

Wednesday, February 24, 2010

Page 1 of 3
REQUEST NUMBER: 10-2025

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-2025

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/24/2010

TURNAROUND/REPORT DUE: 3/26/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0	1	1	RE36-10-8462	R	2/19/2010	
	1	1	RE36-10-8463	R	2/19/2010	
	1	1	RE36-10-8486	R	2/19/2010	
	1	1	RE36-10-8487	R	2/19/2010	
	1	1	RE36-10-8489	R	2/19/2010	
EPA:353.2	1	1	RE36-10-8492	W	2/19/2010	
SW-846:6010B	1	1	RE36-10-8462	R	2/19/2010	
	1	1	RE36-10-8463	R	2/19/2010	
	1	1	RE36-10-8486	R	2/19/2010	

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REQUEST NUMBER: 10-2025

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	SW-846:6020	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	SW-846:6850	1	RE36-10-8492	W	2/19/2010	
		1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
	SW-846:7470A	1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
		1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
	SW-846:7471A	1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8462	R	2/19/2010	
	SW-846:9012A	1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:9045C	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	

Wednesday, February 24, 2010

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PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9045C		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	

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Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2025

LOS ALAMOS

REQUEST NUMBER: 10-2025

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8492	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8492	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-8492	1	POLY	SW-846:6850	Ice	W
RE36-10-8492	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8489	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8489	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8486	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8486	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8487	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8487	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8462	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8462	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8463	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8463	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8462

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3	QBT2	
TIME COLLECTED (HH:MM)		08:10		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA	CBS	
LOCATION ID:	36-610879			FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	49.0 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	50.0 ft		SCREEN/PORT DESC:		N	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				WATER FLOWING: YES/NO/NA			
BOREHOLE DECLINATION:	-90°			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS <i>tan color clear</i>	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC:

Light pinkish gray, moderately indurated, slightly welded, dehydrified, dry, ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 28 dpm
Beta/Gamma = 200 dpm

12 m 2/19/10
PID $\frac{\text{Ambient}}{\text{Reading}}$ = ppm

COLLECTED BY (PRINT)

J. MARIN

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/19/10	(Printed Name) Sherrin Sherwood	2/19/10
(Signature) <i>J. Marin</i>	1535	(Signature) <i>Sherrin Sherwood</i>	1535
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8463

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3	QBT2	
TIME COLLECTED (HH:MM)		08:40		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA	CB5	
LOCATION ID:	36-610879	|		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	|		FIELD PREP:	NA	|	
TOP DEPTH:	Q	59.0 ft		SAMPLE USAGE:	INV	|	
BOTTOM DEPTH:	Q	60.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS ^{gsm} 2/19/10 clear	Ice	|	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	|	

SAMPLE DESC: pinkish grey tuff - slightly well sorted

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 19 dpm
 Beta/Gamma = 89 dpm ^{gsm} 2/19/10
 758

^{gsm} 2/19/10
 PID ^{Ambient} Reading = ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

J. MARIN

LARRY A. LOPEZ

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/19/10	(Printed Name) Sherrill Sherwood	2/19/10
(Signature) Jon R. Marin	15:35	(Signature) Sherrill Sherwood	1535
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8486

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		09:07		SUB-MEDIA:		TUFF 1	
PRS ID: 36-003(a)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: UNK		36 15-610879		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		OK		FIELD PREP:		NA	
TOP DEPTH: 0		69.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		70.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NO	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC:

Light brownish gray, moderately indurated, nonwelded, dehydrified, dry, arch flow to a ft

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 97 dpm

Beta/Gamma = 549 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

J. MARIN

REVIEWED BY (PRINT)

LARRY A. GORDON

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/19/10	(Printed Name) Sheri Sherwood	2/19/10
(Signature) J. R. Marin	15:35	(Signature) Sheri Sherwood	1535
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8487

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3	QBT2	
TIME COLLECTED(HH:MM)		09:20		SUB-MEDIA:	TUFF 1	OK	
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA	CB-5	
LOCATION ID:	UNK	36-15-610879		FIELD QC TYPE:	NA	OK	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	77.5 ft		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	80.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA	NO		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	-90°		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: FD-RE36-10-8487 Reddish brown, moderately indurated, non welded, dehydrified, dry, ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 30 dpm
Beta/Gamma = 681 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

J. MARIN

Lacey A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/19/10	(Printed Name) Sherri Sherwood	2/19/10
(Signature) J. A. Marin	15:35	(Signature) Sherri Sherwood	1535
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8489

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	QBT3		QBT2
TIME COLLECTED (HH:MM)		09:20		SUB-MEDIA:	TUFF 1		OK
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	UNK	36-610879		FIELD QC TYPE:	ED		OK
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		|
TOP DEPTH:	0	77.5 ft		SAMPLE USAGE:	QC		|
BOTTOM DEPTH:	0	80.0 ft		SCREEN/PORT DESC:			NA
FIELD MATRIX:	B	OK		EXCAVATED:	YES/NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE:	YES/NO/NA			BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8082+8270+NME D-EXP	500 ML AMBER GLASS	Ice	Y	
1		8260B	125 ML SEPTUM AMBER GLASS <i>from clear</i>	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: QC Sample of RE36-10-8487

Reddish brown, moderately indurated, non welded, dehydrified, dry, ash flow tuff

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 30 dpm
Beta/Gamma = 681 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

J. MARIN

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	2/19/10	(Printed Name) Sheri Shewood	2/19/10
(Signature) Jon R. Marin	15:35	(Signature) Sheri Shewood	1535
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8492

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/19/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		10:30		SUB-MEDIA:	OTHER		
PRS ID:	36-003(a)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	36-610879		FIELD QC TYPE:	FR		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	W	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1		NO3NO2	250 ML POLY	Sulfuric Acid (Hydrogen Sulfate)		
1		SW-846:6850	250 ML POLY	Ice		
1		TCN	500 ML POLY	Sodium Hydroxide		

SAMPLE DESC: QC Sample of RE36-10-8487

SAMPLE COMMENTS: NA

LOCATION DESC: NA

FIELD SCREENING/MEASUREMENT RESULTS:

1/26/10 α Alpha = _____ dpm
 Beta/Gamma = _____ dpm

1/26/10 α PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon R. Marin	Date/Time 2/19/10 15:35	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/19/10 1535
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2511

EVENT NAME: 4th Qtr. FY09 - SWMU 36-003(a) - Threemile Canyon

SAMPLE ID: RE36-10-8497

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	02/19/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	10:00	SUB-MEDIA:	OTHER
PRS ID: 36-003(a)	OK	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	36-610879	FIELD QC TYPE:	ETB
LOCATION TYPE: GENERIC	OK	FIELD PREP:	NA
TOP DEPTH: 0	I	SAMPLE USAGE:	QC
BOTTOM DEPTH: 0	I	SCREEN/PORT DESC:	NA
FIELD MATRIX: S	I	EXCAVATED: YES/NO/NA	NA
COMPOSITE TYPE: NA	COMPOSITE TIME INTERVAL: NA	WATER FLOWING: YES/NO/NA	NA
BOREHOLE: YES/NO/NA	BOREHOLE DECLINATION: -90°	BOREHOLE DIRECTION: NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE36-10-8487

SAMPLE COMMENTS: NA

LOCATION DESC: 3a-6

FIELD SCREENING/MEASUREMENT RESULTS: NA

COLLECTED BY (PRINT)
JON MARIN

REVIEWED BY (PRINT) LARRY A. COPEL

RELINQUISHED BY (Printed Name) JON MARIN (Signature) Jon Marin	Date/Time 2/19/10 15:35	RECEIVED BY (Printed Name) Sherrill Sherwood (Signature) Sherrill Sherwood	Date/Time 2/19/10 1535
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00066

Client Sample ID: RE36-10-8462

Sample Collection Date: 02/19/10 08:10

Sample Matrix: Soil/Solid

Request or PO Number:

ARS Sample ID: ARS2-10-00066-001

Date Received: 02/22/10 00:00

Report Date: 02/23/10 11:46

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	49.27	33.88	37.46	34.41		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
GROSS BETA	54.14	17.17	18.42	18.40		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
NA-22	-0.04	43.99	0.14	43.99		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
K-40	41.47	12.36	1.52	12.42		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CO-60	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-134	0.13	0.21	0.21	0.21		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-137	0.10	0.15	0.08	0.15		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
EU-152	-0.59	170.28	0.38	170.28		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
PB-212	1.91	0.64	0.18	0.64		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
RA-228	1.56	1.10	0.37	1.10		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-235	1.76	1.28	0.68	1.28		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	6.99	5.99	2.17	6.20		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
AM-241	0.06	0.21	0.12	0.21		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
NOTES: % Moisture: 0.17										

Matthew J. Eden
Quality Assurance Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: AR62-10-00066

Request or PO Number:

Client Sample ID: RE36-10-8463

ARS Sample ID: AR62-10-00066-002

Sample Collection Date: 02/19/10 08:40

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/23/10 11:46

Analyte Description	Analyte Results	Analyte Error +/- 2 s	MOC	TPU	Qual	Analyte Units	Analyte Test Method	Analyte Date/Time	Analyte Technician	Trace/Chem Recovery
GROSS ALPHA	46.67	31.53	34.06	32.04		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
GROSS BETA	58.70	17.48	17.92	18.90		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
NA-22	-0.04	43.17	0.14	43.17		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
K-40	32.56	10.85	1.49	10.89		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CO-60	0.00	0.00	0.14	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-134	0.27	0.24	0.20	0.24		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-137	0.02	0.04	0.06	0.04		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
EU-152	-0.23	-0.51	0.37	-0.51		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
PB-214	1.36	0.62	0.24	0.62		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
RA-226	1.30	0.98	0.36	0.98		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-235	1.55	0.98	0.59	0.98		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	6.10	4.56	1.82	4.77		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
AM-241	0.17	0.31	0.18	0.31		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
NOTES: % Moisture: 0.27										

Matthew J. Edin
Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00066
 Client Sample ID: RE36-10-8486
 Sample Collection Date: 02/19/10 09:07
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00066-010
 Date Received: 02/22/10 00:00
 Report Date: 02/23/10 11:46

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	37.45	28.61	34.06	29.18		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
GROSS BETA	42.26	15.69	17.92	16.52		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
NA-22	-0.04	45.28	0.14	45.28		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
K-40	34.14	11.38	1.56	11.42		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CO-60	0.00	0.00	0.15	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-134	0.05	0.17	0.10	0.17		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-137	0.08	0.11	0.09	0.11		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
EU-152	-0.61	175.26	0.39	175.26		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
PB-212	1.87	0.67	0.22	0.67		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
RA-226	2.41	1.03	0.38	1.04		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-235	0.42	0.84	0.47	0.84		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	3.99	4.14	1.61	4.23		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
AM-241	0.35	0.56	0.21	0.56		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
NOTES: % Moisture: 0.30										

Matthew J. Eden
 Quality Assurance Review

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LELAP Certificate# 30658

NE LAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00066

Request or PO Number:

Client Sample ID: RE36-10-8487

ARS Sample ID: ARS2-10-00066-011

Sample Collection Date: 02/19/10 09:20

Date Received: 02/22/10 00:00

Sample Matrix: Soil/Solid

Report Date: 02/23/10 11:46

Analyte Description	Analyte Results	Analyte Error +/- 2 s	MDC	TPU	Qml	Analyte Units	Analyte Test Method	Analyte Date/Time	Analyte Technician	Tracer/Chem Recovery
GROSS ALPHA	17.26	21.39	32.75	21.50		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
GROSS BETA	50.65	16.77	18.31	17.88		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
NA-22	-0.05	47.03	0.15	47.03		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
K-40	37.44	12.15	1.62	12.19		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CO-60	0.00	0.00	0.16	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-134	0.27	0.19	0.11	0.19		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-137	0.00	0.00	0.09	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
EU-152	0.82	0.75	0.41	0.75		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
PB-212	1.69	0.61	0.17	0.62		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
RA-228	3.10	1.21	0.39	1.22		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-235	1.90	1.16	0.66	1.16		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	8.03	4.45	1.51	4.81		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
AM-241	0.10	0.17	0.08	0.17		pCi/g	EPA 901.1M	2/23/2010	ME	N/A

NOTES: % Moisture: 0.49

Matthew L. Eder
Quality Assurance Review

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LELAP Certificate # 30658

NELAP Certificate # E87558



133 State Road 4, White Rock, NM 87544

505-672-2770 FAX 505-672-9534

ARS Sample Delivery Group: ARS2-10-00066
 Client Sample ID: RE36-10-8489
 Sample Collection Date: 02/19/10 09:20
 Sample Matrix: Soil/Solid

Request or PO Number:
 ARS Sample ID: ARS2-10-00066-012
 Date Received: 02/22/10 00:00
 Report Date: 02/23/10 11:46

Analysis Description	Analysis Results	Analysis Error +/- 2 s	MDC	TPU	Qual	Analysis Units	Analysis Test Method	Analysis Date/Time	Analysis Technician	Tracer/Chem Recovery
GROSS ALPHA	60.26	35.05	33.91	35.81		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
GROSS BETA	42.60	16.09	17.73	16.92		pCi/g	EPA 900.0M	2/23/2010	ME	N/A
NA-22	-0.04	43.04	0.14	43.04		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
K-40	32.46	10.82	1.48	10.86		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CO-60	0.12	0.15	0.14	0.15		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-134	0.03	0.09	0.19	0.09		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
CS-137	0.00	0.00	0.08	0.00		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
EU-152	0.86	0.46	0.39	0.46		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
PB-212	1.73	0.75	0.31	0.75		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
RA-228	3.37	1.19	0.36	1.20		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	1.65	1.22	0.45	1.22		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
U-238	4.43	4.61	1.93	4.72		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
AM-241	0.09	0.35	0.17	0.35		pCi/g	EPA 901.1M	2/23/2010	ME	N/A
NOTES: % Moisture: 0.56										

Matthew J. Edley
 Quality Assurance Review

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LELAP Certificate# 30658

NELAP Certificate # E87558

Rad Screening Data Release Form

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

RE36-10-8462
-8486
-8489
-8487
-8463

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

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

RE36-10-8492 FR
-8497 FTB

Reason:

.....
Print Last Name MARIN

Signature

John R. Marin

Date

2/19/10

DATA VALIDATION COVER SHEET

5116-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2025 VALIDATION DATE: 04/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Ellen McEntee ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input checked="" type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): _____ | | | |

Section II. Completeness Check


- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

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


1. It should be noted that the MS/MSDs associated with the water and soil samples were performed on LANL samples from other RNs. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 04/30/10


VALIDATOR'S SIGNATURE: Ellen McEntee DATE: 04/30/10

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. The Internal Standard (IS) relative retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC0b	R, PERC0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC1d	R, PERC1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, PERC4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $>5X$.	N/A	J+, PERC4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, PERC4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC4e	R, PERC4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, PERC7	J, PERC7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.99 .	UJ, R, PERC7a	J, PERC7a

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, PERC7f	R. PERC7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The MS/MSD relative percent difference was >20%.	UJ, PERC12g	J, PERC12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	28. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, PERC15	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	29. The sample was diluted because target analytes were > the initial verification calibration.	UJ, PERC15a	J, PERC15a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30. The Contract Required Detection Limit check standard (CRI) sample did not pass method-acceptance limits.	UJ, R, PERC16	J, PERC16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	31. The Interference Check Sample was not within $\pm 20\%$ of the known value.	UJ, PERC16a	J, PERC16a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, PERC16c	R, PERC16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, PERC19	J, R, PERC19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. Duplicate, dilution, or reanalysis.	UJ, PERC88	J, PERC88

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 259043
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0

Client Sample No.
RE36-10-8492
 Date Received: 25-FEB-10
 GEL Job No (SDG): 10-2025
 GEL Sample ID: 247997001
 Date Filtered: 03-MAR-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate Isotope Ratio						1	09-MAR-10 05:13	per0308090a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate-O(18)			0.429	ug/L		1	09-MAR-10 05:13	per0308090a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8489

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000001

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 95.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:26	per0317046a
14797-73-0	Perchlorate-101	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate-O(18)			4.48	ug/kg		1	17-MAR-10 18:26	per0317046a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8486
 Date Received: 25-FEB-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 248000002
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 % Solids: 96.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:34	per0317047a
14797-73-0	Perchlorate-101	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate-O(18)			4.41	ug/kg		1	17-MAR-10 18:34	per0317047a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{ Solids}}$

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8487
 Date Received: 25-FEB-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 248000003
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 94.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:04	per0317051a
14797-73-0	Perchlorate-101	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate-O(18)			4.44	ug/kg		1	17-MAR-10 19:04	per0317051a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No.
RE36-10-8462
 Date Received: 25-FEB-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 248000004
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 98.5

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:12	per0317052a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate-O(18)			4.12	ug/kg		1	17-MAR-10 19:12	per0317052a

^ When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 258915

Extraction Type: Solid Prep

Client Sample No.

RE36-10-8463

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000005

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 97.3

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:19	per0317053a
14797-73-0	Perchlorate-101	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate-O(18)			4.32	ug/kg		1	17-MAR-10 19:19	per0317053a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2025 VALIDATION DATE: 04/30/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Ellen McEntee ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input checked="" type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): _____ | | | |

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

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

- In the MB associated with the water sample, V, Se, Pb, and Tl were detected. The associated results were detects $\leq 5X$ the MB concentration and, thus, were qualified U,I4. In the MB associated with the soil samples, K, Na, Cr, and Ba were detected. The results for Cr in samples RE36-10-8489 and -8487 were detects $\leq 5X$ the MB concentration and, thus, were qualified U,I4. The results for Na in samples -8487, -8462, and -8463 were detects $> 5X$ but $\leq 50X$ the MB concentration and, thus were qualified J,I4a. All other associated results were detects $> 50X$ the MB concentration and, thus, were not qualified based on professional judgment.
- In the CCB associated with the water sample, V was detected. The associated result was a detect $\leq 5X$ the CCB concentration and, thus was qualified U,I4b. In the CCB associated with the soil samples, K and Na were detected. The associated results were detects $> 5X$ the blank concentration and, thus were not qualified.
- In the FR blank, sample -8492 associated with all soil samples, Cr, K, and Na were detected. All associated sample results were detects $> 5X$ the FR concentrations and, thus, were not qualified.
- The soil LCS %R was $<$ the laboratory LAL but $\geq 10\%$ for Sb. The associated sample results were NDs and, thus, were qualified UJ,I12a.
- The soil MS %R was $<$ the laboratory LAL but $\geq 10\%$ for Zn. The associated sample results were detects and, thus, were qualified J-,I6a. The soil MS %Rs were $>$ the laboratory UAL for K, Na, and Al. The associated sample results were detects and, thus, were qualified J+,I6b. The soil MS %Rs were $< 10\%$ for Fe and Mn, however, the sample concentrations were $> 4X$ the spike concentrations. Data were not qualified, based on professional judgment.
- The soil duplicate RPD was $> 35\%$ for Mn and both the parent and duplicates sample results were detects $\geq 5X$ the

PQL. The associated sample results were detects and, thus, were qualified J,I10a.

7. It should be noted that the soil matrix QC for CVAA and the water matrix QC for all analyses were performed on LANL samples from other RNs. No sample data was qualified as a result.

Reviewed by: Mary Donovan

Level: I

Date: 04/30/10

VALIDATOR'S SIGNATURE:


M. Webster

DATE: 04/30/10


Form 5118-1, Revision 0.0

LOS ALAMOS


Environmental Restoration Project

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The instrument performance sample did not pass method acceptance criteria.	R, I16	R, I16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The mass calibration is not within 0.1 amu or %RSD is >5% for any isotope (Be, Mg, Co, In, Pb).	UJ, I16a	J, I16a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, I16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, I16c	R, I16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, I7	J, I7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, I7a	J, I7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, I7c	J, I7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, I7f	R, I7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Metals interference check sample percent recover value is <50%.	R, I2	J-, I2

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, I4	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5X$.	N/A	J, I4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22. The associated matrix spike recovery was $< 10\%$. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was $< \text{the LAL}$ but $> 10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24. The associated matrix spike recovery was $> \text{the UAL}$. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS Information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	33. The IS area count for the quantitating IS is <60% but >10% for metals window in relation to the initial calibration blank. Follow the method-specific windows.	UJ, I1b	J, I1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The IS area count for the quantitating IS is >125% in relation to the metals initial calibration blank. Follow method-specific windows.	UJ, I1c	J, I1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I1d	R, I1d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. Serial dilution sample RPD was >10% and the sample result was >50X the MDL (>100X the MDL for ICPMS). Qualify ONLY the sample used for the serial dilution.	UJ, I18	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. Serial dilution sample was not analyzed with the samples.	UJ, I18a	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	38. The sample result was reported as detected between the IDL and the EDL.	N/A	J, I1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, I88	J, I88
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, I19	J, R, I19

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247997001

BASIS: As Received

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8492

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 12:41	100413-3	959091
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-47-3	Chromium	1.02	ug/L	J	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-92-1	Lead U,14	1.21	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 11:19	030210W3-6	958951
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-09-7	Potassium	123	ug/L	J	50	150	150	1	P	HSC	03/26/10 22:27	032610A-1	959089
7782-49-2	Selenium U,14	10.1	ug/L	J	5	30	30	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-23-5	Sodium	119	ug/L	J	100	300	300	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-28-0	Thallium U,14	0.485	ug/L	J	0.3	1	1	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 15:50	100413-5	959091
7440-62-2	Vanadium U,14	1.22	ug/L	J	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/26/10 22:27	032610A-1	959089

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958951	958949	SW846 7470A Prep	20	mL	20	mL	03/01/10	TXB3
959089	959088	SW846 3005A	50	mL	50	mL	03/04/10	LYH1
959091	959090	SW846 3005A	50	mL	50	mL	03/02/10	FGA

EJM
04/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000001

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8489

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 95.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	156000	ug/Kg	N	6800	20000	20000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-36-0	Antimony UJ,112a	1000	ug/Kg	U	330	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-38-2	Arsenic	0.328	mg/kg	J	0.206	1.03	1.03	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-39-3	Barium	18400	ug/Kg	*	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-41-7	Beryllium	0.346	mg/kg		0.0206	0.103	0.103	2	MS	PRB	04/21/10 21:43	100421-2	959095
7440-43-9	Cadmium	500	ug/Kg	U	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-70-2	Calcium	389000	ug/Kg	*	8000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-47-3	Chromium U,14	1410	ug/Kg	*	150	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-48-4	Cobalt	822	ug/Kg		150	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-50-8	Copper	1320	ug/Kg		300	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-89-6	Iron	7140000	ug/Kg	*	8000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-92-1	Lead	3560	ug/Kg	*	250	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-95-4	Magnesium	210000	ug/Kg	*	8500	30000	30000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-96-5	Manganese J,110a	396000	ug/Kg	*	200	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-97-6	Mercury	11.7	ug/kg	U	3.97	11.7	11.7	1	AV	JXL1	03/09/10 15:06	030910S1-7	958731
7440-02-0	Nickel	0.512	mg/kg		0.103	0.412	0.412	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-09-7	Potassium J+,16b	553000	ug/Kg	N	6400	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7782-49-2	Selenium	0.557	mg/kg	JN	0.515	1.03	1.03	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-22-4	Silver	500	ug/Kg	U	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-23-5	Sodium J+,16b	518000	ug/Kg	N	7000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-28-0	Thallium	0.206	mg/kg	U	0.0618	0.206	0.206	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-61-1	Uranium	0.646	mg/kg		0.0136	0.0412	0.0412	2	MS	PRB	04/23/10 09:57	100422-6	959095
7440-62-2	Vanadium	2960	ug/Kg	*	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-66-6	Zinc J-,16a	55000	ug/Kg	*N	330	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.54	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.525	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.51	g	50	mL	03/02/10	AXG2

EJM
04/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000002

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8486

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 96.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+, I6b	1200000	ug/Kg	N	6510	19100	19100	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-36-0	Antimony UJ, I12a	957	ug/Kg	U	316	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-38-2	Arsenic	0.333	mg/kg	J	0.198	0.99	0.99	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-39-3	Barium	11600	ug/Kg	*	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-41-7	Beryllium	0.268	mg/kg		0.0198	0.099	0.099	2	MS	PRB	04/21/10 21:54	100421-2	959095
7440-43-9	Cadmium	478	ug/Kg	U	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-70-2	Calcium	328000	ug/Kg	*	7650	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-47-3	Chromium	14500	ug/Kg	*	144	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-48-4	Cobalt	668	ug/Kg		144	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-50-8	Copper	1050	ug/Kg		287	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-89-6	Iron	5950000	ug/Kg	*	7650	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-92-1	Lead	3010	ug/Kg	*	239	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-95-4	Magnesium	132000	ug/Kg	*	8130	28700	28700	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-96-5	Manganese J, I10a	271000	ug/Kg	*	191	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-97-6	Mercury	11.2	ug/kg	U	3.81	11.2	11.2	1	AV	JXL1	03/09/10 15:08	030910S1-7	958731
7440-02-0	Nickel	0.569	mg/kg		0.099	0.396	0.396	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-09-7	Potassium J+, I6b	586000	ug/Kg	N	6120	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7782-49-2	Selenium	0.990	mg/kg	UN	0.495	0.99	0.99	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-22-4	Silver	478	ug/Kg	U	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-23-5	Sodium J+, I6b	555000	ug/Kg	N	6700	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-28-0	Thallium	0.198	mg/kg	U	0.0594	0.198	0.198	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-61-1	Uranium	0.716	mg/kg		0.0131	0.0396	0.0396	2	MS	PRB	04/23/10 10:10	100422-6	959095
7440-62-2	Vanadium	1780	ug/Kg	*	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-66-6	Zinc J-, I6a	44400	ug/Kg	*N	316	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.555	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.541	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.523	g	50	mL	03/02/10	AXG2

EJM
04/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000003

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8487

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 94.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,I6b	1610000	ug/Kg	N	6870	20200	20200	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-36-0	Antimony UJ,I12a	1010	ug/Kg	U	334	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-38-2	Arsenic	0.448	mg/kg	J	0.202	1.01	1.01	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-39-3	Barium	12800	ug/Kg	*	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-41-7	Beryllium	0.437	mg/kg		0.0202	0.101	0.101	2	MS	PRB	04/21/10 21:56	100421-2	959095
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-70-2	Calcium	349000	ug/Kg	*	8090	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-47-3	Chromium U,I4	1550	ug/Kg	*	152	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-48-4	Cobalt	644	ug/Kg		152	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-50-8	Copper	1110	ug/Kg		303	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-89-6	Iron	5720000	ug/Kg	*	8090	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-92-1	Lead	2750	ug/Kg	*	253	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-95-4	Magnesium	181000	ug/Kg	*	8590	30300	30300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-96-5	Manganese J,I10a	250000	ug/Kg	*	202	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-97-6	Mercury	12.7	ug/kg	U	4.3	12.7	12.7	1	AV	JXL1	03/09/10 15:10	030910S1-7	958731
7440-02-0	Nickel	0.783	mg/kg		0.101	0.403	0.403	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-09-7	Potassium J+,I6b	516000	ug/Kg	N	6470	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7782-49-2	Selenium	1.01	mg/kg	UN	0.504	1.01	1.01	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-22-4	Silver	505	ug/Kg	U	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-23-5	Sodium J,I4a	441000	ug/Kg	N	7070	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-28-0	Thallium	0.202	mg/kg	U	0.0605	0.202	0.202	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-61-1	Uranium	0.676	mg/kg		0.0133	0.0403	0.0403	2	MS	PRB	04/23/10 10:12	100422-6	959095
7440-62-2	Vanadium	2120	ug/Kg	*	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-66-6	Zinc J-,I6a	42800	ug/Kg	*N	334	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.501	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.523	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.524	g	50	mL	03/02/10	AXG2

EJM
04/30/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000004

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8462

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	1510000	ug/Kg	N	6420	18900	18900	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-36-0	Antimony UJ,112a	944	ug/Kg	U	311	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-38-2	Arsenic	0.321	mg/kg	J	0.201	1	1	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-39-3	Barium	14400	ug/Kg	*	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-41-7	Beryllium	0.406	mg/kg		0.0201	0.1	0.1	2	MS	PRB	04/21/10 22:02	100421-2	959095
7440-43-9	Cadmium	472	ug/Kg	U	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-70-2	Calcium	509000	ug/Kg	*	7550	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-47-3	Chromium	3630	ug/Kg	*	142	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-48-4	Cobalt	625	ug/Kg		142	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-50-8	Copper	1250	ug/Kg		283	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-89-6	Iron	5670000	ug/Kg	*	7550	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-92-1	Lead	2880	ug/Kg	*	236	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-95-4	Magnesium	167000	ug/Kg	*	8020	28300	28300	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-96-5	Manganese J,110a	259000	ug/Kg	*	189	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-97-6	Mercury	11.6	ug/kg	U	3.94	11.6	11.6	1	AV	JXL1	03/09/10 15:12	030910S1-7	958731
7440-02-0	Nickel	1.06	mg/kg		0.1	0.401	0.401	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-09-7	Potassium J+,16b	488000	ug/Kg	N	6040	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7782-49-2	Selenium	1	mg/kg	UN	0.502	1	1	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-22-4	Silver	472	ug/Kg	U	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-23-5	Sodium J,14a	390000	ug/Kg	N	6610	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-28-0	Thallium	0.201	mg/kg	U	0.0602	0.201	0.201	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-61-1	Uranium	0.908	mg/kg		0.0132	0.0401	0.0401	2	MS	PRB	04/23/10 10:18	100422-6	959095
7440-62-2	Vanadium	2070	ug/Kg	*	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-66-6	Zinc J-,16a	42300	ug/Kg	*N	311	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.526	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.538	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.506	g	50	mL	03/02/10	AXG2

EJM
04/30/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000005

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8463

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL


%SOLIDS: 97.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,I6b	3170000	ug/Kg	N	6890	20300	20300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-36-0	Antimony UJ,I12a	1010	ug/Kg	U	335	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-38-2	Arsenic	0.323	mg/kg	J	0.186	0.93	0.93	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-39-3	Barium	28200	ug/Kg	*	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-41-7	Beryllium	0.591	mg/kg		0.0186	0.093	0.093	2	MS	PRB	04/21/10 22:04	100421-2	959095
7440-43-9	Cadmium	507	ug/Kg	U	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-70-2	Calcium	525000	ug/Kg	*	8110	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-47-3	Chromium	6600	ug/Kg	*	152	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-48-4	Cobalt	810	ug/Kg		152	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-50-8	Copper	1550	ug/Kg		304	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-89-6	Iron	6380000	ug/Kg	*	8110	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-92-1	Lead	3180	ug/Kg	*	253	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-95-4	Magnesium	308000	ug/Kg	*	8620	30400	30400	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-96-5	Manganese J,I10a	251000	ug/Kg	*	203	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-97-6	Mercury	10.7	ug/kg	U	3.63	10.7	10.7	1	AV	JXL1	03/09/10 15:14	030910S1-7	958731
7440-02-0	Nickel	2.06	mg/kg		0.093	0.372	0.372	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-09-7	Potassium J+,I6b	435000	ug/Kg	N	6490	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7782-49-2	Selenium	0.930	mg/kg	UN	0.465	0.93	0.93	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-22-4	Silver	507	ug/Kg	U	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-23-5	Sodium J,I4a	293000	ug/Kg	N	7100	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-28-0	Thallium	0.186	mg/kg	U	0.0558	0.186	0.186	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-61-1	Uranium	0.676	mg/kg		0.0123	0.0372	0.0372	2	MS	PRB	04/23/10 10:20	100422-6	959095
7440-62-2	Vanadium	2940	ug/Kg	*	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-66-6	Zinc J-,I6a	43200	ug/Kg	*N	335	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.578	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.507	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.553	g	50	mL	03/02/10	AXG2

EJM
04/30/10

DATA VALIDATION COVER SHEET	
5120-1 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 


Section I.			
REQUEST NUMBER: <u>10-2025</u>	VALIDATION DATE: <u>04/30/10</u>	LAB CODE: <u>GEL</u>	
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>			
VALIDATOR: <u>Ellen McEntee</u>		ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>	
ANALYTICAL SUITE (CHECK ALL THAT APPLY):			
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> LCMSMS PERCHLORATES
<input type="checkbox"/> TPH-DRO	<input type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE
<input checked="" type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	<input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> OTHER (DESCRIBE): _____			

Section II. Completeness Check							
YES	NO	N/A	(CHECK ONE)	YES	NO	N/A	(CHECK ONE)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. CHAIN-OF-CUSTODY FORM(S)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. RAW/BSS DATA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. CASE NARRATIVE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. QUALITY CONTROL FORMS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. SAMPLE RESULT FORMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact): <ol style="list-style-type: none"> 1. In the MB associated with the water sample, nitrate/nitrite was detected. The associated result was a detect $\leq 5X$ the blank concentration and, thus, was qualified UJ4. 2. The soil MS %R was < the laboratory LAL but $\geq 10\%$ for nitrate. The associated sample results were detects and, thus, were qualified J-16a. 3. It should be noted that the soil matrix QC for total cyanide and the water matrix QC for total cyanide and nitrate/nitrite were performed on LANL samples from other RNs. No sample data was qualified as a result. 							
Reviewed by: <u>Mary Donovan</u>				Level: <u>I</u>		Date: <u>04/30/10</u>	


VALIDATOR'S SIGNATURE: *John McKeever* DATE: 04/30/10

Form 5120-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, I9b	R, I9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, I7	J, I7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, I7a	J, I7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The ICV and/or CCV were recovered outside the method specific limits.	UJ, I7c	J, I7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, I7f	R, I7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. The interference check sample percent recovery value is <50%.	R, I2	J-, I2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The interference check sample percent recovery value is ≥50% and <80%.	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The interference check sample percent recovery value is >120%.	N/A	J+, I2b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, I4	N/A

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2	Records Use only
General Chemistry Analytical Data Validation Checklist 	

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J, I4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The associate matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20. The associated matrix spike recovery was below the Lower Acceptance Limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J-, I6a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If LCS information is present, do not reject. Qualify data based on LCS information.	R, I6c	R, I6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package.	UJ, I10b	J, I10b

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recover was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. Duplicate, dilution, or reanalysis	UJ, I88	J, I88
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, I19	J, R, I19
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31. Qualification of data via data validation does not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB NQ, NQ (no qualification)

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 15, 2010

Client SDG: 10-2025

Client Sample ID: RE36-10-8492
Sample ID: 247997001
Matrix: W
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1530	960499	1
Nutrient Analysis											
<i>EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"</i>											
Nitrogen, Nitrate/Nitrite	J	0.062	U,14	0.050	0.250	mg/L	5	AXH3	03/03/10	1055	958150 2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 353.2	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8489
Sample ID: 248000001
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 4.81%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	7.27	0.010	0.100	SU	1	TXT1	03/01/10	1627	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.4	248	ug/kg	1	AXC2	03/05/10	1029	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.30	J-.16a	0.315	mg/kg	1	MAR1	03/19/10	2304	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8486
Sample ID: 248000002
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 3.41%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	8.62	0.010	0.100	SU	1	TXT1	03/01/10	1630	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.4	244	ug/kg	1	AXC2	03/05/10	1030	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.04	J-.16a	0.311	1.04	mg/kg	1	MAR1	03/20/10	0051	962071 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8487
Sample ID: 248000003
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 5.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	7.35	0.010	0.100	SU	1	TXT1	03/01/10	1636	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.8	249	ug/kg	1	AXC2	03/05/10	1031	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.27	J-,16a	0.317	1.06	mg/kg	1	MAR1	03/20/10	0118	962071 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8462
Sample ID: 248000004
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 1.51%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	8.47	0.010	0.100	SU	1	TXT1	03/01/10	1641	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	03/05/10	1032	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.77	J-.16a	0.305	1.02	mg/kg	1	MAR1	03/20/10	0145	962071 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8463
Sample ID: 248000005
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 2.73%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.6C	H	7.83	0.010	0.100	SU	1	TXT1	03/01/10	1642	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	62.4	229	ug/kg	1	AXC2	03/05/10	1033	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.87	J-.16a	0.308	1.03	mg/kg	1	MAR1	03/20/10	0212	962071 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2025

LOS ALAMOS

REQUEST NUMBER: 10-2025

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247997, 248000%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8492	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8492	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-8492	1	POLY	SW-846:6850	Ice	W
RE36-10-8492	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8489	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8489	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8486	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8486	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8487	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8487	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8462	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8462	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8463	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8463	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 24, 2010
LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-2025
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/24/2010
TURNAROUND/REPORT DUE: 3/26/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	EPA:353.2	1	RE36-10-8492	W	2/19/2010	
	SW-846:6010B	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	

Wednesday, February 24, 2010

Page 2 of 3

REQUEST NUMBER: 10-2025

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	SW-846:6020	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:6850	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:7470A	1	RE36-10-8492	W	2/19/2010	
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		1	RE36-10-8487	R	2/19/2010	
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		1	RE36-10-8492	W	2/19/2010	
	SW-846:9045C	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9045C	1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	

Final Page of REQUEST NUMBER 10-2025



March 04, 2010

www.gel.comMs. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545Re: LANL ER Project
Work Orders: 247997 248000
SDG: 10-2025

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 25, 2010, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project ManagerPurchase Order: 72733-001-09
Chain of Custody: 10-2025
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247997 and 248000
SDG: 10-2025

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Miscellaneous	1157

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247997 and 248000
SDG # : 10-2025**

March 04, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 25, 2010 for analysis. The sample was prepared/analyzed within the required holding time. Shipping container temperature was checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
247997001	RE36-10-8492
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463

Case Narrative

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

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

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



Valerie Davis
Project Manager

List of current GEL Certifications as of 04 March 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Chain of Custody and Supporting Documentation

Wednesday, February 24, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2025

LOS ALAMOS

REQUEST NUMBER: 10-2025

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/26/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

847997, 248000%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-8492	1	POLY	METALS+U-GEL	Nitric Acid	W
RE36-10-8492	1	POLY	NO3NO2	Sulfuric Acid (Hydrogen Sulfate)	W
RE36-10-8492	1	POLY	SW-846:6850	Ice	W
RE36-10-8492	1	POLY	TCN	Sodium Hydroxide	W
RE36-10-8489	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8489	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8486	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8486	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8487	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8487	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8462	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8462	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-8463	1	POLY	METALS+U-GEL	Ice	R
RE36-10-8463	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 24, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

Page 1 of 3
REQUEST NUMBER: 10-2025

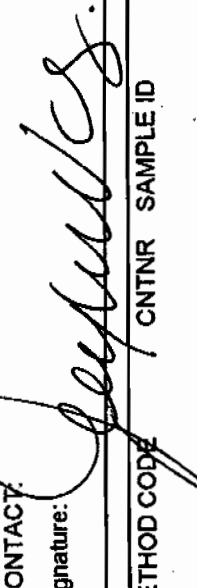
ATTN: Valerie Davis
General Engineering Laboratories, Inc., Charleston, SC.
2040 Savage Rd
Charleston, SC 29407

These Samples are on:
LANL Request Number: 10-2025
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/24/2010
TURNAROUND/REPORT DUE: 3/26/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:
Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
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		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	EPA-353.2	1	RE36-10-8492	W	2/19/2010	
	SW-846:6010B	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	

Wednesday, February 24, 2010

REQUEST NUMBER: 10-2025

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
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		1	RE36-10-8489	R	2/19/2010	
	SW-846:6020	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:6850	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:7470A	1	RE36-10-8492	W	2/19/2010	
	SW-846:7471A	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
	SW-846:9012A	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	
		1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	
		1	RE36-10-8492	W	2/19/2010	
	SW-846:9045C	1	RE36-10-8462	R	2/19/2010	
		1	RE36-10-8463	R	2/19/2010	

REQUEST NUMBER: 10-2025

Wednesday, February 24, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
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	SW-846:9045C	1	RE36-10-8486	R	2/19/2010	
		1	RE36-10-8487	R	2/19/2010	
		1	RE36-10-8489	R	2/19/2010	

Final Page of REQUEST NUMBER 10-2025



SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCO/Work Order: 10-2025		
Received By: Patricia Dover-Dent			Date Received: FEB-25-2010		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 80 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 0-6 ,12-14
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: No Time On chain of custody
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#s			
7209 7850 1919 0C	7209 7850 2076 2C	7209 7850 2238 3C	7209 7850 1893 12C
7209 7850 2146 1C	7209 7850 2065 2C	7209 7850 2124 3C	7209 7850 1849 12C
7209 7850 1952 1C	7209 7850 1996 3C	7209 7850 1974 4C	7209 7850 1838 13C
7209 7850 2054 1C	7209 7850 2135 3C	7209 7850 1985 4C	7209 7850 1860 13C
7209 7850 1963 1C	7209 7850 2032 3C	7209 7850 2000 4C	7209 7850 1850 13C
7209 7850 2021 2C	7209 7850 2249 3C	7209 7850 2087 4C	7209 7850 2098 13C
7209 7850 2113 2C	7209 7850 2168 3C	7209 7850 2010 5C	7209 7850 1908 14C
7209 7850 2102 2C	7209 7850 1941 3C	7209 7850 2157 6C	
7209 7850 1882 2C	7209 7850 2043 3C	7209 7850 1871 12C	

PM (or PMA) review: Initials

Date

2/26/10

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTGNT: 49.0 LB M
CAD: 0014178/CAFE

BILL SENDER

ORIGIN TO: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTGNT: 63.0 LB MANN
CAD: 0014178/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A0532VA00

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGWMO

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Express



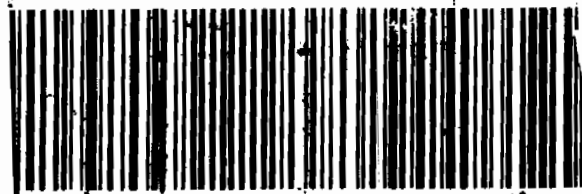
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

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Express



2 of 3
IN 7209 7850 1952

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SC-US
CHS

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2 of 2
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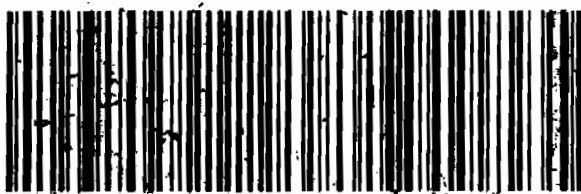
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CHS

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGWMO

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1 of 2
TRK# 7209 7850 2054

MM MASTER MM

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PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



JIN ID: SAFA (605) 665-9968
JOYLENE VALDEZ
ALAMOS NATL LAB
3 BLDG 1237 DPU 03

ALAMOS, NM 87545
UNITED STATES US

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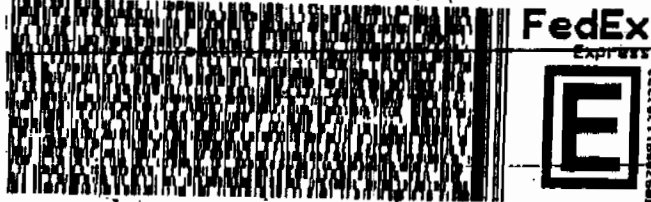
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LERIE DAVIS
GENERAL ENGINEERING LAB
40 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR3A05529E00

ALAMOS, NM 87545
UNITED STATES US



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CHSA 29407
SC-US
CHS



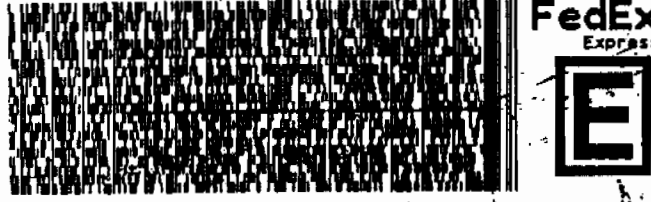
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UNITED STATES US

LERIE DAVIS
GENERAL ENGINEERING LAB
40 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
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ALAMOS, NM 87545
UNITED STATES US



1 of 2 THU - 25FEB A1
7209 7850 2113 PRIORITY OVERNIGHT
MASTER NH

CHSA 29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
1A00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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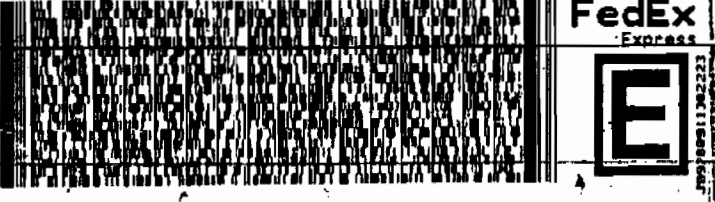
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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

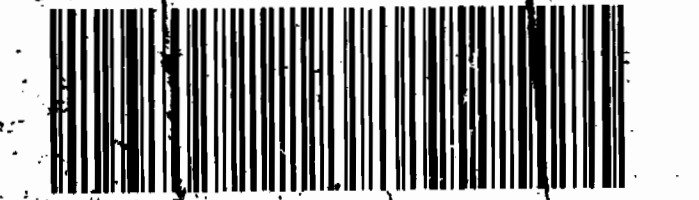
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LOS ALAMOS, NM 87545
UNITED STATES US



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SC-US
CHS

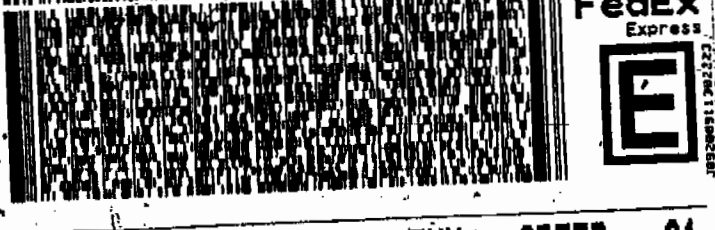


VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 6B010AMR1A015AGW10

LOS ALAMOS, NM 87545
UNITED STATES US



MPSH 2 of 2 THU - 25FEB A1
0203 7209 7850 2102 PRIORITY OVERNIGHT
Mtrk 7209 7850 2098 0201

XX CHSA 29407
SC-US
CHS



ORIGIN ID: SAFA (505) 665-8968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 55.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR3A0532VA00

TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

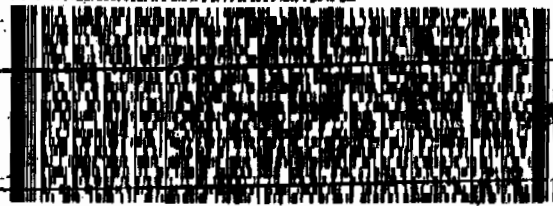
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(843) 556-8171

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2 of 3
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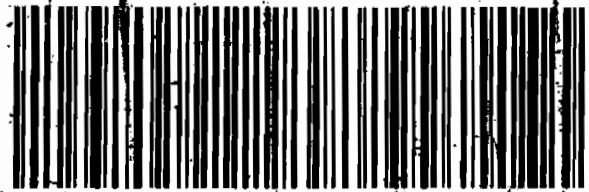


THU - 25FEB
PRIORITY OVERNIGHT

29407

1 of 2
TRKH 7209 7850 2076
NM MASTER NM

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THU - 25FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

