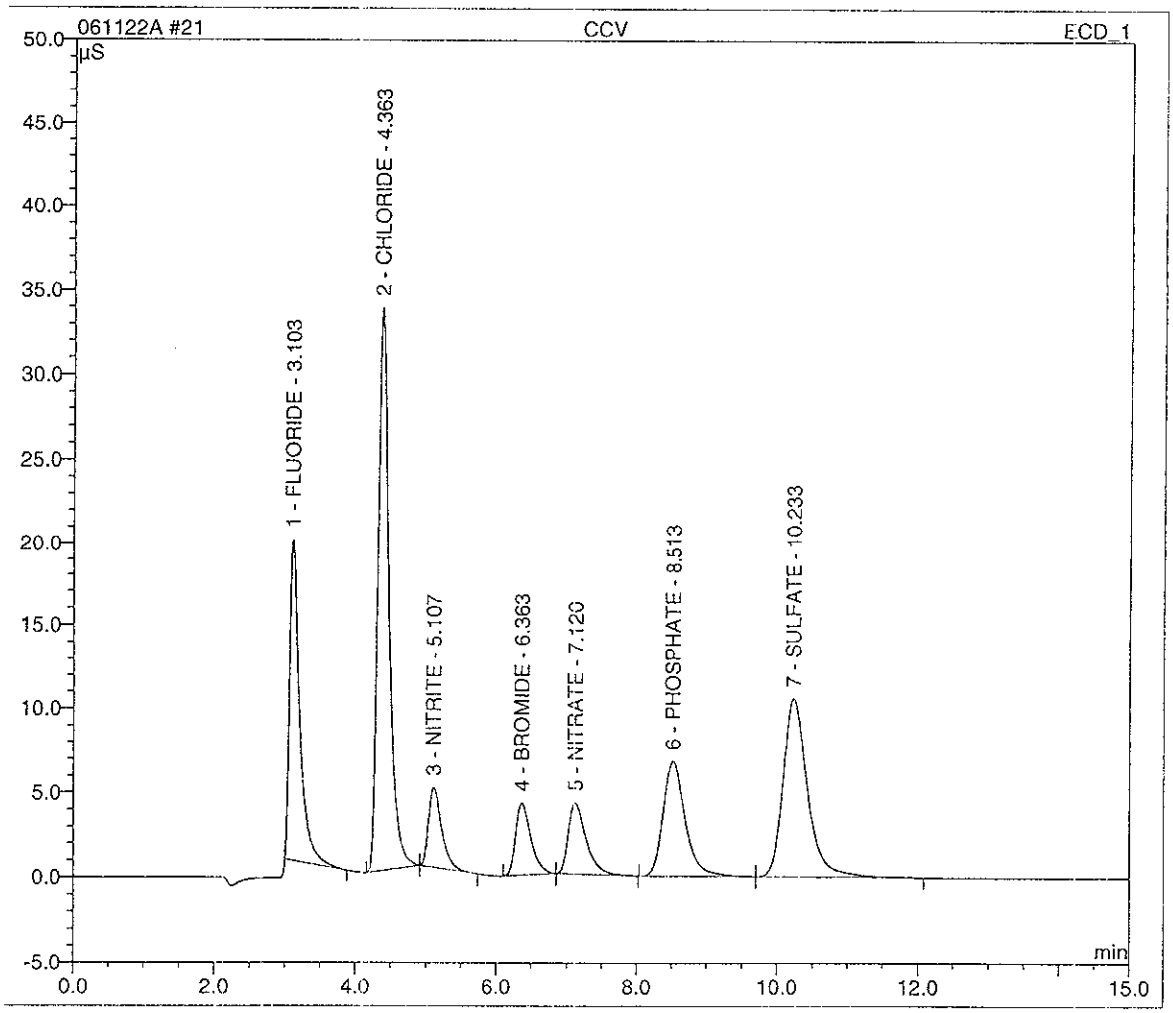
Sample Name:	ICB	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 09:48	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



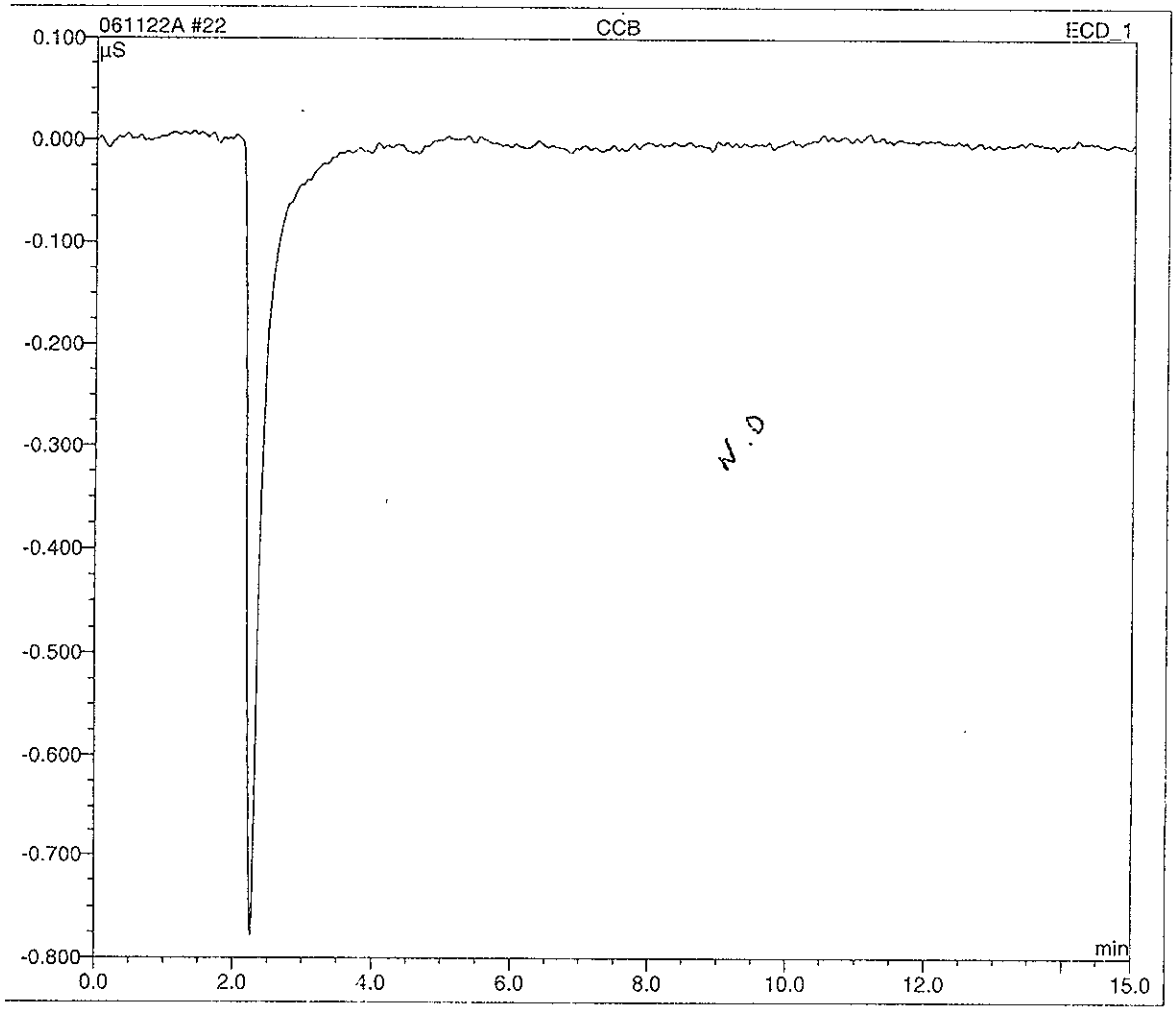
Sample Name:	**CCV**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**22.11.06 13:01**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	%	Amount ppm	T.J Hm
1	3.10	FLUORIDE	BMB	3.259	19.273		24.1422	
2	4.36	CHLORIDE	BMb	6.106	33.601	101	50.3914	50
3	5.11	NITRITE	bMB	1.021	4.709		4.8917	
4	6.36	BROMIDE	BMb	1.069	4.258		24.3106	
5	7.12	NITRATE	bMB	1.247	4.222	98	4.9179	5
6	8.51	PHOSPHATE	BMB	2.491	6.797		24.2961	
7	10.23	SULFATE	BMB	4.272	10.585	100	50.0085	50
		TOTAL:		19.46	83.45		182.96	



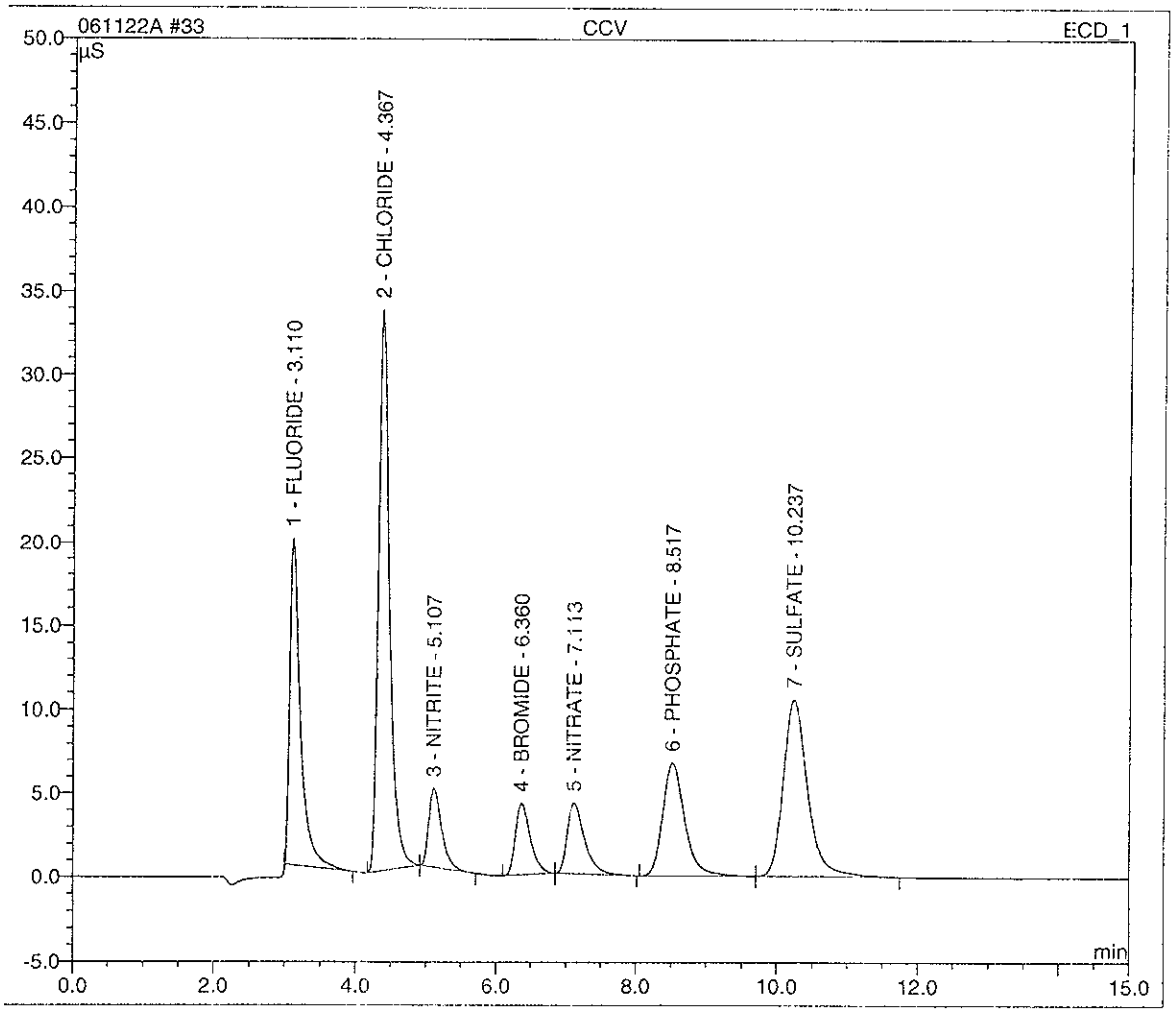
Sample Name:	CCB	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 13:19	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



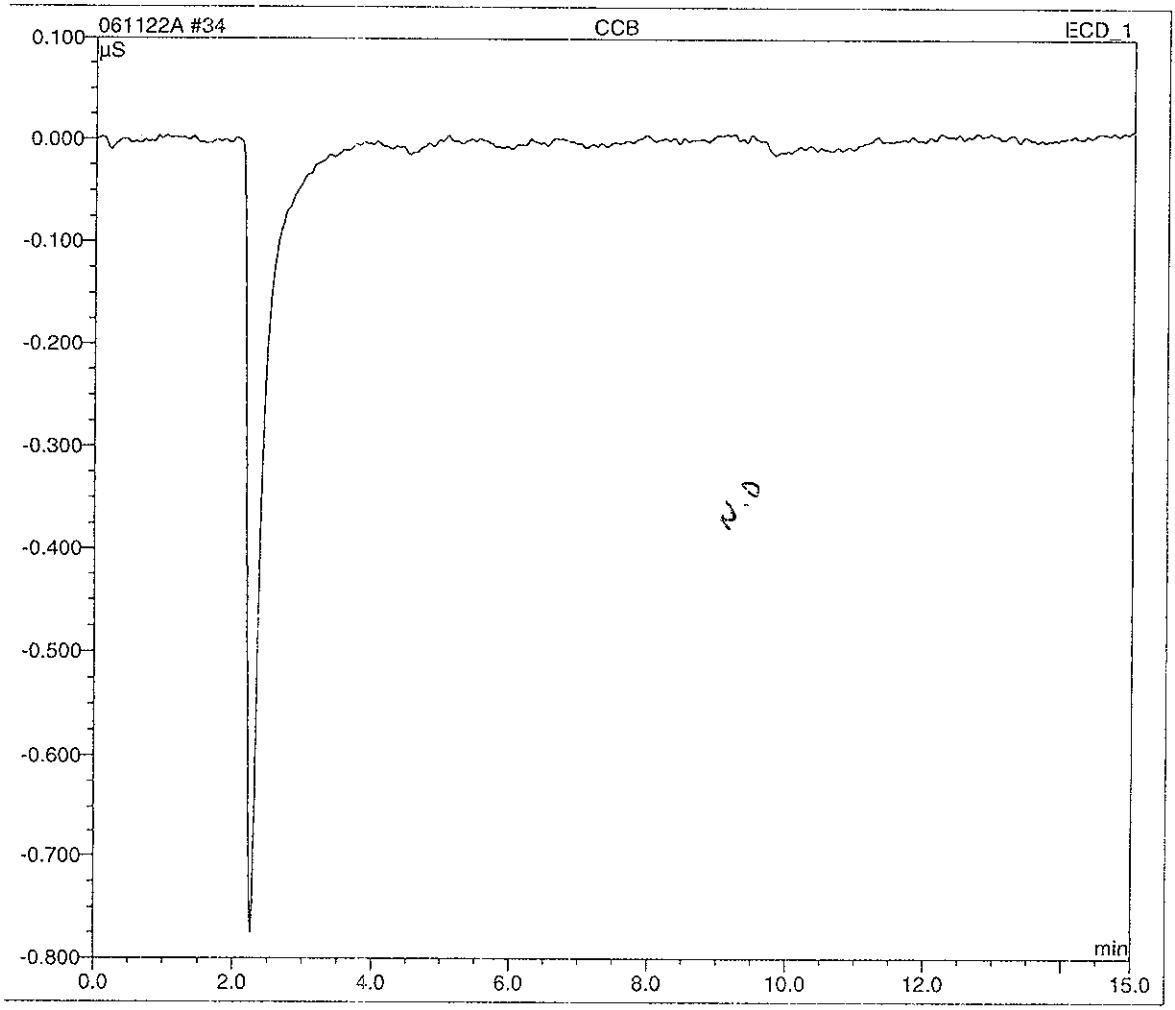
Sample Name:	CCV	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 16:31	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	3.11	FLUORIDE	BMB	3.395	19.551	25.1457
2	4.37	CHLORIDE	BMb	6.091	33.530	101 50.2857
3	5.11	NITRITE	bMB	1.018	4.701	4.8781
4	6.36	BROMIDE	BMb	1.067	4.257	24.2536
5	7.11	NITRATE	bMB	1.240	4.226	98 4.8929
6	8.52	PHOSPHATE	BMB	2.482	6.788	24.2085
7	10.24	SULFATE	BMB	4.246	10.586	99 49.7277
		TOTAL:		19.54	83.64	183.39