CAD: 0014176/CAFE2450

BILL SENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR1A015AGWMO



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PRIORITY OVERNIGHT

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2 of 2
NPS# 7209 7850 2065
Mstr# 7209 7850 2054 0201

XX CHSA

2 of 2
7209 7850 1996
7209 7850 1985 0201

XX CHSA

THU - 25FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 24FEB10
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CAD: 0014176/CAFE2450
BILL SENDER

ORIGIN ID: SAFA (505) 665-9969
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

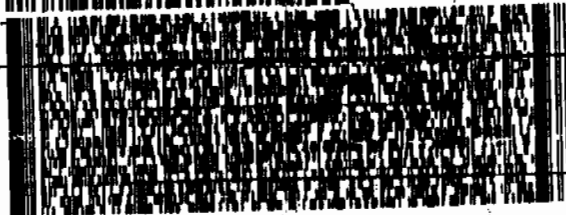
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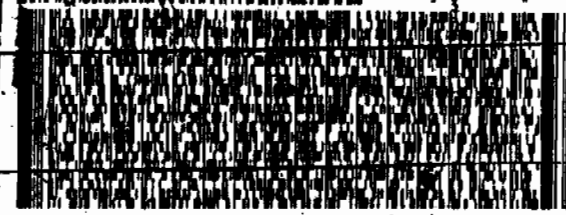
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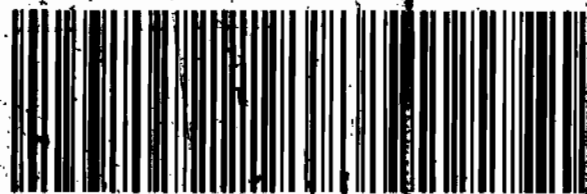


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UNITED STATES US

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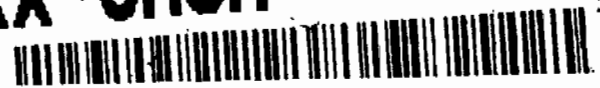


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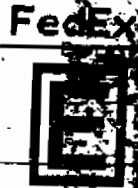
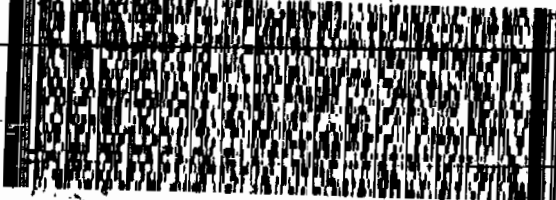
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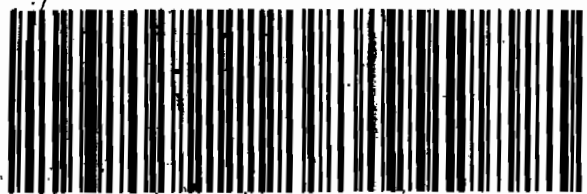


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JOYLENE VALDEZ
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CAD: 0014176/CAFE2450

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JOYLENE VALDEZ
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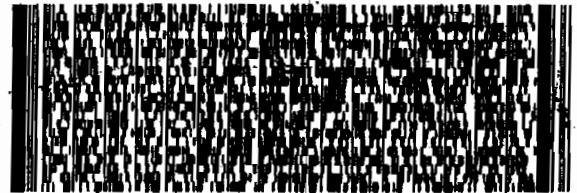
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UNITED STATES US

ACTWGT: 51.0 LB MAN
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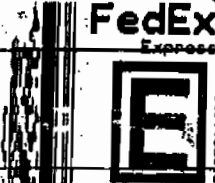
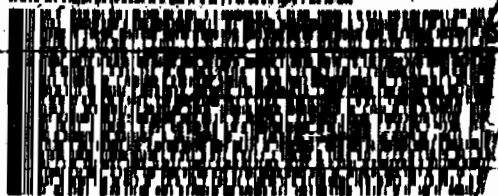
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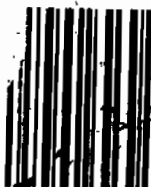
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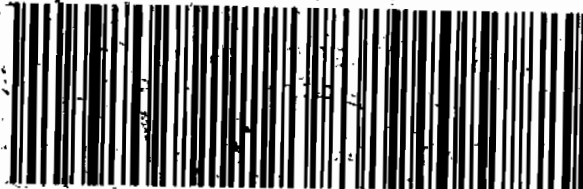
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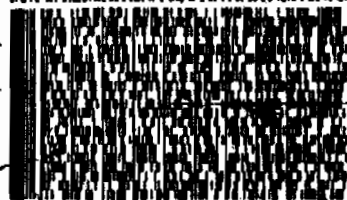
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
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LOS ALAMOS, NM 87545
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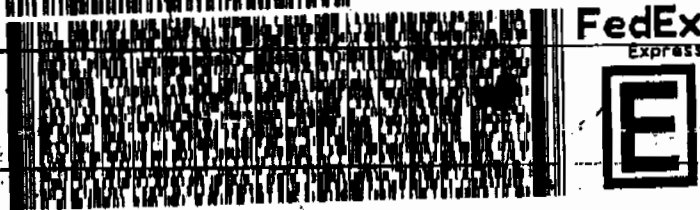
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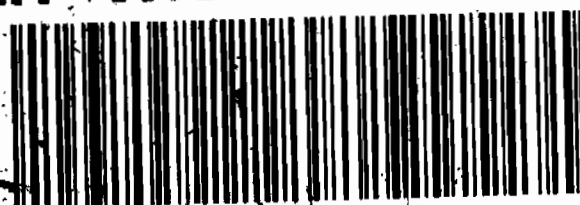
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
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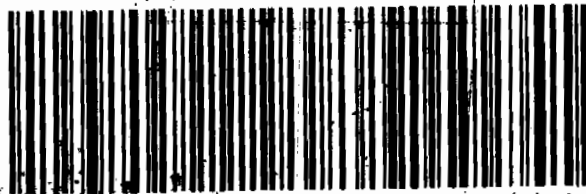


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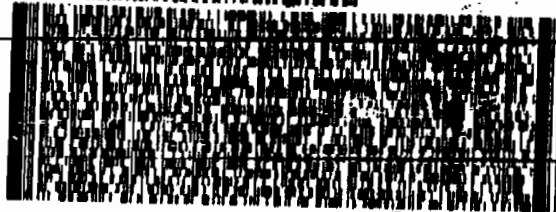
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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
- A The TIC is a suspected aldol-condensation product
- B Target analyte was detected in the associated blank
- B Metals-Either presence of analyte detected in the associated blank, or
MDL/IDL < sample value < PQL
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- d 5-day BOD-The 2:1 depletion requirement was not met for this sample
- E Organics-Concentration of the target analyte exceeds the instrument calibration range
- E Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- H Analytical holding time was exceeded
- h Preparation or preservation holding time was exceeded
- J Value is estimated
- N Metals-The Matrix spike sample recovery is not within specified control limits
- N Organics-Presumptive evidence based on mass spectral library search to make a tentative
identification of the analyte (TIC). Quantitation is based on nearest internal standard
response factor
- N/A Spike recovery limits do not apply. Sample concentration exceeds spike concentration
by 4X or more
- ND Analyte concentration is not detected above the reporting limit
- UI Gamma Spectroscopy-Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2025**

Method/Analysis Information

Procedure: **Definitive Low Level Perchlorate Analysis Utilizing Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) by EPA Method 6850 Modified (6850M)**

Analytical Method: SW846 6850 Modified

Prep Method: SW846 6850 Modified

Analytical Batch Number: 959044

Prep Batch Number: 959043

Sample Analysis

Sample ID	Client ID
247997001	RE36-10-8492
1202056714	Interference Check Sample (ICS)
1202056710	Method Blank (MB)
1202056711	Laboratory Control Sample (LCS)
1202056712	247908001(RE15-10-8089) Matrix Spike (MS)
1202056713	247908001(RE15-10-8089) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-067 REV# 6.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this SDG. Due to software constraints, all Initial Calibration Blanks must be designated as IPB001.

10-2025-PERLCMS

Page 1 of 4

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

CCB Requirements

All continuing calibration blanks (CCB) bracketing the analyses associated with this batch were within acceptance criteria.

CCV Requirements

All continuing calibration checks (CCV) requirements were met by all bracketing CCV standards.

Low Level Standard (CRI) Requirements

All low level calibration verification (CRI) requirements were met by all bracketing CRI standards.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB(s) analyzed with this SDG met the acceptance criteria.

Interference Check Sample (ICS)

The interference check sample (ICS) met all recovery acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 247908001 (RE15-10-8089) from SDG 10-2013-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Retention Time Standard Area Acceptance

The retention time standard areas were within the required acceptance criteria for all samples and QC.

Retention Time

During the analysis of Perchlorate by LC/MS/MS, retention time shifts are commonly observed. These retention time shifts, which are caused by fouling of the column by the sample matrices, are problematic when the retention time is used as one of the criterion for confirmation. To overcome this problem, a known amount of O(18) labeled Perchlorate was added to each sample as a retention time standard. The presence of Perchlorate was confirmed by the relative retention time (RRT) of the Perchlorate peak and the O(18) standard. A RRT window of 0.98 to 1.02, as required by Method 332.0, has been used. In addition to the isotopic ratio, the presence of Perchlorate in the samples associated with this data package have been confirmed using the relative retention criteria stated above, not the absolute retention time.

10-2025-PERLCMS

Page 2 of 4

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG except for dilutions.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations.

Method Comments

The sample in this SDG was not originally analyzed using EPA Method 314.0.

Additional Comments

The Perchlorate Isotope Ratio on the Form I may differ slightly from the ratio on the corresponding raw data due to rounding rules and/or significant figures or due to software limitations when there are manual integrations, dilutions or other factors. The ratio value of the Form I is the correct value.

The retention time marker, Perchlorate-O (18), is added to all samples, instrument blanks, and standards prior to injection. It is used to verify the retention time of Perchlorate and Perchlorate-101 and to insure an accurate injection occurred. Due to various anions affecting the recovery of Perchlorate-O (18) and not Perchlorate and Perchlorate-101, the calibration curves of Perchlorate and Perchlorate-101 are not internally corrected for using Perchlorate-O (18). They are external calibrations.

Perchlorate Isotope Ratio

The Perchlorate isotope ratio met acceptance criteria for all samples and QC samples. Please see the isotope ratio criteria in the Miscellaneous Section.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for perchlorate analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis. The laboratory may also utilize an Agilent 1100 liquid chromatography instrument for perchlorate analysis. It is coupled with an Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as LCMSMS #3 or LCMSMS #4. It is also fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis.

Chromatographic Columns

Chromatographic separation of perchlorate is accomplished through analysis on the following anion column:

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Hebert K. Mace Date: 03/16/10

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE36-10-8492

Lab Code: GEL Date Received: 25-FEB-10

Instrument: LCMSMS GEL Job No (SDG): 10-2025

Method: SW846 6850 Modified GEL Sample ID: 247997001

Matrix: WATER Date Filtered: 03-MAR-10

Extraction Batch ID: 259043 Injection Volume (uL): 20

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL %Solids:

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate Isotope Ratio						1	09-MAR-10 05:13	per0308090a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate-O(18)			0.429	ug/L		1	09-MAR-10 05:13	per0308090a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration = Instrument Value X Concentrated Extract Volume X $\frac{1}{\% \text{Solids}}$ Aliquot

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2025

Extract Batch Code: 959043

Date Filtered: 03-MAR-10

Matrix: WATER

Sample ID: 1202056711

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.179	ug/L	89.7		85 - 115
Perchlorate Isotope Ratio		3.2				-
Perchlorate-101	0.200	.184	ug/L	92.2		85 - 115
Perchlorate-O(18)		.419	ug/L			-

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2025

Extract Batch Code: 959043

Date Filtered: 03-MAR-10

Matrix: WATER

Sample ID: 1202056714

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.193	ug/L	96.7		70 - 130
Perchlorate Isotope Ratio		3.11				
Perchlorate-101	0.200	.204	ug/L	102		70 - 130
Perchlorate-O(18)		.46	ug/L			

^ When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308078a

Date: 09-Mar-2010

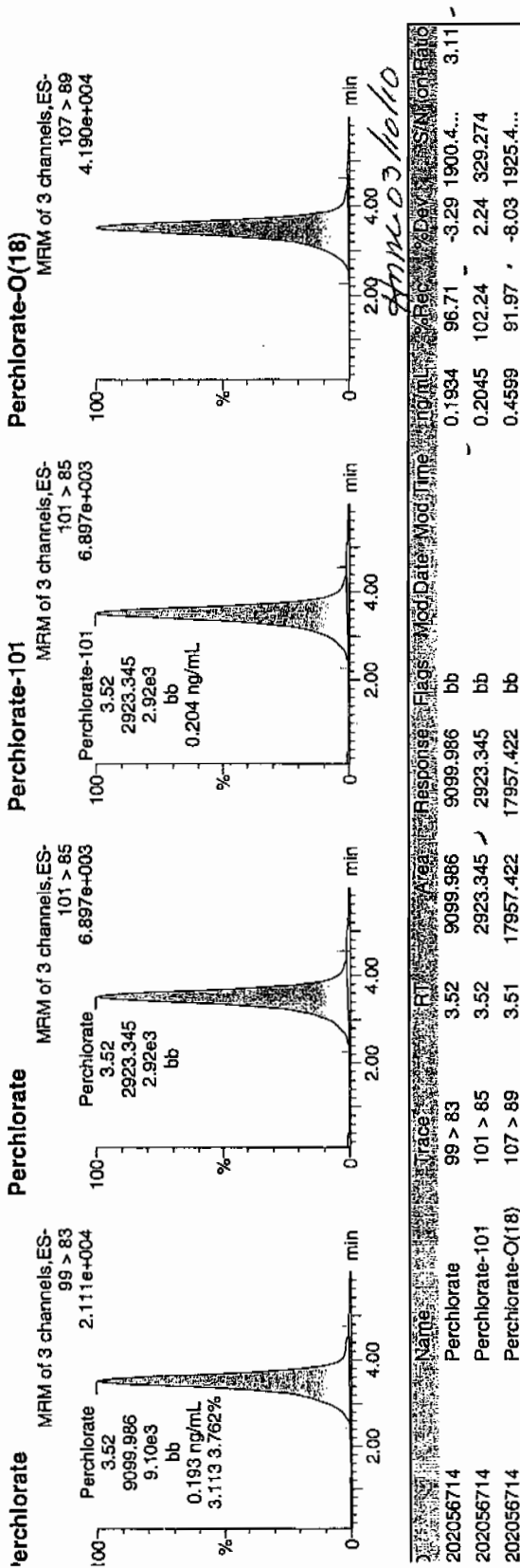
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D: 1202056714

File: 2:4,C

03-09-10

1202056714 | 1202056714



Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2025

Extract Batch Code: 959043

Date Extracted: 03-MAR-10

GEL MS/PS ID: 1202056712

Client ID: RE15-10-8089

GEL MSD/PSD ID: 1202056713

QC Type: MS

Compound^	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	0.200	0.00111	ug/L	0.182	90.7		.19	94.7		4.26		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.13			3.16			0			-
Perchlorate-101	0.200	0.00107	ug/L	0.192	95.5		.199	98.7		3.33		30	75 - 125
Perchlorate-O(18)	0	0.438	ug/L	0.438			.447			2.15			-

^ When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Comments:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-2025

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	08-MAR-10	per0308001a	IPB001
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308001a	IPB001
Perchlorate	0.00	0	NA	08-MAR-10	per0308002a	IPB001
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308002a	IPB001

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

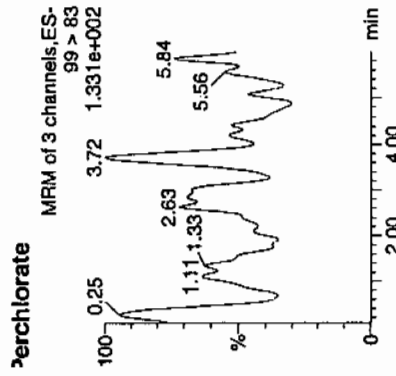
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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030810a.mdb 09 Mar 2010 12:48:33
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030810a.cdb 09 Mar 2010 12:48:47

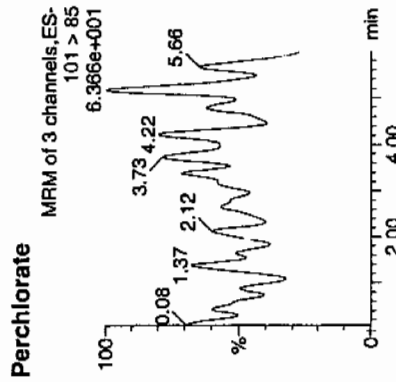
Name: per0308001a
Date: 08-Mar-2010
Time: 15:44:43
D: IPB001
/lat: 1:1,A

03-09-10

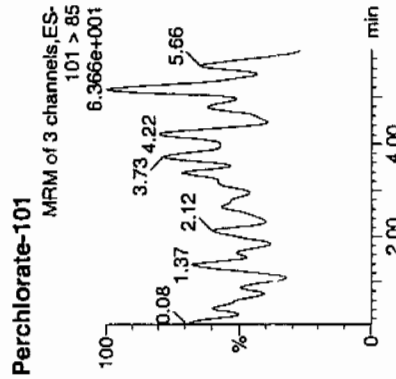
Perchlorate



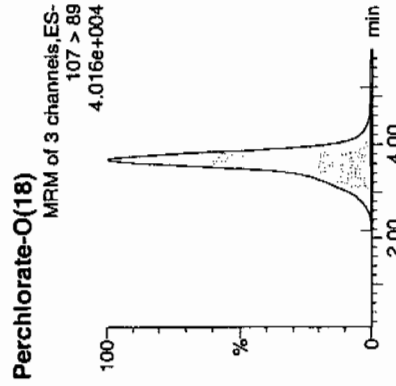
Perchlorate



Perchlorate-101



Perchlorate-O(18)



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB001	Perchlorate	99 > 83											0.00
PB001	Perchlorate-101	101 > 85											
PB001	Perchlorate-O(18)	107 > 89	3.68	20012.854	20012.854	bb			0.5125	102.50	2.50	855.555	

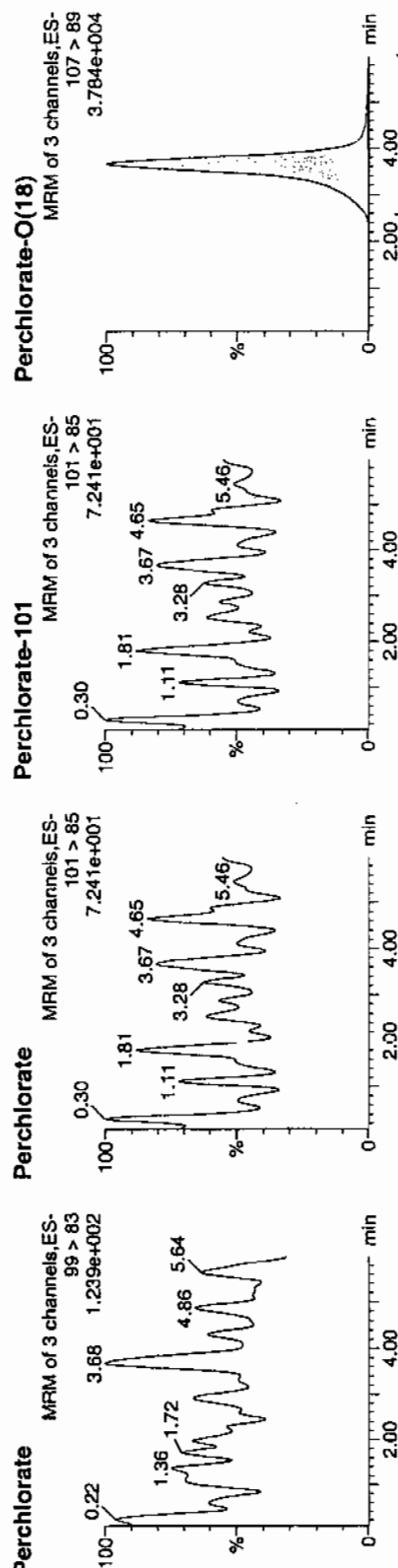
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308002a
Date: 08-Mar-2010
Time: 15:53:45
D: IPB001
Vial: 1:1,A

03-04-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB001	Perchlorate	99 > 83											0.00
PB001	Perchlorate-101	101 > 85											
PB001	Perchlorate-O(18)	107 > 89	3.66	18783.678	18783.678	bb			0.4810	96.21	-3.79	1331.0...	

Perchlorate Continuing Calibration Blank

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GEL Job No.(SDG): 10-2025

Lab Name: General Engineering LaboratoriesLab Code: GELReporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	08-MAR-10	per0308008a	IPB002
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308008a	IPB002
Perchlorate	0.00	0	NA	08-MAR-10	per0308010a	IPB003
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308010a	IPB003
Perchlorate	0.00	0	NA	08-MAR-10	per0308022a	IPB004
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308022a	IPB004
Perchlorate	0.00	0	NA	08-MAR-10	per0308035a	IPB005
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308035a	IPB005
Perchlorate	0.00	0	NA	08-MAR-10	per0308048a	IPB006
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308048a	IPB006
Perchlorate	0.00	0	NA	08-MAR-10	per0308052a	IPB007
Perchlorate-101	0.00	0	NA	08-MAR-10	per0308052a	IPB007
Perchlorate	0.00	0	NA	09-MAR-10	per0308061a	IPB008

P perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308061a	IPB008
Perchlorate	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308074a	IPB009
Perchlorate	0.00	0	NA	09-MAR-10	per0308087a	IPB010
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308087a	IPB010
Perchlorate	0.00	0	NA	09-MAR-10	per0308100a	IPB011
Perchlorate-101	0.00	0	NA	09-MAR-10	per0308100a	IPB011

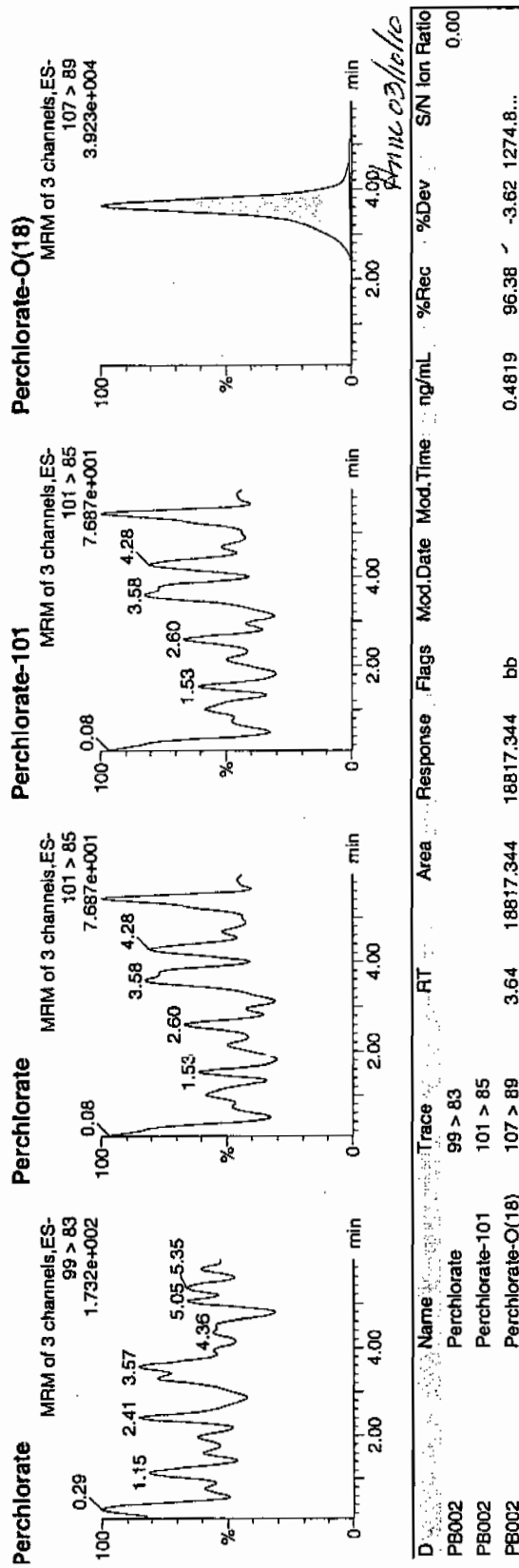
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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Date: 08-Mar-2010
Time: 16:48:15
ID: IPB002
Vial: 1:1,A

03-09-10



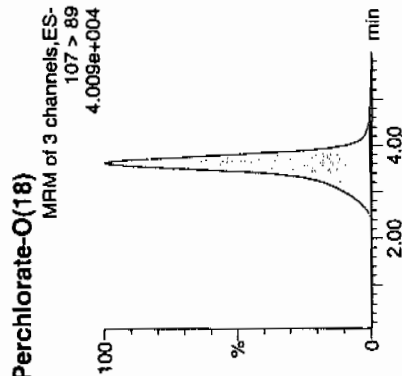
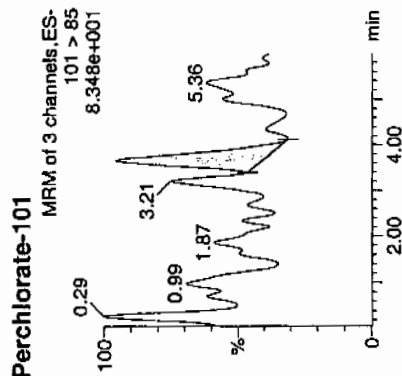
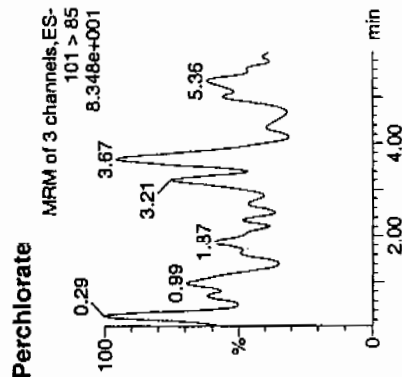
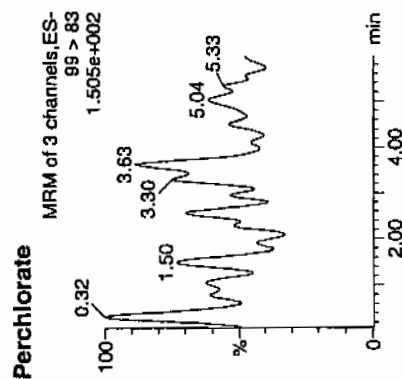
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308010a
Date: 08-Mar-2010
Time: 17:06:27
ID: IPB003
Vial: 1:1,A

03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	3.67	15.122	15.122	bb			0.0011	98.70	-1.30	2273.8...	0.00
IPB003	Perchlorate-101	101 > 85	3.63	19271.525	19271.525	bb			0.4935				7.773
IPB003	Perchlorate-O(18)	107 > 89	3.63	19271.525	19271.525	bb			0.4935				7.773

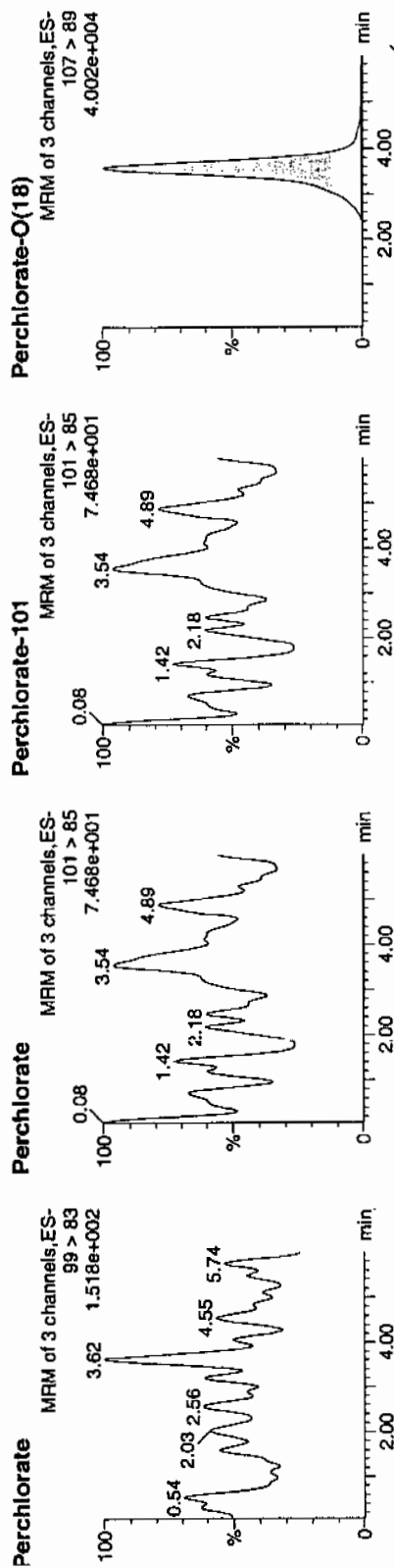
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308022a
Date: 08-Mar-2010
Time: 18:55:24
ID: IPB004
Vial: 1:1,A

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85	3.58	19034.945	19034.945	bb			0.4875	97.49	-2.51	1930.8...	
IPB004	Perchlorate-O(18)	107 > 89											

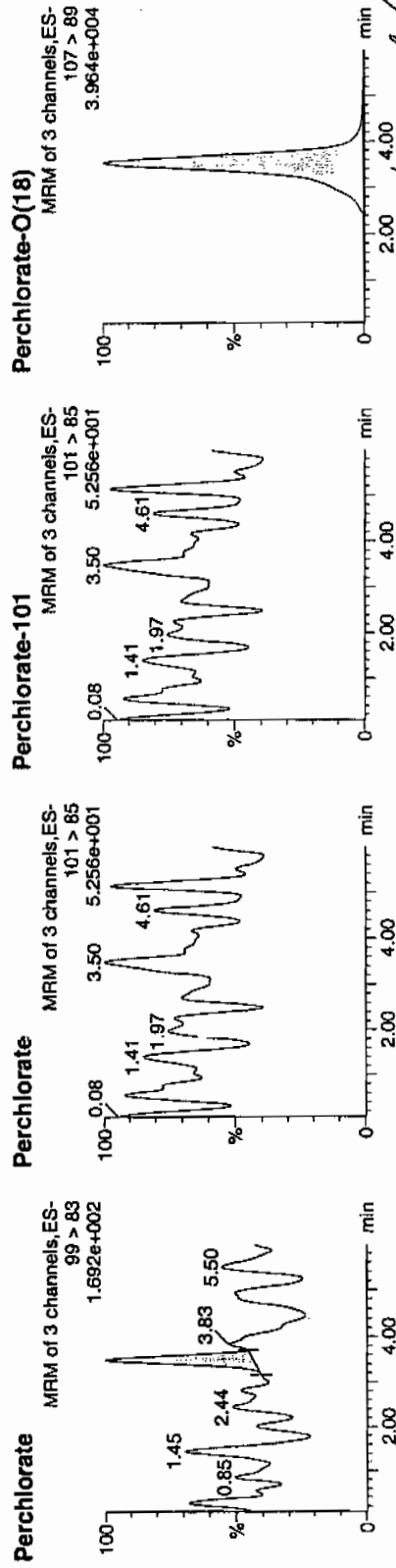
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308035a
Date: 08-Mar-2010
Time: 20:53:11
ID: IPB005
Vial: 1:1,A

0309-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	3.50	20.240	20.240	bb			0.0004			12.166	0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-Q(18)	107 > 89	3.53	18853.305	18853.305	bb			0.4828	96.56	-3.44	2233.7...	

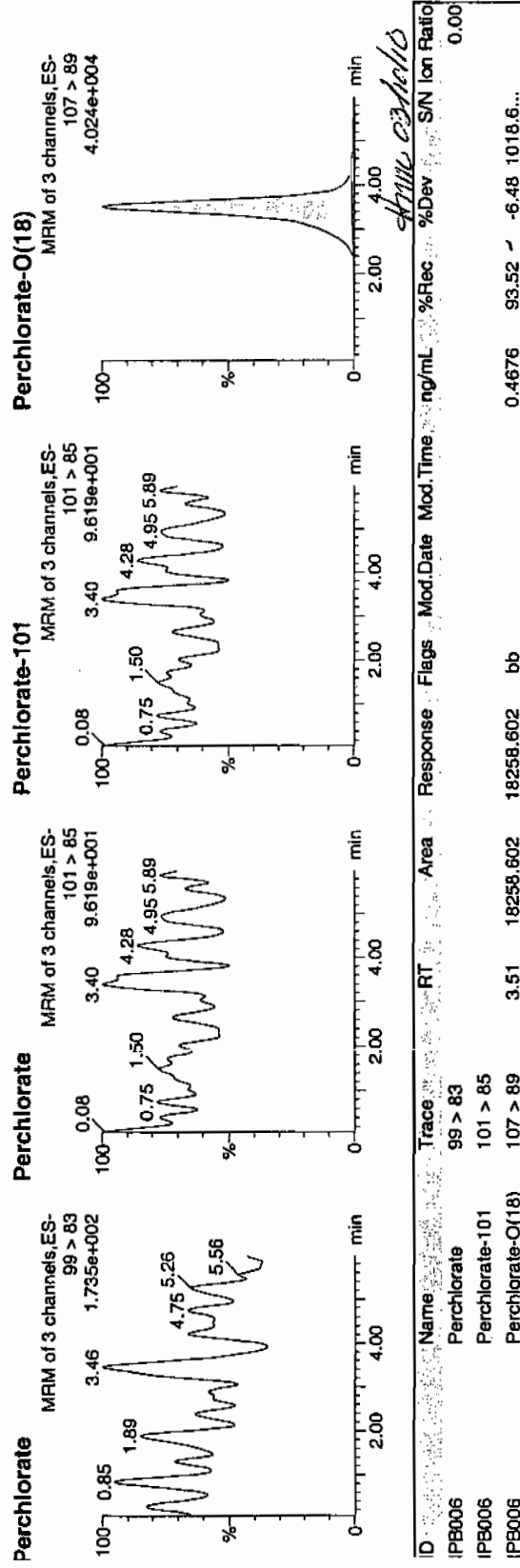
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308048a
Date: 08-Mar-2010
Time: 22:51:21
ID: IPB006
Vial: 1:1,A

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83											
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	3.51	18258.602	18258.602	bb			0.4676	93.52	-6.48	1018.6...	0.00

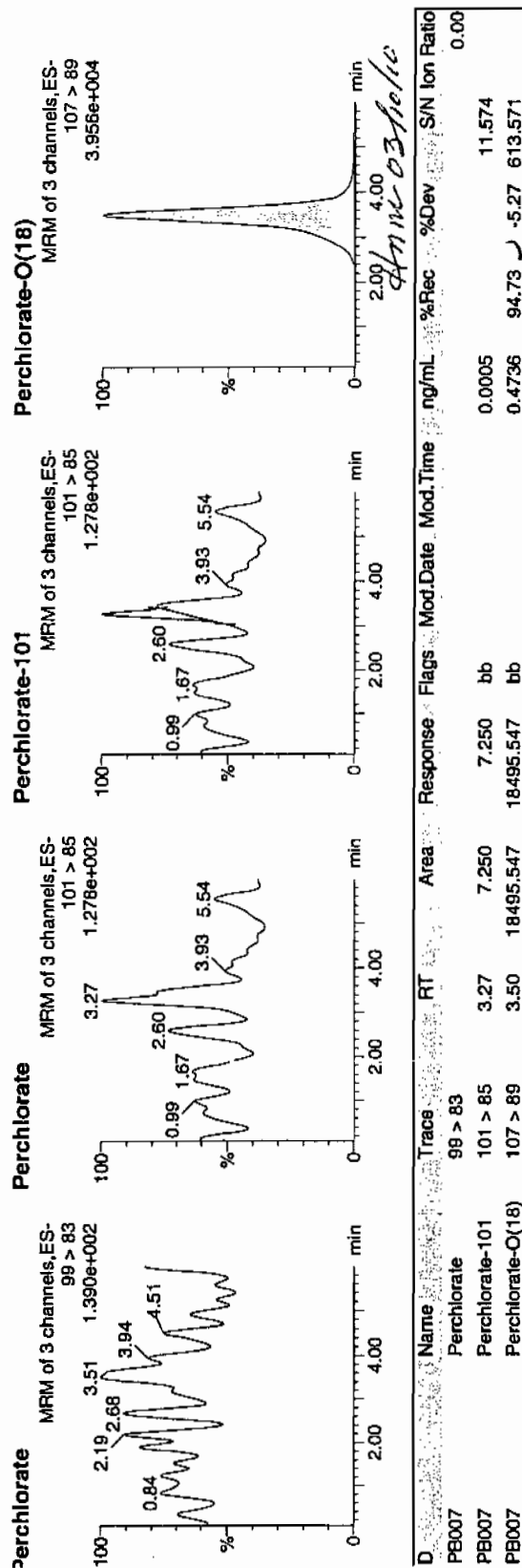
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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Date: 08-Mar-2010
Time: 23:27:41
D: IPB007
Vial: 1:1,A

03-04-10



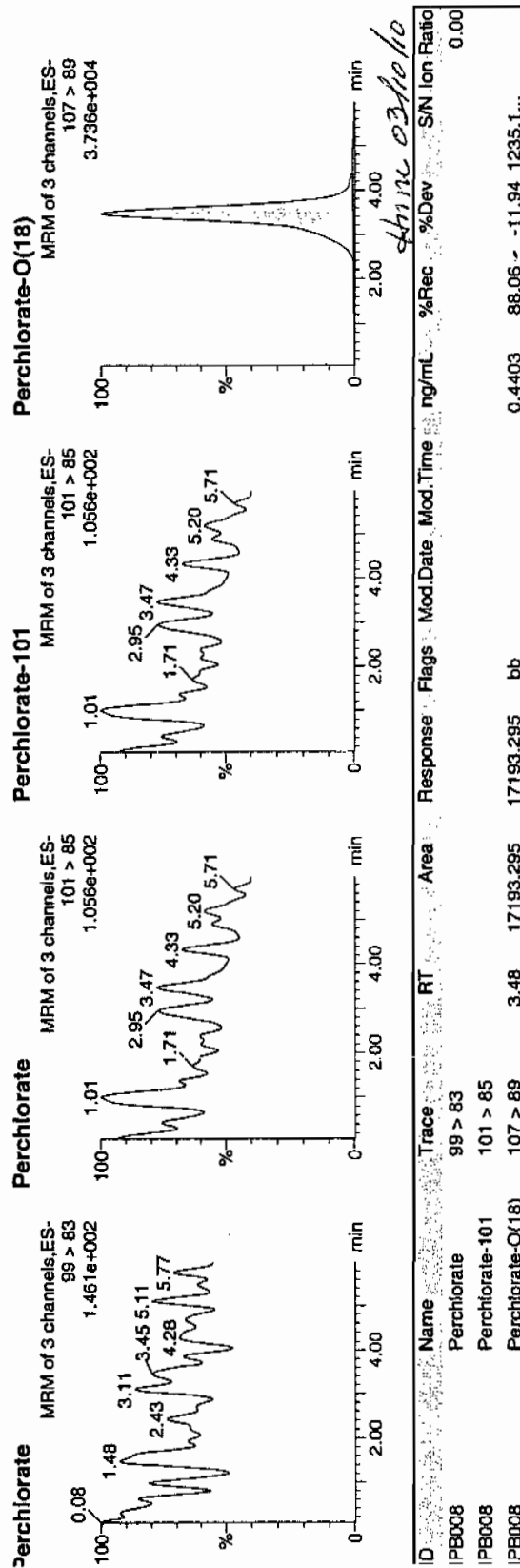
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308061a
Date: 09-Mar-2010
Time: 00:50:02
D: IPB008
Vial: 1:1,A

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB008	Perchlorate	99 > 83											
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	3.48	17193.295	17193.295	bb			0.4403	88.06	-11.94	1235.1	0.00

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308074a

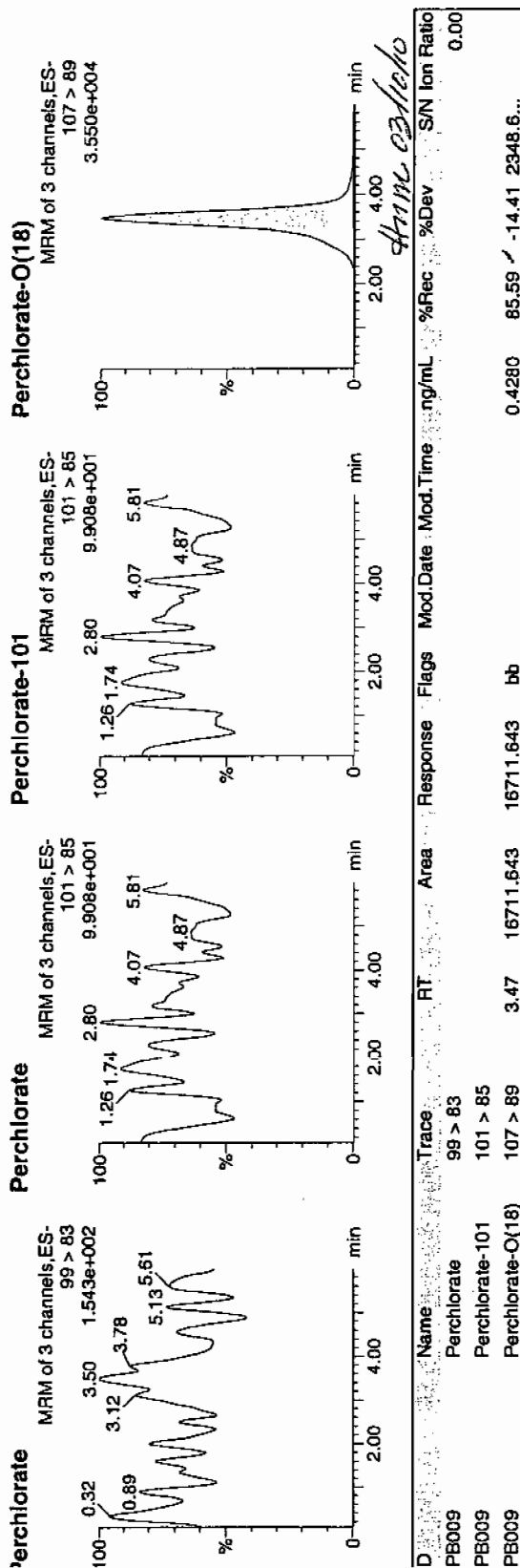
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Time: 02:48:02

D: IPB009

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03-04-10



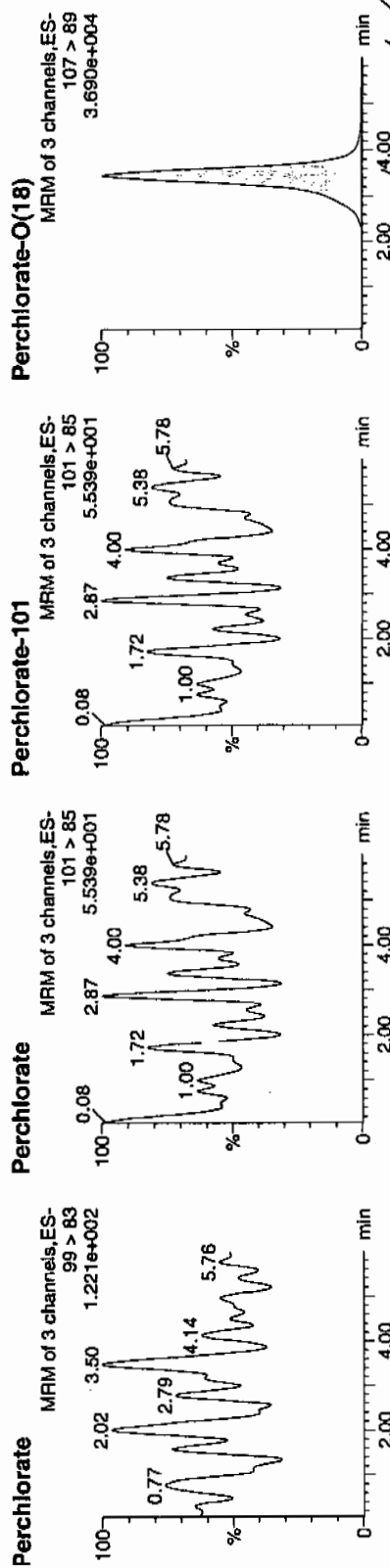
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

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Date: 09-Mar-2010
Time: 04:46:06
ID: IPB010
Vial: 1:1,A

030410



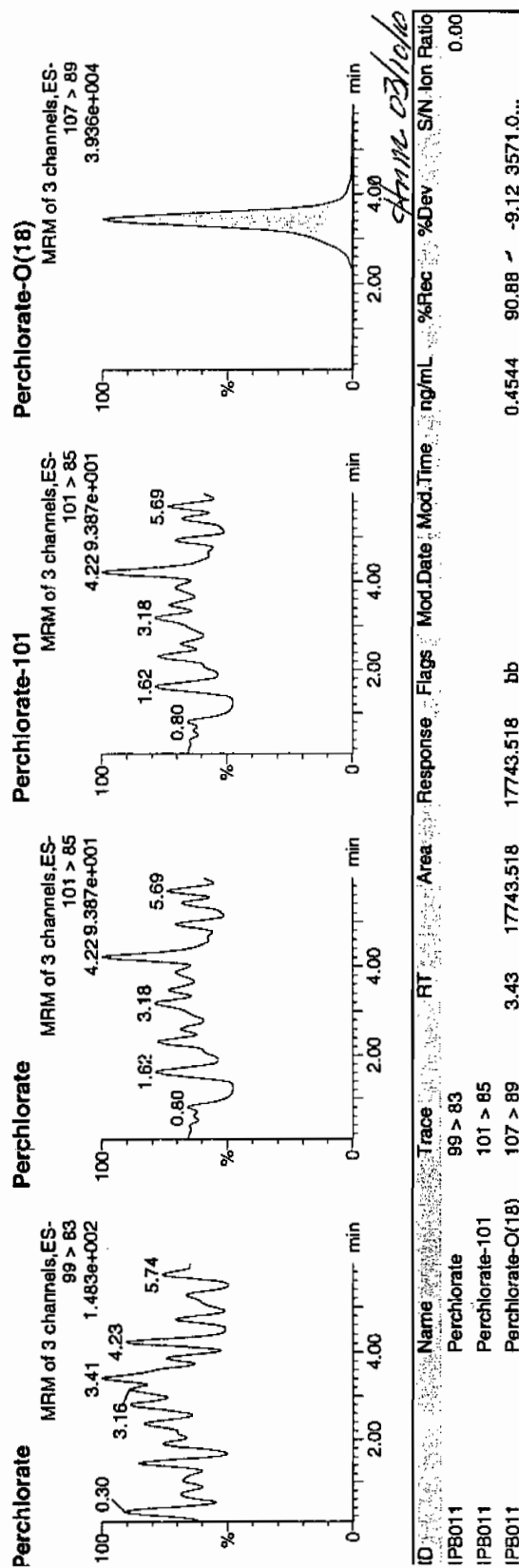
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IPB010	Perchlorate-101	101 > 85	3.46	16789.424	16789.424	bb			0.4300	85.99	-14.01	1743.0...	
IPB010	Perchlorate-O(18)	107 > 89											