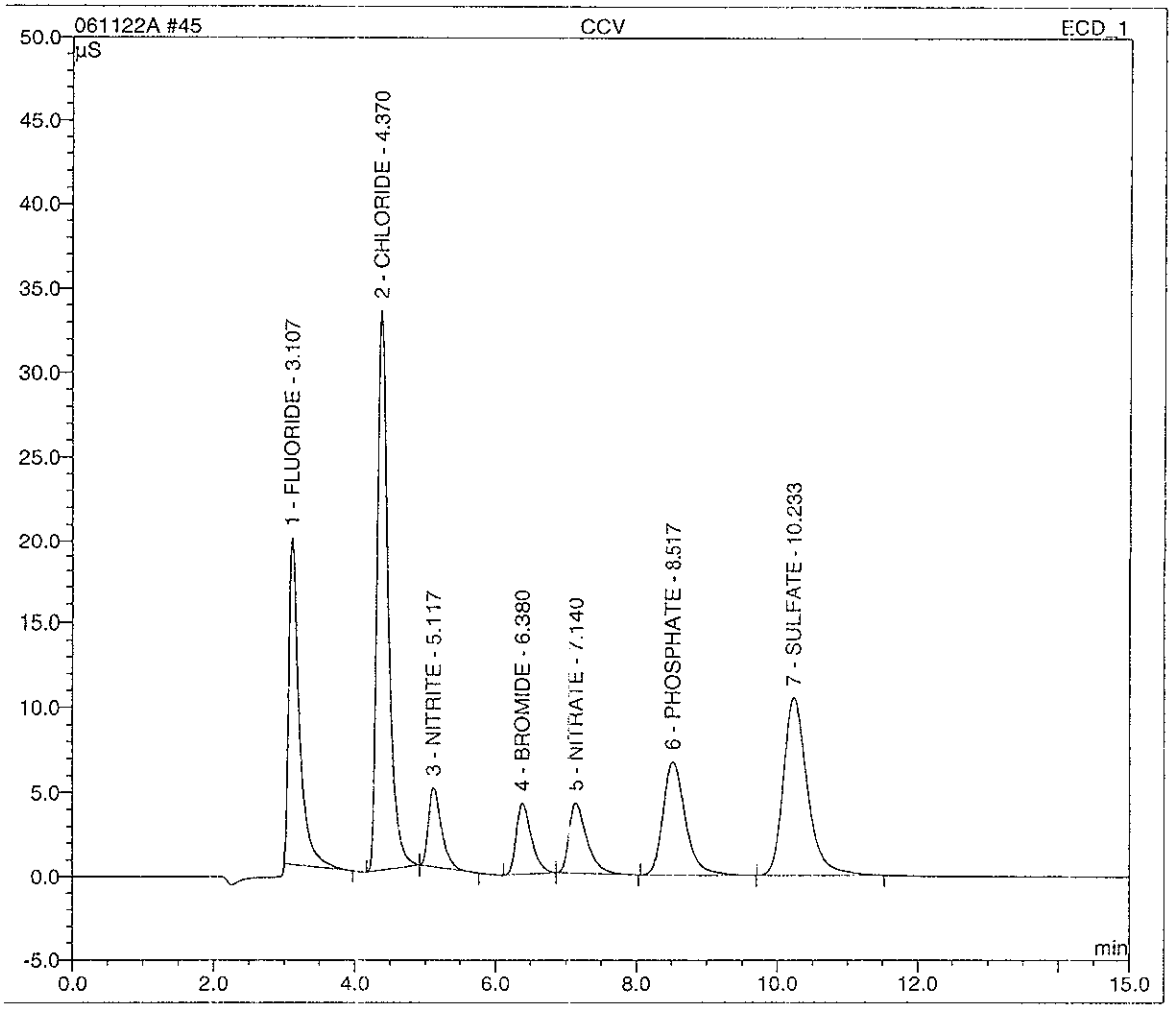
Sample Name:	**CCB**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**22.11.06 16:49**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



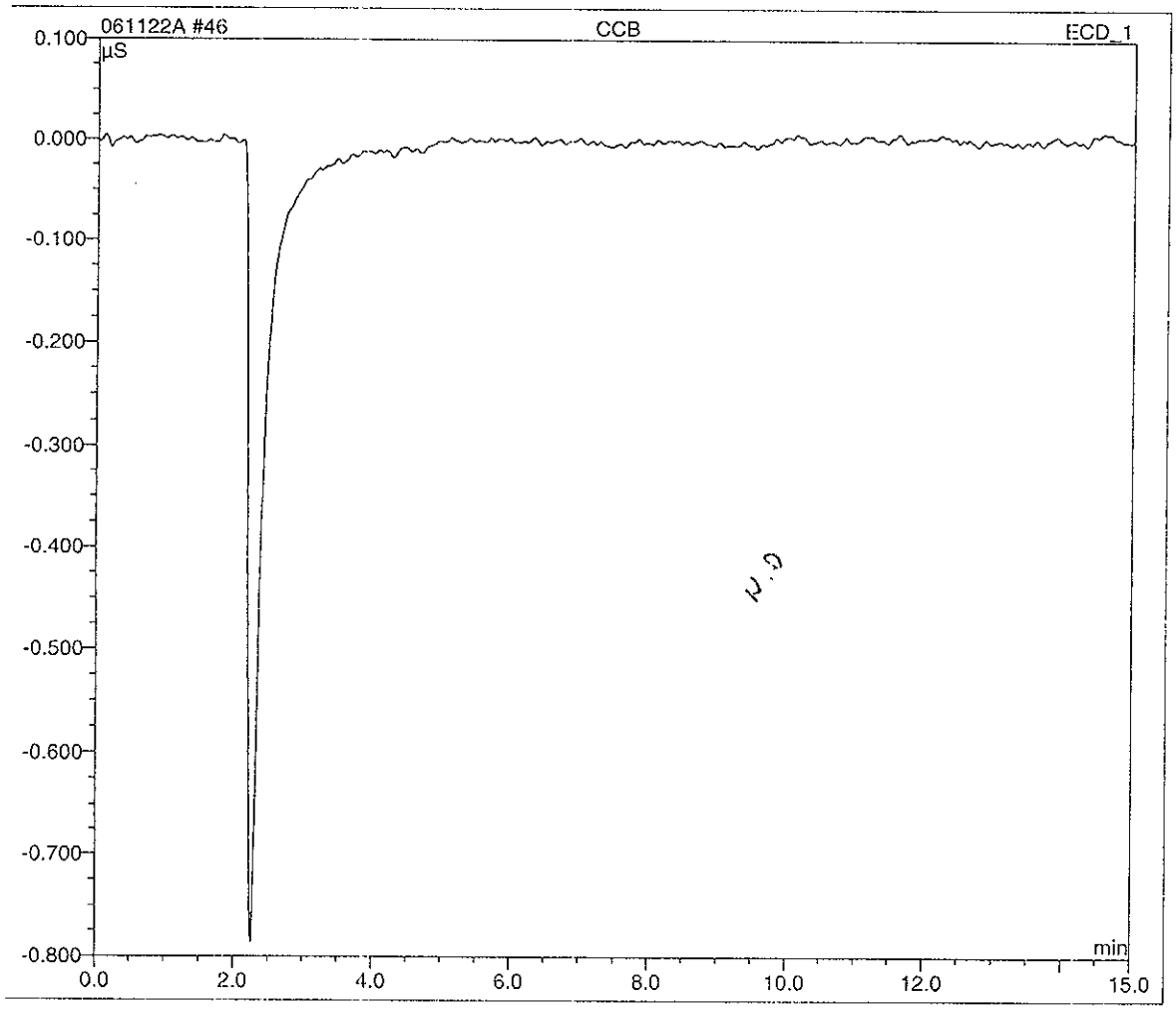
Sample Name:	CCV	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 20:01	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	%	Amount ppm	
1	3.11	FLUORIDE	BMB	3.391	19.470		25.1173	
2	4.37	CHLORIDE	BMb	6.100	33.325	101	50.3536	TO
3	5.12	NITRITE	bMB	1.023	4.686		4.9028	
4	6.38	BROMIDE	BMb	1.067	4.226		24.2649	
5	7.14	NITRATE	bMB	1.235	4.179	99	4.8739	
6	8.52	PHOSPHATE	BMB	2.474	6.738		24.1247	
7	10.23	SULFATE	BMB	4.210	10.525	99	49.3350	TO
		TOTAL:		19.50	83.15		182.97	



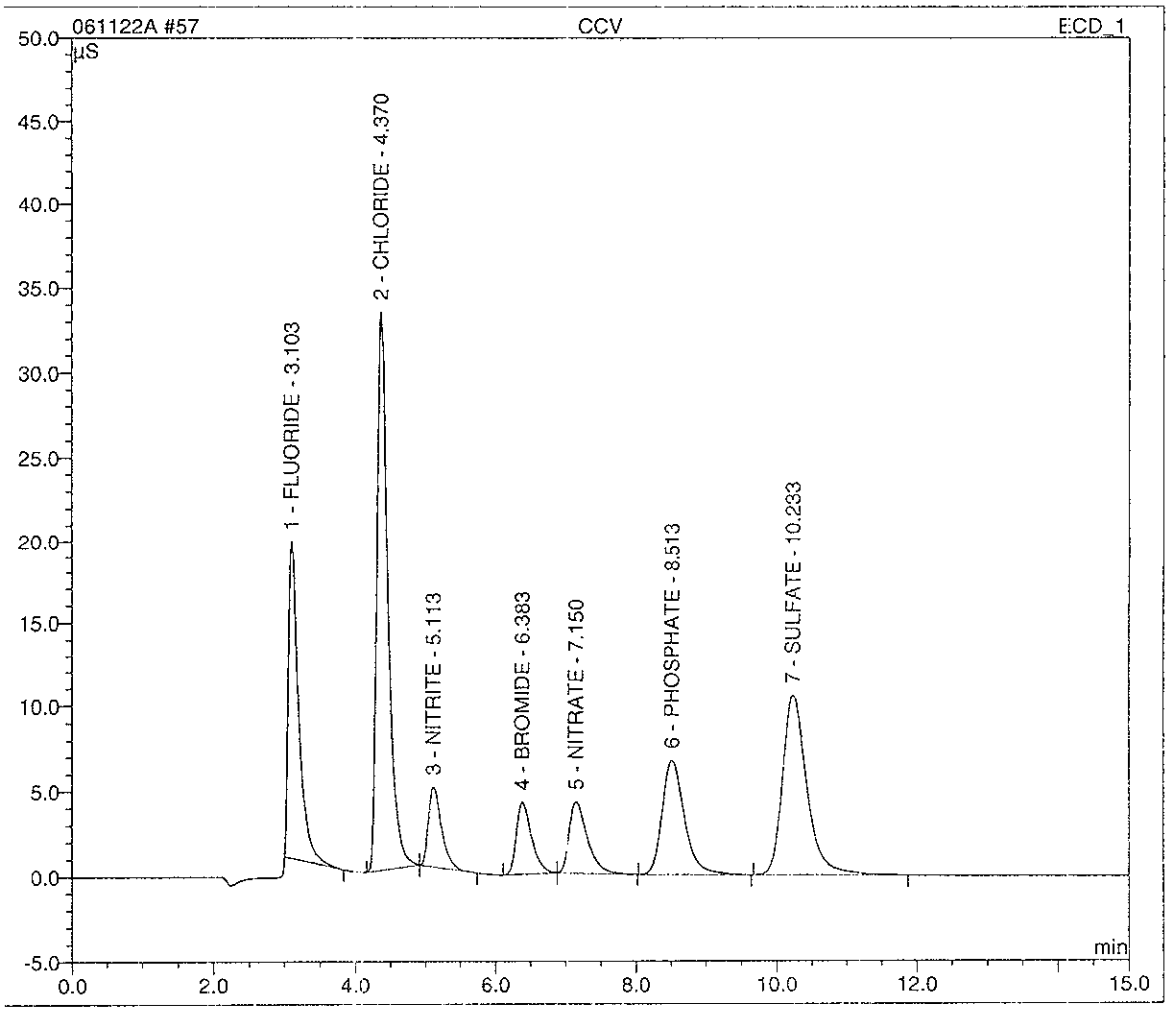
Sample Name:	CCB	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	22.11.06 20:19	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCV**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**22.11.06 23:31**	*Run Time:*	**15.00**

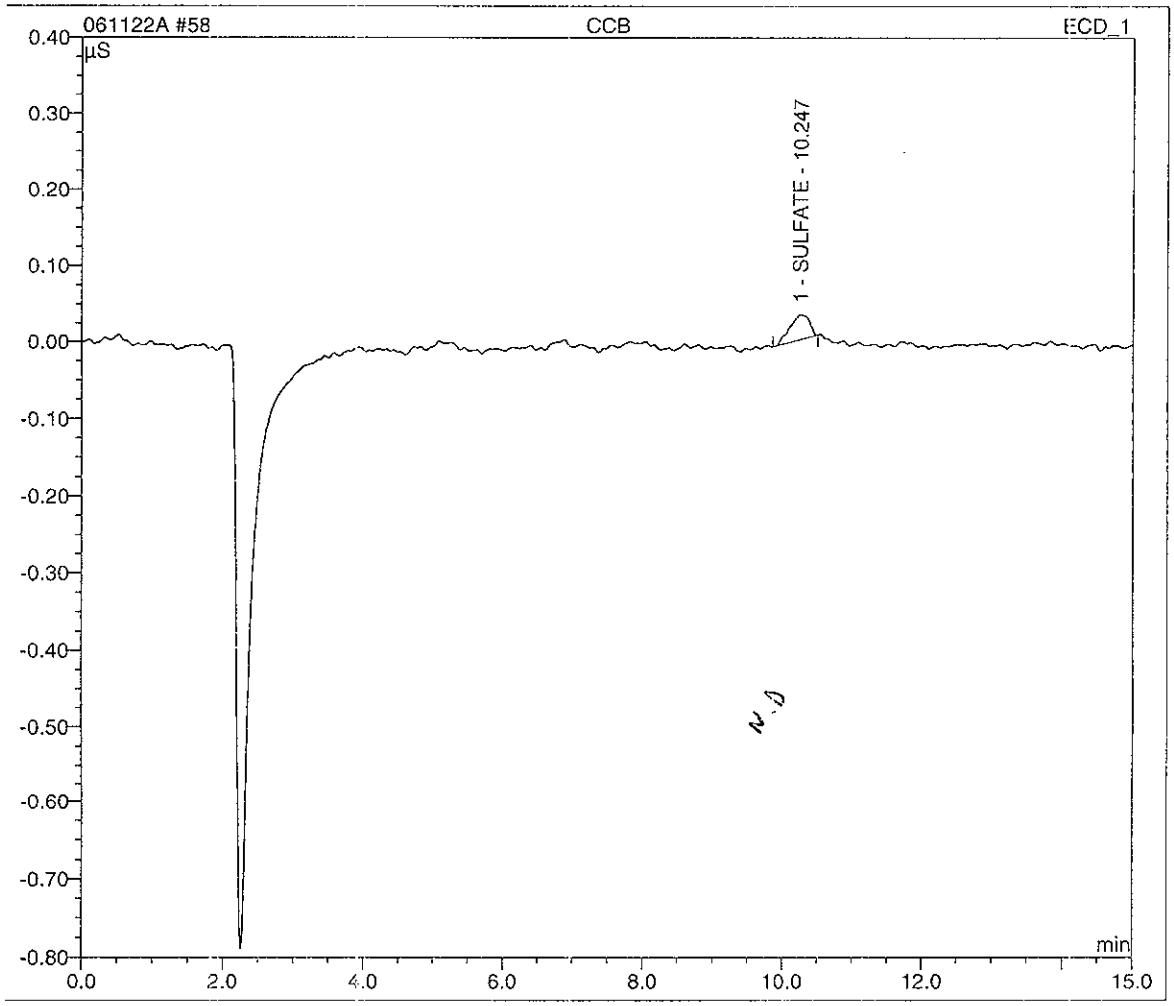
No.	Time min	Peak Name	Type	Area µS*min	Height µS	%	Amount ppm
1	3.10	FLUORIDE	BMB	3.187	18.928		23.6059
2	4.37	CHLORIDE	BMb	6.096	33.204	101	50.3218
3	5.11	NITRITE	bMB	1.021	4.663		4.8944
4	6.38	BROMIDE	BMb	1.075	4.213		24.4258
5	7.15	NITRATE	bMB	1.248	4.177	98	4.9232
6	8.51	PHOSPHATE	BMB	2.474	6.717		24.1282
7	10.23	SULFATE	BMB	4.269	10.536	100	49.9761
			TOTAL:	19.37	82.44		182.28



Sample Name:	**CCB**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**22.11.06 23:49**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	10.25	SULFATE	BMB	0.011	0.034	0.1998
		TOTAL:		0.01	0.03	0.20

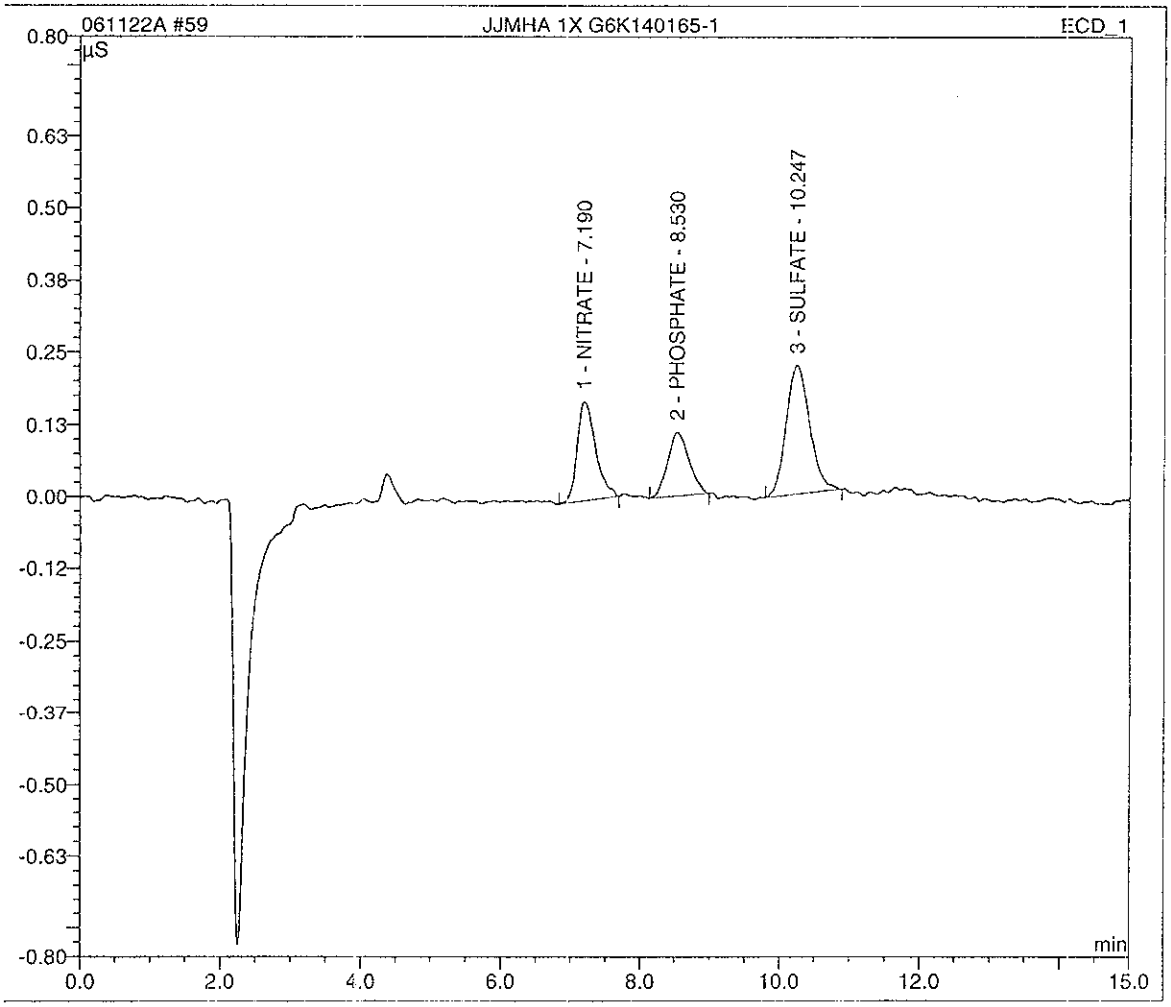
< R.L.