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308100a
Date: 09-Mar-2010
Time: 06:44:12
ID: IPB011
Vial: 1:1.A

335



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
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; 3920.2400	100

QUATRO ULTIMA: nairb_01_08_08.ca

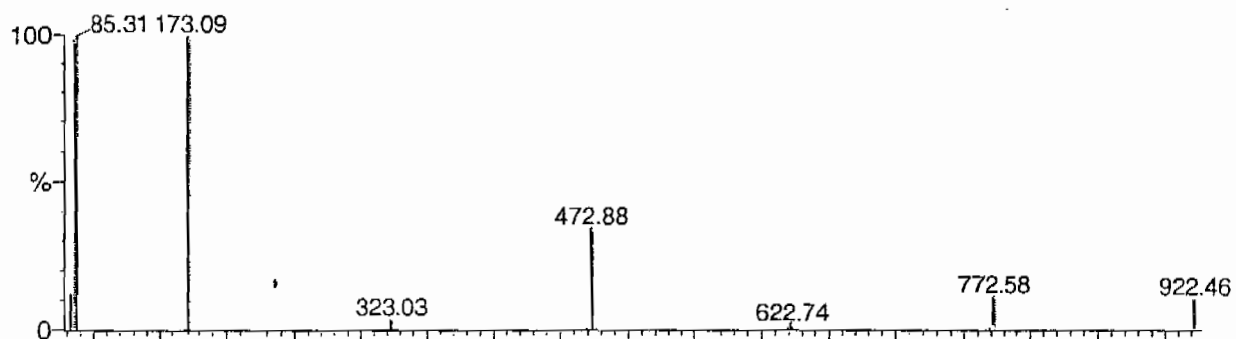
Calibration Report - MS1 Static

Page 1 of 1

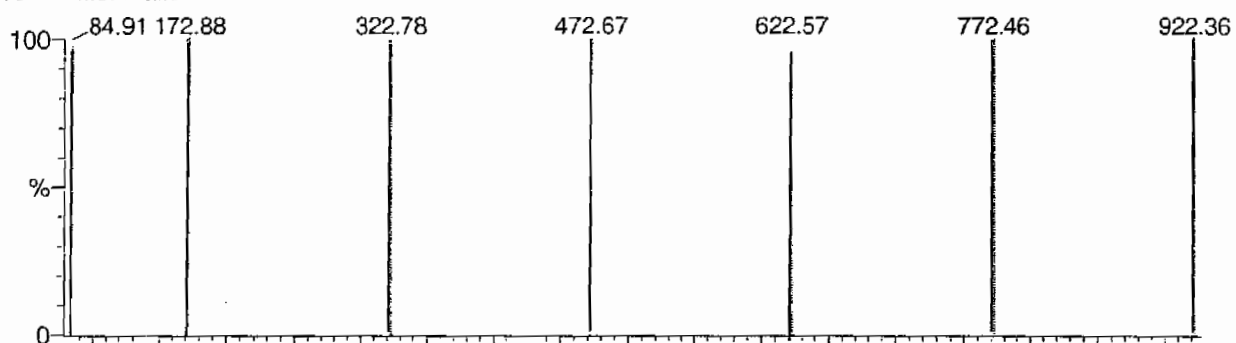
Printed: Tue Jan 08 12:19:12 2008

POINTS HIGHLIGHTED BY CURV 01-01-08

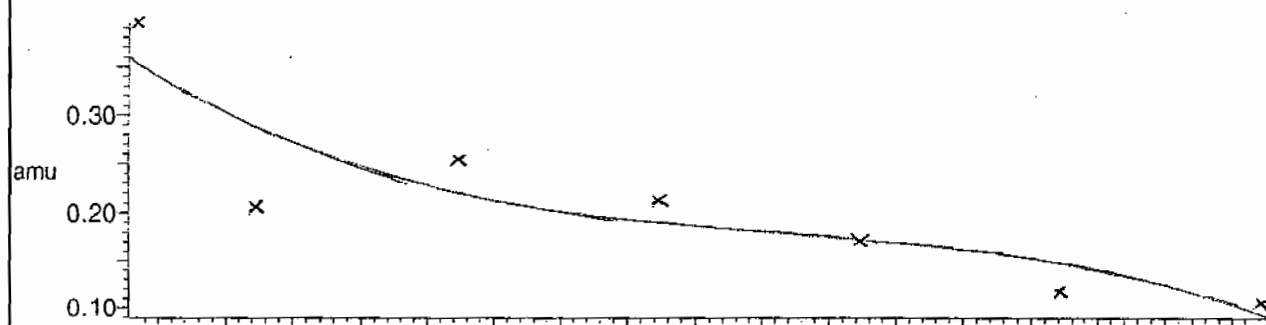
Data file: STATMS1 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

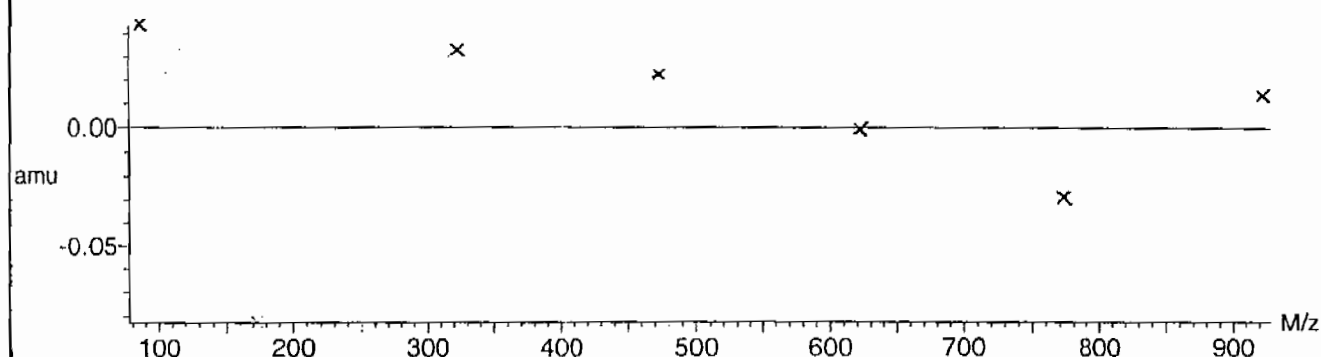


Mass difference (Raw - Ref mass)



Residuals

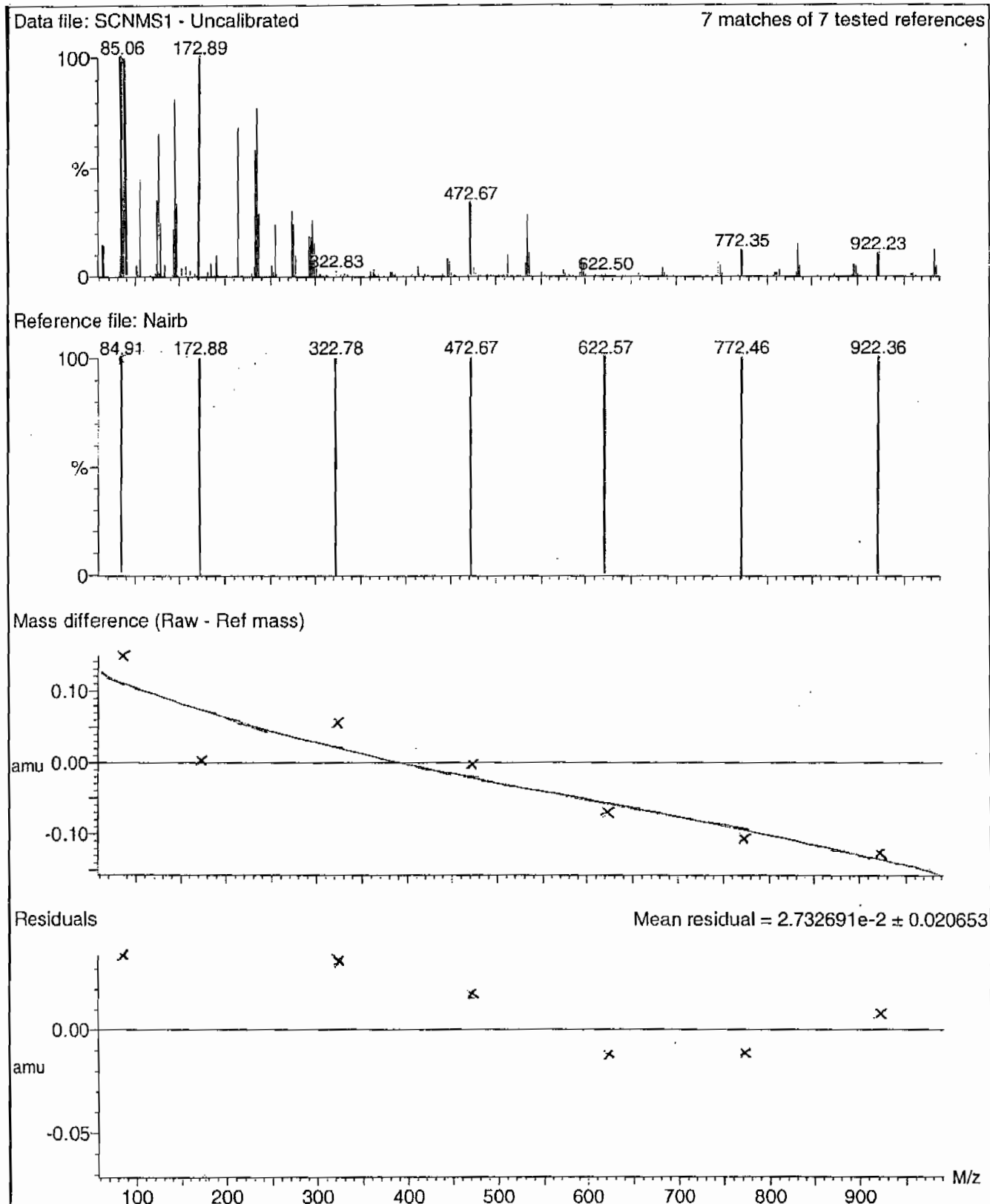
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



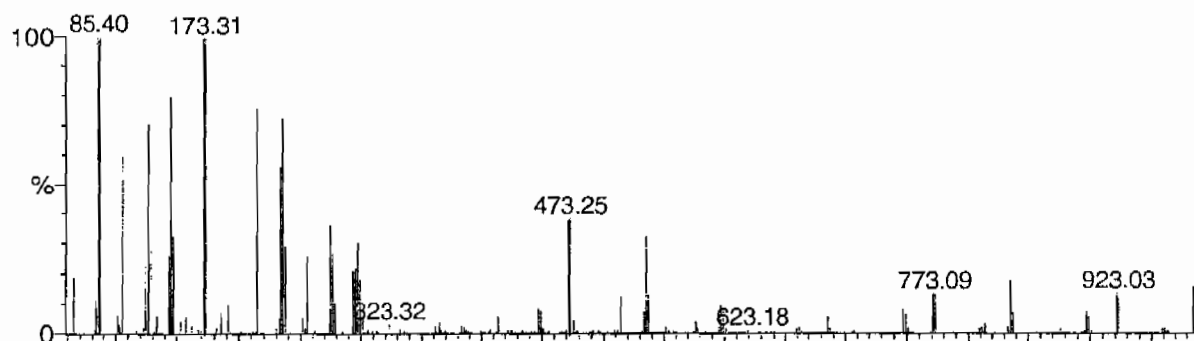
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

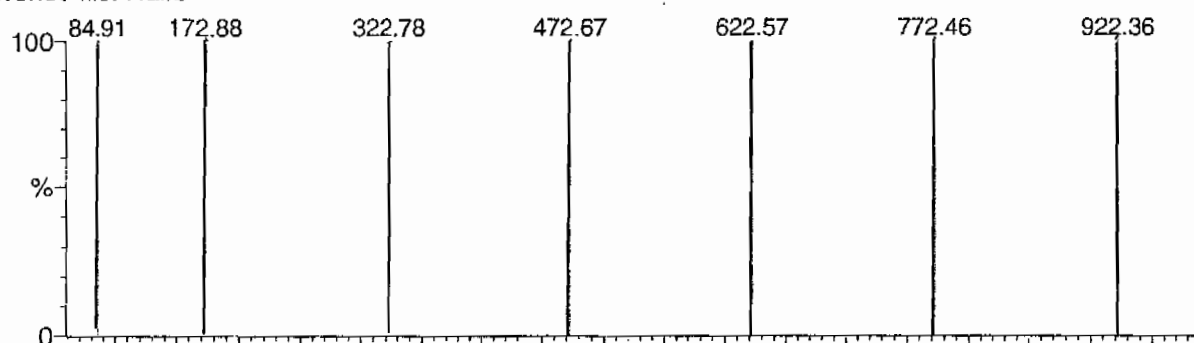
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

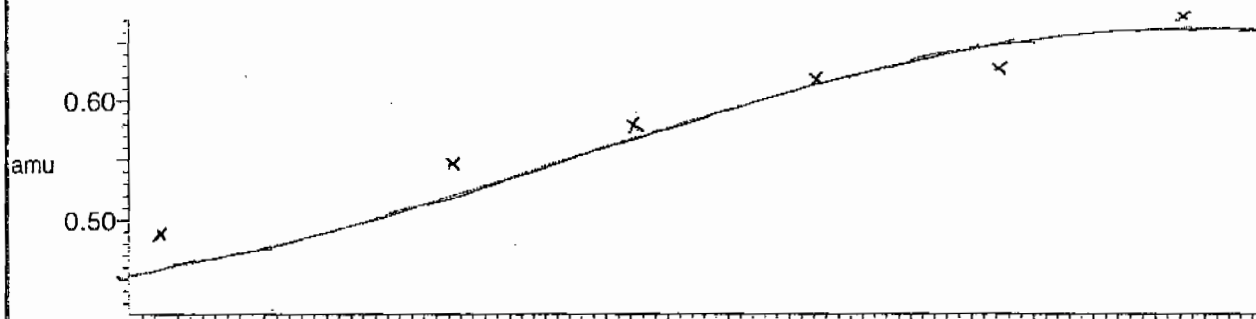
7 matches of 7 tested references



Reference file: Nairb

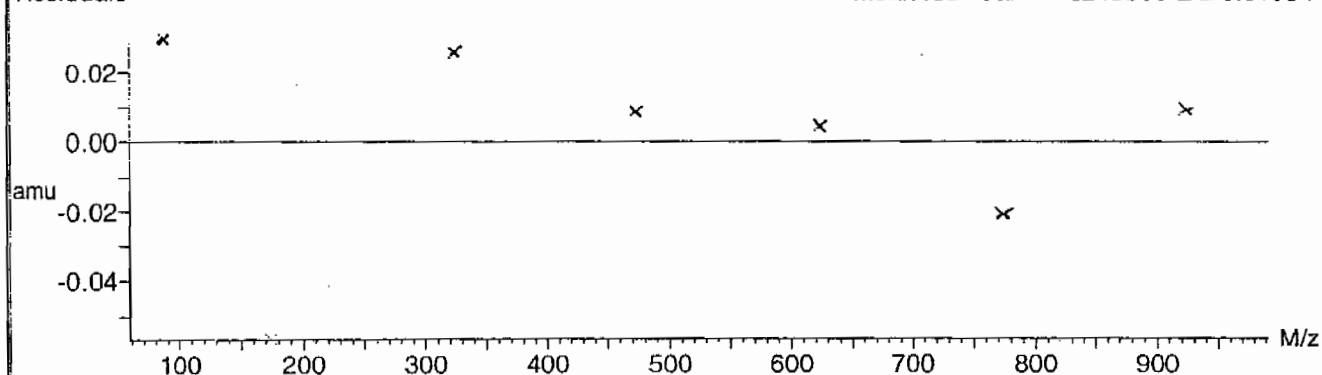


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.224580 \times 10^{-2} \pm 0.016544$



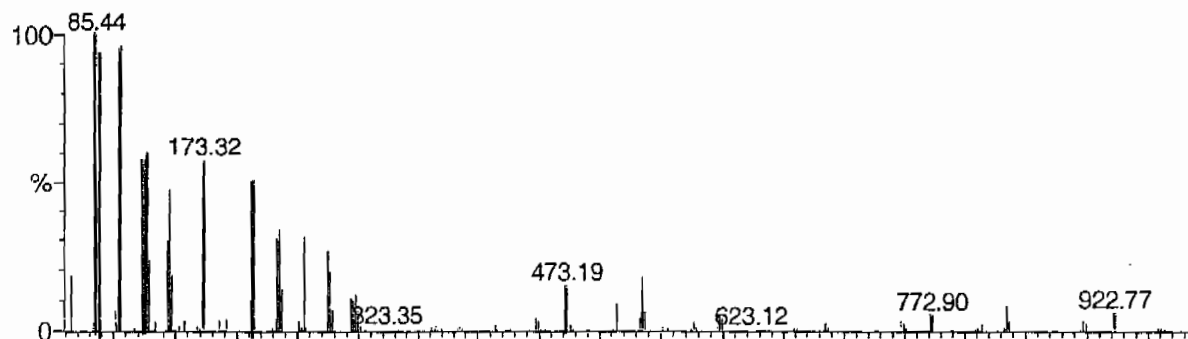
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

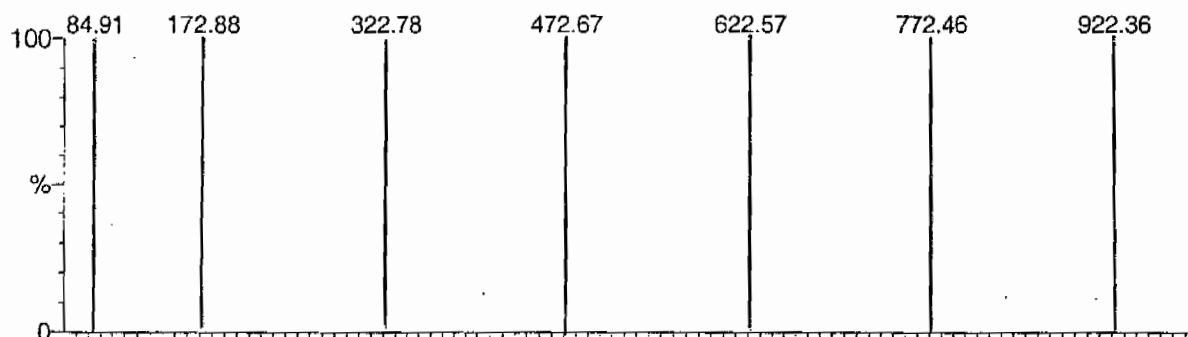
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

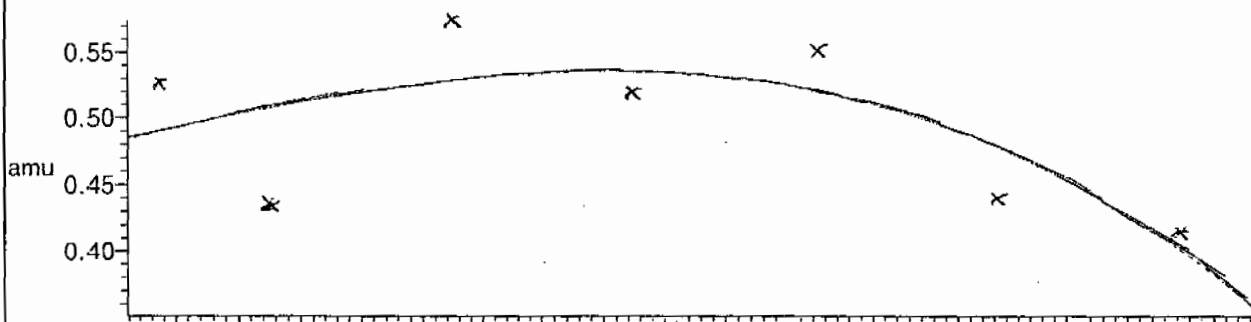
7 matches of 7 tested references



Reference file: Nairb

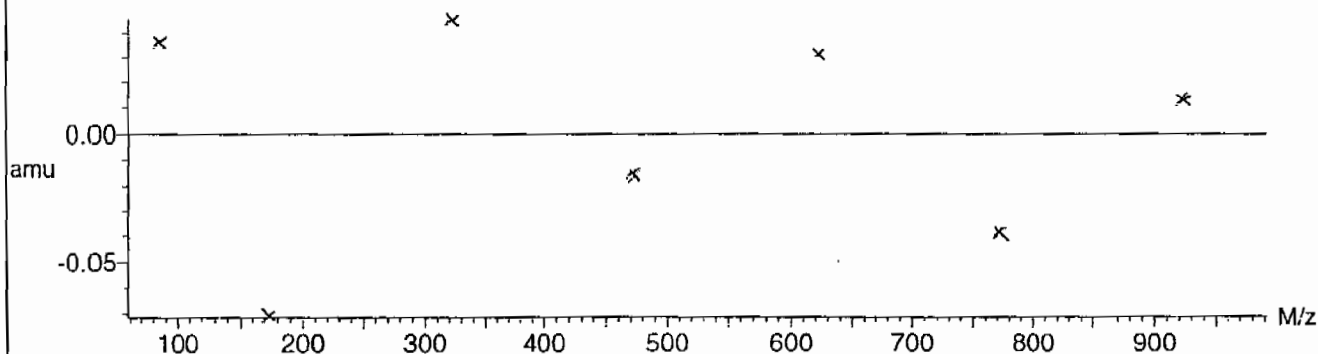


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



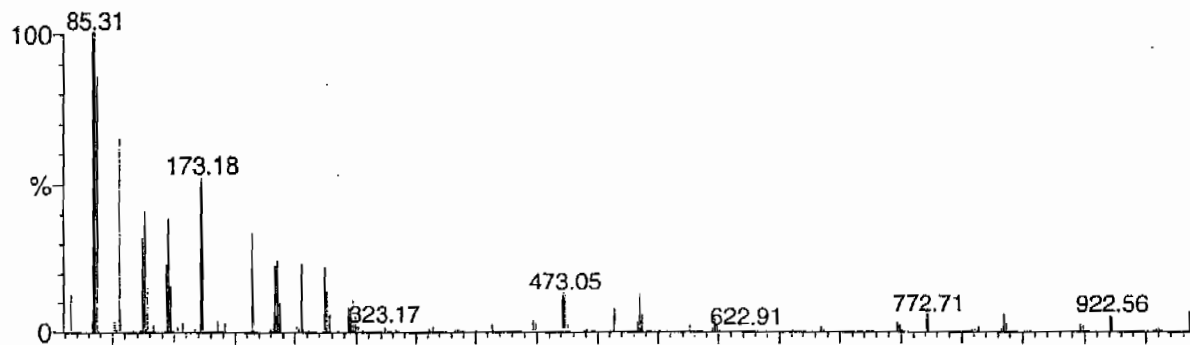
Calibration Report - MS2 Scanning

Page 1 of 1

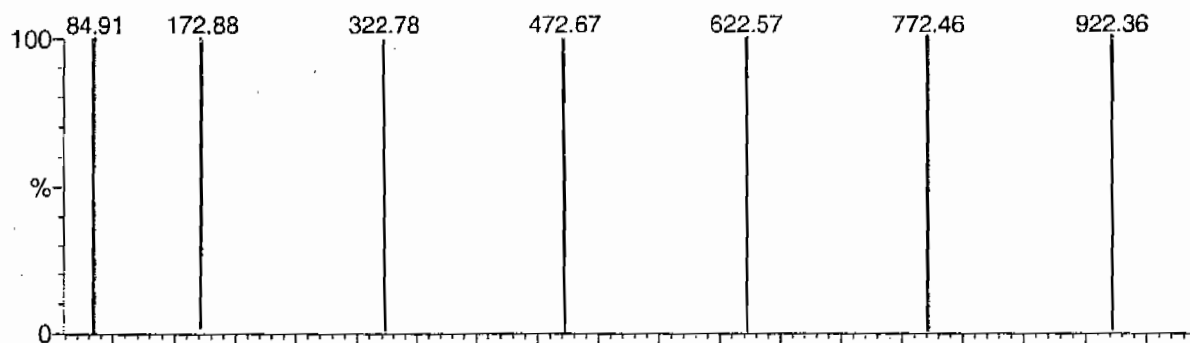
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

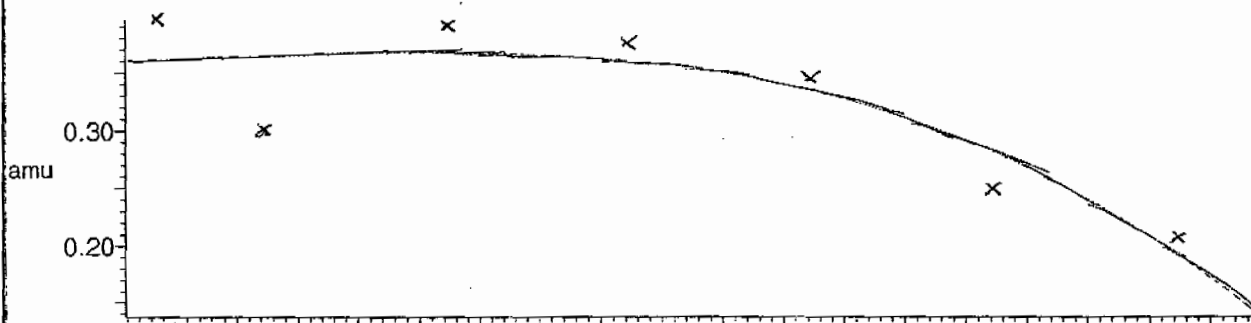
7 matches of 7 tested references



Reference file: Nairb

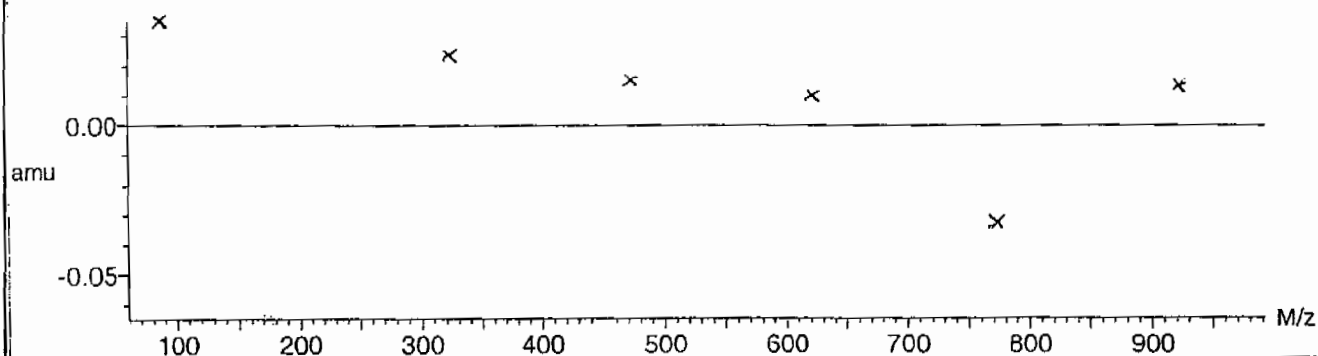


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $2.782494 \times 10^{-2} \pm 0.017442$

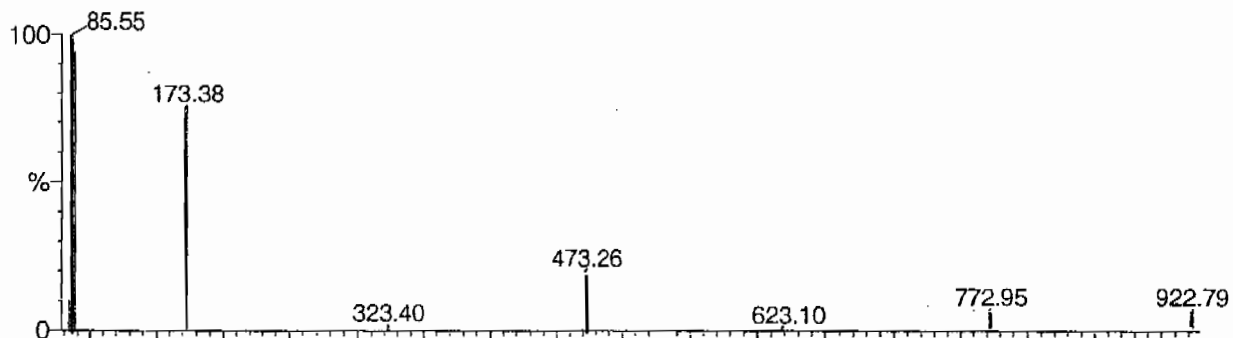


Calibration Report - MS2 Static

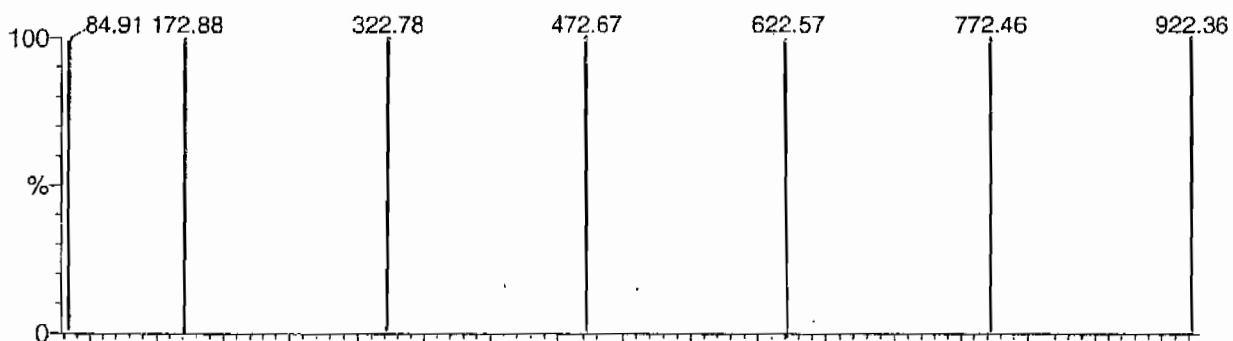
Page 1 of 1

Printed: Tue Jan 08 12:21:59 2008

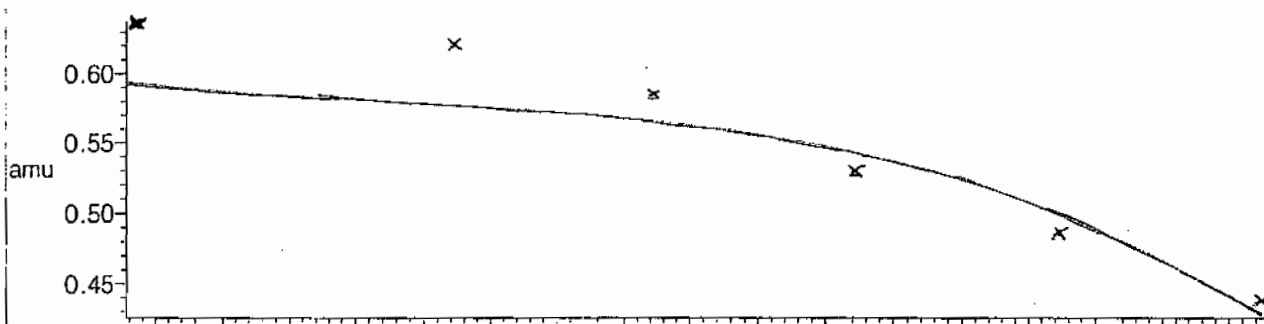
Data file: STATMS2 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

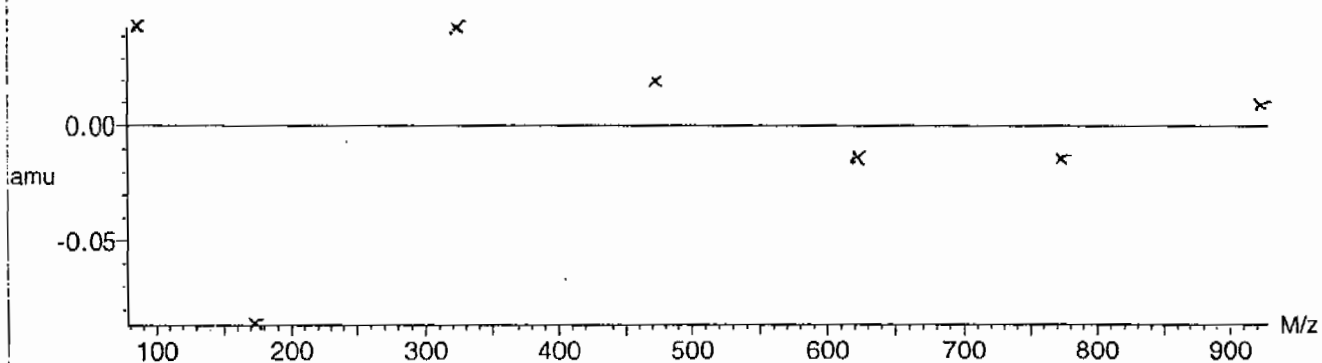


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.295980 \times 10^{-2} \pm 0.025603$



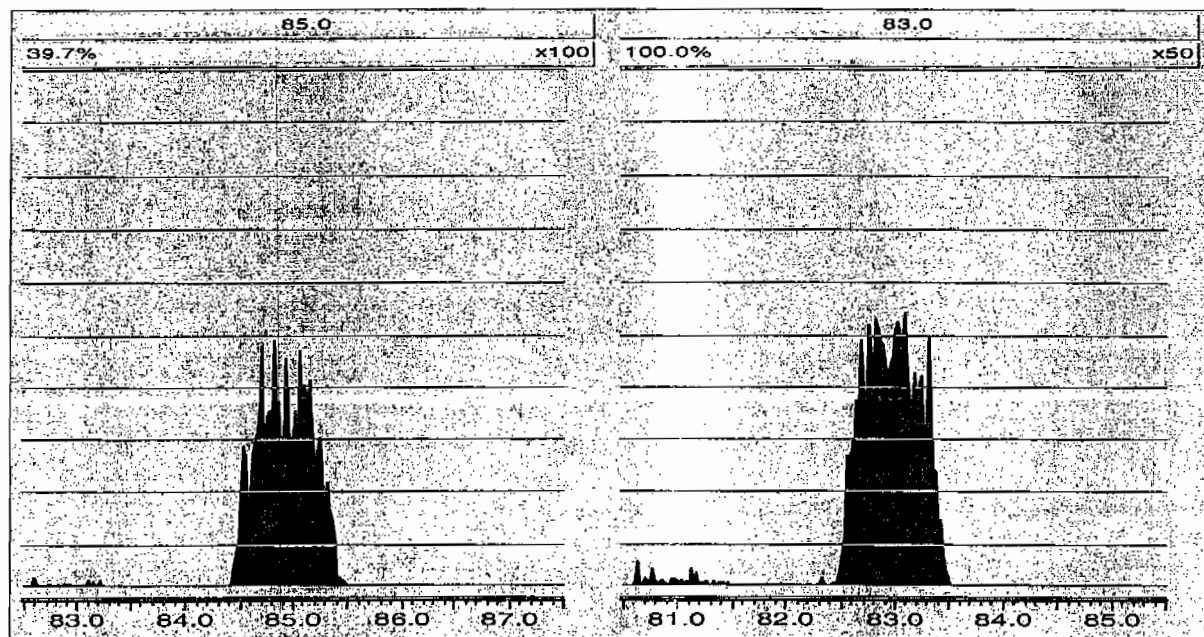
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

File: C:\MassLynx\Perchlorate.PRO\ACQUDB\Perchlorate.IPR

Printed: Monday, March 08, 2010 10:18:13 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2025

Lab Code: GEL

Instrument ID: LCMSMS

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0308006a	08-MAR-10	19792.7				
Lower Area Limit			9896.35				
Upper Area Limit			39585.4				
1202056710	per0308076a	09-MAR-10 03:06	15825.6	3.47	3.43317	.989	
1202056711	per0308077a	09-MAR-10 03:15	16378.9	3.47	3.4828	1.004	
1202056714	per0308078a	09-MAR-10 03:24	17957.4	3.51	3.52005	1.003	
247997001	per0308090a	09-MAR-10 05:13	16746.2	3.45			

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE36-10-8492

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025

GEL Sample ID: 247997001

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate Isotope Ratio						1	09-MAR-10 05:13	per0308090a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 05:13	per0308090a
	Perchlorate-O(18)			0.429	ug/L		1	09-MAR-10 05:13	per0308090a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308090a

Date: 09-Mar-2010

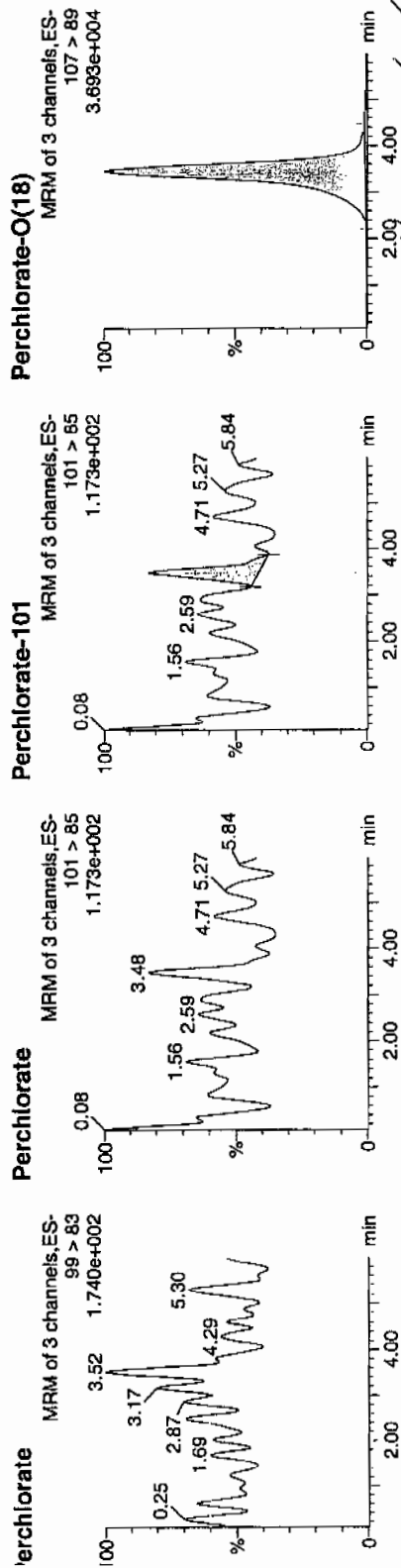
Time: 05:13:24

ID: 247997001

File: 2:5,F

03-04-10

1222 | 951044 | 1222 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
47997001	Perchlorate	99 > 83										0.00
47997001	Perchlorate-101	101 > 85	3.48	13.178	bb			0.0009			15.272	
47997001	Perchlorate-O(18)	107 > 89	3.45	16746.201	bb			0.4289	85.77	-14.23	629.724	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2025

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-MAR-10

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 47047.38

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2025

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 08-MAR-10

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14296.94

Response Type: External Standard

Curve Type: RF

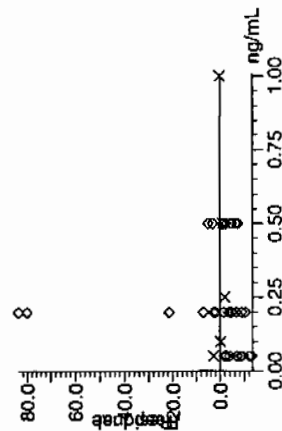
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

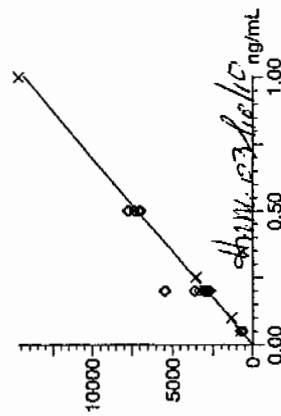
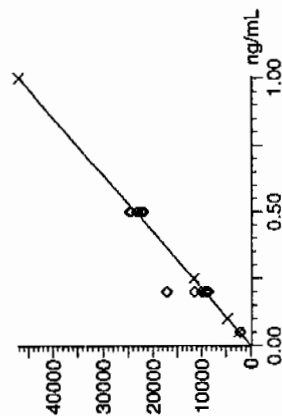
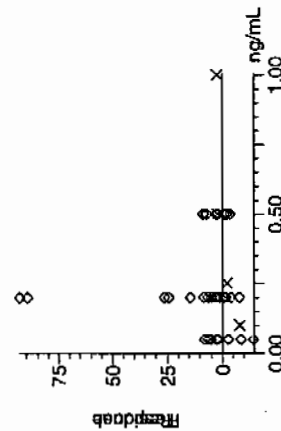
Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030810a.mdb 09 Mar 2010 12:48:33
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030810a.cdb 09 Mar 2010 12:48:47

Compound name: Perchlorate
Response Factor: 47047.4
RRF SD: 838.521, % Relative SD: 1.78229
Response type: External Std, Area
Curve type: RF



Compound name: Perchlorate-101
Response Factor: 14297
RRF SD: 749.315, % Relative SD: 5.24108
Response type: External Std, Area
Curve type: RF

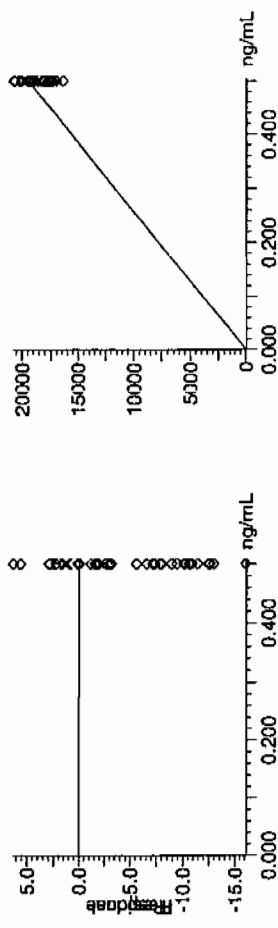


33
03-04-10

33
03-04-10

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld
Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Compound name: Perchlorate-O(18)
Response Factor: 39049
RF SD: 832.552, % Relative SD: 2.13207
Response type: External Std, Area
Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025

Lab Code: GEL

Reporting Units: µg/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.14	08-MAR-10 16:57	per0308009a
Perchlorate Isotope Ratio		3.18		08-MAR-10 16:57	per0308009a
Perchlorate-101	.5	.54	108.66	08-MAR-10 16:57	per0308009a

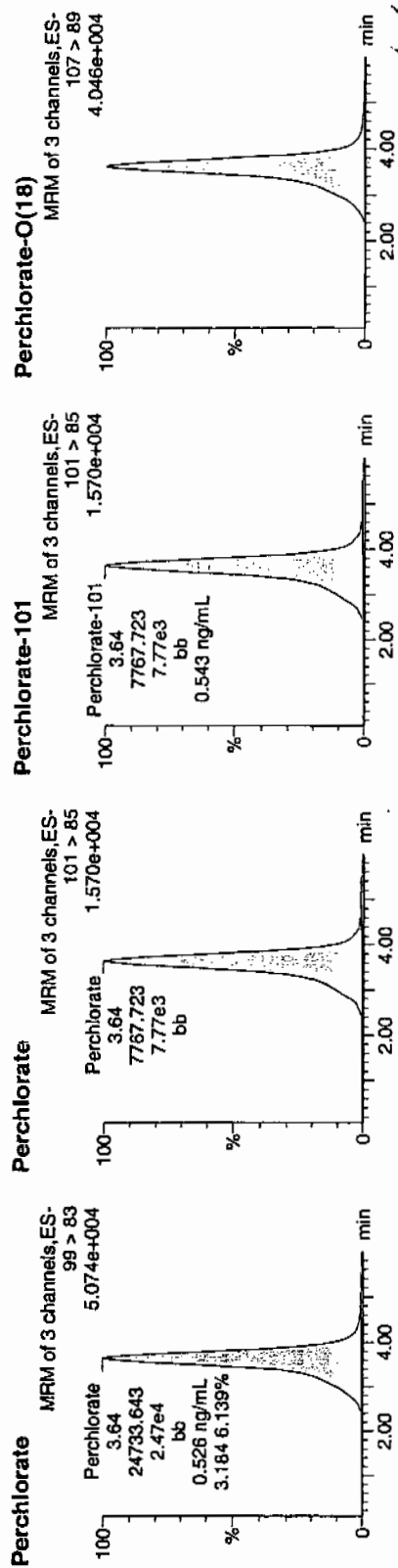
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308009a
Date: 08-Mar-2010
Time: 16:57:17
ID: WCL100227-06ICV
Vial: 1:2,A

Pure
03-04-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.64	24733.643	24733.643	bb			0.5257	105.14	5.14	543.107	3.18
WCL100227-06ICV	Perchlorate-101	101 > 85	3.64	7767.723	7767.723	bb			0.5433	108.66	8.66	159.570	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.63	19967.303	19967.303	bb			0.5113	102.27	2.27	1535.3...	