N.D

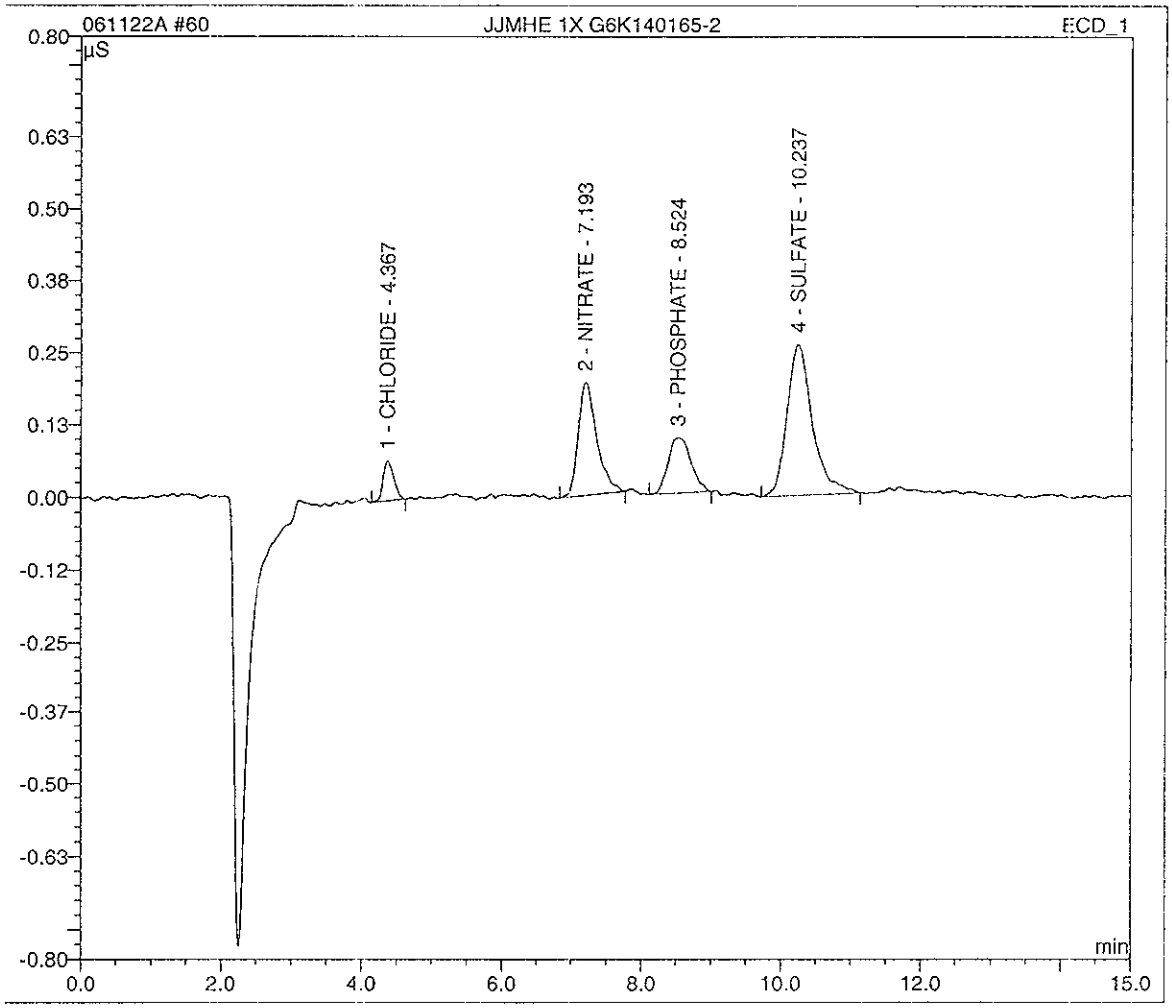
Sample Name:	**JJMHA 1X G6K140165-1**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**23.11.06 00:06**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	7.19	NITRATE	BMB	0.053	0.172	0.2188
2	8.53	PHOSPHATE	BMB	0.039	0.111	0.4549
3	10.25	SULFATE	BMB	0.087	0.222	1.1632
		TOTAL:		0.18	0.50	1.84



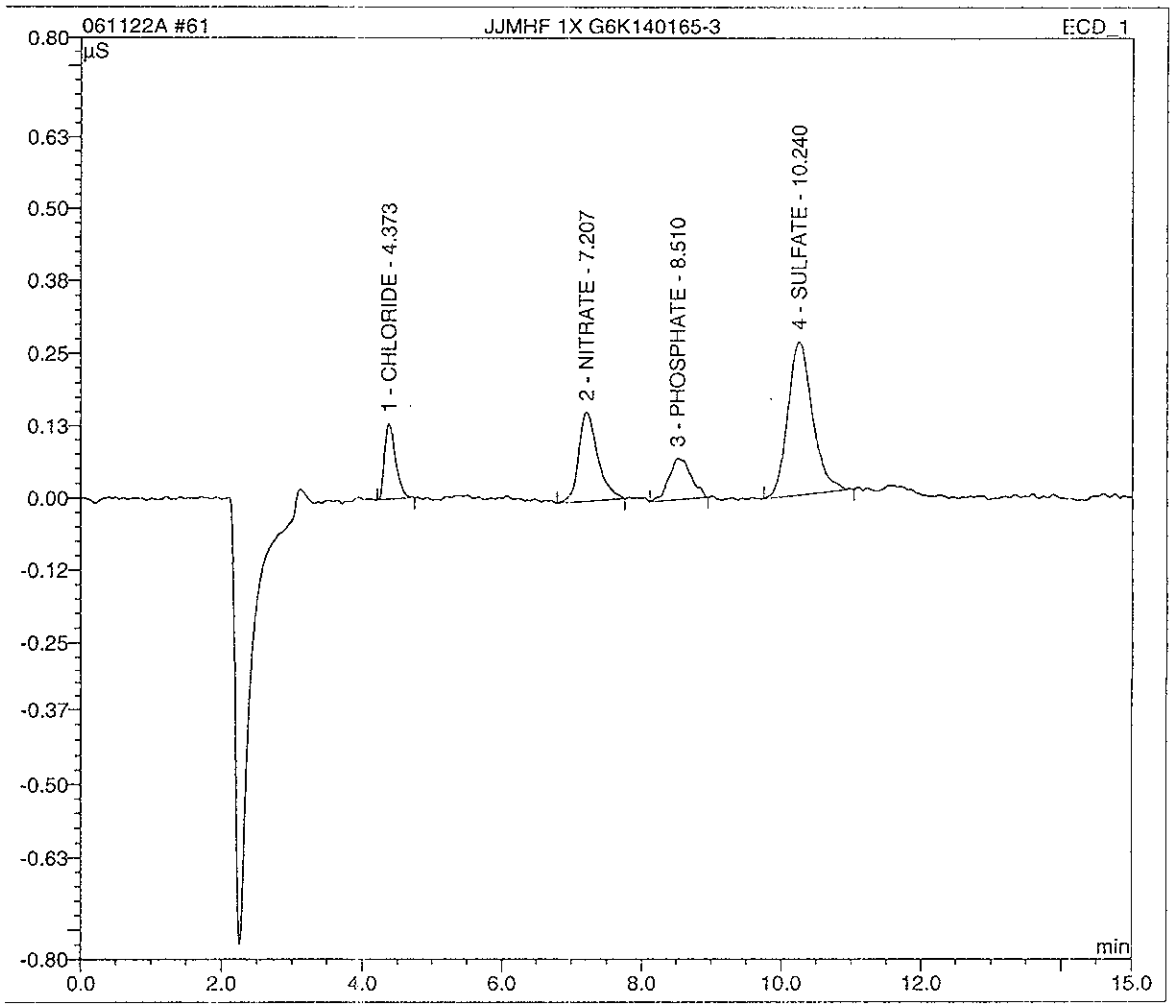
Sample Name:	**JJMHE 1X G6K140165-2**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**23.11.06 00:24**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	4.37	CHLORIDE	BMB	0.012	0.068	0.1939
2	7.19	NITRATE	BMB	0.059	0.194	0.2439
3	8.52	PHOSPHATE	BMB	0.036	0.095	0.4226
4	10.24	SULFATE	BMB	0.110	0.261	1.4482
		TOTAL:		0.22	0.62	2.31



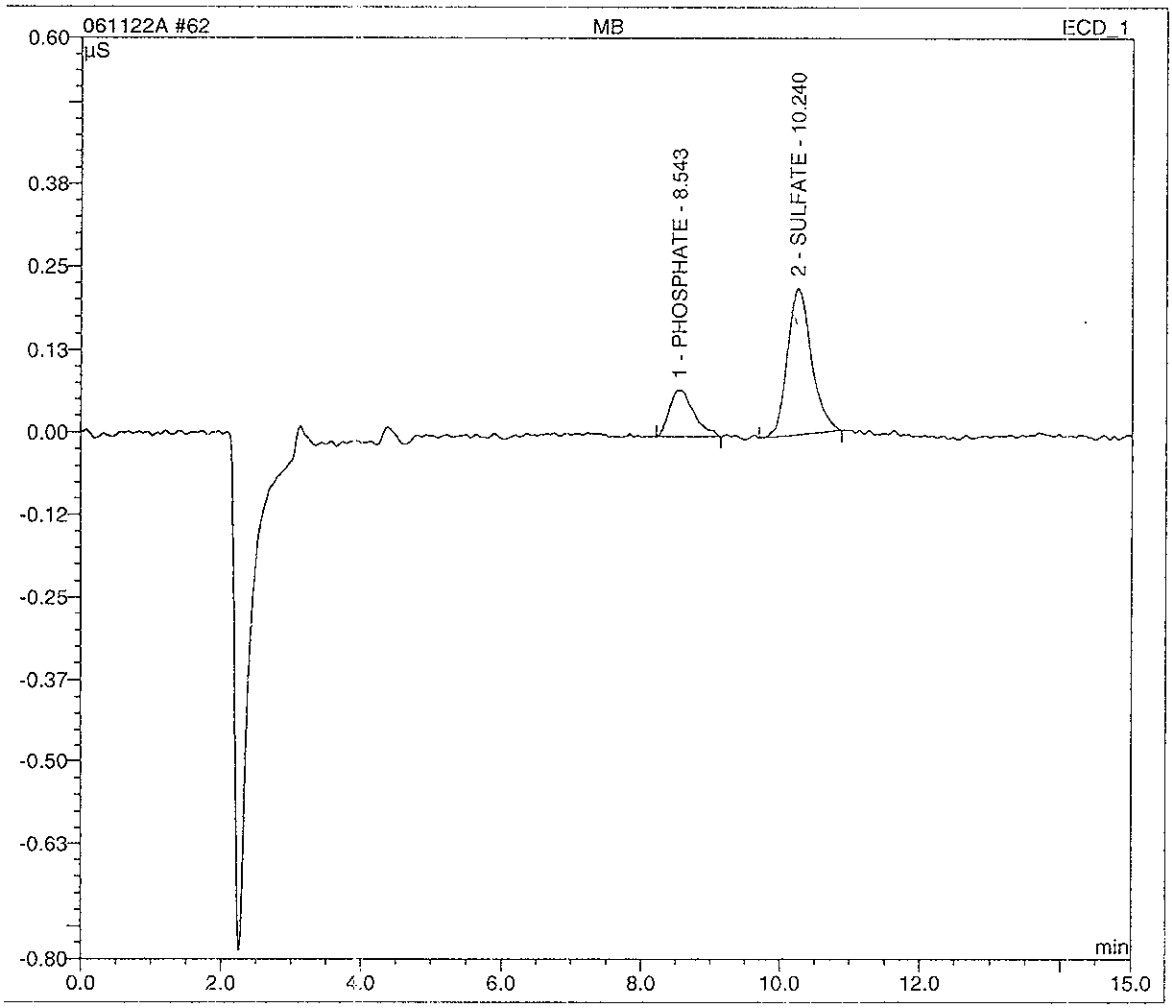
Sample Name:	JJMHF 1X G6K140165-3	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	23.11.06 00:41	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	4.37	CHLORIDE	BMB	0.024	0.130	0.3048
2	7.21	NITRATE	BMB	0.048	0.154	0.2009
3	8.51	PHOSPHATE	BMB	0.026	0.070	0.3252
4	10.24	SULFATE	BMB	0.108	0.264	1.4270
		TOTAL:		0.21	0.62	2.26



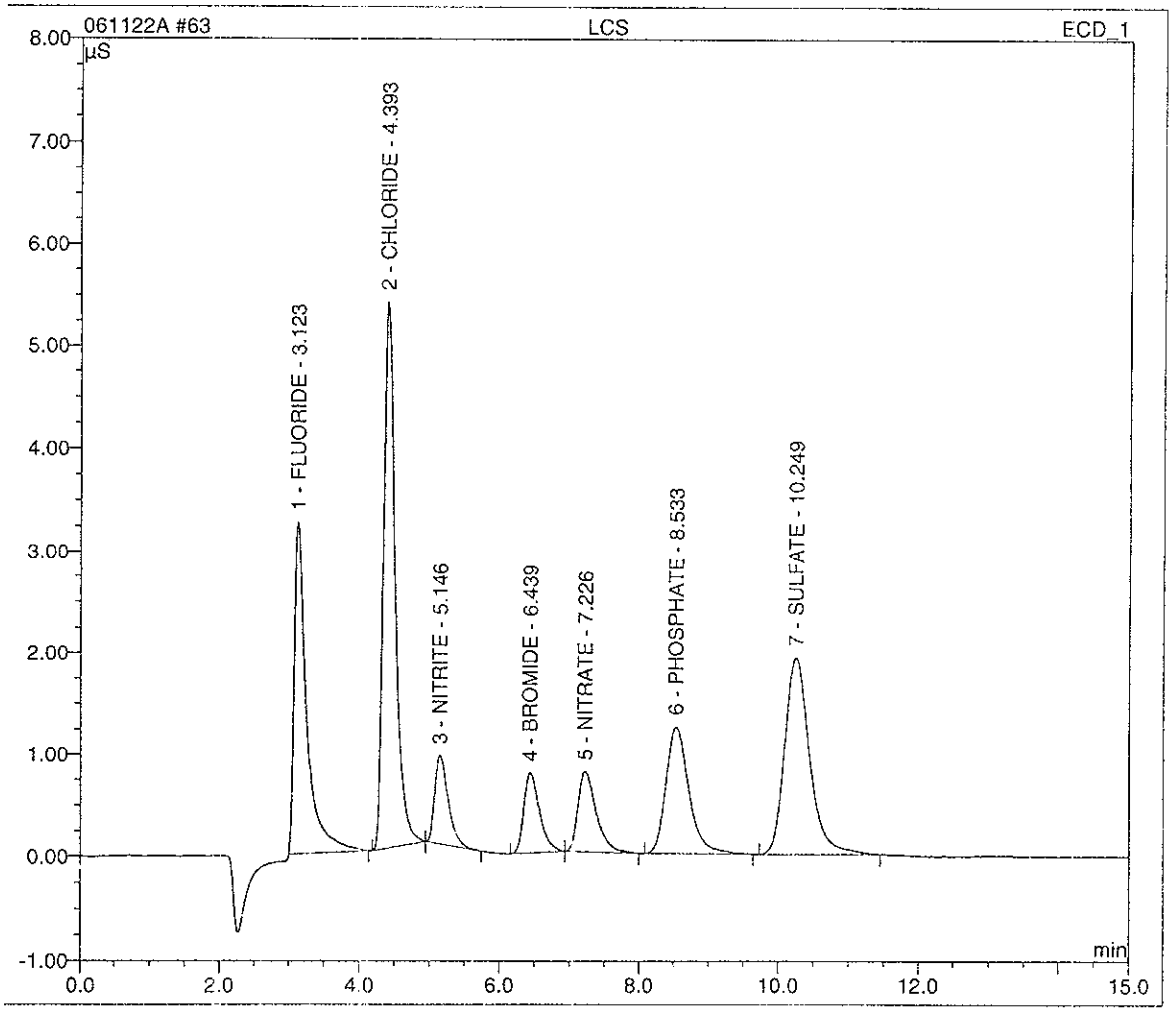
Sample Name:	MB	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	23.11.06 00:59	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
1	8.54	PHOSPHATE	BMB	0.029	0.071	0.3549
2	10.24	SULFATE	BMB	0.088	0.221	1.1785
		TOTAL:		0.12	0.29	1.53