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2025

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.52	103.28	08-MAR-10 18:46	per0308021a
Perchlorate Isotope Ratio		3.14		08-MAR-10 18:46	per0308021a
Perchlorate-101	.5	.54	108.41	08-MAR-10 18:46	per0308021a
Perchlorate	.5	.53	105.15	08-MAR-10 20:44	per0308034a
Perchlorate Isotope Ratio		3.23		08-MAR-10 20:44	per0308034a
Perchlorate-101	.5	.54	107.08	08-MAR-10 20:44	per0308034a
Perchlorate	.5	.52	103.16	08-MAR-10 22:42	per0308047a
Perchlorate Isotope Ratio		3.13		08-MAR-10 22:42	per0308047a
Perchlorate-101	.5	.54	108.56	08-MAR-10 22:42	per0308047a
Perchlorate	.5	.5	99.29	09-MAR-10 00:40	per0308060a
Perchlorate Isotope Ratio		3.17		09-MAR-10 00:40	per0308060a
Perchlorate-101	.5	.51	102.95	09-MAR-10 00:40	per0308060a
Perchlorate	.5	.48	95.1	09-MAR-10 02:38	per0308073a

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2025

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.07		09-MAR-10 02:38	per0308073a
Perchlorate-101	.5	.51	101.9	09-MAR-10 02:38	per0308073a
Perchlorate	.5	.46	92.67	09-MAR-10 04:36	per0308086a
Perchlorate Isotope Ratio		3.1		09-MAR-10 04:36	per0308086a
Perchlorate-101	.5	.49	98.48	09-MAR-10 04:36	per0308086a
Perchlorate	.5	.47	93.76	09-MAR-10 06:34	per0308099a
Perchlorate Isotope Ratio		3.2		09-MAR-10 06:34	per0308099a
Perchlorate-101	.5	.48	96.42	09-MAR-10 06:34	per0308099a

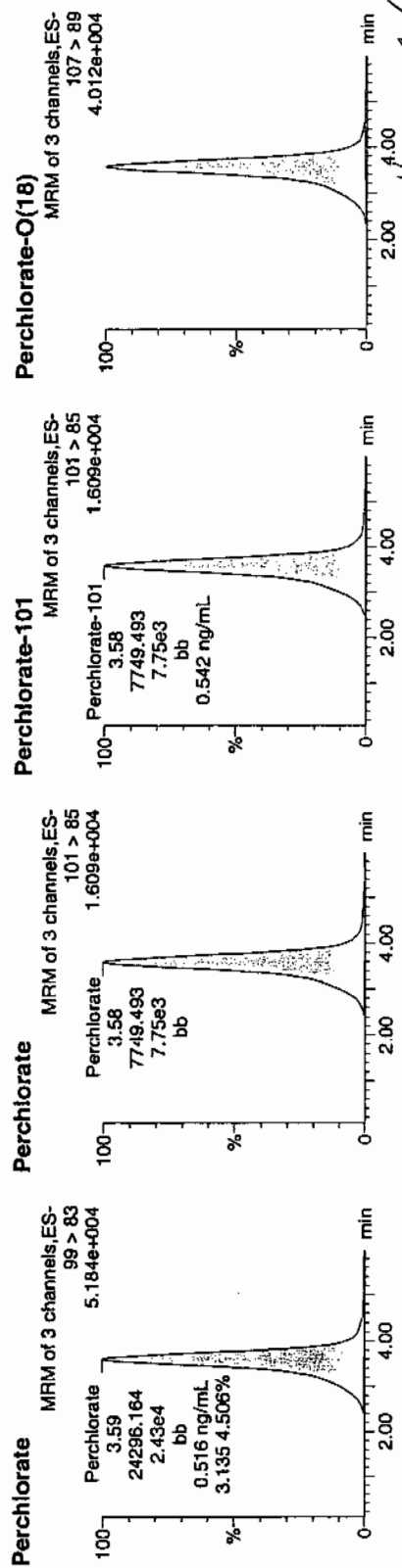
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308021a
Date: 08-Mar-2010
Time: 18:46:13
ID: WCL100227-06CCV
Vial: 1:2,A

Per
WCL 0309-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.59	24296.164	24296.164	bb			0.5164	103.28	3.28	2058.4...	3.14
WCL100227-06CCV	Perchlorate-101	101 > 85	3.58	7749.493	7749.493	bb			0.5420	108.41	8.41	842.163	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.57	18892.500	18892.500	bb			0.4838	96.76	-3.24	3961.4...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308034a

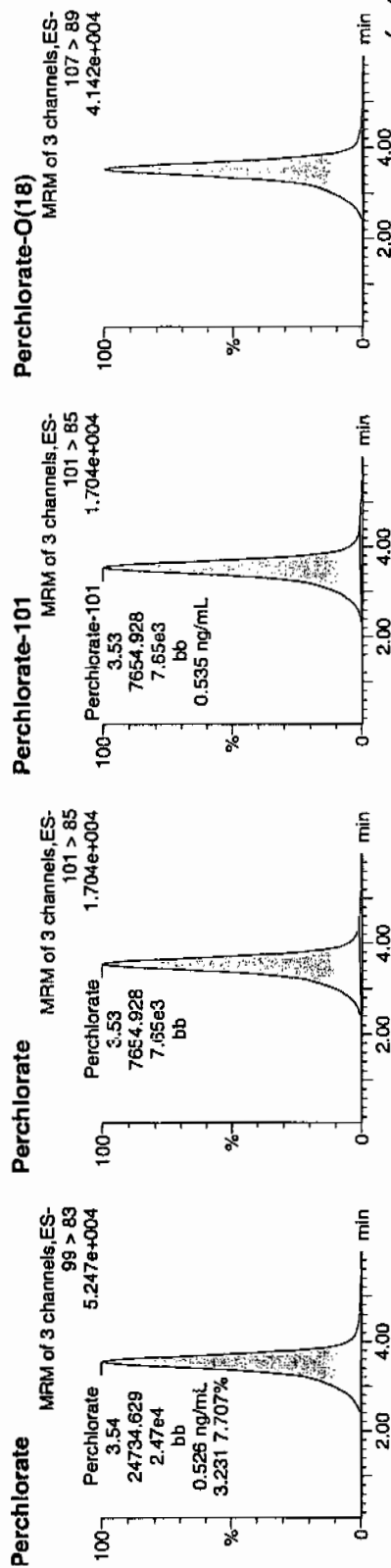
Date: 08-Mar-2010

Time: 20:44:08

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.54	24734.629	24734.629	bb			0.5257	105.15	5.15	2200.8...	3.23
WCL100227-06CCV	Perchlorate-101	101 > 85	3.53	7654.928	7654.928	bb			0.5354	107.08	7.08	2331.6...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.53	19141.506	19141.506	bb			0.4902	98.04	-1.96	1232.7...	

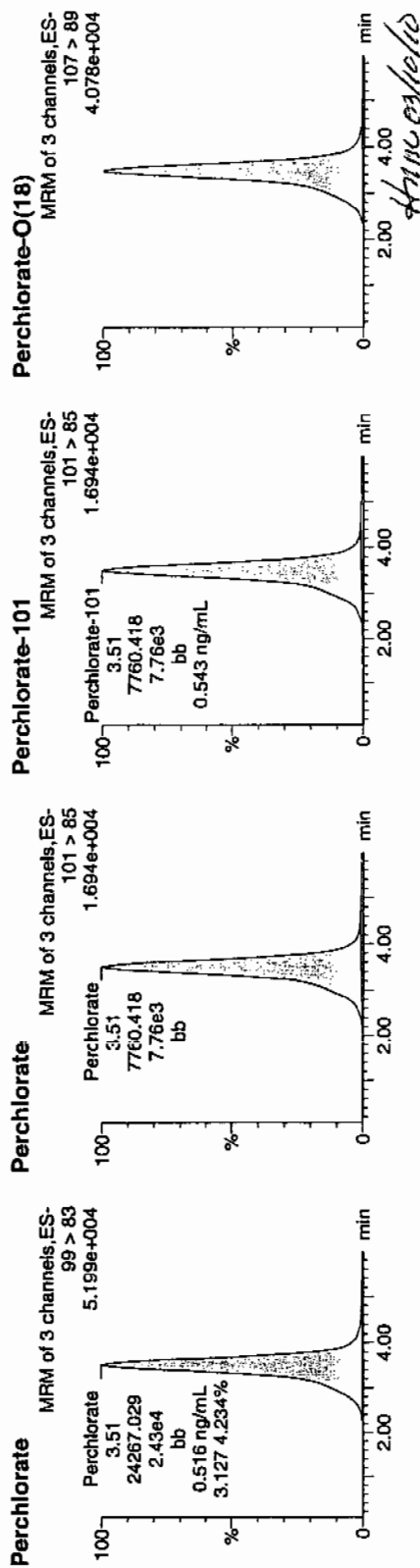
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308047a
Date: 08-Mar-2010
Time: 22:42:18
ID: WCL100227-06CCV
Vial: 1:2,A

*Runs
and
03-04-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.51	24267.029	24267.029	bb			0.5158	103.16	3.16	1490.7...	3.13
WCL100227-06CCV	Perchlorate-101	101 > 85	3.51	7760.418	7760.418	bb			0.5428	108.56	8.56	1343.7...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.50	18936.834	18936.834	bb			0.4849	96.99	-3.01	1821.0...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308060a

Date: 09-Mar-2010

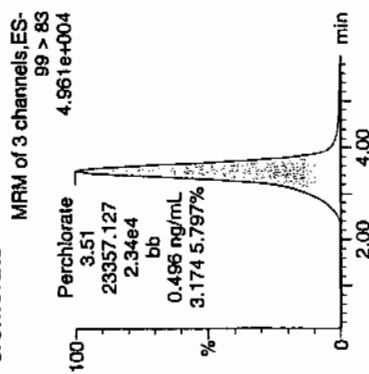
Time: 00:40:46

D: WCL100227-06CCV

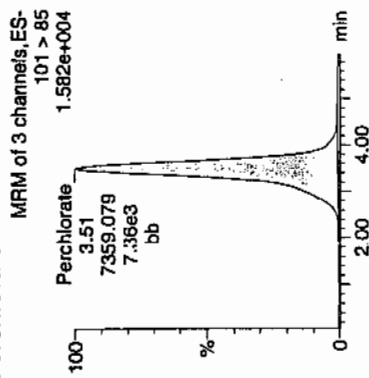
/lal: 1:2,A

Pun
6m
03-01-10

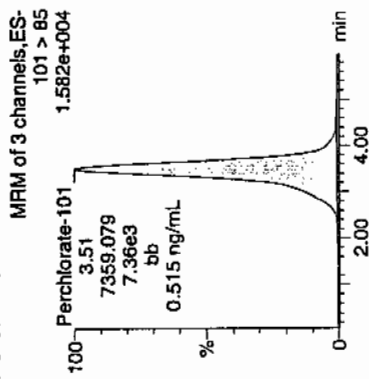
Perchlorate



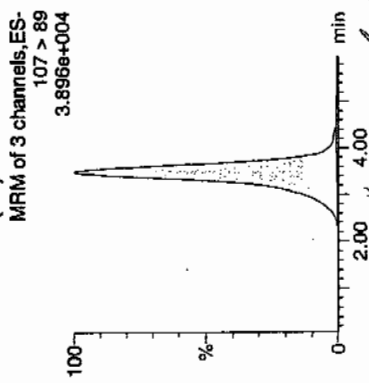
Perchlorate



Perchlorate-101



Perchlorate-O(18)



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	3.51	23357.127	23357.127	bb			0.4965	99.29	-0.71	1630.4...	3.17
WCL100227-06CCV	Perchlorate-101	3.51	7359.079	7359.079	bb			0.5147	102.95	2.95	1965.3...	
WCL100227-06CCV	Perchlorate-O(18)	3.48	18080.102	18080.102	bb			0.4630	92.60	-7.40	1265.2...	

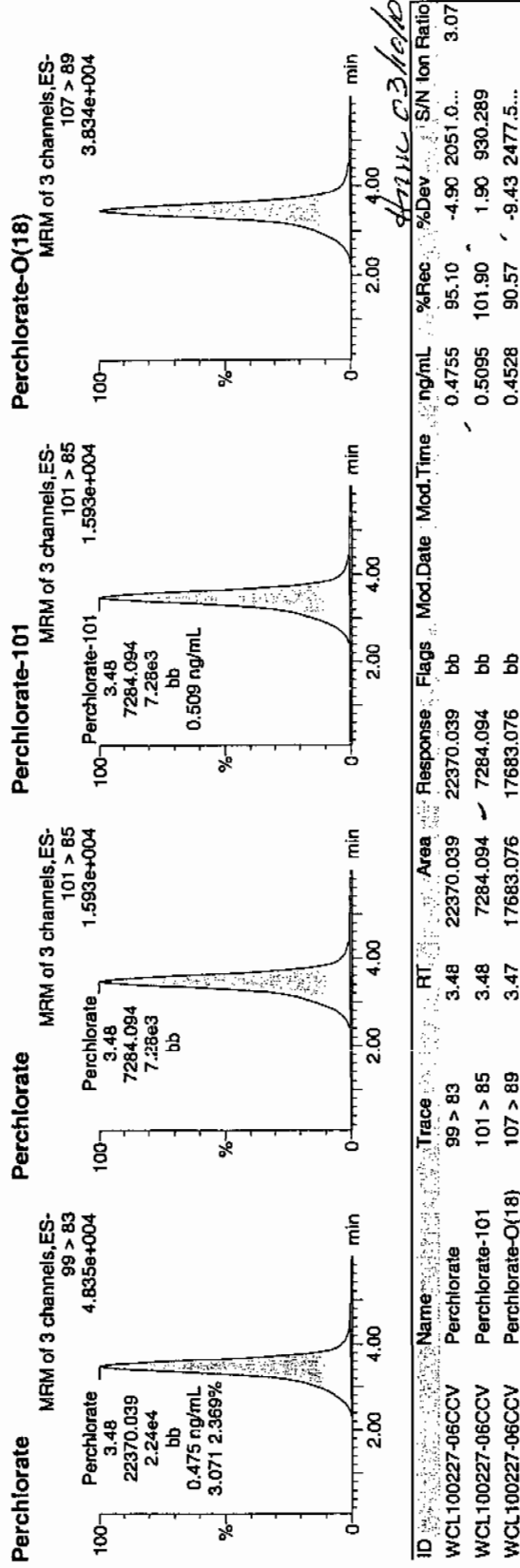
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308073a
Date: 09-Mar-2010
Time: 02:38:45
ID: WCL100227-06CCV
Vial: 1:2,A

Per
03-04-10



Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308086a

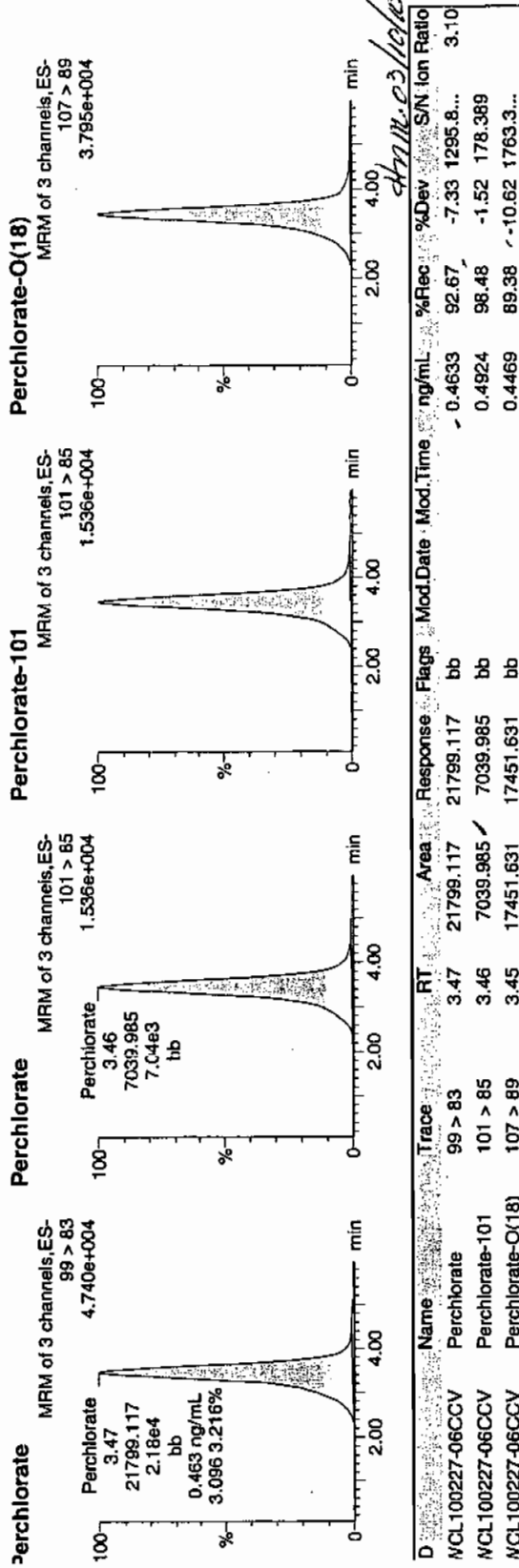
Date: 09-Mar-2010

Time: 04:36:48

D: WCL100227-06CCV

/Al: 1:2,A

Perchlorate
3.47
3.46
3.45



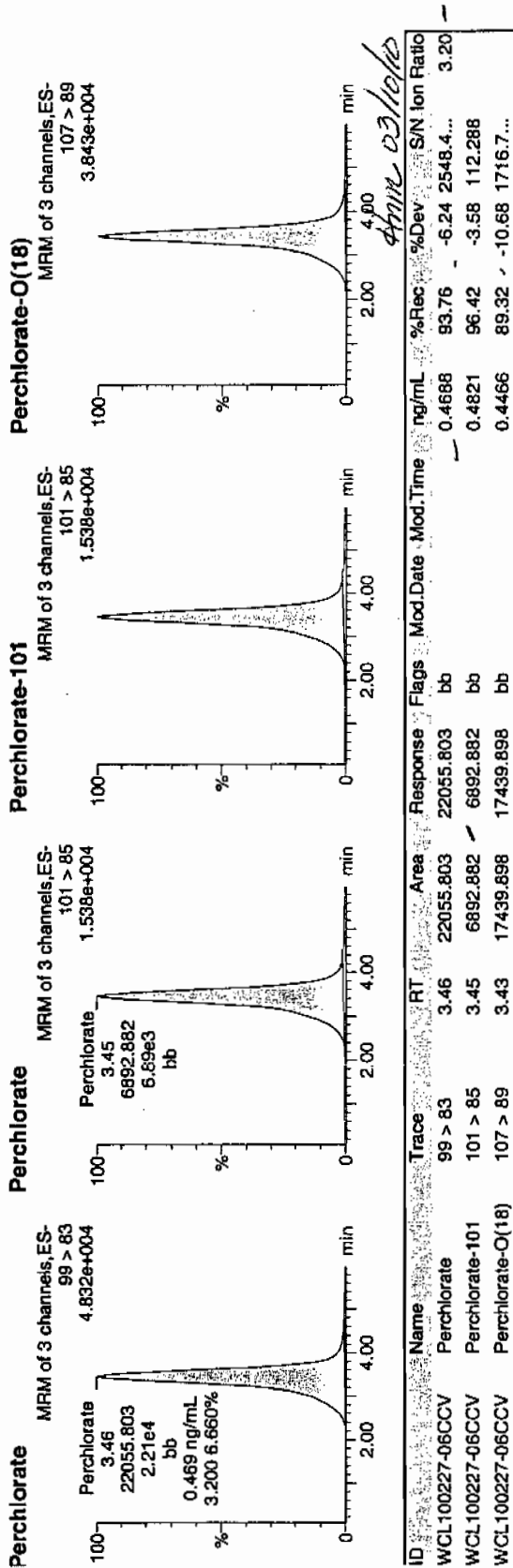
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308099a
Date: 09-Mar-2010
Time: 06:34:54
ID: WCL100227-06CCV
Vial: 1:2,A

Pure
03-04-10



Perchlorate MDL Verification

GEL Job No.(SDG): 10-2025

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	91.57	08-MAR-10 17:15	per0308011a
Perchlorate Isotope Ratio		2.95		08-MAR-10 17:15	per0308011a
Perchlorate-101	.05	.05	102.06	08-MAR-10 17:15	per0308011a
Perchlorate	.05	.05	97.28	08-MAR-10 19:04	per0308023a
Perchlorate Isotope Ratio		2.97		08-MAR-10 19:04	per0308023a
Perchlorate-101	.05	.05	107.82	08-MAR-10 19:04	per0308023a
Perchlorate	.05	.05	97.48	08-MAR-10 21:02	per0308036a
Perchlorate Isotope Ratio		3.14		08-MAR-10 21:02	per0308036a
Perchlorate-101	.05	.05	102.17	08-MAR-10 21:02	per0308036a
Perchlorate	.05	.05	98.41	08-MAR-10 23:00	per0308049a
Perchlorate Isotope Ratio		3.08		08-MAR-10 23:00	per0308049a

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-2025

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.05	105.1	08-MAR-10 23:00	per0308049a
Perchlorate	.05	.05	92.76	09-MAR-10 00:59	per0308062a
Perchlorate Isotope Ratio		3.13		09-MAR-10 00:59	per0308062a
Perchlorate-101	.05	.05	97.6	09-MAR-10 00:59	per0308062a
Perchlorate	.05	.04	87.02	09-MAR-10 02:57	per0308075a
Perchlorate Isotope Ratio		2.95		09-MAR-10 02:57	per0308075a
Perchlorate-101	.05	.05	97.15	09-MAR-10 02:57	per0308075a
Perchlorate	.05	.04	88.07	09-MAR-10 04:55	per0308088a
Perchlorate Isotope Ratio		2.98		09-MAR-10 04:55	per0308088a
Perchlorate-101	.05	.05	97.34	09-MAR-10 04:55	per0308088a
Perchlorate	.05	.05	93.32	09-MAR-10 06:53	per0308101a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.36		09-MAR-10 06:53	per0308101a
Perchlorate-101	.05	.05	91.41	09-MAR-10 06:53	per0308101a

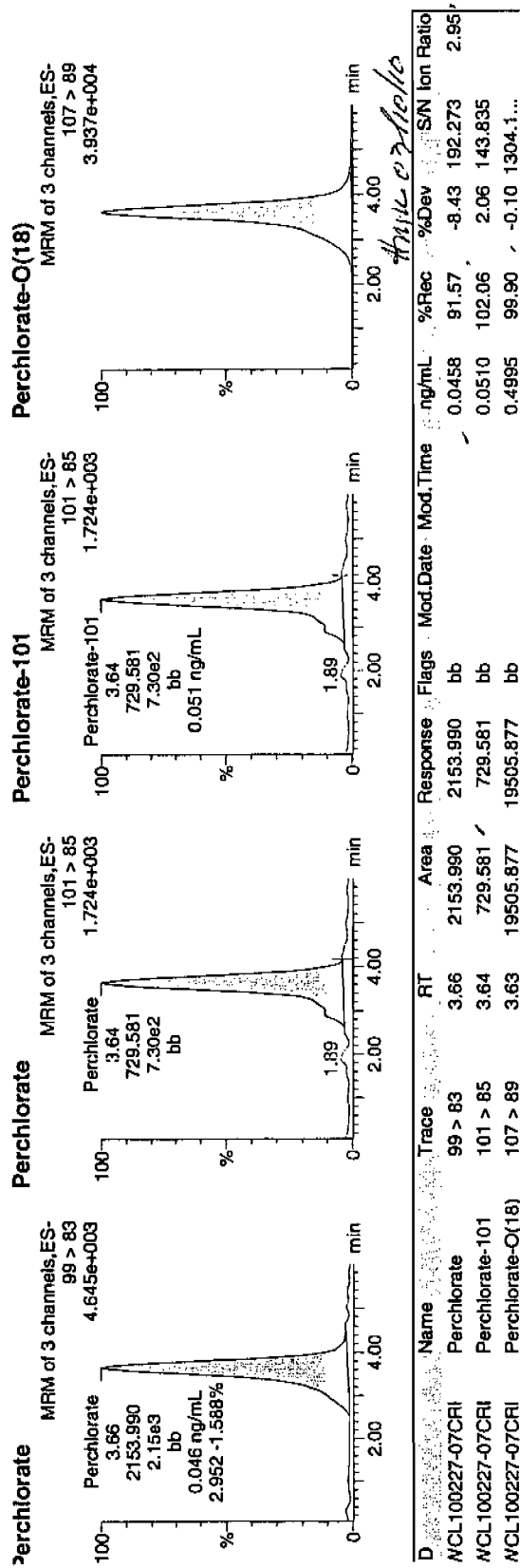
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308011a
Date: 08-Mar-2010
Time: 17:15:29
D: WCL100227-07CRI
Vial: 1:2,B

Per
03-09-10



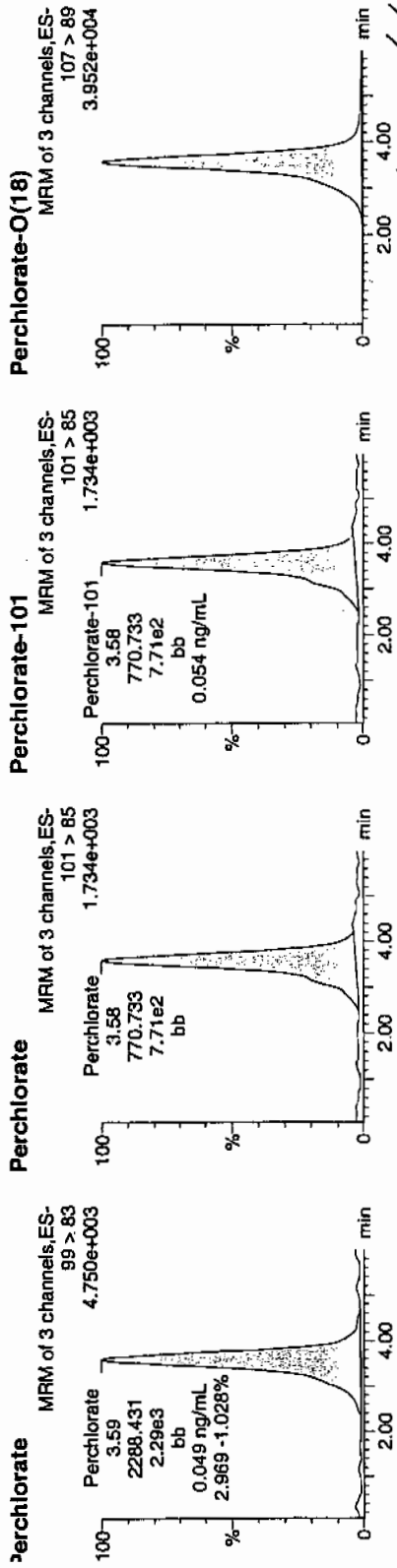
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308023a
Date: 08-Mar-2010
Time: 19:04:27
D: WCL100227-07CRI
/lal: 1:2,B

per
03-01-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
	Perchlorate	99 > 83	3.59	2288.431	2288.431	bb			0.0486	97.28	-2.72	379.669	2.97
	Perchlorate-101	101 > 85	3.58	770.733	770.733	bb			0.0539	107.82	7.82	84.015	
	Perchlorate-O(18)	107 > 89	3.57	18985.990	18985.990	bb			0.4862	97.24	-2.76	3992.9...	

Handwritten: 03/09/10

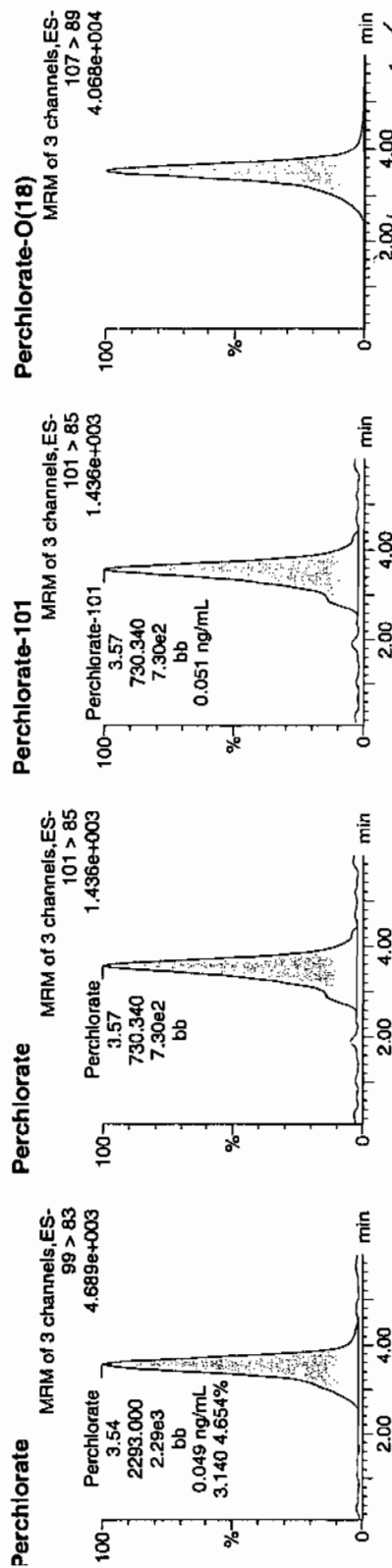
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308036a
Date: 08-Mar-2010
Time: 21:02:14
ID: WCL100227-07CRI
Vial: 1:2,B

Puro
03-04-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
NCL100227-07CRI	Perchlorate	99 > 83	3.54	2293.000	2293.000	bb			0.0487	97.48	-2.52	112.560	3.14
NCL100227-07CRI	Perchlorate-101	101 > 85	3.57	730.340	730.340	bb			0.0511	102.17	2.17	21.006	
NCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.53	19152.959	19152.959	bb			0.4905	98.10	-1.90	2778.2...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308049a

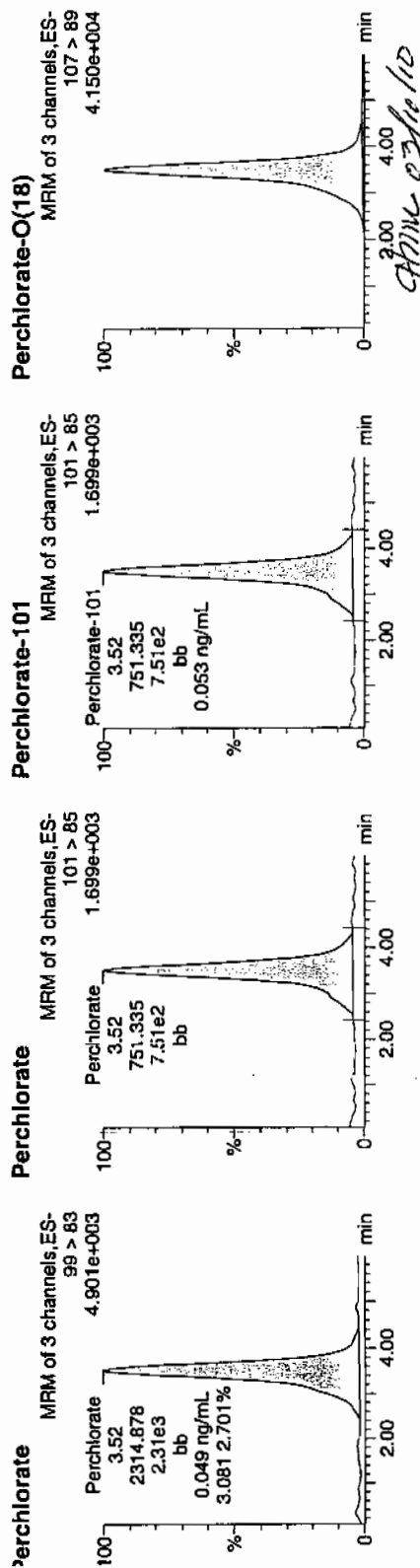
Date: 08-Mar-2010

Time: 23:00:24

D: WCL100227-07CRI

File: 1:2,B

Pure
CWS
03-04-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
	WCL100227-07CRI	Perchlorate	3.52	2314.878	2314.878	bb			0.0492	98.41	-1.59	318.865	3.08
	WCL100227-07CRI	Perchlorate-101	3.52	751.335	751.335	bb			0.0526	105.10	5.10	86.661	
	WCL100227-07CRI	Perchlorate-O(18)	3.51	19220.762	19220.762	bb			0.4922	98.44	-1.56	1856.7...	

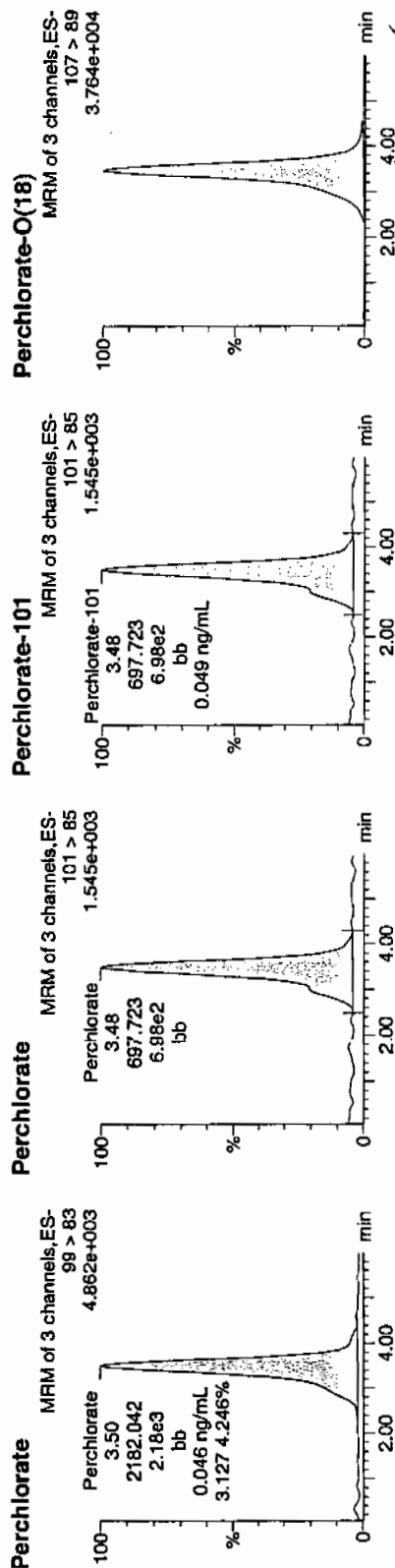
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308062a
Date: 09-Mar-2010
Time: 00:59:13
ID: WCL100227-07CRI
Vial: 1:2,B

Run and 3304-D



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.50	2182.042	2182.042	bb			0.0464	92.76	-7.24	176.942	3.13
WCL100227-07CRI	Perchlorate-101	101 > 85	3.48	697.723	697.723	bb			0.0488	97.60	-2.40	55.243	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17393.770	17393.770	bb			0.4454	89.09	-10.91	764.961	

Amu 03/10/10

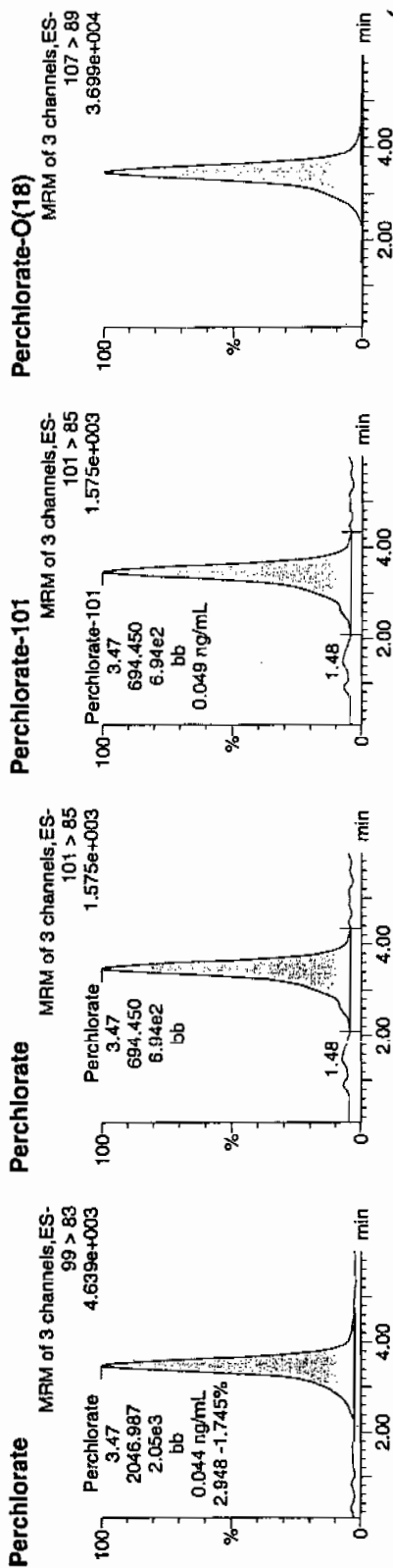
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308075a
Date: 09-Mar-2010
Time: 02:57:04
ID: WCL100227-07CRI
Vial: 1:2,B

Pure and
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod. Time	Mod. Date	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.47	2046.987	2046.987	bb	1.575e+003	1.575e+003	0.0435	87.02	-12.98	175.388	2.95
WCL100227-07CRI	Perchlorate-101	101 > 85	3.47	694.450	694.450	bb	1.575e+003	1.575e+003	0.0486	97.15	-2.85	110.840	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.47	17056.256	17056.256	bb	1.575e+003	1.575e+003	0.4368	87.36	-12.64	2127.1...	

Quantity Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308088a

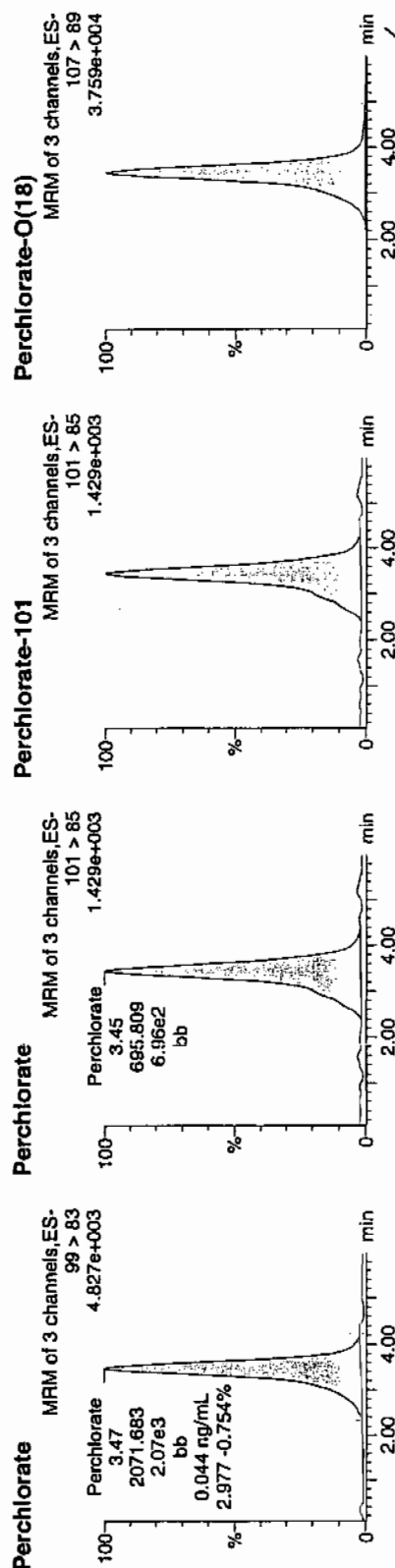
Date: 09-Mar-2010

Time: 04:55:08

ID: WCL100227-07CRI

Vial: 1:2,B

Per
03/09/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.47	2071.683	2071.683	bb			0.0440	88.07	-11.93	130.882	2.98
WCL100227-07CRI	Perchlorate-101	101 > 85	3.45	695.809	695.809	bb			0.0487	97.34	-2.66	110.757	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.45	17290.361	17290.361	bb			0.4428	88.56	-11.44	1467.3...	

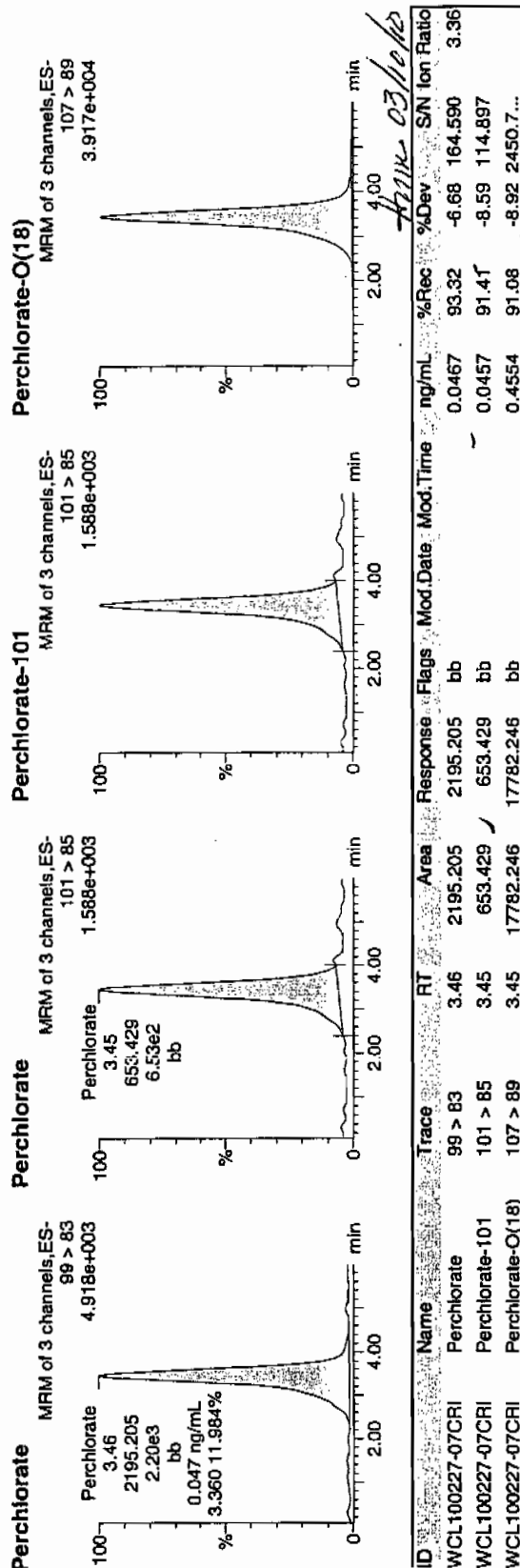
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308101a
Date: 09-Mar-2010
Time: 06:53:14
ID: WCL100227-07CRI
Vial: 1:2,B

*Purs
03-04-10*



QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

MB

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2025

GEL Sample ID: 1202056710

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:06	per0308076a
	Perchlorate Isotope Ratio						1	09-MAR-10 03:06	per0308076a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	09-MAR-10 03:06	per0308076a
	Perchlorate-O(18)			0.405	ug/L		1	09-MAR-10 03:06	per0308076a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Sample Name: per0308076a

Date: 09-Mar-2010

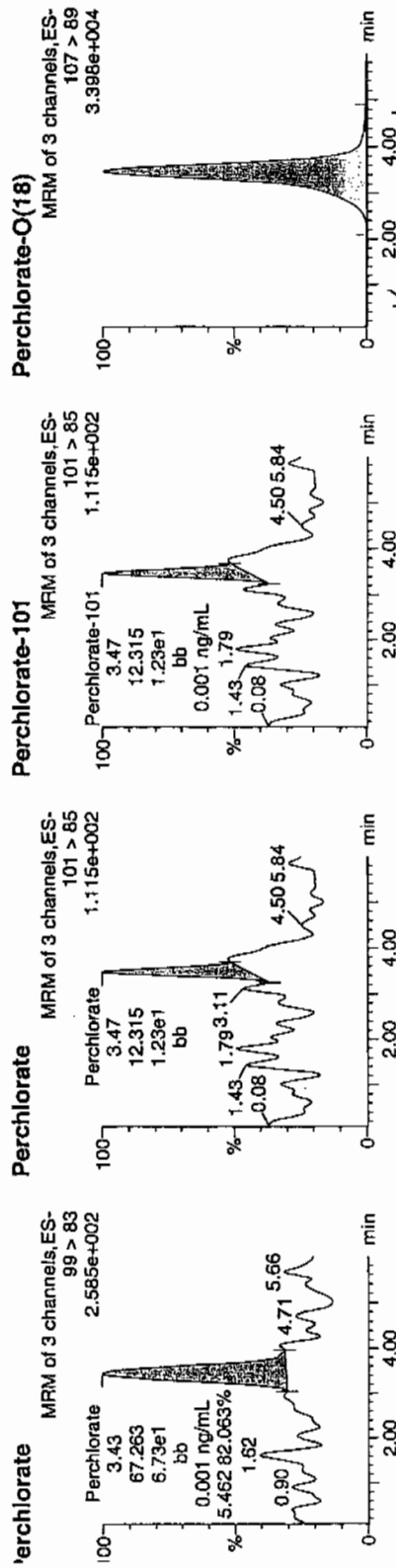
Time: 03:06:09

D: 1202056710

Lat: 2:4,A

12221954044 | L20 | MS | 11

03-08-10



Name	Trace	RT	Area	Response	Flags	Mod	Date	Mod	Time	pg/mL	%Rec	Day	SIN	Int	Ratio
202056710	Perchlorate	99 > 83	3.43	67.263	bb					0.0014	-		6.443	5.46	0.0000
202056710	Perchlorate-101	101 > 85	3.47	12.315	bb					0.0009	-		11.909		0.0000
202056710	Perchlorate-O(18)	107 > 89	3.47	15825.627	bb					0.4053	81.06	-	18.94	2133.7	0.0000

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 959043

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2025

GEL Sample ID: 1202056711

Date Filtered: 03-MAR-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.179	ug/L	J	1	09-MAR-10 03:15	per0308077a
	Perchlorate Isotope Ratio			3.2			1	09-MAR-10 03:15	per0308077a
14797-73-0	Perchlorate-101	.05	.2	0.184	ug/L	J	1	09-MAR-10 03:15	per0308077a
	Perchlorate-O(18)			0.419	ug/L		1	09-MAR-10 03:15	per0308077a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

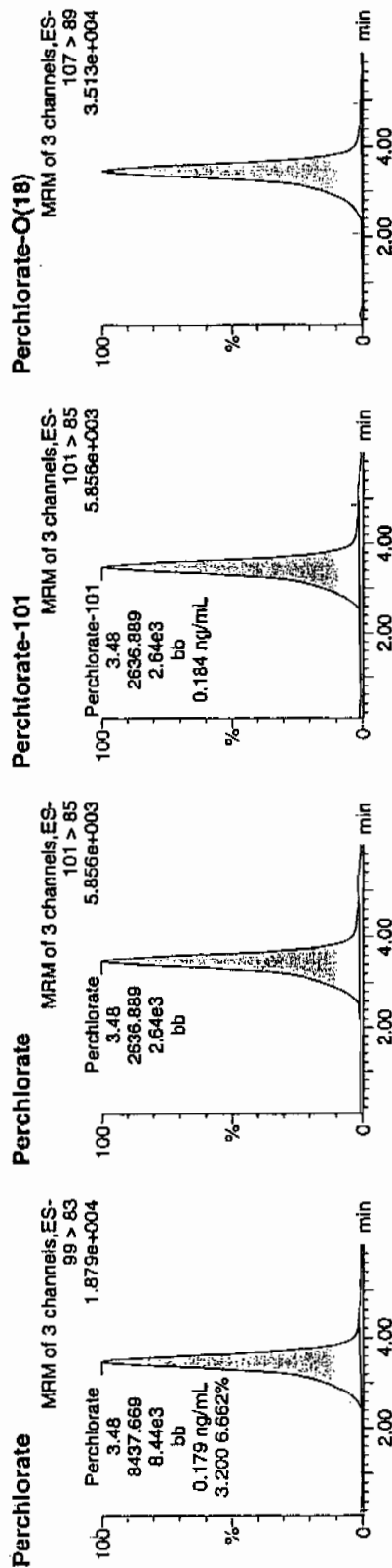
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Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308077a
Date: 09-Mar-2010
Time: 03:15:24
ID: 1202056711
Vial: 2:4,B

WS
03-08-10

1202056711 | 1202056711 | 1202056711



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056711	Perchlorate	99 > 83	3.48	8437.669	8437.669	bb			0.1793	89.67	-10.33	777.875	3.20
1202056711	Perchlorate-101	101 > 85	3.48	2636.889	2636.889	bb			0.1844	92.22	-7.78	581.015	
1202056711	Perchlorate-O(18)	107 > 89	3.47	16378.867	16378.867	bb			0.4194	83.89	-16.11	1862.2...	