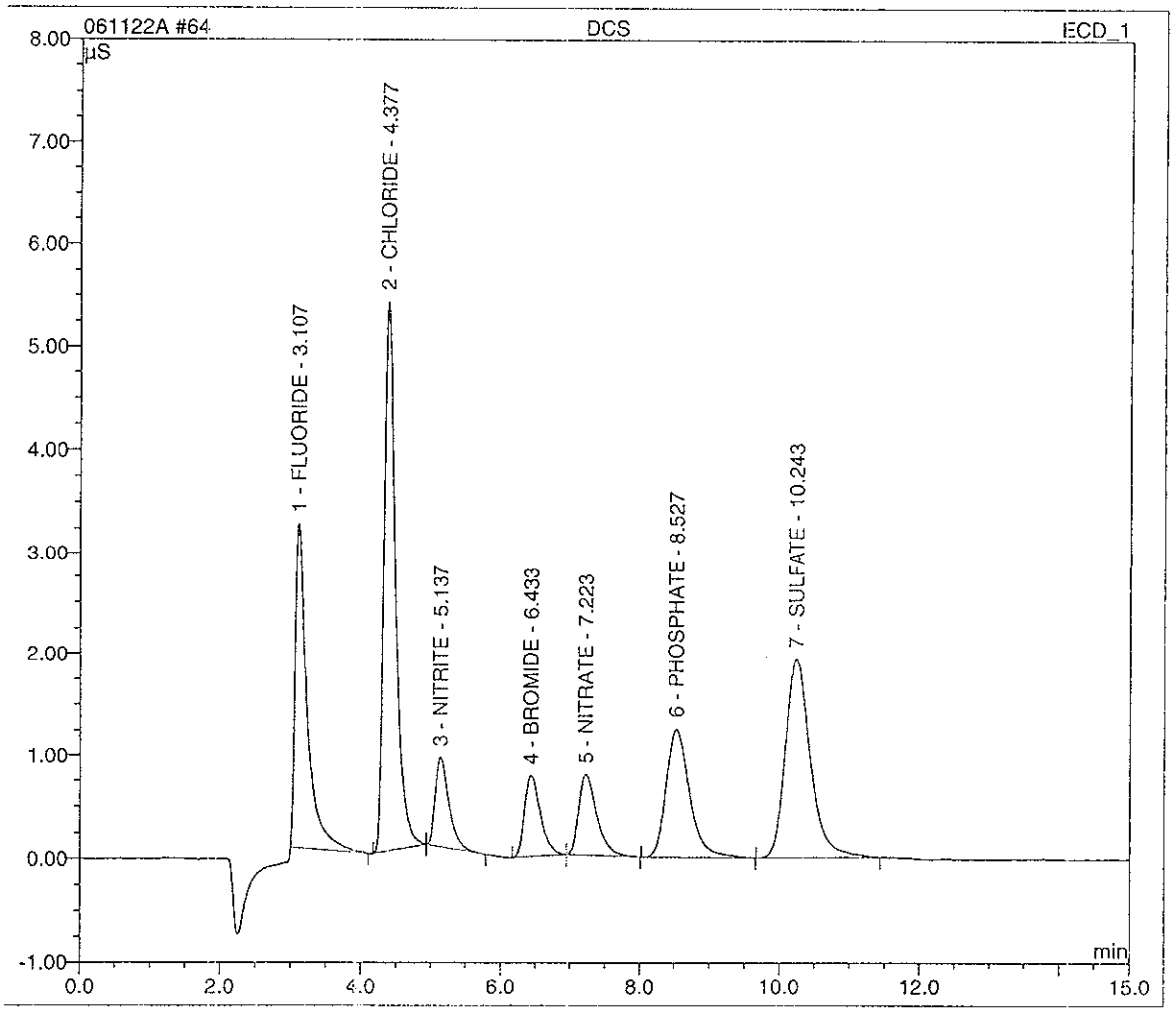
Sample Name:	LCS	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	23.11.06 01:16	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount % ppm
1	3.12	FLUORIDE	BMB	0.683	3.261	5.1110
2	4.39	CHLORIDE	BMb	1.037	5.351	9.6619
3	5.15	NITRITE	bMB	0.194	0.867	0.9625
4	6.44	BROMIDE	BMB	0.207	0.785	4.7432
5	7.23	NITRATE	bMB	0.240	0.787	0.9567
6	8.53	PHOSPHATE	BMB	0.485	1.250	4.7847
7	10.25	SULFATE	BMB	0.804	1.939	101 10.0836
		TOTAL:		3.65	14.24	36.30



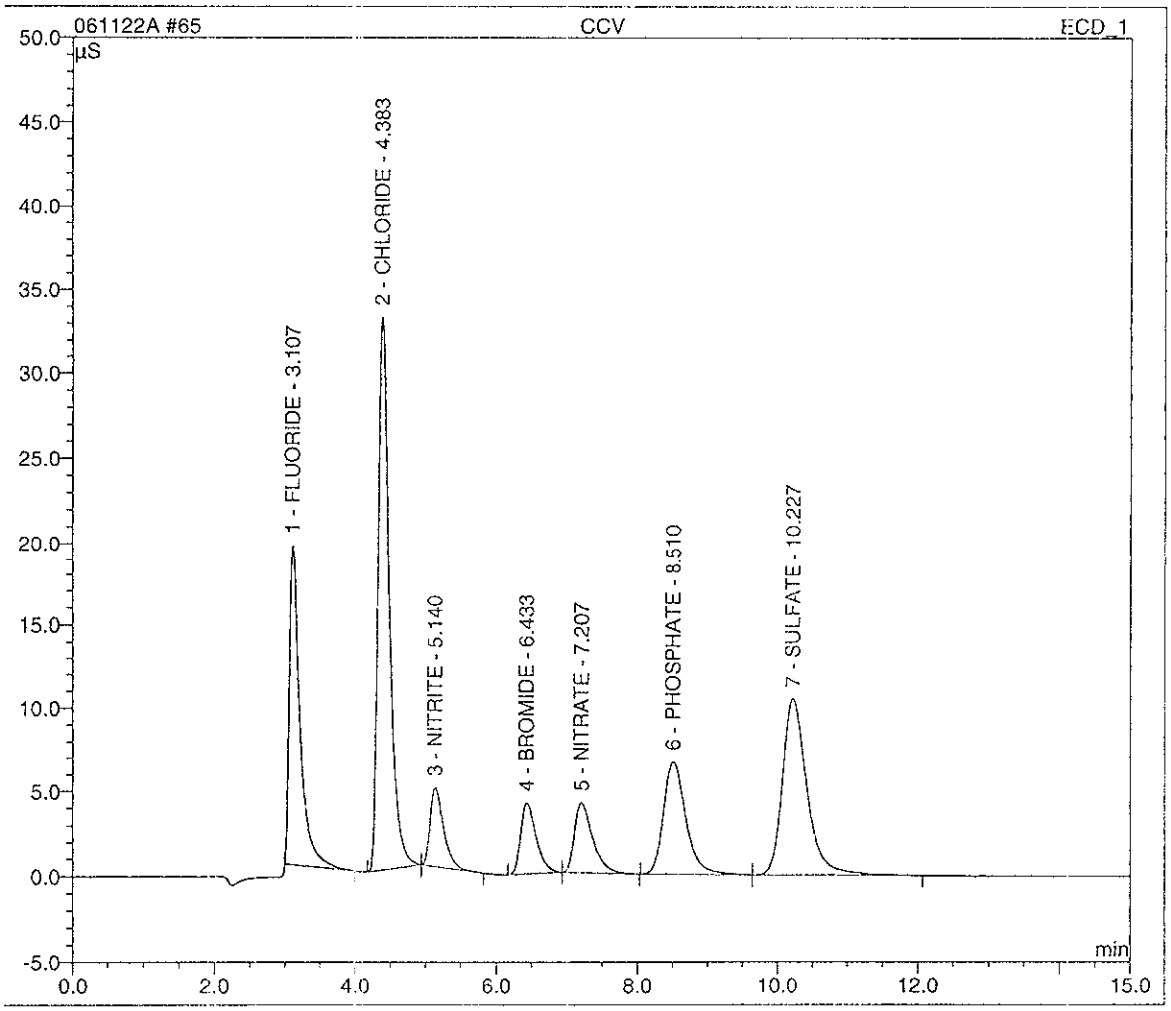
Sample Name:	**DCS**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**23.11.06 01:34**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount % ppm
1	3.11	FLUORIDE	BMB	0.635	3.185	4.7539
2	4.38	CHLORIDE	BMb	1.042	5.367	9.7025
3	5.14	NITRITE	bMB	0.198	0.867	0.9782
4	6.43	BROMIDE	BMB	0.207	0.780	4.7405
5	7.22	NITRATE	BMB	0.238	0.779	0.9482
6	8.53	PHOSPHATE	BMB	0.485	1.249	4.7883
7	10.24	SULFATE	BMB	0.808	1.942	10.1258
		TOTAL:		3.61	14.17	36.04