8437.669
47047.4 = 0.1793
47047.4 / 10

MISCELLANEOUS DATA

Prep Logbook

Definitive Low Level Perchlorate Analysis Utilizing Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) by EPA Method 6850 Modified (6850M)

Batch ID: 959043
 Analyst: Kaylie Westmoreland
 Method: SW846 6850 Modified
 Verified by:
 Lab SOP: GL-OA-E-067 REV# 6
 Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202056710 MB	03-MAR-2010 16:50:00	10	10	1
1202056711 LCS	03-MAR-2010 16:50:00	10	10	1
247908001	03-MAR-2010 16:50:00	10	10	1
1202056712 MS (247908001)	03-MAR-2010 16:50:00	10	10	1
1202056713 MSD (247908001)	03-MAR-2010 16:50:00	10	10	1
247908002	03-MAR-2010 16:50:00	10	10	1
247908003	03-MAR-2010 16:50:00	10	10	1
247919001	03-MAR-2010 16:50:00	10	10	1
247919002	03-MAR-2010 16:50:00	10	10	1
247922004	03-MAR-2010 16:50:00	10	10	1
247997001	03-MAR-2010 16:50:00	10	10	1
248001001	03-MAR-2010 16:50:00	10	10	1
248019001	03-MAR-2010 16:50:00	10	10	1
248019002	03-MAR-2010 16:50:00	10	10	1
248034001	03-MAR-2010 16:50:00	10	10	1
248038001	03-MAR-2010 16:50:00	10	10	1
248038002	03-MAR-2010 16:50:00	10	10	1
248039001	03-MAR-2010 16:50:00	10	10	1
248046001	03-MAR-2010 16:50:00	10	10	1
248046002	03-MAR-2010 16:50:00	10	10	1
248053001	03-MAR-2010 16:50:00	10	10	1
248053002	03-MAR-2010 16:50:00	10	10	1
248053003	03-MAR-2010 16:50:00	10	10	1
1202056714 LCS	03-MAR-2010 16:50:00	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202056714	10 ug/L ICV/CVV Second Source	UCL100210-02.2	2	mL	Desulphing cartridges used: 100217-1-H & 100204-1-Bu
LCS	1202056711	10 ug/L ICV/CVV Second Source	UCL100210-02.2	2	mL	
MS	1202056712	10 ug/L ICV/CVV Second Source	UCL100210-02.2	2	mL	
MSD	1202056713	10 ug/L ICV/CVV Second Source	UCL100210-02.2	2	mL	
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1267890	10	mL	
RGNT	All	0.2% HPLC Grade Water	1271949	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/07/10
 Extr. Injection Volume: 20uL
 Sequence Number: per030710a
 Initial Calibration Date: 03/07/10

Method: EPA 6850-Modified
 Int. Std.: UCL100126-01
 Mobile Phase Lot#: 1278668, 1271949
 Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *shn*
 Date: *03/10/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0308001a	IPB001	CWW	3/8/2010 15:44			1		USE	B
per0308002a	IPB001	CWW	3/8/2010 15:53			1		USE	B
per0308003a	WCLICAL-01	CWW	3/8/2010 16:02			1		USE	I
per0308004a	WCLICAL-02	CWW	3/8/2010 16:11			1		USE	I
per0308005a	WCLICAL-03	CWW	3/8/2010 16:20			1		USE	I
per0308006a	WCLICAL-04	CWW	3/8/2010 16:29			1		USE	I
per0308007a	WCLICAL-05	CWW	3/8/2010 16:39			1		USE	I
per0308008a	IPB002	CWW	3/8/2010 16:48			1		USE	B
per0308009a	WCLICV	CWW	3/8/2010 16:57			1		USE	C
per0308010a	IPB003	CWW	3/8/2010 17:06			1		USE	B
per0308011a	WCLCRI	CWW	3/8/2010 17:15			1		USE	C
per0308012a	246870009	CWW	3/8/2010 17:24	955688	10-1782	1	LANL	USE	S
per0308013a	246870010	CWW	3/8/2010 17:33	955688	10-1782	1	LANL	USE	S
per0308014a	246982001	CWW	3/8/2010 17:42	955688	10-1812	1	LANL	USE	S
per0308015a	246982002	CWW	3/8/2010 17:51	955688	10-1812	1	LANL	USE	S
per0308016a	246982003	CWW	3/8/2010 18:01	955688	10-1812	1	LANL	USE	S
per0308017a	246982004	CWW	3/8/2010 18:10	955688	10-1812	1	LANL	USE	S
per0308018a	246982005	CWW	3/8/2010 18:19	955688	10-1812	1	LANL	USE	S
per0308019a	246982006	CWW	3/8/2010 18:28	955688	10-1812	1	LANL	USE	S
per0308020a	246982007	CWW	3/8/2010 18:37	955688	10-1812	1	LANL	USE	S
per0308021a	WCLCCV	CWW	3/8/2010 18:46			1		USE	C
per0308022a	IPB004	CWW	3/8/2010 18:55			1		USE	B
per0308023a	WCLCRI	CWW	3/8/2010 19:04			1		USE	C
per0308024a	1202049003	CWW	3/8/2010 19:13	955691	10-1809	1	LANL	USE	S
per0308025a	1202049004	CWW	3/8/2010 19:22	955691	10-1809	1	LANL	USE	S
per0308026a	1202049007	CWW	3/8/2010 19:31	955691	10-1809	1	LANL	USE	S
per0308027a	246974001	CWW	3/8/2010 19:40	955691	10-1809	1	LANL	USE	S
per0308028a	1202049005	CWW	3/8/2010 19:49	955691	10-1809	1	LANL	USE	S
per0308029a	1202049006	CWW	3/8/2010 19:58	955691	10-1809	1	LANL	USE	S

per0308030a	246974002	CWW	3/8/2010 20:07	955691	10-1809	1	LANL	USE	S
per0308031a	246974003	CWW	3/8/2010 20:16	955691	10-1809	1	LANL	USE	S
per0308032a	246974004	CWW	3/8/2010 20:26	955691	10-1809	1	LANL	USE	S
per0308033a	246974005	CWW	3/8/2010 20:35	955691	10-1809	1	LANL	USE	S
per0308034a	WCLCCV	CWW	3/8/2010 20:44			1		USE	C
per0308035a	IPB005	CWW	3/8/2010 20:53			1		USE	B
per0308036a	WCLCRI	CWW	3/8/2010 21:02			1		USE	C
per0308037a	246974006	CWW	3/8/2010 21:11	955691	10-1809	1	LANL	USE	S
per0308038a	246974007	CWW	3/8/2010 21:20	955691	10-1809	1	LANL	USE	S
per0308039a	246974008	CWW	3/8/2010 21:29	955691	10-1809	1	LANL	USE	S
per0308040a	246974009	CWW	3/8/2010 21:38	955691	10-1809	1	LANL	USE	S
per0308041a	246974010	CWW	3/8/2010 21:47	955691	10-1809	1	LANL	USE	S
per0308042a	246974011	CWW	3/8/2010 21:56	955691	10-1809	1	LANL	USE	S
per0308043a	246974012	CWW	3/8/2010 22:05	955691	10-1809	1	LANL	USE	S
per0308044a	246974013	CWW	3/8/2010 22:14	955691	10-1809	1	LANL	USE	S
per0308045a	246974014	CWW	3/8/2010 22:23	955691	10-1809	1	LANL	USE	S
per0308046a	246974015	CWW	3/8/2010 22:32	955691	10-1809	1	LANL	USE	S
per0308047a	WCLCCV	CWW	3/8/2010 22:42			1		USE	C
per0308048a	IPB006	CWW	3/8/2010 22:51			1		USE	B
per0308049a	WCLCRI	CWW	3/8/2010 23:00			1		USE	C
per0308050a	246974016	CWW	3/8/2010 23:09	955691	10-1809	1	LANL	USE	S
per0308051a	246974017	CWW	3/8/2010 23:18	955691	10-1809	1	LANL	USE	S
per0308052a	IPB007	CWW	3/8/2010 23:27			1		USE	B
per0308053a	1202049064	CWW	3/8/2010 23:36	955724	VARIOUS	1	LANL	USE	S
per0308054a	1202049065	CWW	3/8/2010 23:46	955724	VARIOUS	1	LANL	USE	S
per0308055a	1202049068	CWW	3/8/2010 23:55	955724	VARIOUS	1	LANL	USE	S
per0308056a	246964002	CWW	3/9/2010 0:04	955724	10-1802	1	LANL	USE	S
per0308057a	246964004	CWW	3/9/2010 0:13	955724	10-1802	1	LANL	USE	S
per0308058a	246967001	CWW	3/9/2010 0:22	955724	10-1807	1	LANL	USE	S
per0308059a	246967004	CWW	3/9/2010 0:31	955724	10-1807	1	LANL	USE	S
per0308060a	WCLCCV	CWW	3/9/2010 0:40			1		DUSE-DL	S
per0308061a	IPB008	CWW	3/9/2010 0:50			1		USE	C
per0308062a	WCLCRI	CWW	3/9/2010 0:59			1		USE	B
per0308063a	247036002	CWW	3/9/2010 1:08	955724	10-1826	1	LANL	USE	C
per0308064a	247036003	CWW	3/9/2010 1:17	955724	10-1826	1	LANL	USE	S
per0308065a	247036006	CWW	3/9/2010 1:26	955724	10-1826	1	LANL	USE	S
per0308066a	247037001	CWW	3/9/2010 1:35	955724	10-1823	1	LANL	DUSE-DL	S

per0308067a	247042002	CWW	3/9/2010 1:44	955724	10-1817	1	LANL	DUSE-RA	S
per0308068a	247042004	CWW	3/9/2010 1:53	955724	10-1817	1	LANL	USE	S
per0308069a	247042006	CWW	3/9/2010 2:02	955724	10-1817	1	LANL	USE	S
per0308070a	247261004	CWW	3/9/2010 2:11	955724	10-1886	1	LANL	USE	S
per0308071a	1202049066	CWW	3/9/2010 2:20	955724	10-1886	1	LANL	USE	S
per0308072a	1202049067	CWW	3/9/2010 2:29	955724	10-1886	1	LANL	USE	S
per0308073a	WCLCCV	CWW	3/9/2010 2:38			1		USE	C
per0308074a	IPB009	CWW	3/9/2010 2:48			1		USE	B
per0308075a	WCLCRI	CWW	3/9/2010 2:57			1		USE	C
per0308076a	1202056710	CWW	3/9/2010 3:06	959044	VARIOUS	1	LANL	USE	S
per0308077a	1202056711	CWW	3/9/2010 3:15	959044	VARIOUS	1	LANL	USE	S
per0308078a	1202056714	CWW	3/9/2010 3:24	959044	VARIOUS	1	LANL	USE	S
per0308079a	247908001	CWW	3/9/2010 3:33	959044	10-2013-1	1	LANL	USE	S
per0308080a	1202056712	CWW	3/9/2010 3:42	959044	10-2013-1	1	LANL	USE	S
per0308081a	1202056713	CWW	3/9/2010 3:51	959044	10-2013-1	1	LANL	USE	S
per0308082a	247908002	CWW	3/9/2010 4:00	959044	10-2013-1	1	LANL	USE	S
per0308083a	247908003	CWW	3/9/2010 4:09	959044	10-2013-1	1	LANL	USE	S
per0308084a	247919001	CWW	3/9/2010 4:18	959044	10-2016-1	1	LANL	USE	S
per0308085a	247919002	CWW	3/9/2010 4:27	959044	10-2016-1	1	LANL	USE	S
per0308086a	WCLCCV	CWW	3/9/2010 4:36			1		USE	C
per0308087a	IPB010	CWW	3/9/2010 4:46			1		USE	B
per0308088a	WCLCRI	CWW	3/9/2010 4:55			1		USE	C
per0308089a	247922004	CWW	3/9/2010 5:04	959044	10-2022	1	LANL	USE	S
per0308090a	247997001	CWW	3/9/2010 5:13	959044	10-2025	1	LANL	USE	S
per0308091a	248001001	CWW	3/9/2010 5:22	959044	10-2028	1	LANL	USE	S
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per0308093a	248019002	CWW	3/9/2010 5:40	959044	10-2052	1	LANL	USE	S
per0308094a	248034001	CWW	3/9/2010 5:49	959044	10-2072-1	1	LANL	USE	S
per0308095a	248038001	CWW	3/9/2010 5:58	959044	10-2066-1	1	LANL	USE	S
per0308096a	248038002	CWW	3/9/2010 6:07	959044	10-2066-1	1	LANL	USE	S
per0308097a	248039001	CWW	3/9/2010 6:16	959044	10-2069	1	LANL	USE	S
per0308098a	248046001	CWW	3/9/2010 6:25	959044	10-2075-1	1	LANL	USE	S
per0308099a	WCLCCV	CWW	3/9/2010 6:34			1		USE	C
per0308100a	IPB011	CWW	3/9/2010 6:44			1		USE	B
per0308101a	WCLCRI	CWW	3/9/2010 6:53			1		USE	C
per0308102a	248046002	CWW	3/9/2010 7:02	959044	10-2075-1	1	LANL	USE	S
per0308103a	248053001	CWW	3/9/2010 7:11	959044	10-2081	1	LANL	USE	S

per0308104a	248053002	CWW	3/9/2010 7:20	959044	10-2081	1	LANL	USE	S
per0308105a	248053003	CWW	3/9/2010 7:29	959044	10-2081	1	LANL	USE	S
per0308106a	IPB012	CWW	3/9/2010 7:38			1		USE	B
per0308107a	1202056715	CWW	3/9/2010 7:47	959047	VARIOUS	1	LANL	USE	S
per0308108a	1202056716	CWW	3/9/2010 7:57	959047	VARIOUS	1	LANL	USE	S
per0308109a	1202056719	CWW	3/9/2010 8:06	959047	VARIOUS	1	LANL	USE	S
per0308110a	248108001	CWW	3/9/2010 8:15	959047	10-2090	1	LANL	USE	S
per0308111a	248117001	CWW	3/9/2010 8:24	959047	10-2093	1	LANL	USE	S
per0308112a	WCLCCV	CWW	3/9/2010 8:33			1		USE	C
per0308113a	IPB013	CWW	3/9/2010 8:42			1		USE	B
per0308114a	WCLCRI	CWW	3/9/2010 8:51			1		USE	C
per0308115a	248127001	CWW	3/9/2010 9:00	959047	10-2096	1	LANL	USE	S
per0308116a	248127002	CWW	3/9/2010 9:09	959047	10-2096	1	LANL	USE	S
per0308117a	248162001	CWW	3/9/2010 9:18	959047	10-2103	1	LANL	USE	S
per0308118a	248162002	CWW	3/9/2010 9:27	959047	10-2103	1	LANL	USE	S
per0308119a	1202056717	CWW	3/9/2010 9:37	959047	10-2103	1	LANL	USE	S
per0308120a	1202056718	CWW	3/9/2010 9:46	959047	10-2103	1	LANL	USE	S
per0308121a	248162003	CWW	3/9/2010 9:55	959047	10-2103	1	LANL	USE	S
per0308122a	248162004	CWW	3/9/2010 10:04	959047	10-2103	1	LANL	USE	S
per0308123a	248168006	CWW	3/9/2010 10:13	959047	10-2107	1	LANL	USE	S
per0308124a	248169004	CWW	3/9/2010 10:22	959047	10-2108	1	LANL	USE	S
per0308125a	WCLCCV	CWW	3/9/2010 10:31			1		USE	C
per0308126a	IPB014	CWW	3/9/2010 10:40			1		USE	B
per0308127a	WCLCRI	CWW	3/9/2010 10:49			1		USE	C
per0308128a	248188001	CWW	3/9/2010 10:58	959047	10-2120	1	LANL	USE	S
per0308129a	248199001	CWW	3/9/2010 11:07	959047	10-2122-1	1	LANL	USE	S
per0308130a	248238001	CWW	3/9/2010 11:16	959047	10-2132-1	1	LANL	USE	S
per0308131a	248238002	CWW	3/9/2010 11:25	959047	10-2132-1	1	LANL	USE	S
per0308132a	248242001	CWW	3/9/2010 11:34	959047	10-2135-1	1	LANL	USE	S
per0308133a	248245001	CWW	3/9/2010 11:43	959047	10-2138	1	LANL	USE	S
per0308134a	248257001	CWW	3/9/2010 11:52	959047	10-2146-1	1	LANL	USE	S
per0308135a	248257002	CWW	3/9/2010 12:02	959047	10-2146-1	1	LANL	USE	S
per0308136a	248261001	CWW	3/9/2010 12:11	959047	10-2149	1	LANL	USE	S
per0308137a	WCLCCV	CWW	3/9/2010 12:20			1		USE	C
per0308138a	IPB015	CWW	3/9/2010 12:29			1		USE	B
per0308139a	WCLCRI	CWW	3/9/2010 12:38			1		USE	C

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qld

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308080a

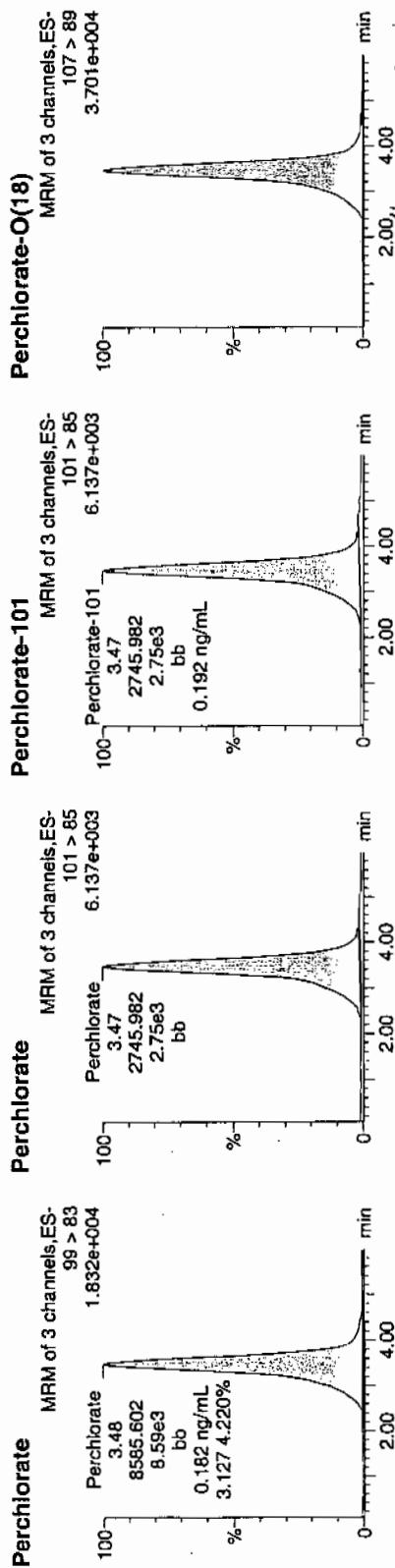
Date: 09-Mar-2010

Time: 03:42:32

ID: 1202056712

Vial: 2:4,E

1202056712 | 1202056712 | MS | 1 | 03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056712	Perchlorate	99 > 83	3.48	8585.602	8585.602	bb			0.1825	91.24	-8.76	461.605	3.13
1202056712	Perchlorate-101	101 > 85	3.47	2745.982	2745.982	bb			0.1921	96.03	-3.97	713.591	
1202056712	Perchlorate-O(18)	107 > 89	3.47	17092.297	17092.297	bb			0.4377	87.54	-12.46	2059.9...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030810a.qtd

Last Altered: Tuesday, March 09, 2010 12:57:27 PM Eastern Standard Time
Printed: Tuesday, March 09, 2010 1:04:52 PM Eastern Standard Time

Name: per0308081a

Date: 09-Mar-2010

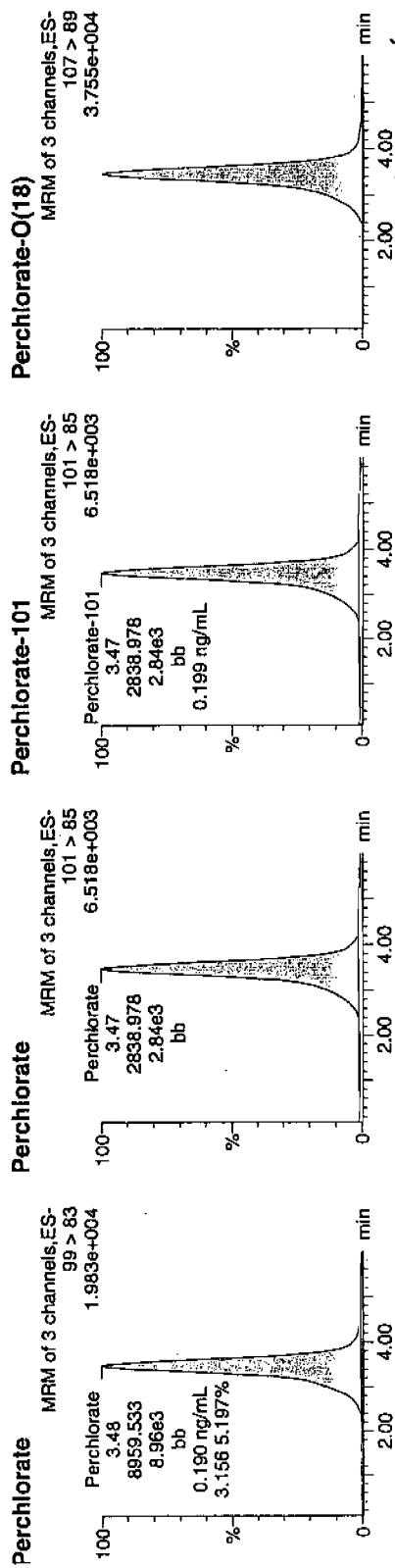
Time: 03:51:33

ID: 1202056713

Vial: 2:4,F

1202056713 | 1202056713 | 1202056713

03-09-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056713	Perchlorate	99 > 83	3.48	8959.533	8959.533	bb			0.1904	95.22	-4.78	665.323	3.16
1202056713	Perchlorate-101	101 > 85	3.47	2838.978	2838.978	bb			0.1986	99.29	-0.71	597.531	
1202056713	Perchlorate-O(18)	107 > 89	3.46	17463.715	17463.715	bb			0.4472	89.45	-10.55	1013.9...	

Isotope Ratio Criteria

Isotope Ratio $^{35}\text{Cl}/^{37}\text{Cl}$

2.31-3.85

Tune Criteria

The tuning solution is introduced directly into the mass spectrometer using the ESI interface in the positive ion mode. The mass range scanned is 20 to 1100 amu using at least six scans. The observed mass for the target compound in the daily calibration standards must be within 0.2 amu of the expected value. If it is greater than 0.2 amu, then a mass calibration is performed and the instrument is re-calibrated.

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2025-1**

Method/Analysis Information

Procedure: **Definitive Low Level Perchlorate Analysis Utilizing Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) by EPA Method 6850 Modified (6850M)**

Analytical Method: SW846 6850 Modified

Prep Method: SW846 6850 Modified

Analytical Batch Number: 958918

Prep Batch Number: 958915

Sample Analysis

Sample ID	Client ID
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463
1202056517	Interference Check Sample (ICS)
1202056513	Method Blank (MB)
1202056514	Laboratory Control Sample (LCS)
1202056515	248002001(RE36-10-8490) Matrix Spike (MS)
1202056516	248002001(RE36-10-8490) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-067 REV# 6.

10-2025-1-PERLCMS

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Calibration Information

Initial Calibration

All initial calibration requirements have been met for this SDG. Due to software constraints, all Initial Calibration Blanks must be designated as IPB001.

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

CCB Requirements

All continuing calibration blanks (CCB) bracketing the analyses associated with this batch were within acceptance criteria.

CCV Requirements

All continuing calibration checks (CCV) requirements were met by all bracketing CCV standards.

Low Level Standard (CRI) Requirements

All low level calibration verification (CRI) requirements were met by all bracketing CRI standards.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Interference Check Sample (ICS)

The interference check sample (ICS) met all recovery acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 248002001 (RE36-10-8490) from SDG 10-2028-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Retention Time Standard Area Acceptance

The retention time standard areas were within the required acceptance criteria for all samples and QC.

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Retention Time

During the analysis of Perchlorate by LC/MS/MS, retention time shifts are commonly observed. These retention time shifts, which are caused by fouling of the column by the sample matrices, are problematic when the retention time is used as one of the criterion for confirmation. To overcome this problem, a known amount of O(18) labeled Perchlorate was added to each sample as a retention time standard. The presence of Perchlorate was confirmed by the relative retention time (RRT) of the Perchlorate peak and the O(18) standard. A RRT window of 0.98 to 1.02, as required by Method 332.0, has been used. In addition to the isotopic ratio, the presence of Perchlorate in the samples associated with this data package have been confirmed using the relative retention criteria stated above, not the absolute retention time.

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG except for dilutions.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations.

Method Comments

The samples in this SDG were not originally analyzed using EPA Method 314.0.

Additional Comments

The Perchlorate Isotope Ratio on the Form I may differ slightly from the ratio on the corresponding raw data due to rounding rules and/or significant figures or due to software limitations when there are manual integrations, dilutions or other factors. The ratio value of the Form I is the correct value.

The retention time marker, Perchlorate-O (18), is added to all samples, instrument blanks, and standards prior to injection. It is used to verify the retention time of Perchlorate and Perchlorate-101 and to insure an accurate injection occurred. Due to various anions affecting the recovery of Perchlorate-O (18) and not Perchlorate and Perchlorate-101, the calibration curves of Perchlorate and Perchlorate-101 are not internally corrected for using Perchlorate-O (18). They are external calibrations.

Perchlorate Isotope Ratio

The Perchlorate isotope ratio met acceptance criteria for all samples and QC samples. Please see the isotope ratio criteria in the Miscellaneous Section.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for perchlorate analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis. The laboratory may also utilize an Agilent 1100 liquid chromatography instrument for perchlorate analysis. It is coupled with an Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as LCMSMS #3 or LCMSMS #4. It is also fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis.

Chromatographic Columns

Chromatographic separation of perchlorate is accomplished through analysis on the following anion column:

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert M. Mauer Date: 02/23/10

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8489

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000001

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 95.2

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:26	per0317046a
14797-73-0	Perchlorate-101	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate-O(18)			4.48	ug/kg		1	17-MAR-10 18:26	per0317046a

^a When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8486

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000002

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 96.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:34	per0317047a
14797-73-0	Perchlorate-101	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate-O(18)			4.41	ug/kg		1	17-MAR-10 18:34	per0317047a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8487

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000003

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 94.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:04	per0317051a
14797-73-0	Perchlorate-101	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate-O(18)			4.44	ug/kg		1	17-MAR-10 19:04	per0317051a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8462

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000004

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 98.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:12	per0317052a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate-O(18)			4.12	ug/kg		1	17-MAR-10 19:12	per0317052a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8463

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000005

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 27.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:19	per0317053a
14797-73-0	Perchlorate-101	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate-O(18)			4.32	ug/kg		1	17-MAR-10 19:19	per0317053a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2025-1

Extract Batch Code: 958915

Date Filtered: 10-MAR-10

Matrix: SOIL

Sample ID: 1202056514

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.81	ug/kg	90.7		70 - 130
Perchlorate Isotope Ratio		2.99				-
Perchlorate-101	2.00	1.83	ug/kg	91.5		70 - 130
Perchlorate-O(18)		4.16	ug/kg			-

^ When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2025-1

Extract Batch Code: 958915

Date Filtered: 10-MAR-10

Matrix: SOIL

Sample ID: 1202056517

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.83	ug/kg	91.5		70 - 130
Perchlorate Isotope Ratio		2.94				
Perchlorate-101	2.00	1.88	ug/kg	94		70 - 130
Perchlorate-O(18)		4.35	ug/kg			

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Identify Sample Report MassLynx 4.0 SP4
e GEL Group, LLC Analyst: Charlers W. Wilson

taset: C:\MassLynx\Porchlorate.PRO\per031710a.qld

st Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ime: per0317045a

ite: 17-Mar-2010

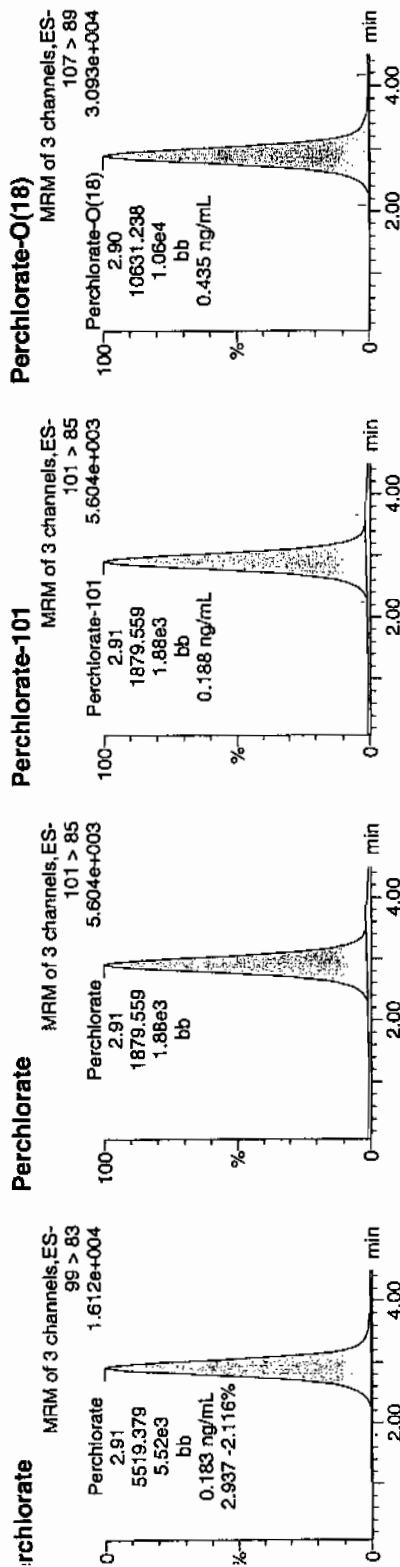
ne: 18:18:57

: 1202056517

al: 2:1,C

03-18-10

1202056517 | 5020 | 715 | 1 |



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
02056517	Perchlorate	99 > 83	5519.379	5519.379	bb			0.1830	91.48	-8.52	710.469	2.94
02056517	Perchlorate-101	101 > 85	1879.559	1879.559	bb			0.1880	94.00	-6.00	1026.4...	
02056517	Perchlorate-O(18)	107 > 89	10631.238	10631.238	bb			0.4345	86.91	-13.09	2169.3...	

$$\frac{5519.379}{30166.6} = 0.1830$$

$$\frac{5519.379}{1879.559} = 2.9365$$

NOT
3/18/10

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2025-1

Extract Batch Code: 958915

Date Extracted: 10-MAR-10

GEL MS/PS ID: 1202056515

Client ID: RE36-10-8490

GEL MSD/PSD ID: 1202056516

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.11	0.0893	ug/kg	1.79	80.7		1.91	86.3		6.34		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		2.98			3.02			0			-
Perchlorate-101	2.11	0.076	ug/kg	1.81	82.3		1.91	86.8		5.05		30	75 - 125
Perchlorate-O(18)	0	4.21	ug/kg	4.19			4.27			2.04			-

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Comments:

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: $\mu\text{g/kg}$

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	17-MAR-10	per0317001a	IPB001
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317001a	IPB001
Perchlorate	0.00	0	NA	17-MAR-10	per0317002a	IPB001
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317002a	IPB001

uantify Sample Report MassLynx 4.0 SP4
ne GEL Group, LLC Analyst: Charles W. Wilson

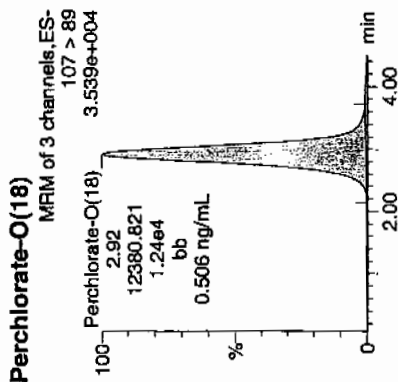
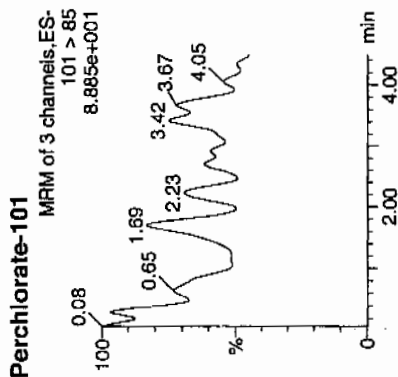
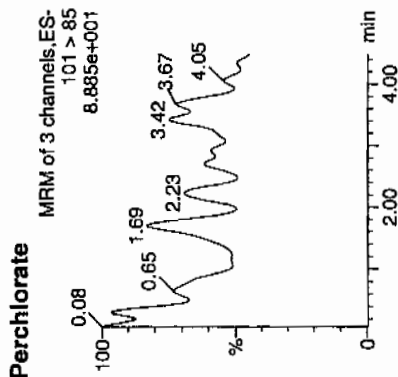
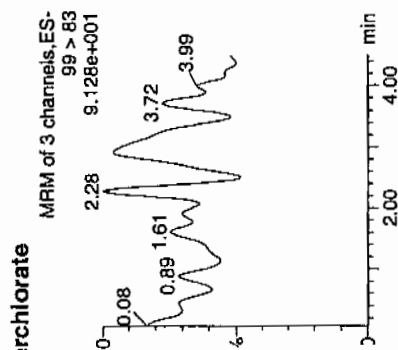
ataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

st Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ethod: C:\MassLynx\Perchlorate.PRO\MethDB\per031710a.mdb 18 Mar 2010 06:41:55
alibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031710a.cdb 18 Mar 2010 06:42:10

ame: per0317001a
te: 17-Mar-2010
me: 12:46:43
: IPB001
al: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.92	12380.821	12380.821	bb			0.5060	101.21	1.21	574.489	

3/19/10

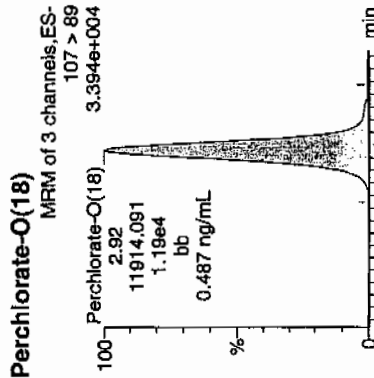
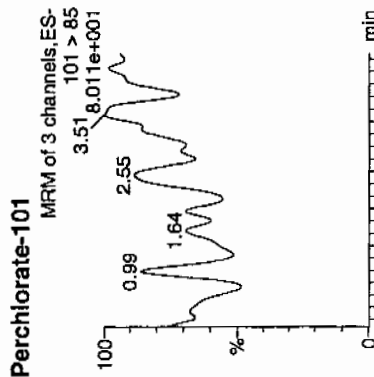
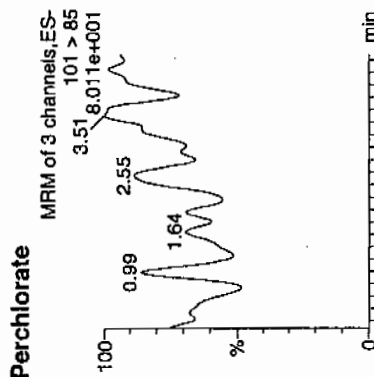
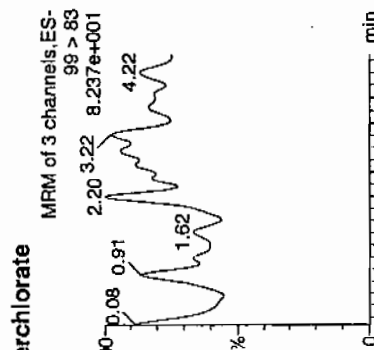
uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

alaset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

st Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317002a
ate: 17-Mar-2010
me: 12:54:15
: IPB001
al: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-Q(18)	107 > 89	2.92	11914.091	11914.091	bb			0.4870	97.39	-2.61	1335.3...	

4/7
3/19/10

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	17-MAR-10	per0317008a	IPB002
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317008a	IPB002
Perchlorate	0.00	0	NA	17-MAR-10	per0317010a	IPB003
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317010a	IPB003
Perchlorate	0.00	0	NA	17-MAR-10	per0317023a	IPB004
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317023a	IPB004
Perchlorate	0.00	0	NA	17-MAR-10	per0317036a	IPB005
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317036a	IPB005
Perchlorate	0.00	0	NA	17-MAR-10	per0317042a	IPB006
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317042a	IPB006
Perchlorate	0.00	0	NA	17-MAR-10	per0317049a	IPB007
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317049a	IPB007
Perchlorate	0.00	0	NA	17-MAR-10	per0317061a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	17-MAR-10	per0317061a	IPB008

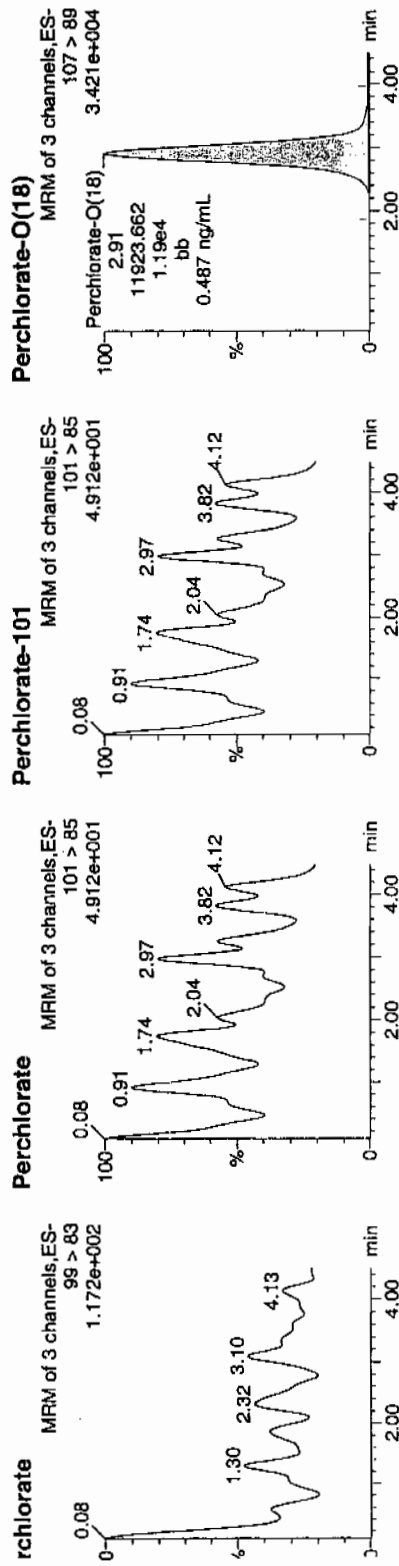
Identify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Sample: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Standard: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

File: per0317008a
Date: 17-Mar-2010
Time: 13:39:23
Sample: IPB002
Ratio: 1:1,A

02-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.91	11923.662	11923.662	bb			0.4874	97.47	-2.53	652.528	

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3/19/10

uantify Sample Report MassLynx 4.0 SP4
e GEL Group, LLC Analyst: Charlers W. Wilson

itaset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

st Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
infed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ime: per0317010a

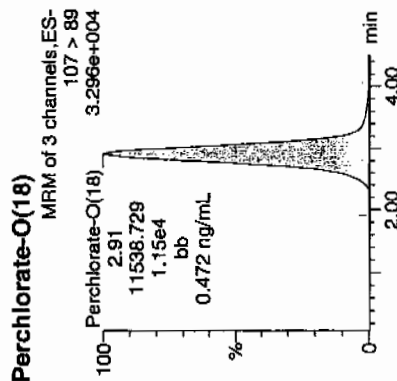
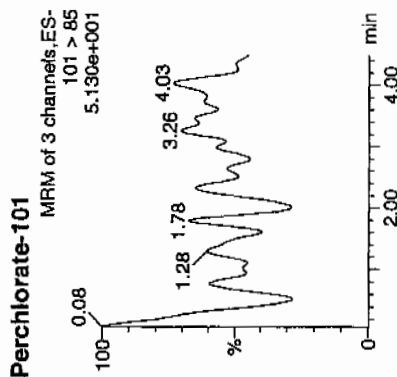
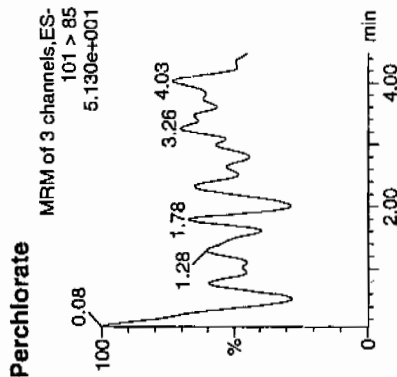
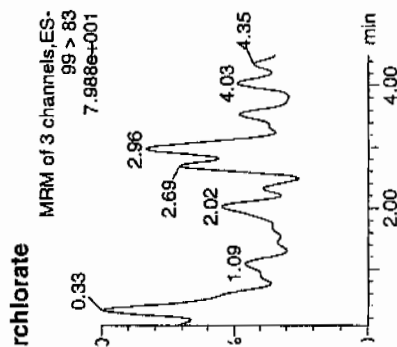
ite: 17-Mar-2010

ne: 13:54:29

: IPB003

al: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
003 Perchlorate	99 > 83											0.00
003 Perchlorate-101	101 > 85											
003 Perchlorate-O(18)	107 > 89	2.91	11538.729	11538.729	bb			0.4716	94.33	-5.67	2239.1...	

107
3/19/10

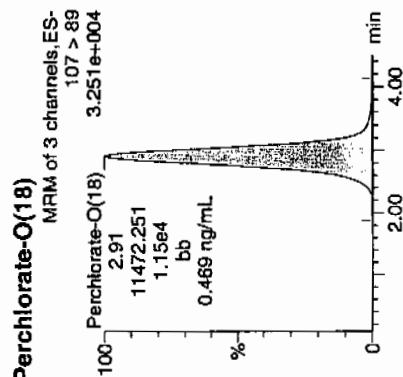
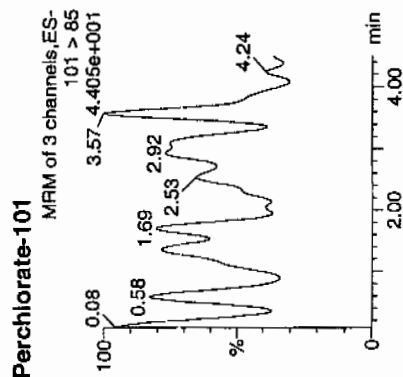
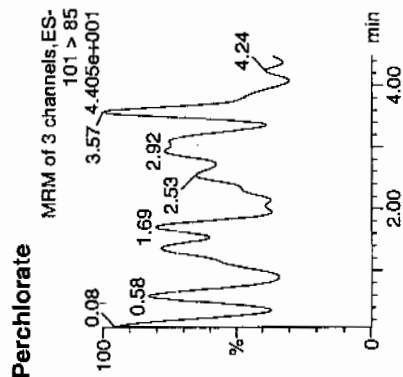
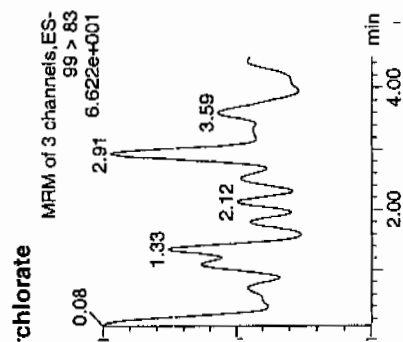
antify Sample Report MassLynx 4.0 SP4
 GEL Group, LLC Analyst: Charlers W. Wilson

asset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

it Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 ted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ne: per0317023a
 ie: 17-Mar-2010
 ne: 15:32:31
 IPB004
 I: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
004 Perchlorate	99 > 83											0.00
004 Perchlorate-101	101 > 85											
004 Perchlorate-O(18)	107 > 89	2.91	11472.251	11472.251	bb			0.4689	93.78	-6.22	11773...	

14077
 3/19/10

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Sample Name: per0317036a
Date: 17-Mar-2010
Time: 17:10:52
Sample: IPB005
Sample: al: 1:1,A

Sample Name: per0317036a

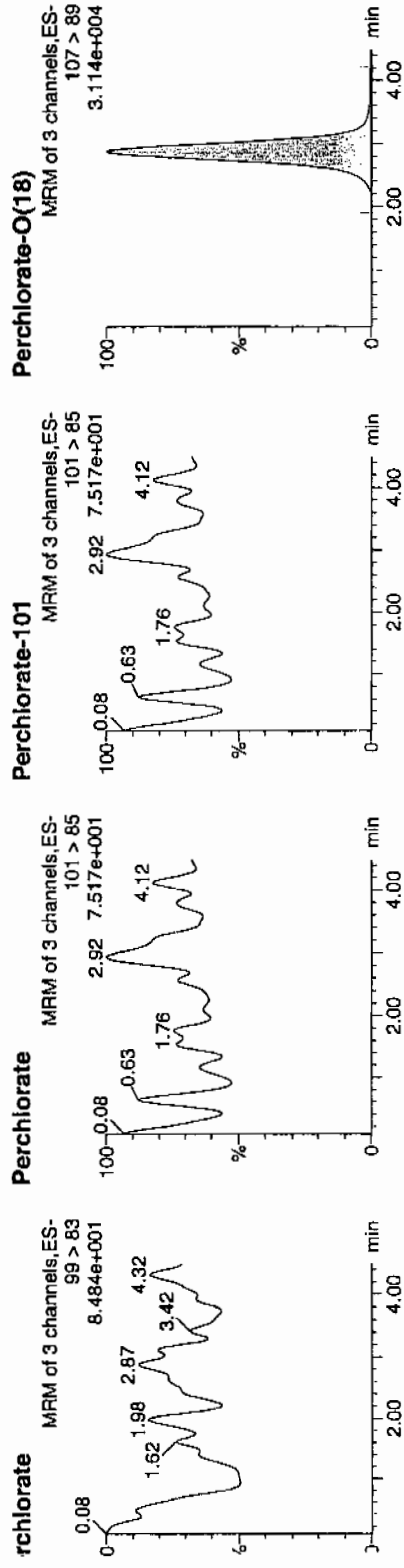
Date: 17-Mar-2010

Time: 17:10:52

Sample: IPB005

Sample: al: 1:1,A

68-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85	2.87	10827.487	10827.487	bb			0.4426	88.51	-11.49	1532.6...	
Perchlorate-O(18)	107 > 89											

3/19/10

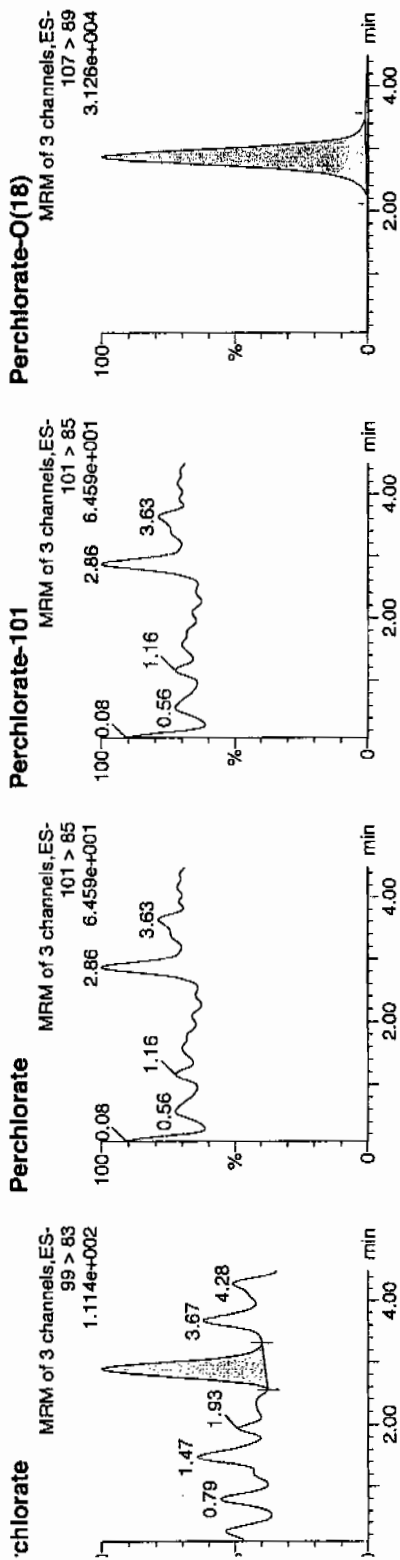
Antify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charfers W. Wilson

Path: C:\MassLynx\Perchlorate.PRO\per031710a.qld

File: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

File: per0317042a
Date: 17-Mar-2010
Time: 17:56:10
IPB006
L: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
006 Perchlorate	99 > 83	2.89	20.294	20.294	bb			0.0007			27.262	0.00
006 Perchlorate-101	101 > 85											
006 Perchlorate-O(18)	107 > 89	2.86	10574.932	10574.932	bb			0.4322	86.45	-13.55	1538.2...	

μA
3/18/10

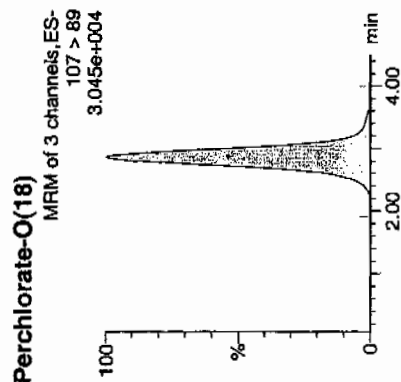
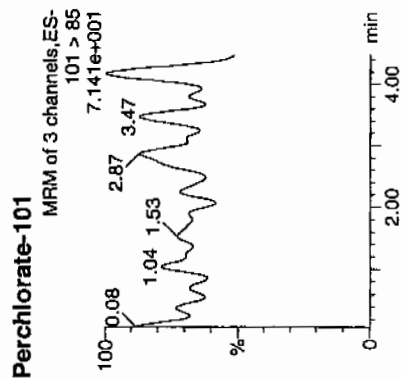
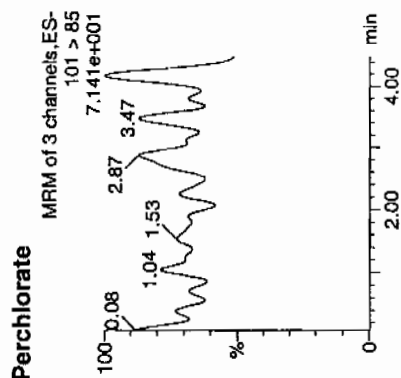
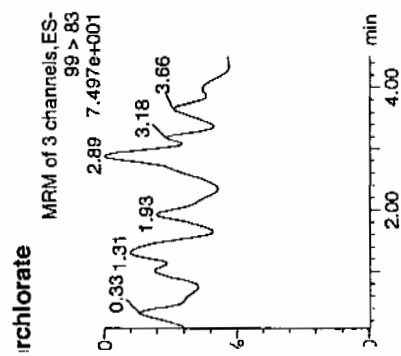
Identify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

List Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

File: per0317049a
Date: 17-Mar-2010
Time: 18:49:18
Operator: IPB007
Sample: 1:1,A

3/18/10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83											0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.86	10392.783	10392.783	bb			0.4248	84.96	-15.04	5888.9...	

4077
3/19/10

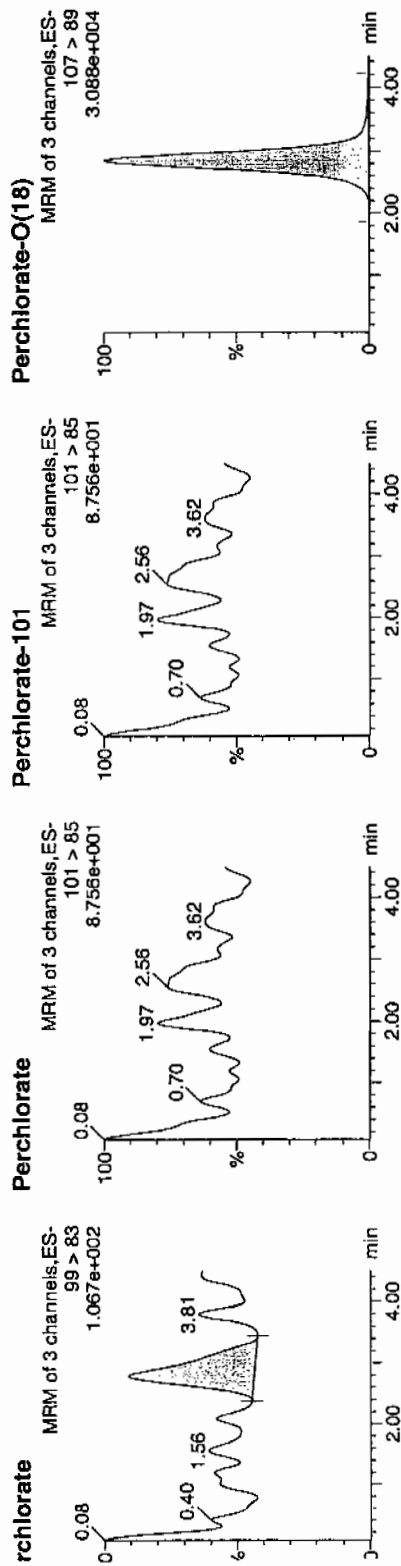
Identify Sample Report MassLynx 4.0 SP4
GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Sample Name: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Sample Date: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

File Name: per0317061a
Date: 17-Mar-2010
Time: 20:20:09
Sample: IPB008
Lot: 1:1,A

03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	2.79	22.842	22.842	bb			0.0008			6.118	0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.84	10598.528	10598.528	bb			0.4332	86.64	-13.36	1818.9...	

not
3/18/10

Nalib.ref

; Positive ion monoisotopic and average masses from solution
 ; of Nal/Rbi (2.0/0.05ug/ml) in 50/20 2-propanol/H2O.
 ; Most useful general purpose calibrant for all low
 ; MW applications, including MS/MS work.
 ; At high resolution, readily covers from m/z 50-2000.
 ; At reduced resolution, can be used to over m/z 3000.
 ; NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.

Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

QUANTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

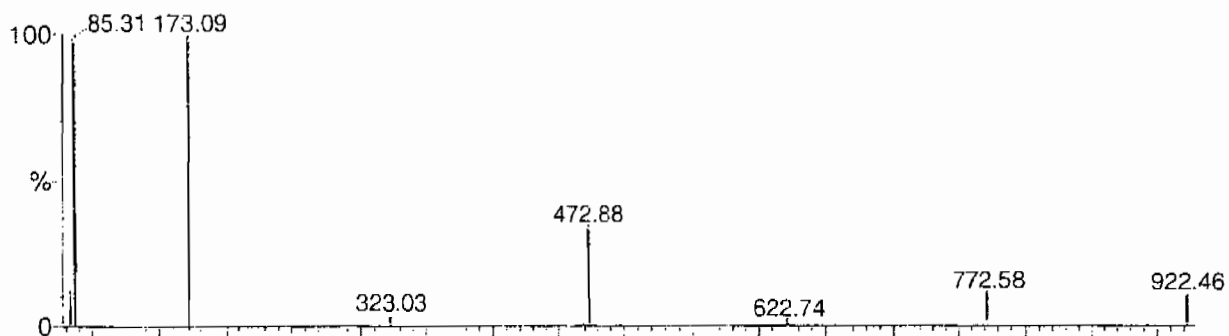
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

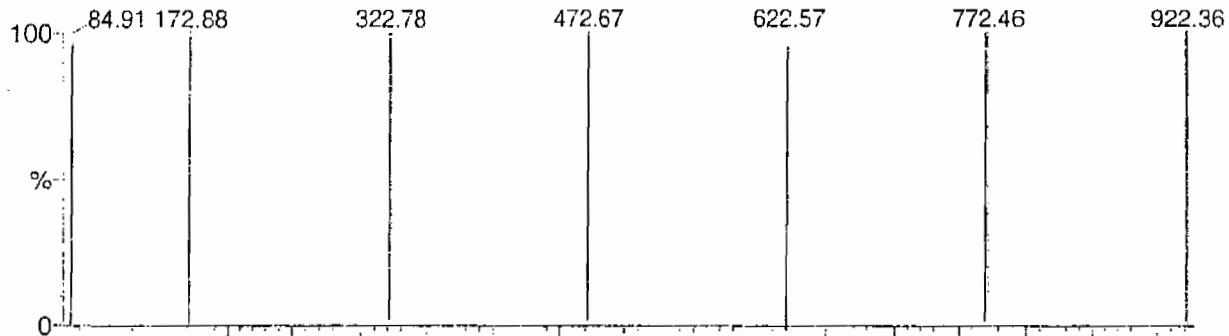
PEAKS HIGHLIGHTED BY CURV 01-09-08

Data file: STATMS1 - Uncalibrated

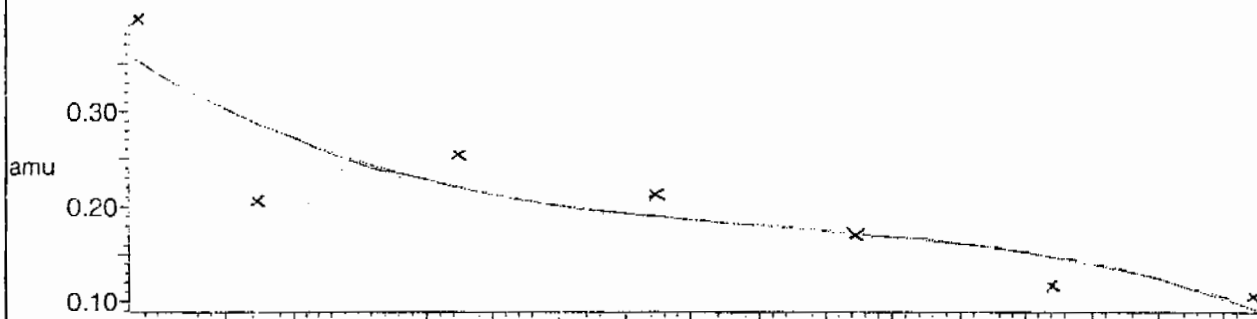
7 matches of 7 tested references



Reference file: Nairb

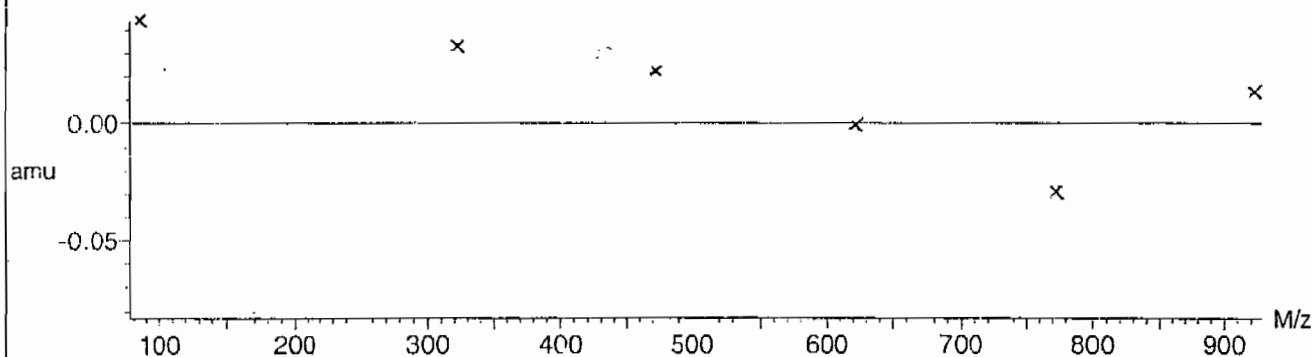


Mass difference (Raw - Ref mass)



Residuals

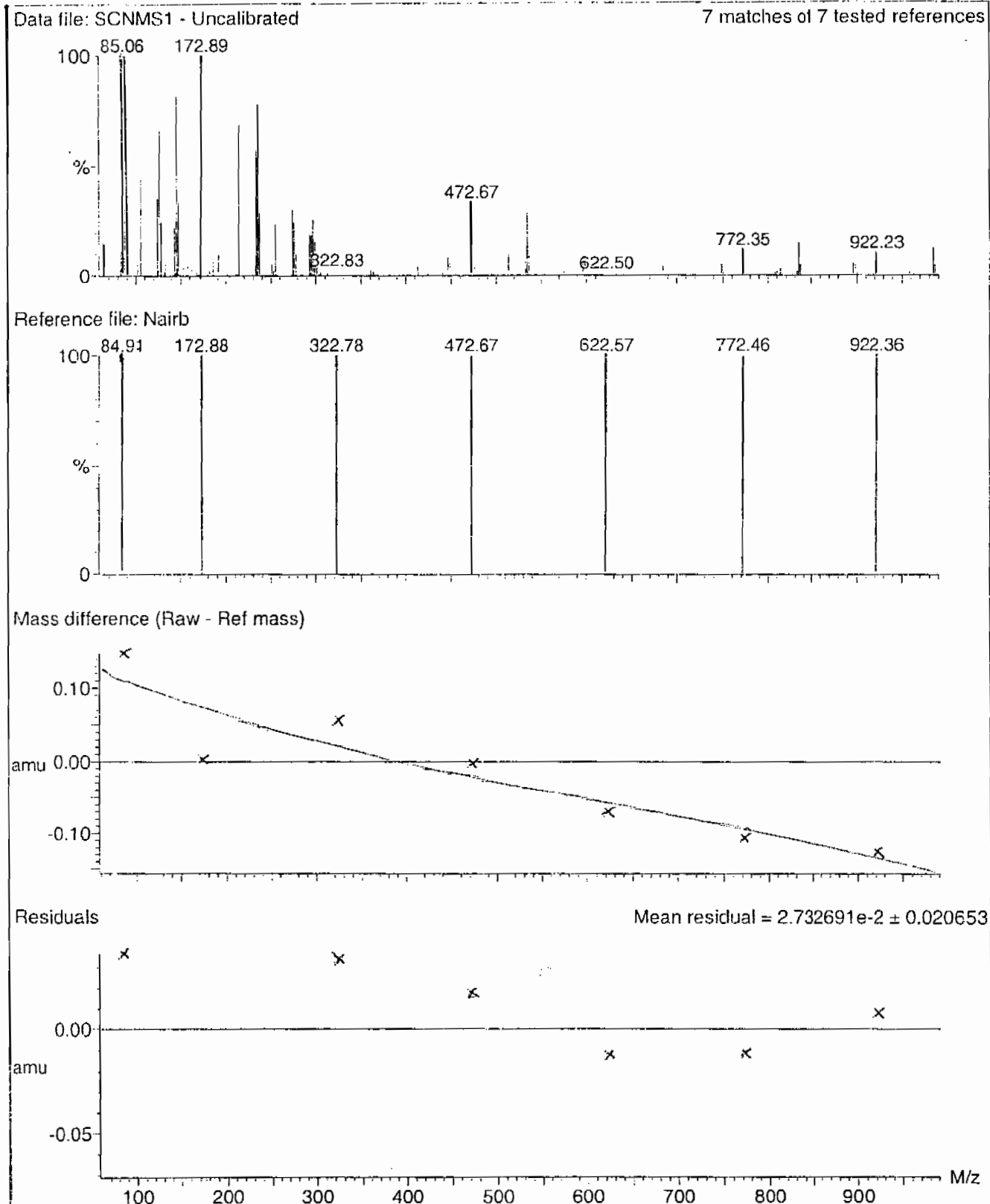
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

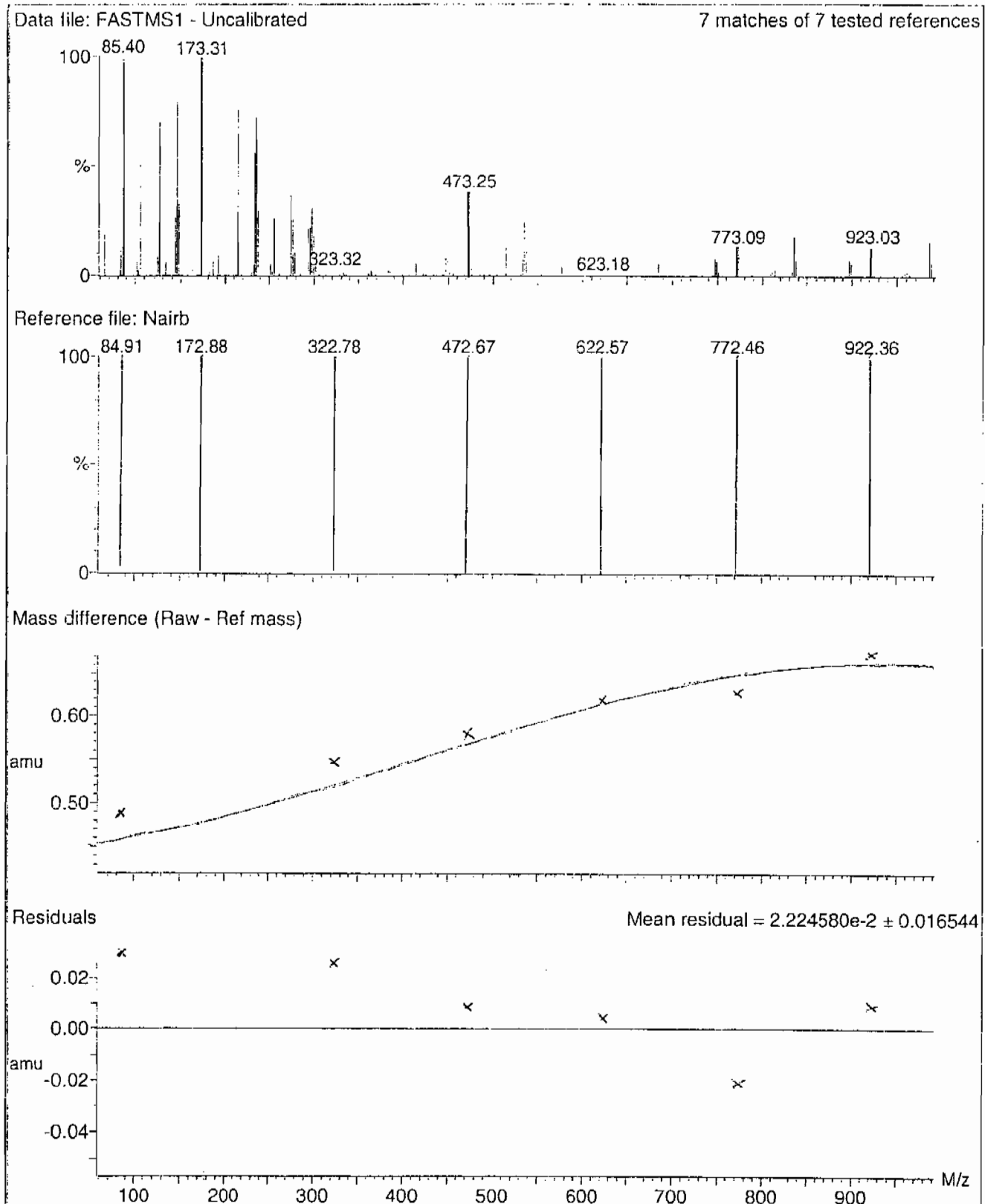
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

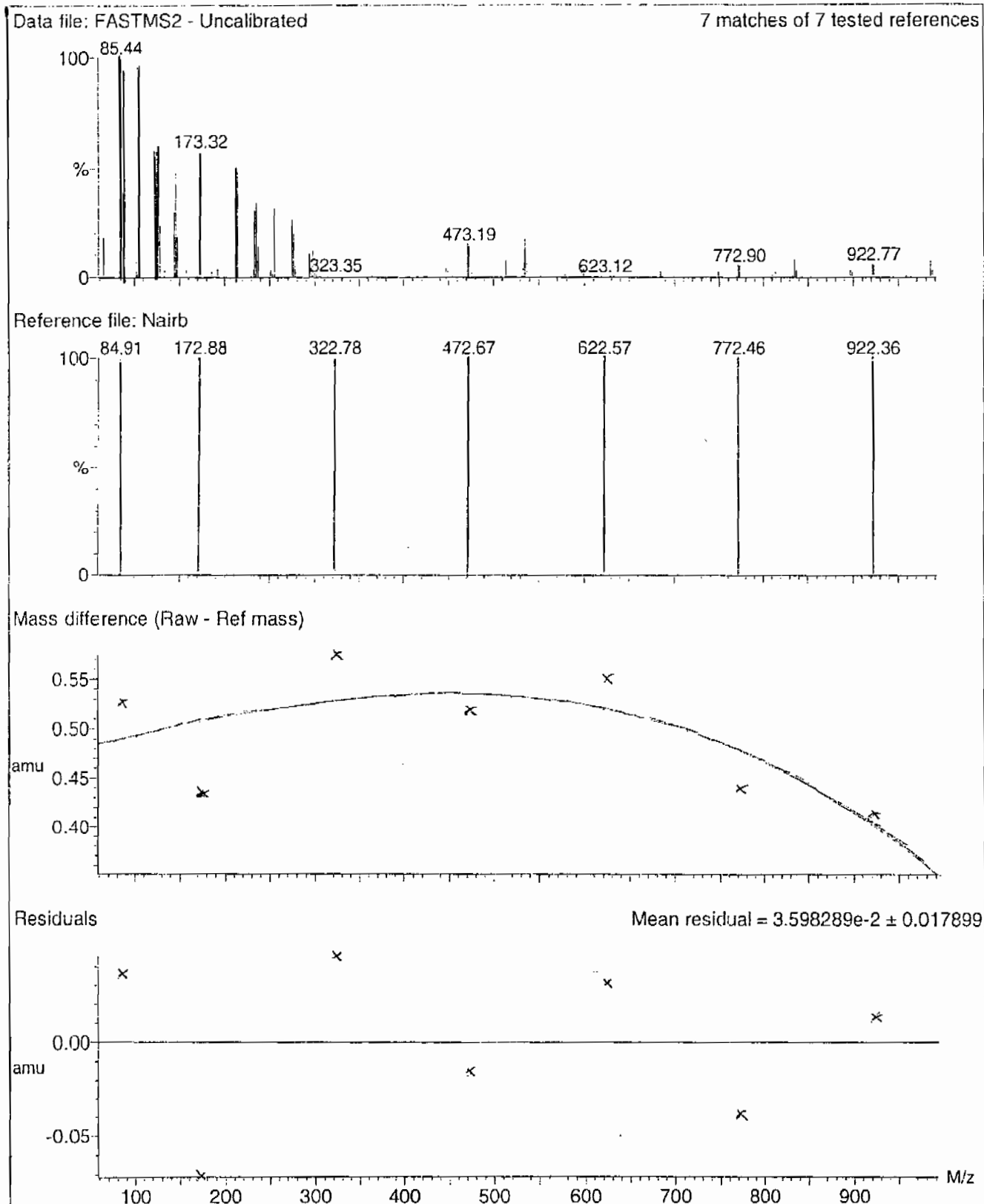
Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

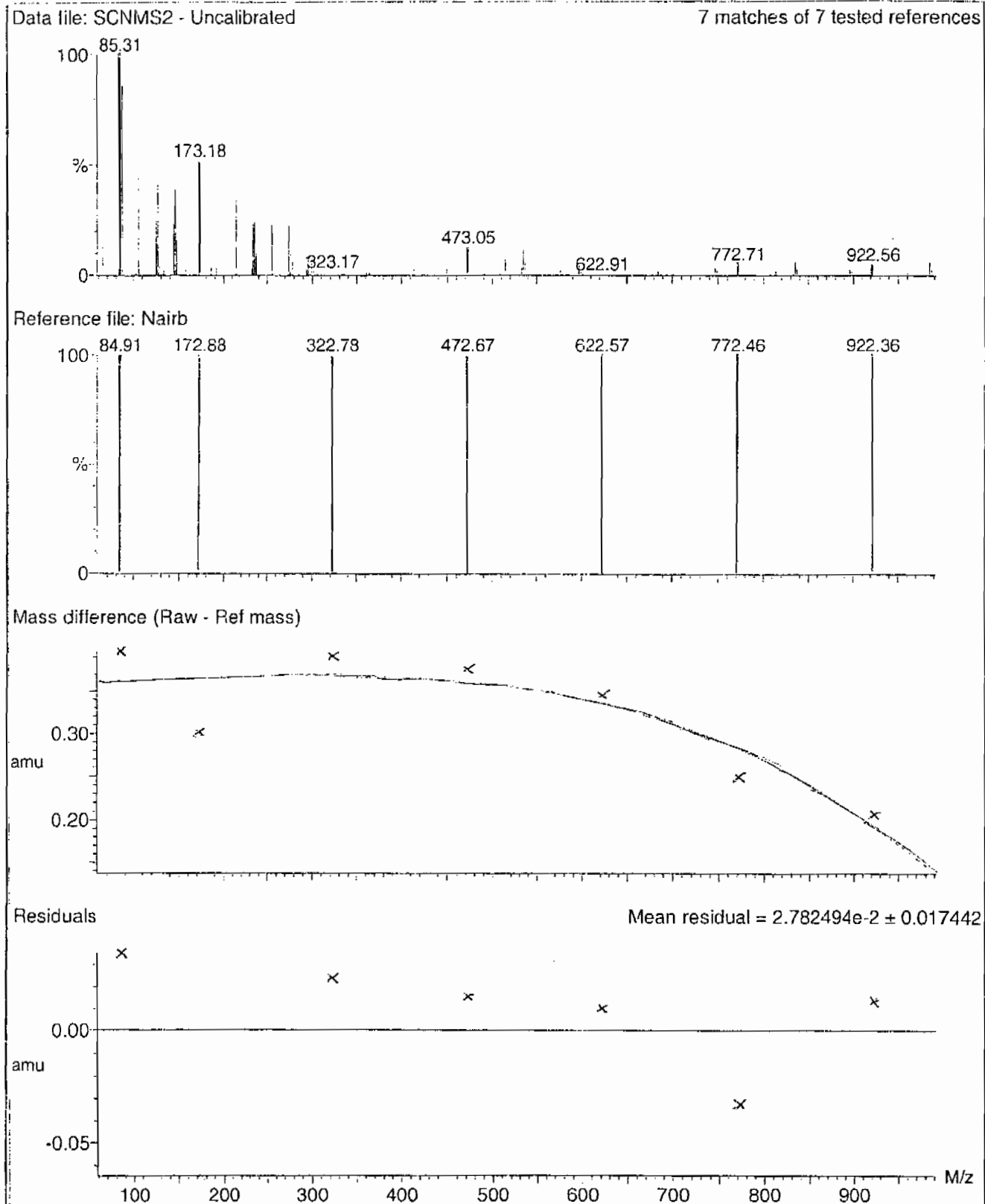
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



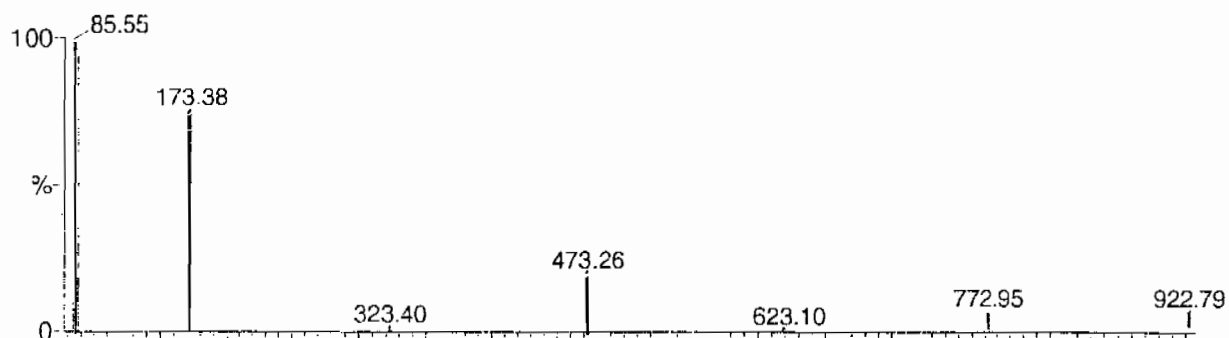
Calibration Report - MS2 Static

Page 1 of 1

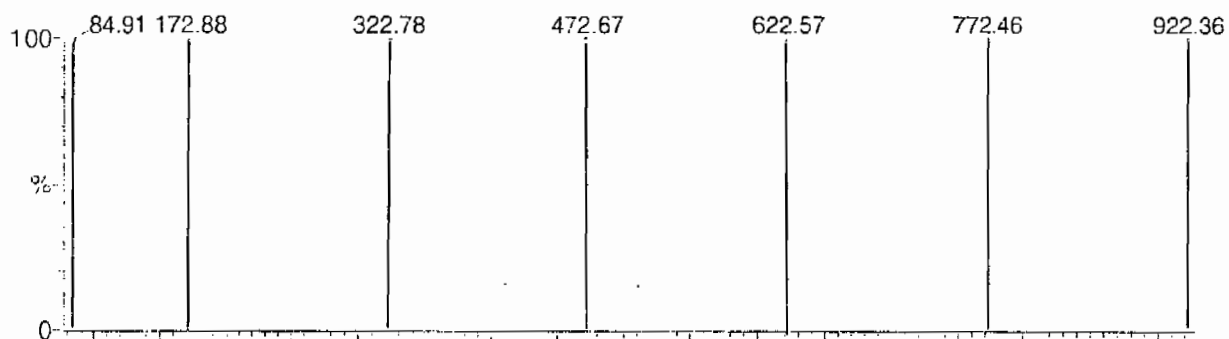
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

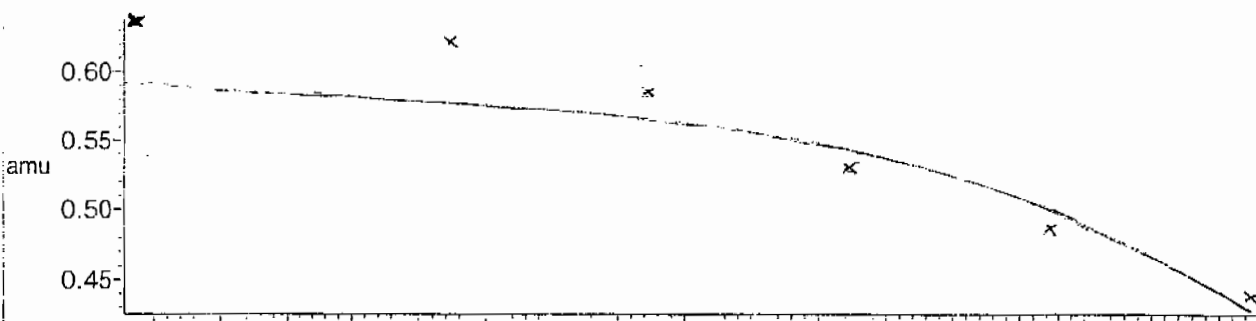
7 matches of 7 tested references



Reference file: Nairb

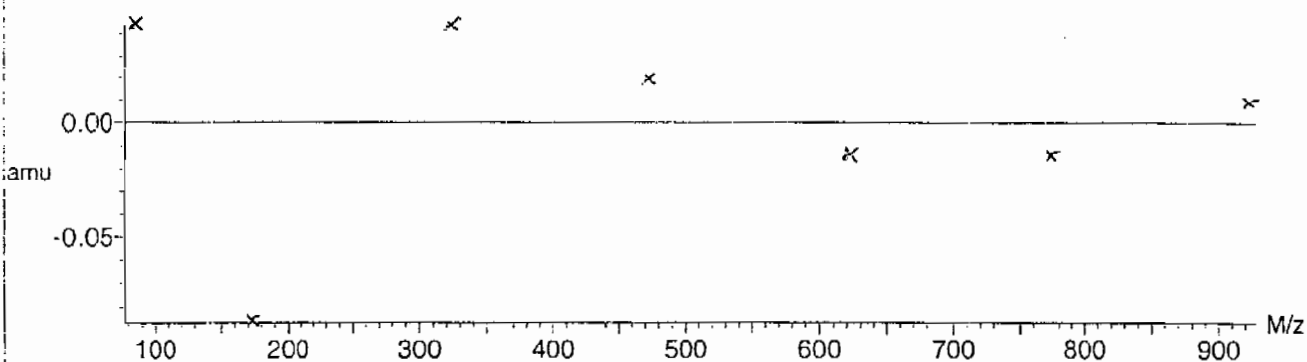


Mass difference (Raw - Ref mass)



Residuals

Mean residual = $3.295980 \times 10^{-2} \pm 0.025603$



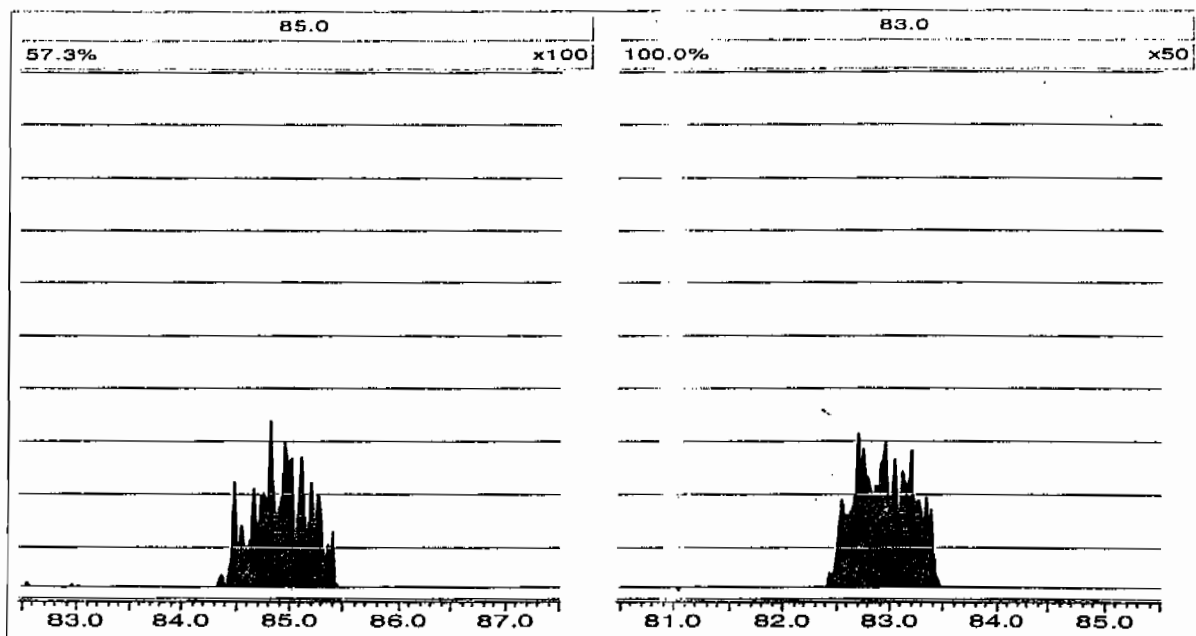
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

File: C:\MassLynx\Perchlorate.PROVACQUDB\Perchlorate.IPR

Printed: Wednesday, March 17, 2010 09:48:37 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0317006a	17-MAR-10	11903				
Lower Area Limit			5951.5				
Upper Area Limit			23806				
1202056513	per0317043a	17-MAR-10 18:03	10966.9	2.86	2.86177	1.001	
1202056514	per0317044a	17-MAR-10 18:11	10172	2.86	2.87413	1.005	
1202056517	per0317045a	17-MAR-10 18:18	10631.2	2.9	2.91145	1.004	
248000001	per0317046a	17-MAR-10 18:26	10425.2	2.86	2.87415	1.005	
248000002	per0317047a	17-MAR-10 18:34	10424.6	2.86	2.87415	1.005	
248000003	per0317051a	17-MAR-10 19:04	10273.2	2.86	2.87415	1.005	
248000004	per0317052a	17-MAR-10 19:12	9930.38	2.86	2.88648	1.009	
248000005	per0317053a	17-MAR-10 19:19	10280.4	2.86	2.86168	1.001	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8489

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000001

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 95.2

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:26	per0317046a
14797-73-0	Perchlorate-101	.525	2.1	0.525	ug/kg	U	1	17-MAR-10 18:26	per0317046a
	Perchlorate-O(18)			4.48	ug/kg		1	17-MAR-10 18:26	per0317046a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
Aliquot

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317046a

Date: 17-Mar-2010

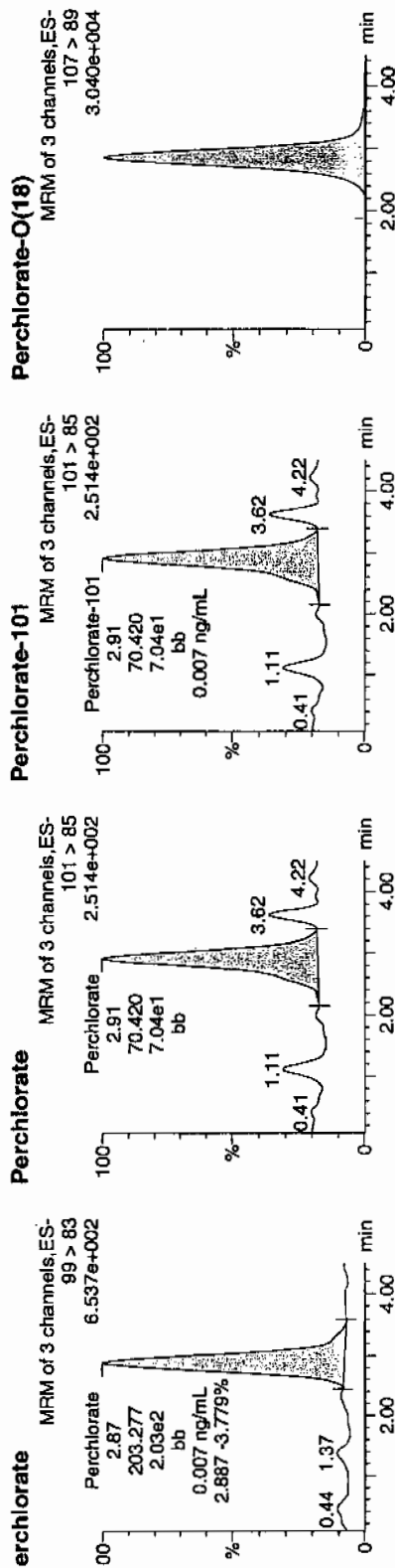
Time: 18:26:29

ID: 248000001

Label: 2:1,D

03-18-10

LAU 1958118 | 5000 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	2.87	203.277	203.277	bb			0.0067			74.185	2.89
Perchlorate-101	101 > 85	2.91	70.420	70.420	bb			0.0070			18.849	
Perchlorate-O(18)	107 > 89	2.86	10425.158	10425.158	bb			0.4261	85.22	-14.78	3005.3...	

4/17/10
3/18/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8486

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000002

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 96.6

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:34	per0317047a
14797-73-0	Perchlorate-101	.518	2.07	0.518	ug/kg	U	1	17-MAR-10 18:34	per0317047a
	Perchlorate-O(18)			4.41	ug/kg		1	17-MAR-10 18:34	per0317047a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Identify Sample Report MassLynx 4.0 SP4

the GEL Group, LLC Analyst: Charlers W. Wilson

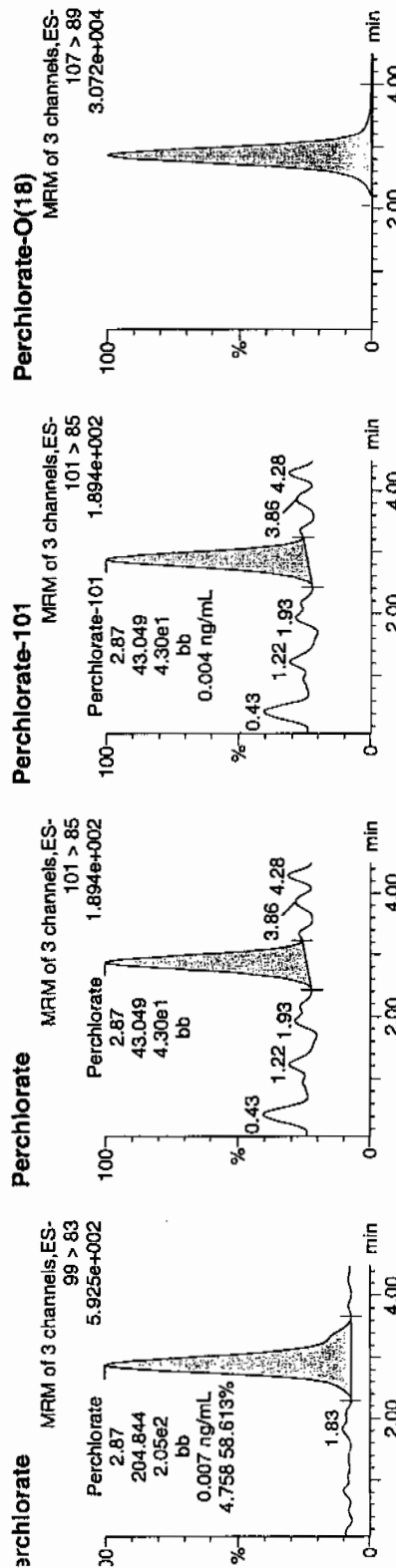
atset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

st Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317047a
ate: 17-Mar-2010
me: 18:34:00
i: 248000002
ial: 2:1,E

03-0-10

1221958418 | 3000 | 11



Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
Perchlorate	99 > 83	2.87	204.844	204.844	bb			0.0068				4.76
Perchlorate-101	101 > 85	2.87	43.049	43.049	bb			0.0043				24.675
Perchlorate-O(18)	107 > 89	2.86	10424.614	10424.614	bb			0.4261	85.22	-14.78		1728.4...

0.004
2.00500
107
3/19/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 958915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-8487
 Date Received: 25-FEB-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 2480000003
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 94.6

CAS No.	Analyte [^]	MDL	RL	Conc.*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:04	per0317051a
14797-73-0	Perchlorate-101	.529	2.11	0.529	ug/kg	U	1	17-MAR-10 19:04	per0317051a
	Perchlorate-O(18)			4.44	ug/kg		1	17-MAR-10 19:04	per0317051a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

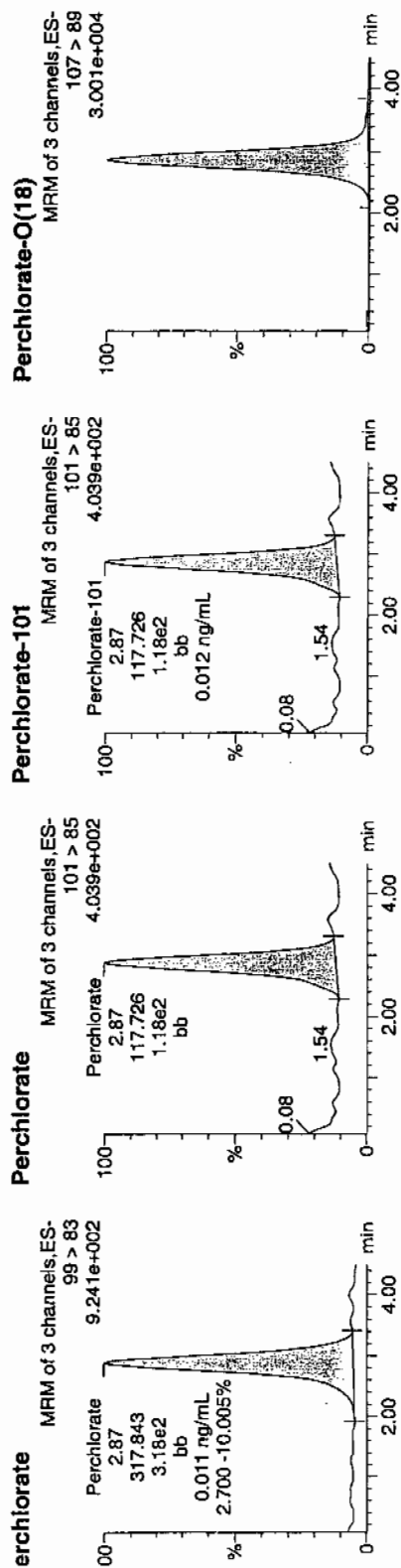
ame: per0317051a

ate: 17-Mar-2010

Time: 19:04:22

J: 248000003

iat: 2:1,F



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
18000003	Perchlorate	99 > 83	2.87	317.843	bb			0.0105			14.946	2.70
18000003	Perchlorate-101	101 > 85	2.87	117.726	bb			0.0118			71.085	
18000003	Perchlorate-O(18)	107 > 89	2.86	10273.244	bb			0.4199	83.98	-16.02	1255.7...	