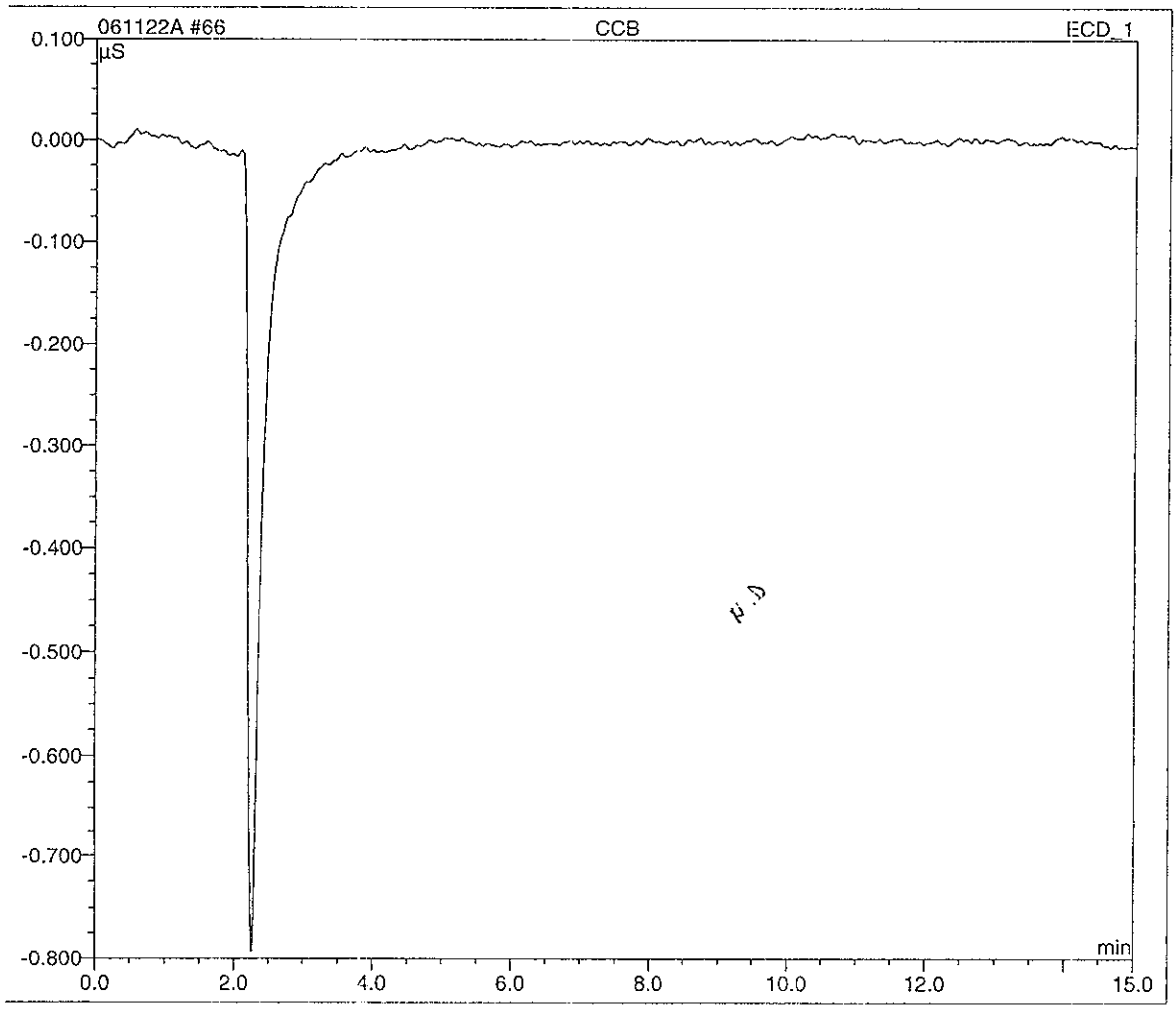
Sample Name:	**CCV**	*Inj. Vol.:*	**100.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**AS14A PROGRAM**	*Operator:*	**ounis**
Inj. Date/Time:	**23.11.06 01:51**	*Run Time:*	**15.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	%	Amount ppm
1	3.11	FLUORIDE	BMB	3.389	19.182		25.0976
2	4.38	CHLORIDE	BMb	6.112	32.970		50.4407
3	5.14	NITRITE	bMB	1.023	4.622		4.9007
4	6.43	BROMIDE	BMb	1.074	4.166		24.4089
5	7.21	NITRATE	bMB	1.235	4.117		4.8736
6	8.51	PHOSPHATE	BMB	2.464	6.665		24.0281
7	10.23	SULFATE	BMB	4.270	10.474	100	49.9889
		TOTAL:		19.57	82.20		183.74



Sample Name:	CCB	*Inj. Vol.:*	100.0
Sample Type:	unknown	*Dilution Factor:*	1.0000
Program:	AS14A PROGRAM	*Operator:*	ounis
Inj. Date/Time:	23.11.06 02:09	*Run Time:*	15.00

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount ppm
		TOTAL:		0.00	0.00	0.00



AIR, PM-10 & TSP

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 11/17/06
Time: 15:01:23

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 #: **6321478**
PREP DATE: 11/16/06 16:56
COMP DATE: 11/17/06 13:27
USER: VALMORES

INITIALS:
PREP RV
ANAL RV

DATA ENTRY:
INITIALS RV
DATE 11/17/06

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
✓JJMHA-1-AA	G-6K140165-001	XX S 88 JR 01	Y-D	11/17/06	P-0796
✓JJMHE-1-AA	G-6K140165-002	XX S 88 JR 01	Y-D	↓	P-0797

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

RFW

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6K140165 - 1 - 2 Batch #: 6321478

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 11/17/06 **ANALYST:** S Yalmores

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: S 11/17/06

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:

Comments: ~~do 28~~ do 13

QA-440 TSP Review

QA-440
ERS 6/24/04

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0000 091906skv0921	5.0004 091906skv1555	5.0003 111606skv1656	5.0005 111706skv1325					0.0001
JJMHA	pmbc091906-796	4.2214 091906skv0922	4.2214 091906skv1555	4.2282 111606skv1656	4.2284 111706skv1326					0.0070
JJMHE	pmbc091906-797	4.2230 091906skv0922	4.2231 091906skv1556	4.2321 111606skv1656	4.2321 111706skv1326					0.0090
	pmbc091906-798	4.3352 091906skv0922	4.3353 091906skv1556							NC
JJMHF	pmbc091906-799	4.3162 091906skv0923	4.3166 091906skv1556	4.3314 111606skv1657	4.3317 111706skv1326					0.0151
	pmbc091906-800	4.3723 091906skv0927	4.3726 091906skv1557							NC
	5 g wt	4.9998 091906skv0927	5.0001 091906skv1558	5.0004 111606skv1657	5.0001 111706skv1327					0.0000

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Page 1/1 Batch#: 6321478

Reviewed by: 12/4/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6321478**

Date 12/04/2006
Time 13:15:32

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.
JJMHA-1-AA	0.0070	g	0.0001	11/16-11/17/06	.00	N	R	0.0070	0.0001	1.00
JJMHE-1-AA	0.0090	g	0.0001	11/16-11/17/06	.00	N	R	0.0090	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.
WET CHEM BATCHSHEET

Run Date: 11/17/06
Time: 15:00:50

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 #: **6321477**
PREP DATE: 11/16/06 16:56
COMP DATE: 11/17/06 13:27
USER: VALMORES

INITIALS:
PREP
ANAL

DATA ENTRY:
INITIALS
DATE 11/17/06

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JJMHF-1-AA	G-6K140165-003	XX S 88 AO 3W	Y-D	11/17/06	P-0799

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6K140165-3 Batch #: 6321477

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 11/17/06 **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			
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] 11/17/06

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: [signature] 12/4/06

Comments: des IB

QA-440 TSP Review

QA-440
ERS 6/24/04

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0000 091906skv0921	5.0004 091906skv1555	5.0003 111606skv1656	5.0005 111706skv1325					0.0001
JJMHA	pmbc091906-796	4.2214 091906skv0922	4.2214 091906skv1555	4.2282 111606skv1656	4.2284 111706skv1326					0.0070
JJMHE	pmbc091906-797	4.2230 091906skv0922	4.2231 091906skv1556	4.2321 111606skv1656	4.2321 111706skv1326					0.0090
	pmbc091906-798	4.3352 091906skv0922	4.3353 091906skv1556							NC
JJMHF	pmbc091906-799	4.3162 091906skv0923	4.3166 091906skv1556	4.3314 111606skv1657	4.3317 111706skv1326					0.0151
	pmbc091906-800	4.3723 091906skv0927	4.3726 091906skv1557							NC
	5 g wt	4.9998 091906skv0927	5.0001 091906skv1558	5.0004 111606skv1657	5.0001 111706skv1327					0.0000

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N:/atg/air/airgrav3k.xls

Page 1/1 Batch#: 6321477

Reviewed by: 12/4/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6321477**

Date 12/04/2006
Time 13:24:47

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.
JJMHF-1-AA	0.0151	g	0.0001	11/16-11/17/06	.00	N	R	0.0151	0.0001	1.00

Notes:

PRODUCTION TOTALS

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