07/19/20
Lester

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8462

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000004

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 98.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:12	per0317052a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	17-MAR-10 19:12	per0317052a
	Perchlorate-O(18)			4.12	ug/kg		1	17-MAR-10 19:12	per0317052a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Quantify Sample Report MassLynx 4.0 SP4
 the GEL Group, LLC Analyst: Charlers W. Wilson

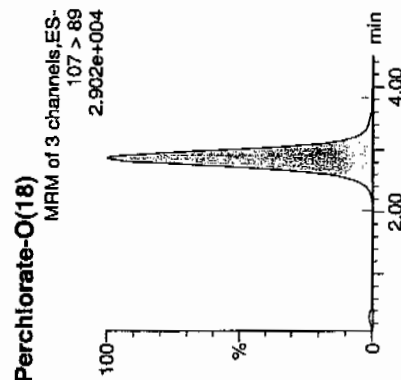
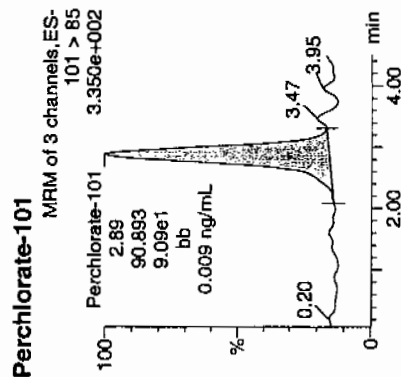
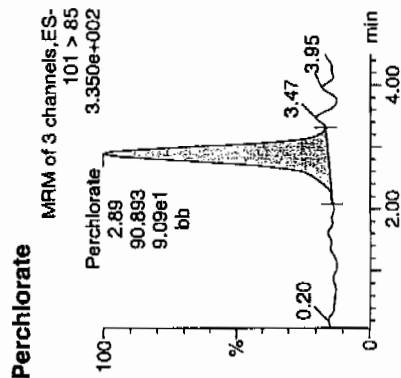
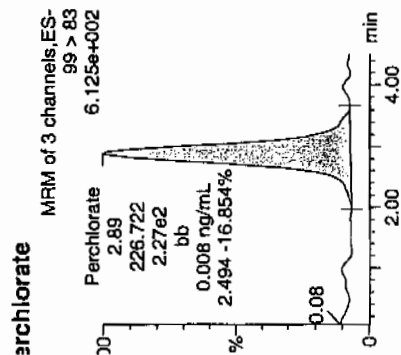
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ist Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 'nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317052a
 ate: 17-Mar-2010
 me: 19:12:05
 i: 248000004
 ial: 2:2A

23-18-10

1222-1958118 | 5072 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
18000004	Perchlorate	2.89	226.722	226.722	bb			0.0075			26.804	2.49
18000004	Perchlorate-101	2.89	90.893	90.893	bb			0.0091			8.900	
18000004	Perchlorate-O(18)	2.86	9930.383	9930.383	bb			0.4059	81.18	-18.82	3025.5...	

11/17
 3/6/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 958915

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-8463

Date Received: 25-FEB-10

GEL Job No (SDG): 10-2025-1

GEL Sample ID: 248000005

Date Filtered: 10-MAR-10

Injection Volume (uL): 20

%Solids: 97.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate Isotope Ratio						1	17-MAR-10 19:19	per0317053a
14797-73-0	Perchlorate-101	.514	2.06	0.514	ug/kg	U	1	17-MAR-10 19:19	per0317053a
	Perchlorate-O(18)			4.32	ug/kg		1	17-MAR-10 19:19	per0317053a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

uantify Sample Report MassLynx 4.0 SP4
he GEL Group, LLC Analyst: Charlers W. Wilson

ataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

ist Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
nted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317053a

ate: 17-Mar-2010

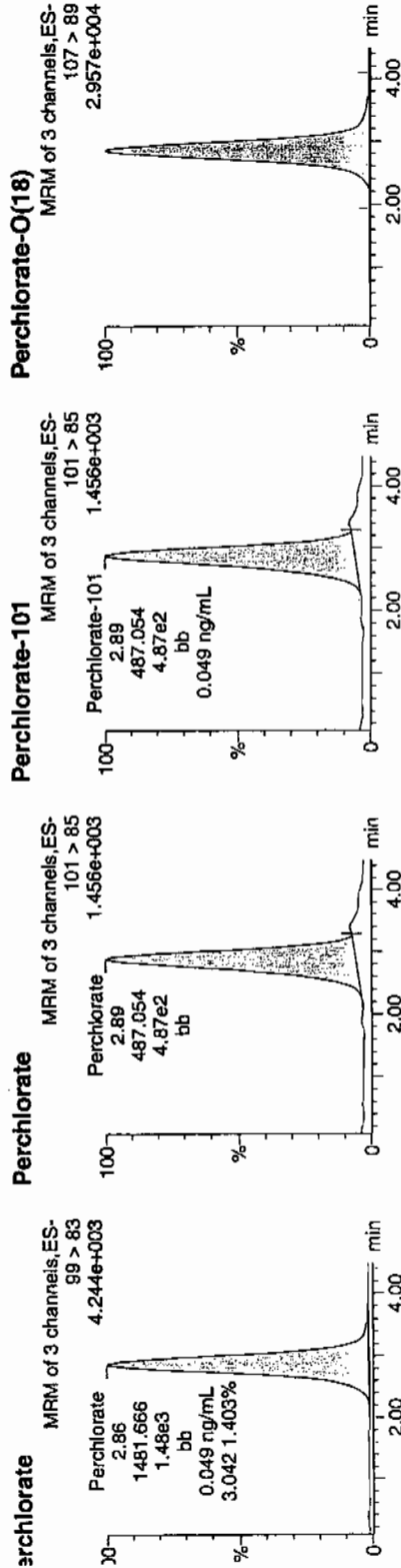
me: 19:19:38

i: 248000005

al: 2:2,B

623-18-10

LANC 1953713 | 3000 | 11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
18000005	99 > 83	2.86	1481.666	1481.666	bb			0.0491	1147.9...	3.04		
18000005	101 > 85	2.89	487.054	487.054	bb			0.0487	41.524			
18000005	107 > 89	2.86	10280.441	10280.441	bb			0.4202	84.04	-15.96	299.841	

1077
3/18/10

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-2025-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 17-MAR-10

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parname Perchlorate
 Coefficient of Determination:
 Calibration Curve: 30166.58
 Response Type: External Standard
 Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 17-MAR-10

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 9997.566

Response Type: External Standard

Curve Type: RF

Quantify Calibration Report MassLynx 4.0 SP4

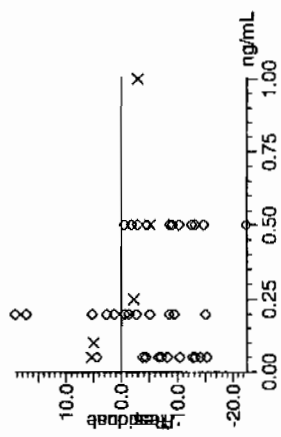
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

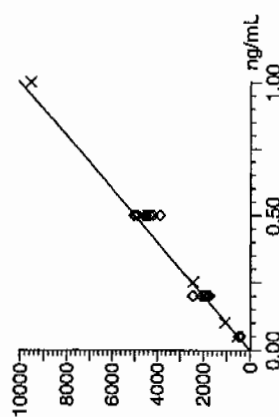
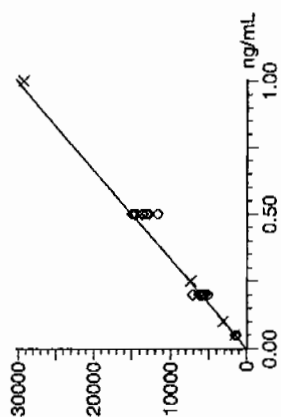
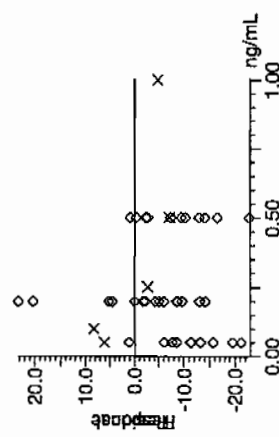
Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per031710a.mdb 18 Mar 2010 06:41:55
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per031710a.cdb 18 Mar 2010 06:42:10

Compound name: Perchlorate ✓
Response Factor: 30166.6
RF SD: 1452.67, % Relative SD: 4.81549
Response type: External Std, Area
Curve type: RF ✓



Compound name: Perchlorate-101 ✓
Response Factor: 9997.56
RF SD: 682.129, % Relative SD: 6.82295
Response type: External Std, Area
Curve type: RF ✓



3/18/10

3/19/10

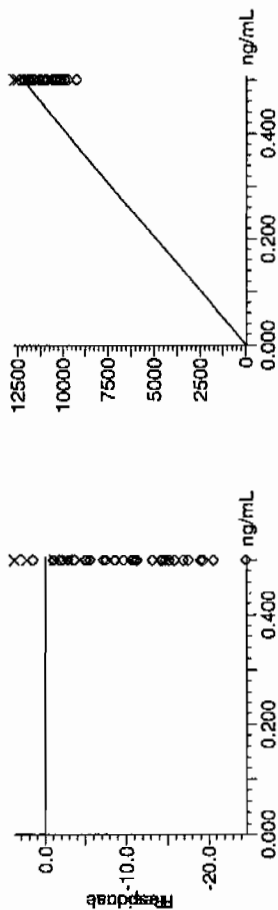
Quantify Calibration Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charlers W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

ast Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
rinted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

omound name: Perchlorate-O(18) ✓
esponse Factor: 24465.9 ✓
RF SD: 711.792, % Relative SD: 2.90933 ✓
esponse type: External Std, Area
urve type: RF ✓



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.16	17-MAR-10 13:46	per0317009a
Perchlorate Isotope Ratio		3.03		17-MAR-10 13:46	per0317009a
Perchlorate-101	.5	.49	97.84	17-MAR-10 13:46	per0317009a

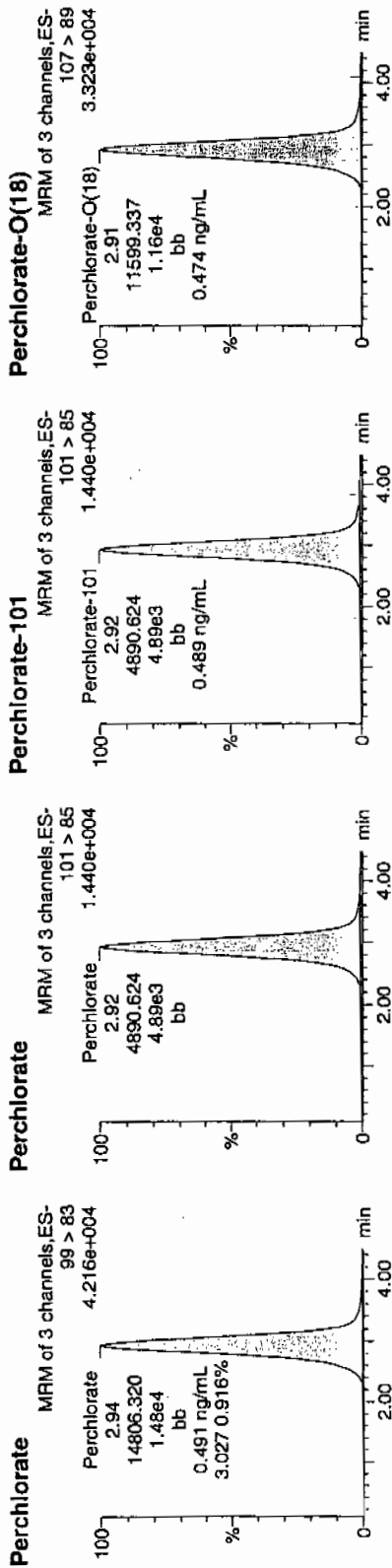
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317009a
Date: 17-Mar-2010
Time: 13:46:56
ID: WCL100309-06ICV
Vial: 1:2,A

*Pure
and
03-18-10*



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	pg/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100309-06ICV	Perchlorate	99 > 83	2.94	14806.320	14806.320	bb			0.4908	98.16	-1.84	874.258	3.03
WCL100309-06ICV	Perchlorate-101	101 > 85	2.92	4890.624	4890.624	bb			0.4892	97.84	-2.16	367.271	
WCL100309-06ICV	Perchlorate-O(18)	107 > 89	2.91	11599.337	11599.337	bb			0.4741	94.82	-5.18	1729.0...	

$$\frac{14806.320}{30166.6} = 0.4908$$

*WCL
3/18/10*

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-2025-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.48	17-MAR-10 15:24	per0317022a
Perchlorate Isotope Ratio		2.98		17-MAR-10 15:24	per0317022a
Perchlorate-101	.5	.5	100.88	17-MAR-10 15:24	per0317022a
Perchlorate	.5	.49	97.11	17-MAR-10 17:03	per0317035a
Perchlorate Isotope Ratio		2.94		17-MAR-10 17:03	per0317035a
Perchlorate-101	.5	.5	99.67	17-MAR-10 17:03	per0317035a
Perchlorate	.5	.43	85.3	17-MAR-10 18:41	per0317048a
Perchlorate Isotope Ratio		2.99		17-MAR-10 18:41	per0317048a
Perchlorate-101	.5	.43	86	17-MAR-10 18:41	per0317048a
Perchlorate	.5	.45	90.94	17-MAR-10 20:12	per0317060a
Perchlorate Isotope Ratio		3.15		17-MAR-10 20:12	per0317060a
Perchlorate-101	.5	.44	87.13	17-MAR-10 20:12	per0317060a

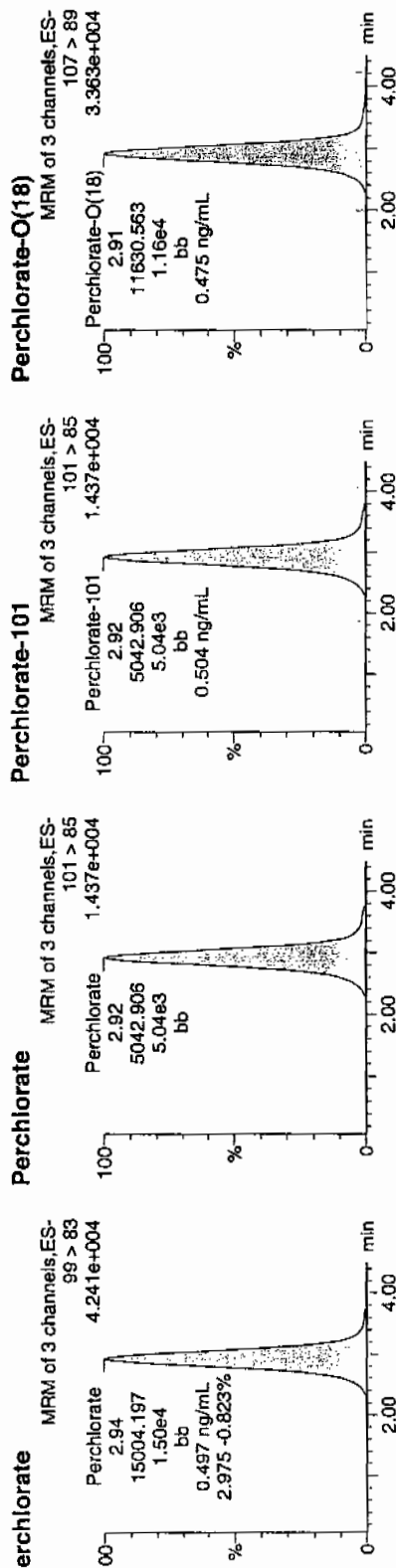
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample Name: per0317022a
Date: 17-Mar-2010
Time: 15:24:59
File: WCL100309-06CCV
Label: 1:2,A

Pure and
03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
CL100309-06CCV	Perchlorate	99 > 83	2.94	15004.197	bb			0.4974	99.48	-0.52	18691...	2.98
CL100309-06CCV	Perchlorate-101	101 > 85	2.92	5042.906	bb			0.5044	100.88	0.88	3910.1...	
CL100309-06CCV	Perchlorate-O(18)	107 > 89	2.91	11630.563	bb			0.4754	95.08	-4.92	2192.8...	

107
3/19/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample: per0317035a

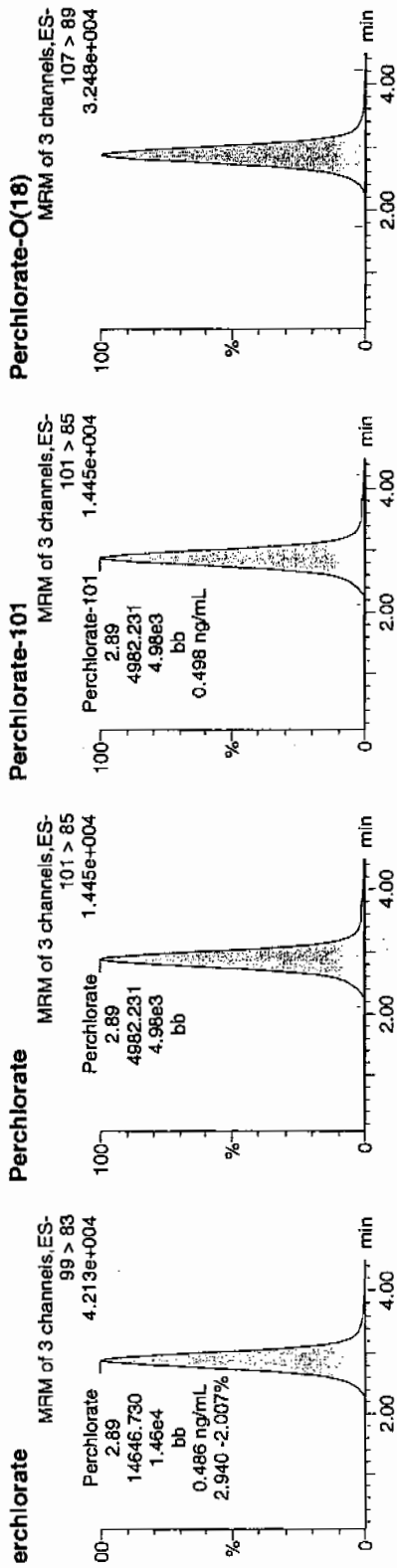
Date: 17-Mar-2010

Time: 17:03:19

File: WCL100309-06CCV

Label: 1:2,A

Run
03-18-10



Name	Trace	RT	Area	Response	Flags	Mod. Date	Mod. Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-06CCV	99 > 83	2.89	14646.730	14646.730	bb			0.4855	97.11	-2.89	1013.0...	2.94
CL100309-06CCV	101 > 85	2.89	4982.231	4982.231	bb			0.4983	99.67	-0.33	691.588	
CL100309-06CCV	107 > 89	2.87	11312.128	11312.128	bb			0.4624	92.47	-7.53	2298.4...	

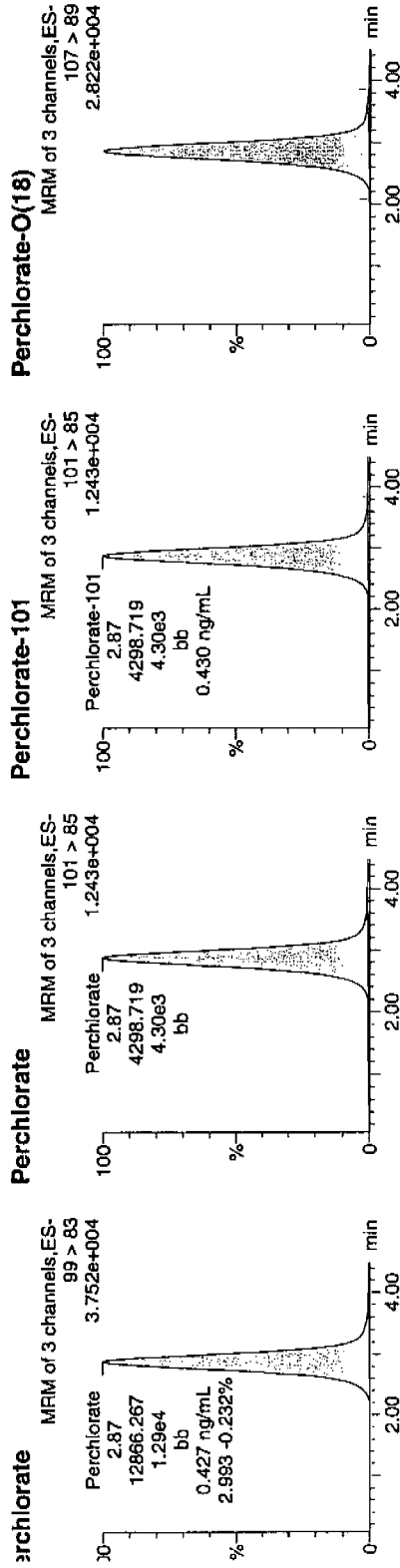
uantify Sample Report MassLynx 4.0 SP4
ne GEL Group, LLC Analyst: Charlers W. Wilson

ataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

ist Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
inted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317048a
ate: 17-Mar-2010
me: 18:41:31
: WCL100309-06CCV
al: 1:2,A

QMS and 03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-06CCV	99 > 83	2.87	12866.267	12866.267	bb			0.4265	85.30	-14.70	1582.9...	2.99
CL100309-06CCV	101 > 85	2.87	4298.719	4298.719	bb			0.4300	86.00	-14.00	2119.9...	
CL100309-06CCV	107 > 89	2.86	9874.795	9874.795	bb			0.4036	80.72	-19.28	3979.0...	

3/19/10

Quantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

ast Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time

rinted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317060a

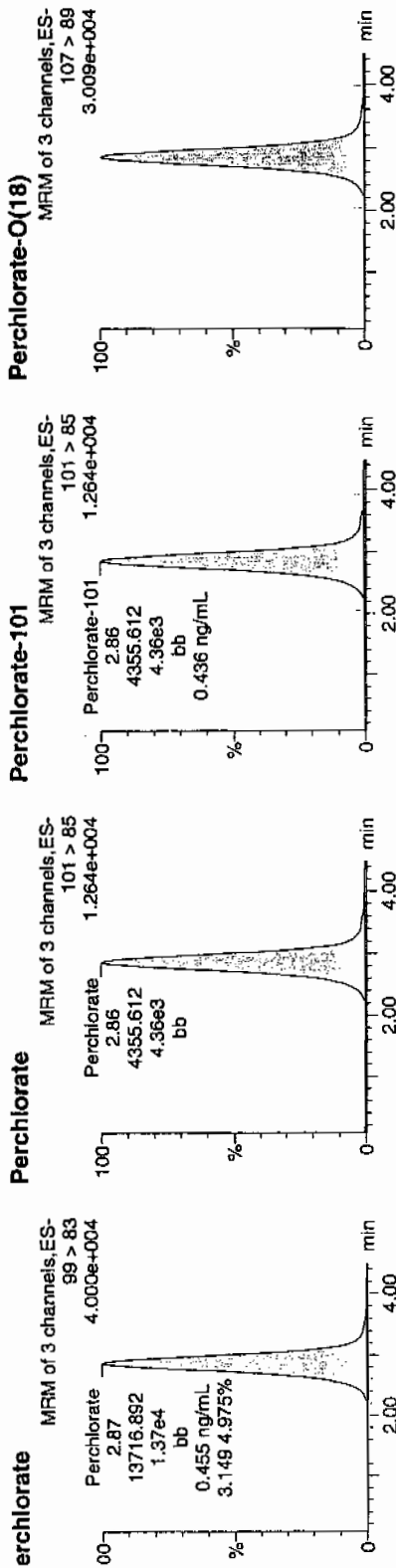
ate: 17-Mar-2010

ime: 20:12:22

); WCL100309-06CCV

ial: 1:2,A

*Per
203-18-10*



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-06CCV	Perchlorate	2.87	13716.892	13716.892	bb			0.4547	90.94	-9.06	1028.1...	3.15
CL100309-06CCV	Perchlorate-101	2.86	4355.612	4355.612	bb			0.4357	87.13	-12.87	1252.0...	
CL100309-06CCV	Perchlorate-O(18)	2.85	10377.737	10377.737	bb			0.4242	84.83	-15.17	6302.5...	

*not
3/18/10*

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025-1

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	104.44	17-MAR-10 14:02	per0317011a
Perchlorate Isotope Ratio		3.11		17-MAR-10 14:02	per0317011a
Perchlorate-101	.05	.05	101.19	17-MAR-10 14:02	per0317011a
Perchlorate	.05	.05	95.63	17-MAR-10 15:40	per0317024a
Perchlorate Isotope Ratio		3.07		17-MAR-10 15:40	per0317024a
Perchlorate-101	.05	.05	93.85	17-MAR-10 15:40	per0317024a
Perchlorate	.05	.05	91.8	17-MAR-10 17:18	per0317037a
Perchlorate Isotope Ratio		3.19		17-MAR-10 17:18	per0317037a
Perchlorate-101	.05	.04	86.81	17-MAR-10 17:18	per0317037a
Perchlorate	.05	.04	84.73	17-MAR-10 18:56	per0317050a
Perchlorate Isotope Ratio		3.18		17-MAR-10 18:56	per0317050a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2025-1

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	80.5	17-MAR-10 18:56	per0317050a
Perchlorate	.05	.04	89.56	17-MAR-10 20:27	per0317062a
Perchlorate Isotope Ratio		3.04		17-MAR-10 20:27	per0317062a
Perchlorate-101	.05	.04	88.78	17-MAR-10 20:27	per0317062a

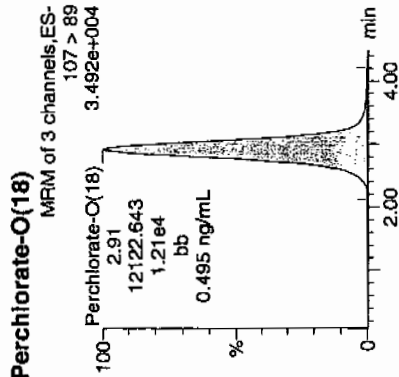
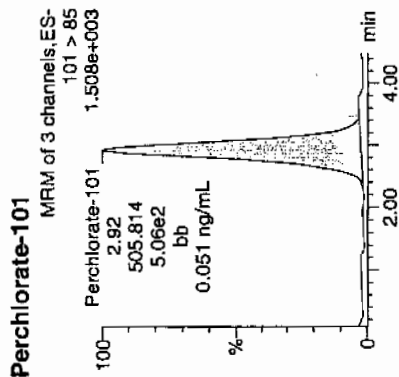
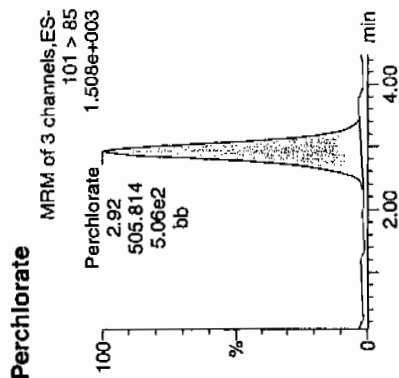
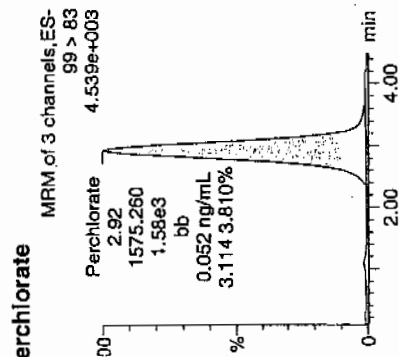
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample Name: per0317011a
Date: 17-Mar-2010
Time: 14:02:01
File: WCL100309-07CRI
Label: 1:2,B

*Perp
and
03-18-10*



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-07CRI	Perchlorate	99 > 83	2.92	1575.260	bb			0.0522	104.44	4.44	674.497	3.11
CL100309-07CRI	Perchlorate-101	101 > 85	2.92	505.814	bb			0.0506	101.19	1.19	125.982	
CL100309-07CRI	Perchlorate-O(18)	107 > 89	2.91	12122.643	bb			0.4955	99.10	-0.90	2232.7...	

$$\frac{1575.260}{30166.6} = 0.0522$$

*1477
3/18/10*

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample Name: per0317024a

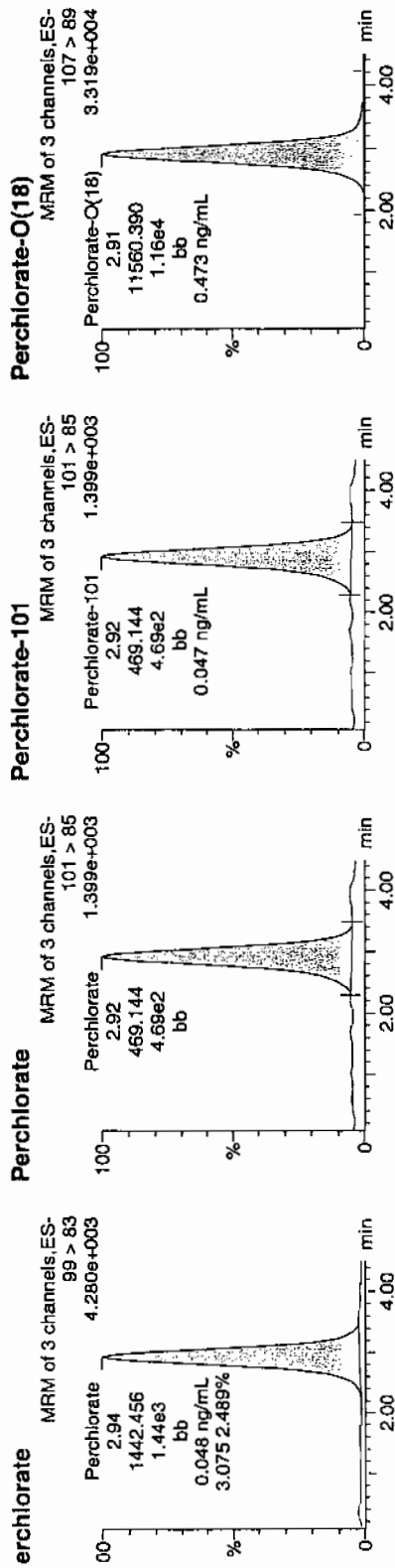
Date: 17-Mar-2010

Time: 15:40:03

File: WCL100309-07CRI

Label: 1:2,B

Pure
0.047
0.0473 ng/mL



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
'CL100309-07CRI	Perchlorate	2.94	1442.456	1442.456	bb			0.0478	95.63	-4.37	418.773	3.07
'CL100309-07CRI	Perchlorate-101	2.92	469.144	469.144	bb			0.0469	93.85	-6.15	48.974	
'CL100309-07CRI	Perchlorate-O(18)	2.91	11560.390	11560.390	bb			0.4725	94.50	-5.50	2604.3...	

3/18/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample: per0317037a

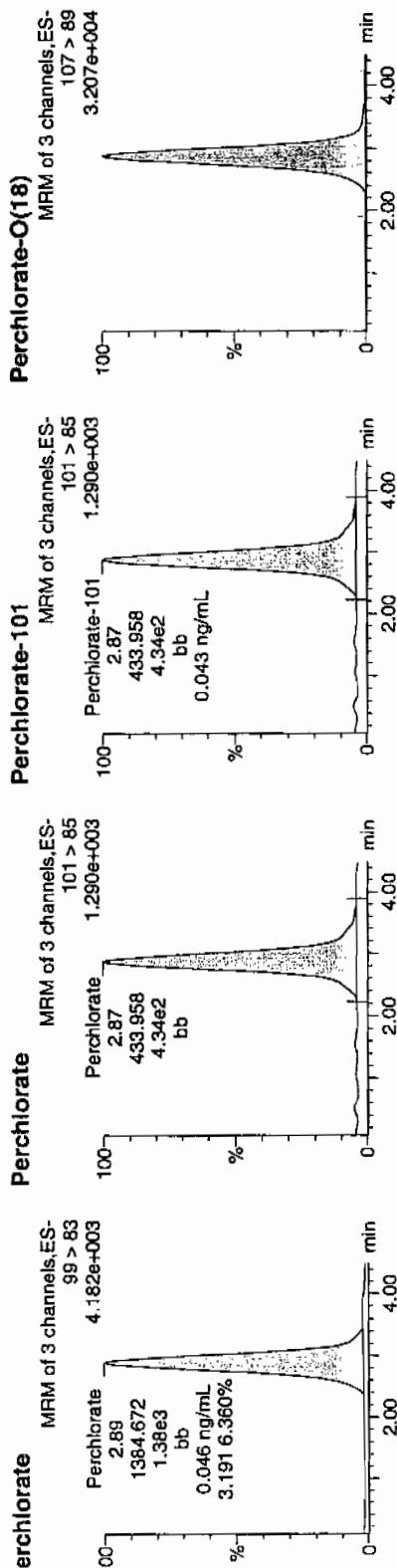
Date: 17-Mar-2010

Time: 17:18:24

Job: WCL100309-07CRI

File: 1;2,B

Per
WCL
03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-07CRI	Perchlorate	2.89	1384.672	1384.672	bb			0.0459	91.80	-8.20	471.637	3.19
CL100309-07CRI	Perchlorate-101	2.87	433.958	433.958	bb			0.0434	86.81	-13.19	58.874	
CL100309-07CRI	Perchlorate-O(18)	2.87	11047.777	11047.777	bb			0.4516	90.31	-9.69	2941.1...	

WCL
3/18/10

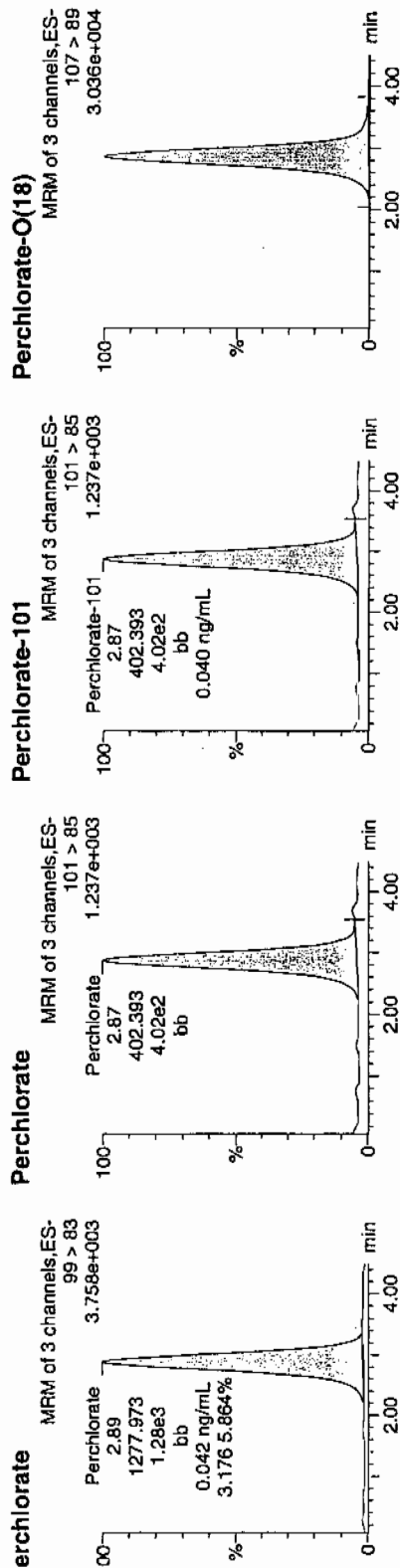
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Acq. Date: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample Name: per0317050a
Date: 17-Mar-2010
Time: 18:56:50
File: WCL100309-07CRI
Label: 1:2,B

Per
03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
'CL100309-07CRI	Perchlorate	2.89	1277.973	1277.973	bb			0.0424	84.73	-15.27	450.404	3.18
'CL100309-07CRI	Perchlorate-101	2.87	402.393	402.393	bb			0.0402	80.50	-19.50	103.552	
'CL100309-07CRI	Perchlorate-O(18)	2.86	10435.741	10435.741	bb			0.4265	85.31	-14.69	2828.1...	

MA
3/19/10

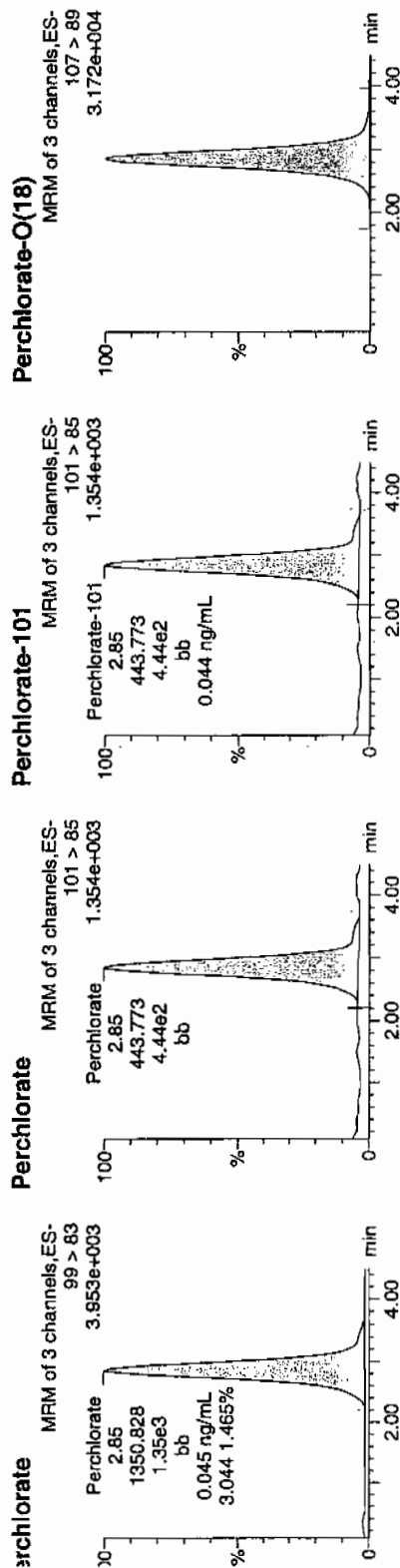
uantify Sample Report MassLynx 4.0 SP4
 ie GEL Group, LLC Analyst: Charlers W. Wilson

at aset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

ist Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
 inted: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

ame: per0317062a
 ate: 17-Mar-2010
 me: 20:27:41
 : WCL100309-07CRI
 al: 1:2,B

Per
 03-18-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
CL100309-07CRI	Perchlorate	2.85	1350.828	1350.828	bb			0.0448	89.56	-10.44	210.610	3.04
CL100309-07CRI	Perchlorate-101	2.85	443.773	443.773	bb			0.0444	88.78	-11.22	265.448	
CL100309-07CRI	Perchlorate-O(18)	2.85	10841.560	10841.560	bb			0.4431	88.63	-11.37	2115.4...	

1077
 3/19/10

QUALITY CONTROL

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 258915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. MB
 Date Received: 10-MAR-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 1202056513
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	17-MAR-10 18:03	per0317043a
	Perchlorate Isotope Ratio						1	17-MAR-10 18:03	per0317043a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	17-MAR-10 18:03	per0317043a
	Perchlorate-O(18)			4.48	ug/kg		1	17-MAR-10 18:03	per0317043a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =
 Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Acquired: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Sample Name: per0317043a

Acquired: 17-Mar-2010

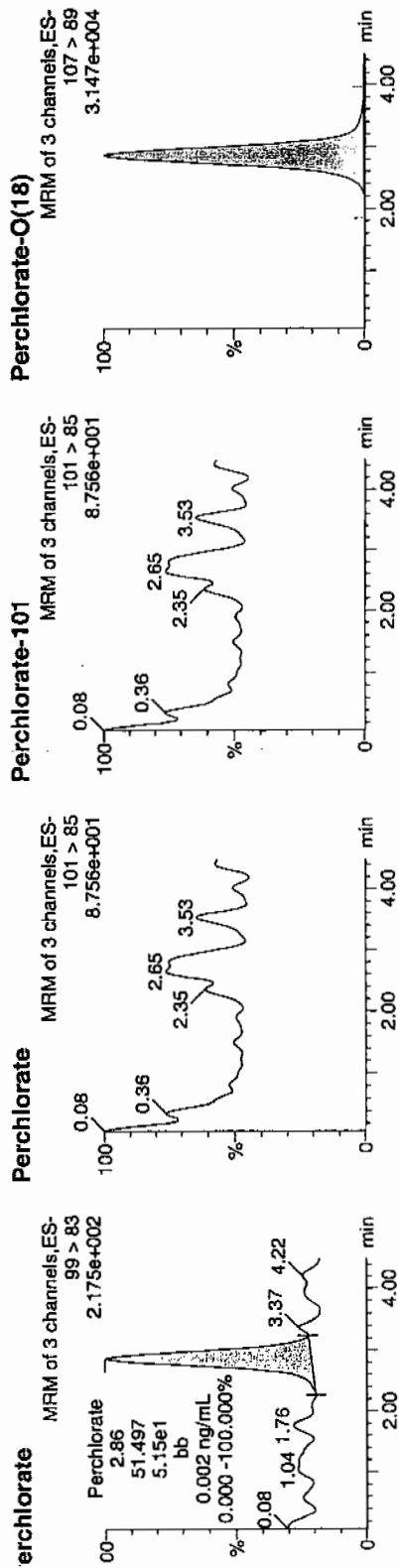
Time: 18:03:42

ID: 1202056513

Label: 2:1,A

03-18-10

1202056513 | 3000 | MB11



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
202056513	Perchlorate	2.86	51.497	51.497	bb			0.0017			44.395	0.00
202056513	Perchlorate-101	2.86	10966.938	10966.938	bb			0.4483	89.65	-10.35	2302.8...	
202056513	Perchlorate-O(18)	2.86	10966.938	10966.938	bb			0.4483	89.65	-10.35	2302.8...	

3/19/10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 258915
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. LCS
 Date Received: 10-MAR-10
 GEL Job No (SDG): 10-2025-1
 GEL Sample ID: 1202056514
 Date Filtered: 10-MAR-10
 Injection Volume (uL): 20
 %Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.81	ug/kg	J	1	17-MAR-10 18:11	per0317044a
	Perchlorate Isotope Ratio			2.99			1	17-MAR-10 18:11	per0317044a
14797-73-0	Perchlorate-101	.5	2	1.83	ug/kg	J	1	17-MAR-10 18:11	per0317044a
	Perchlorate-O(18)			4.16	ug/kg		1	17-MAR-10 18:11	per0317044a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
 Aliquot %Solids

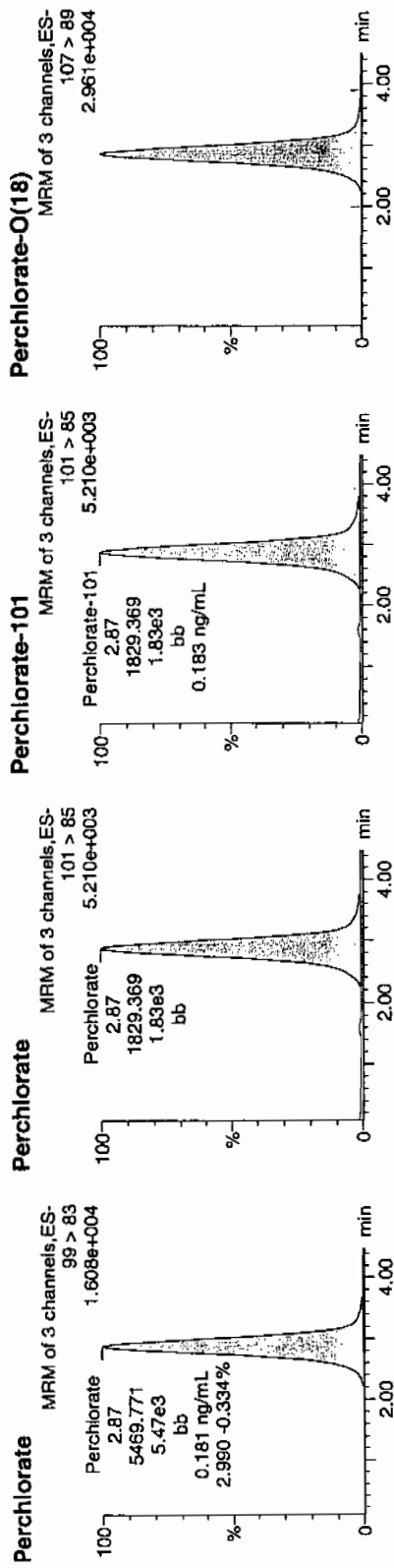
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317044a
Date: 17-Mar-2010
Time: 18:11:25
ID: 1202056514
Vial: 2:1.B

1202056514 | 5000 | 125 | 11
03-18-10



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056514	Perchlorate	99 > 83	2.87	5469.771	5469.771	bb			0.1813	90.66	-9.34	1020.4...	2.99
1202056514	Perchlorate-101	101 > 85	2.87	1829.369	1829.369	bb			0.1830	91.49	-8.51	1058.5...	
1202056514	Perchlorate-O(18)	107 > 89	2.86	10171.994	10171.994	bb			0.4158	83.15	-16.85	3818.9...	

$$\frac{5469.771}{30166.6} = 0.1813$$

not
3/18/10

MISCELLANEOUS DATA

Prep Logbook

Definitive Low Level Perchlorate Analysis Utilizing Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) by EPA Method 6850 Modified (6850M)

Batch ID: 958915
 Analyst: Kaylie Westmoreland
 Method: SW846 6850 Modified
 Verified by:
 Lab SOP: GL-OA-E-067 REV# 6
 Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)	Serial Number	Spike Amt	Units	Comments:
1202056513 MB	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	Desalting Cartridges used: 100223-1-Ba & 100216-1-H
1202056514 LCS	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248000001	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248000002	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248000003	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248000004	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248000005	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002001	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
1202056515 MS (248002001)	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
1202056516 MSD (248002001)	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002002	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002003	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002004	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002005	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002006	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002007	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248002008	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248016001	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248016002	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248016003	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
248016004	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	
1202056517 IC'S	10-MAR-2010 13:29:00	2	20	10	UCL100226-01.2	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/17/10
 Extr. Injection Volume: 20uL
 Sequence Number: per031710a
 Initial Calibration Date: 03/17/10

Method: EPA 6850-Modified
 Int. Std.: UCL100210-01
 Mobile Phase Lot#: 1278668, 1271949
 Standard-Samp Reagent Lot#: 1271949

Reviewed BY: LMH
 Date: 3/19/10
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100309-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0317001a	IPB001	CWW	3/17/2010 12:46			1		USE	B
per0317002a	IPB001	CWW	3/17/2010 12:54			1		USE	B
per0317003a	WCLICAL-01	CWW	3/17/2010 13:01			1		USE	I
per0317004a	WCLICAL-02	CWW	3/17/2010 13:09			1		USE	I
per0317005a	WCLICAL-03	CWW	3/17/2010 13:16			1		USE	I
per0317006a	WCLICAL-04	CWW	3/17/2010 13:24			1		USE	I
per0317007a	WCLICAL-05	CWW	3/17/2010 13:31			1		USE	I
per0317008a	IPB002	CWW	3/17/2010 13:39			1		USE	B
per0317009a	WCLICV	CWW	3/17/2010 13:46			1		USE	C
per0317010a	IPB003	CWW	3/17/2010 13:54			1		USE	B
per0317011a	WCLCRI	CWW	3/17/2010 14:02			1		USE	C
per0317012a	1202056471	CWW	3/17/2010 14:09	958897	VARIOUS	1	LANL	USE	S
per0317013a	1202056472	CWW	3/17/2010 14:17	958897	VARIOUS	1	LANL	USE	S
per0317014a	1202056475	CWW	3/17/2010 14:24	958897	VARIOUS	1	LANL	USE	S
per0317015a	247806001	CWW	3/17/2010 14:32	958897	10-1991	1	LANL	USE	S
per0317016a	247806002	CWW	3/17/2010 14:39	958897	10-1991	1	LANL	USE	S
per0317017a	1202056473	CWW	3/17/2010 14:47	958897	10-1991	1	LANL	USE	S
per0317018a	1202056474	CWW	3/17/2010 14:54	958897	10-1991	1	LANL	USE	S
per0317019a	247806003	CWW	3/17/2010 15:02	958897	10-1991	1	LANL	USE	S
per0317020a	247806004	CWW	3/17/2010 15:09	958897	10-1991	1	LANL	USE	S
per0317021a	247806005	CWW	3/17/2010 15:17	958897	10-1991	1	LANL	USE	S
per0317022a	WCLCCV	CWW	3/17/2010 15:24			1		USE	C
per0317023a	IPB004	CWW	3/17/2010 15:32			1		USE	B
per0317024a	WCLCRI	CWW	3/17/2010 15:40			1		USE	C
per0317025a	247806006	CWW	3/17/2010 15:47	958897	10-1991	1	LANL	USE	S
per0317026a	247806007	CWW	3/17/2010 15:55	958897	10-1991	1	LANL	USE	S
per0317027a	247806008	CWW	3/17/2010 16:02	958897	10-1991	1	LANL	USE	S
per0317028a	247806009	CWW	3/17/2010 16:10	958897	10-1991	1	LANL	USE	S
per0317029a	247806010	CWW	3/17/2010 16:17	958897	10-1991	1	LANL	USE	S

per0317030a	247806011	CWW	3/17/2010 16:25	958897	10-1991	1	LANL	USE	S
per0317031a	247806012	CWW	3/17/2010 16:32	958897	10-1991	1	LANL	USE	S
per0317032a	247918001	CWW	3/17/2010 16:40	958897	10-2016	1	LANL	USE	S
per0317033a	247918002	CWW	3/17/2010 16:47	958897	10-2016	1	LANL	USE	S
per0317034a	247918003	CWW	3/17/2010 16:55	958897	10-2016	1	LANL	USE	S
per0317035a	WCLCCV	CWW	3/17/2010 17:03			1		USE	C
per0317036a	IPB005	CWW	3/17/2010 17:10			1		USE	B
per0317037a	WCLCRI	CWW	3/17/2010 17:18			1		USE	C
per0317038a	247918004	CWW	3/17/2010 17:25	958897	10-2016	1	LANL	USE	S
per0317039a	247918005	CWW	3/17/2010 17:33	958897	10-2016	1	LANL	USE	S
per0317040a	247918006	CWW	3/17/2010 17:41	958897	10-2016	1	LANL	USE	S
per0317041a	247918007	CWW	3/17/2010 17:48	958897	10-2016	1	LANL	USE	S
per0317042a	IPB006	CWW	3/17/2010 17:56			1		USE	B
per0317043a	1202056513	CWW	3/17/2010 18:03	958918	VARIOUS	1	LANL	USE	S
per0317044a	1202056514	CWW	3/17/2010 18:11	958918	VARIOUS	1	LANL	USE	S
per0317045a	1202056517	CWW	3/17/2010 18:18	958918	VARIOUS	1	LANL	USE	S
per0317046a	248000001	CWW	3/17/2010 18:26	958918	10-2025-1	1	LANL	USE	S
per0317047a	248000002	CWW	3/17/2010 18:34	958918	10-2025-1	1	LANL	USE	S
per0317048a	WCLCCV	CWW	3/17/2010 18:41			1		USE	C
per0317049a	IPB007	CWW	3/17/2010 18:49			1		USE	B
per0317050a	WCLCRI	CWW	3/17/2010 18:56			1		USE	C
per0317051a	248000003	CWW	3/17/2010 19:04	958918	10-2025-1	1	LANL	USE	S
per0317052a	248000004	CWW	3/17/2010 19:12	958918	10-2025-1	1	LANL	USE	S
per0317053a	248000005	CWW	3/17/2010 19:19	958918	10-2025-1	1	LANL	USE	S
per0317054a	2480002001	CWW	3/17/2010 19:27	958918	10-2028-1	1	LANL	USE	S
per0317055a	1202056515	CWW	3/17/2010 19:34	958918	10-2028-1	1	LANL	USE	S
per0317056a	1202056516	CWW	3/17/2010 19:42	958918	10-2028-1	1	LANL	USE	S
per0317057a	2480002002	CWW	3/17/2010 19:49	958918	10-2028-1	1	LANL	USE	S
per0317058a	2480002003	CWW	3/17/2010 19:57	958918	10-2028-1	1	LANL	USE	S
per0317059a	2480002004	CWW	3/17/2010 20:04	958918	10-2028-1	1	LANL	USE	S
per0317060a	WCLCCV	CWW	3/17/2010 20:12			1		USE	C
per0317061a	IPB008	CWW	3/17/2010 20:20			1		USE	B
per0317062a	WCLCRI	CWW	3/17/2010 20:27			1		USE	C
per0317063a	2480002005	CWW	3/17/2010 20:35	958918	10-2028-1	1	LANL	USE	S
per0317064a	2480002006	CWW	3/17/2010 20:42	958918	10-2028-1	1	LANL	USE	S
per0317065a	2480002007	CWW	3/17/2010 20:50	958918	10-2028-1	1	LANL	USE	S
per0317066a	2480002008	CWW	3/17/2010 20:58	958918	10-2028-1	1	LANL	USE	S

per0317067a	248016001	CWW	3/17/2010 21:05	958918	10-2035	1	LANL	USE	S
per0317068a	248016002	CWW	3/17/2010 21:13	958918	10-2035	1	LANL	USE	S
per0317069a	248016003	CWW	3/17/2010 21:20	958918	10-2035	1	LANL	USE	S
per0317070a	248016004	CWW	3/17/2010 21:28	958918	10-2035	1	LANL	USE	S
per0317071a	WCLCCV	CWW	3/17/2010 21:35			1		USE	C
per0317072a	IPB009	CWW	3/17/2010 21:43			1		USE	B
per0317073a	WCLCRI	CWW	3/17/2010 21:51			1		USE	C
per0317074a	1202056547	CWW	3/17/2010 21:58	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317075a	1202056548	CWW	3/17/2010 22:06	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317076a	1202056551	CWW	3/17/2010 22:13	958937	VARIOUS	1	LANL	DUSE-RA	S
per0317077a	248025001	CWW	3/17/2010 22:21	958937	10-2048	1	LANL	DUSE-RA	S
per0317078a	248025002	CWW	3/17/2010 22:29	958937	10-2048	1	LANL	DUSE-RA	S
per0317079a	248025003	CWW	3/17/2010 22:36	958937	10-2048	1	LANL	DUSE-RA	S
per0317080a	248025004	CWW	3/17/2010 22:44	958937	10-2048	1	LANL	DUSE-RA	S
per0317081a	248025005	CWW	3/17/2010 22:51	958937	10-2048	1	LANL	DUSE-RA	S
per0317082a	248025006	CWW	3/17/2010 22:59	958937	10-2048	1	LANL	DUSE-RA	S
per0317083a	248025007	CWW	3/17/2010 23:06	958937	10-2048	1	LANL	DUSE-RA	S
per0317084a	WCLCCV	CWW	3/17/2010 23:14			1		DUSE	C
per0317085a	IPB010	CWW	3/17/2010 23:22			1		DUSE	B
per0317086a	WCLCRI	CWW	3/17/2010 23:29			1		DUSE	C
per0317087a	248033001	CWW	3/17/2010 23:37	958937	10-2072	1	LANL	DUSE-RA	S
per0317088a	1202056549	CWW	3/17/2010 23:45	958937	10-2072	1	LANL	DUSE-RA	S
per0317089a	1202056550	CWW	3/17/2010 23:52	958937	10-2072	1	LANL	DUSE-RA	S
per0317090a	248033002	CWW	3/18/2010 0:00	958937	10-2072	1	LANL	DUSE-RA	S
per0317091a	248033003	CWW	3/18/2010 0:07	958937	10-2072	1	LANL	DUSE-RA	S
per0317092a	248033004	CWW	3/18/2010 0:15	958937	10-2072	1	LANL	DUSE-RA	S
per0317093a	248033005	CWW	3/18/2010 0:22	958937	10-2072	1	LANL	DUSE-RA	S
per0317094a	248033006	CWW	3/18/2010 0:30	958937	10-2072	1	LANL	DUSE-RA	S
per0317095a	248033007	CWW	3/18/2010 0:38	958937	10-2072	1	LANL	DUSE-RA	S
per0317096a	248033008	CWW	3/18/2010 0:45	958937	10-2072	1	LANL	DUSE-RA	S
per0317097a	WCLCCV	CWW	3/18/2010 0:53			1		USE	C
per0317098a	IPB011	CWW	3/18/2010 1:01			1		USE	B
per0317099a	WCLCRI	CWW	3/18/2010 1:08			1		USE	C
per0317100a	248033009	CWW	3/18/2010 1:16	958937	10-2072	1	LANL	DUSE-RA	S
per0317101a	IPB012	CWW	3/18/2010 1:24			1		USE	B
per0317102a	1202056692	CWW	3/18/2010 1:32	959029	VARIOUS	1	LANL	USE	S
per0317103a	1202056693	CWW	3/18/2010 1:39	959029	VARIOUS	1	LANL	USE	S

per0317104a	1202056696	CWW	3/18/2010 1:47	959029	VARIOUS	1	LANL	USE	S
per0317105a	248189001	CWW	3/18/2010 1:55	959029	10-2120-1	1	LANL	USE	S
per0317106a	248189002	CWW	3/18/2010 2:02	959029	10-2120-1	1	LANL	USE	S
per0317107a	248202001	CWW	3/18/2010 2:10	959029	10-2124	1	LANL	USE	S
per0317108a	248202002	CWW	3/18/2010 2:18	959029	10-2124	1	LANL	DUSE-DL	S
per0317109a	248203002	CWW	3/18/2010 2:25	959029	10-2125	1	LANL	DUSE-RA	S
per0317110a	WCLCCV	CWW	3/18/2010 2:33			1		USE	C
per0317111a	IPB013	CWW	3/18/2010 2:41			1		USE	B
per0317112a	WCLCRI	CWW	3/18/2010 2:48			1		USE	C
per0317113a	248237001	CWW	3/18/2010 2:56	959029	10-2132	1	LANL	USE	S
per0317114a	248237002	CWW	3/18/2010 3:04	959029	10-2132	1	LANL	USE	S
per0317115a	248237003	CWW	3/18/2010 3:11	959029	10-2132	1	LANL	USE	S
per0317116a	248237004	CWW	3/18/2010 3:19	959029	10-2132	1	LANL	USE	S
per0317117a	248237005	CWW	3/18/2010 3:26	959029	10-2132	1	LANL	USE	S
per0317118a	248237006	CWW	3/18/2010 3:34	959029	10-2132	1	LANL	USE	S
per0317119a	248237007	CWW	3/18/2010 3:41	959029	10-2132	1	LANL	USE	S
per0317120a	248247001	CWW	3/18/2010 3:49	959029	10-2138-1	1	LANL	USE	S
per0317121a	1202056694	CWW	3/18/2010 3:56	959029	10-2138-1	1	LANL	USE	S
per0317122a	1202056695	CWW	3/18/2010 4:04	959029	10-2138-1	1	LANL	USE	S
per0317123a	WCLCCV	CWW	3/18/2010 4:11			1		USE	C
per0317124a	IPB014	CWW	3/18/2010 4:19			1		USE	B
per0317125a	WCLCRI	CWW	3/18/2010 4:27			1		USE	C
per0317126a	248247002	CWW	3/18/2010 4:34	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317127a	248247003	CWW	3/18/2010 4:42	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317128a	248247004	CWW	3/18/2010 4:49	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317129a	248247005	CWW	3/18/2010 4:57	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317130a	248247006	CWW	3/18/2010 5:05	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317131a	248247007	CWW	3/18/2010 5:12	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317132a	248247008	CWW	3/18/2010 5:20	959029	10-2138-1	1	LANL	DUSE-RA	S
per0317133a	WCLCCV	CWW	3/18/2010 5:27			1		USE	C
per0317134a	IPB015	CWW	3/18/2010 5:35			1		USE	B
per0317135a	WCLCRI	CWW	3/18/2010 5:42			1		USE	C

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

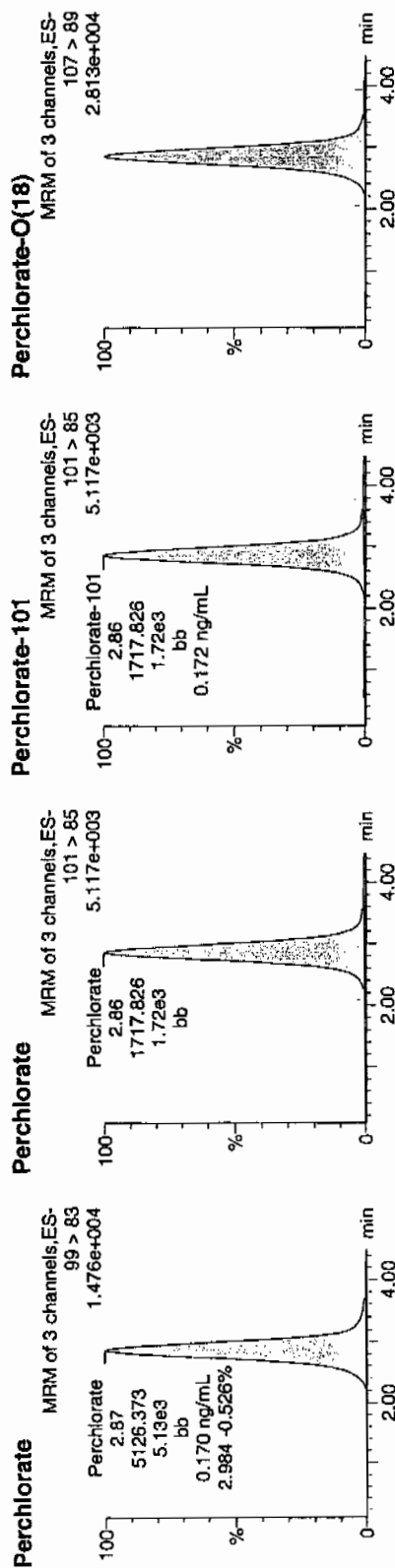
Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317055a
Date: 17-Mar-2010
Time: 19:34:42
ID: 1202056515
Vial: 2:2,D

LOW | 958918 | 3000 | MS | 1 | 1

3/18/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202056515	Perchlorate	99 > 83	2.87	5126.373	5126.373	bb			0.1699	84.97	-15.03	1231.0...	2.98
1202056515	Perchlorate-101	101 > 85	2.86	1717.826	1717.826	bb			0.1718	85.91	-14.09	244.398	
1202056515	Perchlorate-O(18)	107 > 89	2.85	9714.991	9714.991	bb			0.3971	79.42	-20.58	348.345	

$$\frac{5126.373}{30166.6} = 1.70$$

$$\frac{1717.826}{9714.991} = 1.77$$

$$\frac{9714.991}{5618.1} = 1.73$$

$$\frac{5126.373}{1717.826} = 2.9842$$

3/19/10

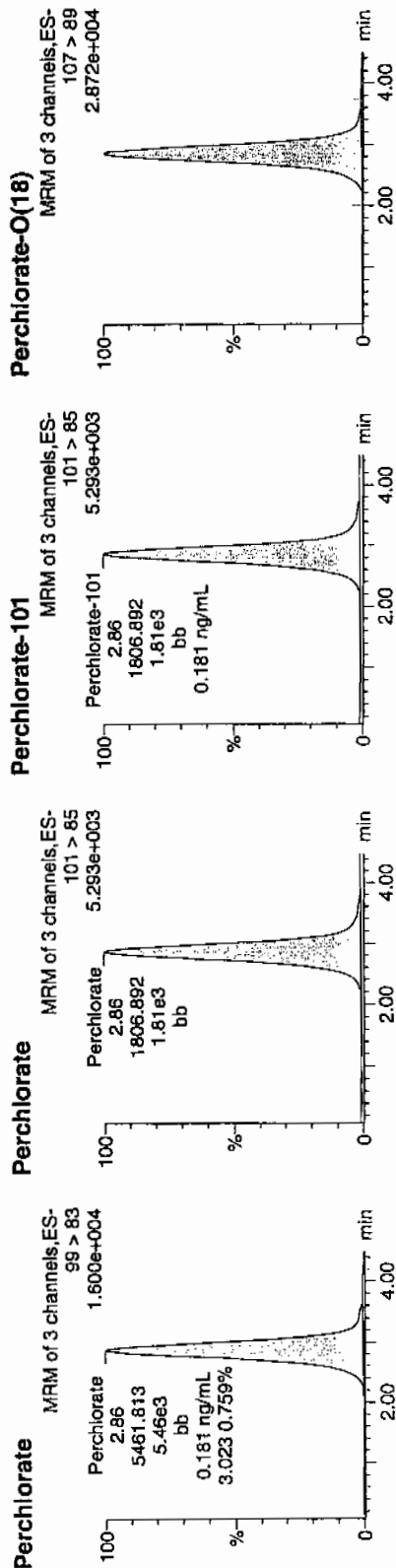
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per031710a.qld

Last Altered: Thursday, March 18, 2010 6:42:12 AM Eastern Standard Time
Printed: Thursday, March 18, 2010 7:54:18 AM Eastern Standard Time

Name: per0317056a
Date: 17-Mar-2010
Time: 19:42:14
ID: 1202056516
Vial: 2:2,E

03-18-10
1953418 | 5000 | 150 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202056516	Perchlorate	99 > 83	2.86	5461.813	5461.813	bb			0.1811	90.53	-9.47	1523.7...	3.02
1202056516	Perchlorate-101	101 > 85	2.86	1806.892	1806.892	bb			0.1807	90.37	-9.63	183.908	
1202056516	Perchlorate-O(18)	107 > 89	2.85	9915.475	9915.475	bb			0.4053	81.06	-18.94	2064.0...	

$$\frac{5461.813}{30166.6} = 0.1811$$

1417
3/18/10

Isotope Ratio Criteria

Isotope Ratio $^{35}\text{Cl}/^{37}\text{Cl}$

2.31-3.85

Tune Criteria

The tuning solution is introduced directly into the mass spectrometer using the ESI interface in the positive ion mode. The mass range scanned is 20 to 1100 amu using at least six scans. The observed mass for the target compound in the daily calibration standards must be within 0.2 amu of the expected value. If it is greater than 0.2 amu, then a mass calibration is performed and the instrument is re-calibrated.

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2025**

Sample Analysis

Sample ID	Client ID
247997001	RE36-10-8492
1202056808	Method Blank (MB) ICP
1202056809	Laboratory Control Sample (LCS)
1202056812	248046001(RE36-10-7528L) Serial Dilution (SD)
1202056810	248046001(RE36-10-7528D) Sample Duplicate (DUP)
1202056811	248046001(RE36-10-7528S) Matrix Spike (MS)
1202056813	Method Blank (MB) ICP-MS
1202056814	Laboratory Control Sample (LCS)
1202056817	248046002(RE36-10-7527L) Serial Dilution (SD)
1202056815	248046002(RE36-10-7527D) Sample Duplicate (DUP)
1202056816	248046002(RE36-10-7527S) Matrix Spike (MS)
1202056573	Method Blank (MB) CVAA
1202056574	Laboratory Control Sample (LCS)
1202056577	248145001(WST16-10-12239L) Serial Dilution (SD)
1202056575	248145001(WST16-10-12239D) Sample Duplicate (DUP)
1202056576	248145001(WST16-10-12239S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Method/Analysis Information

Analytical Batch:	959089, 959091 and 958951
Prep Batch :	959088, 959090 and 958949
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-006 REV# 9, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3005/6010B, SW846 3005/6020 and SW846 7470A
Prep Method :	SW846 3005A and SW846 7470A Prep

Preparation/Analytical Method Verification

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

System Configuration

The Metals analysis-ICP was performed on a P E 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 9000 inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Metals analysis-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standards met the advisory control limits with the exceptions of beryllium and potassium that recovered outside of the advisory control limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 248046001 (RE36-10-7528)-ICP, 248046002 (RE36-10-7527)-ICP-MS and 248145001 (WST16-10-12239)-CVAA.

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

The RPD obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is >5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are

calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG did not require dilutions.

Preparation Information

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

Miscellaneous Information

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports (DERs) are generated to document procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nikhil A. Emore Date: 4.17.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247997001

BASIS: As Received

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8492

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	PRB	04/13/10 12:41	100413-3	959091
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-47-3	Chromium	1.02	ug/L	J	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-92-1	Lead	1.21	ug/L	J	0.5	2	2	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	03/26/10 22:27	032610A-1	959089
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	03/02/10 11:19	030210W3-6	958951
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-09-7	Potassium	123	ug/L	J	50	150	150	1	P	HSC	03/26/10 22:27	032610A-1	959089
7782-49-2	Selenium	10.1	ug/L	J	5	30	30	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-23-5	Sodium	119	ug/L	J	100	300	300	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-28-0	Thallium	0.485	ug/L	J	0.3	1	1	1	MS	BCD1	04/12/10 00:58	100411-2	959091
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	04/13/10 15:50	100413-5	959091
7440-62-2	Vanadium	1.22	ug/L	J	1	5	5	1	P	HSC	03/26/10 22:27	032610A-1	959089
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	03/26/10 22:27	032610A-1	959089

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958951	958949	SW846 7470A Prep	20	mL	20	mL	03/01/10	TXB3
959089	959088	SW846 3005A	50	mL	50	mL	03/04/10	LYH1
959091	959090	SW846 3005A	50	mL	50	mL	03/02/10	FGA

Quality Control Summary

METALS
--2a--
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.2	ug/L	5	ug/L	104	90.0 – 110.0	AV	02-MAR-10 08:39	030210W3-6
	Aluminum	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Arsenic	485	ug/L	500	ug/L	97	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Barium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Calcium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Chromium	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Cobalt	520	ug/L	500	ug/L	104	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Copper	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Magnesium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Nickel	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Potassium	2490	ug/L	2500	ug/L	99.7	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Selenium	2600	ug/L	2500	ug/L	104	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Silver	254	ug/L	250	ug/L	101.8	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Sodium	2460	ug/L	2500	ug/L	98.5	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Vanadium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Zinc	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	26-MAR-10 19:33	032610A-1
	Beryllium	51.3	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	11-APR-10 23:44	100411-2
	Cadmium	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	11-APR-10 23:44	100411-2
	Lead	52	ug/L	50	ug/L	103.9	90.0 – 110.0	MS	11-APR-10 23:44	100411-2
	Manganese	52.7	ug/L	50	ug/L	105.4	90.0 – 110.0	MS	11-APR-10 23:44	100411-2
	Thallium	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	11-APR-10 23:44	100411-2
	Antimony	53.1	ug/L	50	ug/L	106.3	90.0 – 110.0	MS	13-APR-10 11:52	100413-3
	Uranium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	13-APR-10 15:17	100413-5
CCV01										
	Mercury	5.16	ug/L	5	ug/L	103.1	80.0 – 120.0	AV	02-MAR-10 08:45	030210W3-6
	Aluminum	4750	ug/L	5000	ug/L	95.1	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Arsenic	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Barium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Calcium	4860	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Chromium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Copper	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Iron	4850	ug/L	5000	ug/L	97	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Magnesium	4940	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Nickel	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Potassium	4580	ug/L	5000	ug/L	91.6	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Selenium	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Sodium	9700	ug/L	10000	ug/L	97	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Zinc	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	26-MAR-10 20:21	032610A-1
	Beryllium	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	12-APR-10 00:15	100411-2
	Cadmium	51.1	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	12-APR-10 00:15	100411-2
	Lead	51.7	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	12-APR-10 00:15	100411-2
	Manganese	53.6	ug/L	50	ug/L	107.1	90.0 – 110.0	MS	12-APR-10 00:15	100411-2
	Thallium	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	12-APR-10 00:15	100411-2
	Antimony	52.6	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	13-APR-10 12:04	100413-3
	Uranium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	13-APR-10 15:26	100413-5
CCV02	Mercury	5.13	ug/L	5	ug/L	102.6	80.0 – 120.0	AV	02-MAR-10 09:08	030210W3-6
	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Arsenic	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Barium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Calcium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Chromium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Cobalt	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Iron	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Magnesium	5060	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Nickel	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Potassium	4710	ug/L	5000	ug/L	94.2	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Selenium	536	ug/L	500	ug/L	107.2	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Silver	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Sodium	10300	ug/L	10000	ug/L	103.2	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Vanadium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Zinc	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	26-MAR-10 20:43	032610A-1
	Beryllium	51.1	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	12-APR-10 00:33	100411-2
	Cadmium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	12-APR-10 00:33	100411-2
	Lead	54.4	ug/L	50	ug/L	108.7	90.0 – 110.0	MS	12-APR-10 00:33	100411-2
	Manganese	53.5	ug/L	50	ug/L	107	90.0 – 110.0	MS	12-APR-10 00:33	100411-2
	Thallium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	12-APR-10 00:33	100411-2
	Antimony	52.9	ug/L	50	ug/L	105.8	90.0 – 110.0	MS	13-APR-10 12:31	100413-3
	Uranium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	13-APR-10 15:44	100413-5
CCV03										
	Mercury	5.06	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	02-MAR-10 09:31	030210W3-6
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Arsenic	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Calcium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Chromium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Cobalt	519	ug/L	500	ug/L	103.7	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Iron	5190	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Magnesium	5240	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Nickel	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Selenium	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Silver	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Sodium	10500	ug/L	10000	ug/L	104.6	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Zinc	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-MAR-10 21:59	032610A-1
	Beryllium	52.5	ug/L	50	ug/L	105	90.0 – 110.0	MS	12-APR-10 01:41	100411-2
	Cadmium	51.5	ug/L	50	ug/L	103.1	90.0 – 110.0	MS	12-APR-10 01:41	100411-2
	Lead	51.6	ug/L	50	ug/L	103.1	90.0 – 110.0	MS	12-APR-10 01:41	100411-2
	Manganese	53.4	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	12-APR-10 01:41	100411-2
	Thallium	48.6	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	12-APR-10 01:41	100411-2
	Antimony	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	13-APR-10 12:53	100413-3
	Uranium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	13-APR-10 15:59	100413-5
CCV04	Mercury	5.02	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 09:54	030210W3-6
	Aluminum	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Arsenic	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Barium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Calcium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Chromium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Cobalt	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Copper	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Iron	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Magnesium	5170	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Nickel	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Potassium	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Selenium	525	ug/L	500	ug/L	104.9	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Silver	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Vanadium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	26-MAR-10 23:02	032610A-1
	Beryllium	53	ug/L	50	ug/L	106.1	90.0 – 110.0	MS	12-APR-10 02:25	100411-2
	Cadmium	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	12-APR-10 02:25	100411-2
	Lead	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	12-APR-10 02:25	100411-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	12-APR-10 02:25	100411-2
	Thallium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	12-APR-10 02:25	100411-2
	Antimony	51.4	ug/L	50	ug/L	102.7	90.0 – 110.0	MS	13-APR-10 13:21	100413-3
	Uranium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	13-APR-10 16:14	100413-5
CCV05										
	Mercury	5	ug/L	5	ug/L	99.9	80.0 – 120.0	AV	02-MAR-10 10:17	030210W3-6
	Aluminum	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Arsenic	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Calcium	5190	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Chromium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Iron	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Magnesium	5100	ug/L	5000	ug/L	102	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Nickel	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Potassium	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Selenium	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Silver	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Sodium	9300	ug/L	10000	ug/L	93	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Vanadium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Zinc	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	27-MAR-10 00:04	032610A-1
	Antimony	52.7	ug/L	50	ug/L	105.4	90.0 – 110.0	MS	13-APR-10 13:36	100413-3
CCV06										
	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	02-MAR-10 10:41	030210W3-6
CCV07										
	Mercury	5.01	ug/L	5	ug/L	100.3	80.0 – 120.0	AV	02-MAR-10 11:04	030210W3-6
CCV08										
	Mercury	5.21	ug/L	5	ug/L	104.3	80.0 – 120.0	AV	02-MAR-10 11:27	030210W3-6

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV09	Mercury	4.93	ug/L	5	ug/L	98.7	80.0 – 120.0	AV	02-MAR-10 11:50	030210W3-6
CCV10	Mercury	5.01	ug/L	5	ug/L	100.1	80.0 – 120.0	AV	02-MAR-10 12:14	030210W3-6

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS4,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.24	ug/L	.2	ug/L	120	70.0 – 130.0	AV	02-MAR-10 08:43	030210W3-6
	Lead	2.25	ug/L	2	ug/L	112.7	70.0 – 130.0	MS	11-APR-10 23:56	100411-2
	Thallium	1.19	ug/L	1	ug/L	119.4	70.0 – 130.0	MS	11-APR-10 23:56	100411-2
	Manganese	6.14	ug/L	5	ug/L	122.7	70.0 – 130.0	MS	11-APR-10 23:56	100411-2
	Cadmium	1.18	ug/L	1	ug/L	118.3	70.0 – 130.0	MS	11-APR-10 23:56	100411-2
	Beryllium	.653	ug/L	.5	ug/L	130.6	70.0 – 130.0	MS	11-APR-10 23:56	100411-2
	Antimony	2.94	ug/L	3	ug/L	98.1	70.0 – 130.0	MS	13-APR-10 11:57	100413-3
	Uranium	.216	ug/L	.2	ug/L	108	70.0 – 130.0	MS	13-APR-10 15:21	100413-5
PQL01										
	Aluminum	207	ug/L	200	ug/L	103.3	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Iron	78.1	ug/L	100	ug/L	78.1	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Magnesium	223	ug/L	300	ug/L	74.3	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Nickel	4.87	ug/L	5	ug/L	97.4	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Potassium	103	ug/L	150	ug/L	68.6	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Silver	4.9	ug/L	5	ug/L	98	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Sodium	293	ug/L	300	ug/L	97.5	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Arsenic	29.8	ug/L	30	ug/L	99.3	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Barium	5.06	ug/L	5	ug/L	101.1	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Chromium	4.99	ug/L	5	ug/L	99.7	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Cobalt	5.03	ug/L	5	ug/L	100.7	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Copper	9.16	ug/L	10	ug/L	91.6	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Vanadium	5.74	ug/L	5	ug/L	114.7	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Zinc	9.68	ug/L	10	ug/L	96.8	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Calcium	189	ug/L	200	ug/L	94.3	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1
	Selenium	32.5	ug/L	30	ug/L	108.2	70.0 – 130.0	P	26-MAR-10 19:47	032610A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01										
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 08:41	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	26-MAR-10 19:40	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	26-MAR-10 19:40	032610A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	26-MAR-10 19:40	032610A-1
	Magnesium	-91.83	+/-300	J	85.0	300	LIQ	P	26-MAR-10 19:40	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	26-MAR-10 19:40	032610A-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	26-MAR-10 19:40	032610A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	26-MAR-10 19:40	032610A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	11-APR-10 23:50	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	11-APR-10 23:50	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	11-APR-10 23:50	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	11-APR-10 23:50	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	11-APR-10 23:50	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 11:54	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:19	100413-5
CCB01										
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 08:47	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	26-MAR-10 20:28	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	26-MAR-10 20:28	032610A-1
	Chromium	1.25	+/-5	J	1.0	5.0	LIQ	P	26-MAR-10 20:28	032610A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	26-MAR-10 20:28	032610A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	26-MAR-10 20:28	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	26-MAR-10 20:28	032610A-1
	Selenium	6.79	+/-30	J	5.0	30.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	26-MAR-10 20:28	032610A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	26-MAR-10 20:28	032610A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 00:21	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 00:21	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 00:21	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 00:21	100411-2
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	12-APR-10 00:21	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:07	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:27	100413-5
CCB02	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:10	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	26-MAR-10 20:50	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	26-MAR-10 20:50	032610A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	26-MAR-10 20:50	032610A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	26-MAR-10 20:50	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	26-MAR-10 20:50	032610A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Selenium	5.47	+/-30	J	5.0	30.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	26-MAR-10 20:50	032610A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	26-MAR-10 20:50	032610A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 00:39	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 00:39	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 00:39	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 00:39	100411-2
	Thallium	0.508	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 00:39	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:34	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 15:45	100413-5
CCB03	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:33	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	26-MAR-10 22:06	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	26-MAR-10 22:06	032610A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	26-MAR-10 22:06	032610A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	26-MAR-10 22:06	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	26-MAR-10 22:06	032610A-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	26-MAR-10 22:06	032610A-1
	Vanadium	1.11	+/-5	J	1.0	5.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	26-MAR-10 22:06	032610A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 01:47	100411-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 01:47	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 01:47	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 01:47	100411-2
	Thallium	0.463	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 01:47	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 12:56	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:00	100413-5
CCB04	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 09:56	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	26-MAR-10 23:09	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	26-MAR-10 23:09	032610A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	26-MAR-10 23:09	032610A-1
	Magnesium	-89.02	+/-300	J	85.0	300	LIQ	P	26-MAR-10 23:09	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	26-MAR-10 23:09	032610A-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	26-MAR-10 23:09	032610A-1
	Vanadium	1.04	+/-5	J	1.0	5.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	26-MAR-10 23:09	032610A-1
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	12-APR-10 02:31	100411-2
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	12-APR-10 02:31	100411-2
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	12-APR-10 02:31	100411-2
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	12-APR-10 02:31	100411-2
	Thallium	0.456	+/-1	J	0.3	1.0	LIQ	MS	12-APR-10 02:31	100411-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 13:24	100413-3
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	13-APR-10 16:15	100413-5

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB05	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:19	030210W3-6
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	27-MAR-10 00:11	032610A-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	27-MAR-10 00:11	032610A-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Iron	-30.45	+/-100	J	30.0	100	LIQ	P	27-MAR-10 00:11	032610A-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	27-MAR-10 00:11	032610A-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	27-MAR-10 00:11	032610A-1
	Selenium	7.45	+/-30	J	5.0	30.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Sodium	100	+/-300	U	100	300	LIQ	P	27-MAR-10 00:11	032610A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	27-MAR-10 00:11	032610A-1
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	13-APR-10 13:39	100413-3
CCB06	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 10:42	030210W3-6
CCB07	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:06	030210W3-6
CCB08	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:29	030210W3-6
CCB09	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 11:52	030210W3-6
CCB10	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-MAR-10 12:15	030210W3-6

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2025

Contract: LANL01004

Matrix: WATER

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202056573	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2
1202056808	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	6.01	ug/L	+/-30	J	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1.21	ug/L	+/-5	J	P	1	5
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
1202056813	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Lead	1.61	ug/L	+/-2	J	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.302	ug/L	+/-1	J	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2

METALS

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Interference Check Sample

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	516000	ug/L	500000	ug/L	103	80.0 - 120.0	26-MAR-10 19:54	032610A-1
	Arsenic	5.12	ug/L					26-MAR-10 19:54	032610A-1
	Barium	0.49	ug/L					26-MAR-10 19:54	032610A-1
	Calcium	473000	ug/L	500000	ug/L	94.5	80.0 - 120.0	26-MAR-10 19:54	032610A-1
	Chromium	-1.5	ug/L					26-MAR-10 19:54	032610A-1
	Cobalt	-0.992	ug/L					26-MAR-10 19:54	032610A-1
	Copper	1.32	ug/L					26-MAR-10 19:54	032610A-1
	Iron	182000	ug/L	200000	ug/L	90.8	80.0 - 120.0	26-MAR-10 19:54	032610A-1
	Magnesium	484000	ug/L	500000	ug/L	96.8	80.0 - 120.0	26-MAR-10 19:54	032610A-1
	Nickel	3.17	ug/L					26-MAR-10 19:54	032610A-1
	Potassium	-214.0	ug/L					26-MAR-10 19:54	032610A-1
	Selenium	-29.5	ug/L					26-MAR-10 19:54	032610A-1
	Silver	-1.58	ug/L					26-MAR-10 19:54	032610A-1
	Sodium	78.8	ug/L					26-MAR-10 19:54	032610A-1
	Vanadium	0.309	ug/L					26-MAR-10 19:54	032610A-1
	Zinc	-0.241	ug/L					26-MAR-10 19:54	032610A-1
ICSAB01									
	Aluminum	513000	ug/L	500000	ug/L	103	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Arsenic	524	ug/L	500	ug/L	105	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Barium	487	ug/L	500	ug/L	97.3	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Calcium	468000	ug/L	500000	ug/L	93.6	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Chromium	481	ug/L	500	ug/L	96.1	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Cobalt	446	ug/L	500	ug/L	89.1	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Copper	548	ug/L	500	ug/L	110	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Iron	179000	ug/L	200000	ug/L	89.5	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Magnesium	477000	ug/L	500000	ug/L	95.4	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Nickel	454	ug/L	500	ug/L	90.8	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Potassium	4830	ug/L	5000	ug/L	96.5	80.0 - 120.0	26-MAR-10 20:01	032610A-1
	Selenium	2470	ug/L	2500	ug/L	98.9	80.0 - 120.0	26-MAR-10 20:01	032610A-1

METALS

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Interference Check Sample

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	271	ug/L	250	ug/L	108	80.0 – 120.0	26-MAR-10 20:01	032610A-1
	Sodium	5110	ug/L	5000	ug/L	102	80.0 – 120.0	26-MAR-10 20:01	032610A-1
	Vanadium	508	ug/L	500	ug/L	102	80.0 – 120.0	26-MAR-10 20:01	032610A-1
	Zinc	491	ug/L	500	ug/L	98.1	80.0 – 120.0	26-MAR-10 20:01	032610A-1

METALS

-4-

Interference Check Sample

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Beryllium	0.086	ug/L					12-APR-10 00:02	100411-2
	Cadmium	0.214	ug/L					12-APR-10 00:02	100411-2
	Lead	0.22	ug/L					12-APR-10 00:02	100411-2
	Manganese	5.79	ug/L					12-APR-10 00:02	100411-2
	Thallium	0.027	ug/L					12-APR-10 00:02	100411-2
ICSAB01									
	Beryllium	18.3	ug/L	20	ug/L	91.4	80.0 - 120.0	12-APR-10 00:09	100411-2
	Cadmium	18.9	ug/L	20.44	ug/L	92.5	80.0 - 120.0	12-APR-10 00:09	100411-2
	Lead	18.7	ug/L	20.19	ug/L	92.4	80.0 - 120.0	12-APR-10 00:09	100411-2
	Manganese	25.5	ug/L	25.8	ug/L	98.9	80.0 - 120.0	12-APR-10 00:09	100411-2
	Thallium	17.6	ug/L	20	ug/L	88.2	80.0 - 120.0	12-APR-10 00:09	100411-2

METALS

-4-

Interference Check Sample

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Antimony	0.265	ug/L					13-APR-10 11:59	100413-3
ICSAB01	Antimony	20.3	ug/L	20	ug/L	101	80.0 - 120.0	13-APR-10 12:02	100413-3

METALS

-4-

Interference Check Sample

SDG No: 10-2025

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.002	ug/L					13-APR-10 15:22	100413-5
ICSAB01	Uranium	21.0	ug/L	20	ug/L	105	80.0 - 120.0	13-APR-10 15:24	100413-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025 Client ID WST16-10-12239S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 248145001 Spike ID: 1202056576

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/L	75-125	2.27		0.066	U	2	112		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025 Client ID RE36-10-7528S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 248046001 Spike ID: 1202056811

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	5140		68	U	5000	102		P
Arsenic	ug/L	75-125	508		5	U	500	101		P
Barium	ug/L	75-125	499		1	U	500	99.7		P
Calcium	ug/L	75-125	5160		84.9	J	5000	102		P
Chromium	ug/L	75-125	493		1	U	500	98.4		P
Cobalt	ug/L	75-125	491		1	U	500	98.1		P
Copper	ug/L	75-125	504		5.99	J	500	99.5		P
Iron	ug/L	75-125	4940		30	U	5000	98.4		P
Magnesium	ug/L	75-125	5070		85	U	5000	101		P
Nickel	ug/L	75-125	502		1.5	U	500	100		P
Selenium	ug/L	75-125	505		6.94	J	500	99.7		P
Silver	ug/L	75-125	481		1	U	500	96.3		P
Sodium	ug/L	75-125	4980		158	J	5000	96.4		P
Vanadium	ug/L	75-125	501		1.47	J	500	100		P
Zinc	ug/L	75-125	490		6.17	J	500	96.7		P
Potassium	ug/L	75-125	5070		259		5000	96.2		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025

Client ID RE36-10-7527S

Contract: LANL01004

Level: Low

Matrix: WATER

% Solids:

Sample ID: 248046002

Spike ID: 1202056816

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Antimony	ug/L	75-125	213		1	U	200	107		MS
Beryllium	ug/L	75-125	48.2		0.1	U	50	96.3		MS
Cadmium	ug/L	75-125	9.66		0.11	U	10	96.3		MS
Lead	ug/L	75-125	40.2		0.708	J	40	98.8		MS
Manganese	ug/L	75-125	49.1		1.69	J	50	94.9		MS
Thallium	ug/L	75-125	88.2		0.474	J	100	87.7		MS
Uranium	ug/L	75-125	45		0.05	U	50	90.1		MS

Metals

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Duplicate Sample Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: WST16-10-12239D

Sample ID: 248145001

Duplicate ID: 1202056575

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L		0.066 U		0.066 U				AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE36-10-7528D

Sample ID: 248046001

Duplicate ID: 1202056810

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		68 U		68 U				P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		1 U		1 U				P
Calcium	ug/L	+/-200	84.9 J		66.7 J		24		P
Chromium	ug/L		1 U		1 U				P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L	+/-10	5.99 J		5.6 J		6.84		P
Iron	ug/L		30 U		30 U				P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	259		257		.737		P
Selenium	ug/L		6.94 J		5 U		200		P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L	+/-300	158 J		164 J		3.96		P
Vanadium	ug/L	+/-5	1.47 J		1.51 J		2.72		P
Zinc	ug/L	+/-10	6.17 J		5.56 J		10.4		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE36-10-7527D

Sample ID: 248046002

Duplicate ID: 1202056815

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		1 U		1 U				MS
Beryllium	ug/L		0.1 U		0.1 U				MS
Cadmium	ug/L		0.11 U		0.11 U				MS
Lead	ug/L	+/-2	0.708 J		0.771 J		8.52		MS
Manganese	ug/L		1.69 J		1 U		200		MS
Thallium	ug/L		0.474 J		0.3 U		200		MS
Uranium	ug/L		0.05 U		0.05 U				MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2025

Contract: LANL01004

Aqueous LCS Source:GEL

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056574	Mercury	ug/L	2	2.21		110	80-120	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2025

Contract: LANL01004

Aqueous LCS Source:OS21

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056809	Aluminum	ug/L	5000	5370		107	80-120	P
	Arsenic	ug/L	500	513		103	80-120	P
	Barium	ug/L	500	512		102	80-120	P
	Calcium	ug/L	5000	5230		105	80-120	P
	Chromium	ug/L	500	503		101	80-120	P
	Cobalt	ug/L	500	505		101	80-120	P
	Copper	ug/L	500	508		102	80-120	P
	Iron	ug/L	5000	5070		101	80-120	P
	Magnesium	ug/L	5000	5180		104	80-120	P
	Nickel	ug/L	500	515		103	80-120	P
	Potassium	ug/L	5000	4940		98.8	80-120	P
	Selenium	ug/L	500	515		103	80-120	P
	Silver	ug/L	500	494		98.9	80-120	P
	Sodium	ug/L	5000	4970		99.4	80-120	P
	Vanadium	ug/L	500	512		102	80-120	P
	Zinc	ug/L	500	497		99.4	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2025

Contract: LANL01004

Aqueous LCS Source: O2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056814								
	Antimony	ug/L	50	56		112	80-120	MS
	Beryllium	ug/L	50	49.9		99.7	80-120	MS
	Cadmium	ug/L	50	46.9		93.8	80-120	MS
	Lead	ug/L	50	50		100	80-120	MS
	Manganese	ug/L	50	49.7		99.3	80-120	MS
	Thallium	ug/L	50	45		89.9	80-120	MS
	Uranium	ug/L	50	45.3		90.6	80-120	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2025 Client ID WST16-10-12239L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 248145001 Serial Dilution ID: 1202056577

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.066	U	.33	U				AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2025 **Client ID** RE36-10-7528L

Contract: LANL01004

Matrix: LIQUID **Level:** Low

Sample ID: 248046001 **Serial Dilution ID:** 1202056812

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	68	U	340	U				P
Arsenic	5	U	25	U				P
Barium	1	U	5	U				P
Calcium	84.9	J	250	U	100			P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	5.99	J	15	U	100			P
Iron	30	U	150	U				P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	259		250	U	100			P
Selenium	6.94	J	31	J	347			P
Silver	1	U	5	U				P
Sodium	158	J	500	U	100			P
Vanadium	1.47	J	5	U	100			P
Zinc	6.17	J	16.5	U	100			P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2025 Client ID RE36-10-7527L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 248046002 Serial Dilution ID: 1202056817

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.708	J	2.5	U	100			MS
Manganese	1.69	J	5	U	100			MS
Thallium	.474	J	6.85		1350			MS
Uranium	.05	U	.25	U				MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2025

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	959088						
1202056808	MB for batch 959088	MB	W	04-MAR-10	50mL	50mL	
1202056809	LCS for batch 959088	LCS	W	04-MAR-10	50mL	50mL	
1202056811	RE36-10-7528S	MS	W	04-MAR-10	50mL	50mL	
1202056810	RE36-10-7528D	DUP	W	04-MAR-10	50mL	50mL	
247997001	RE36-10-8492	SAMPLE	W	04-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2025

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	959090						
1202056813	MB for batch 959090	MB	W	02-MAR-10	50mL	50mL	
1202056814	LCS for batch 959090	LCS	W	02-MAR-10	50mL	50mL	
1202056816	RE36-10-7527S	MS	W	02-MAR-10	50mL	50mL	
1202056815	RE36-10-7527D	DUP	W	02-MAR-10	50mL	50mL	
247997001	RE36-10-8492	SAMPLE	W	02-MAR-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2025

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	958949						
1202056573	MB for batch 958949	MB	W	01-MAR-10	20mL	20mL	
1202056574	LCS for batch 958949	LCS	W	01-MAR-10	20mL	20mL	
1202056576	WST16-10-12239S	MS	W	01-MAR-10	20mL	20mL	
1202056575	WST16-10-12239D	DUP	W	01-MAR-10	20mL	20mL	
247997001	RE36-10-8492	SAMPLE	W	01-MAR-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 13-APR-10

End Date: 13-APR-10

Client Sdg: 10-2025

Method: MS

Data File: 100413-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	11:45:00	X																							
S10	1	11:47:00	X																							
S100	1	11:49:00	X																							
ICV01	1	11:52:00	X																							
ICB01	1	11:54:00	X																							
CRDL01	1	11:57:00	X																							
ICSA01	1	11:59:00	X																							
ICSAB01	1	12:02:00	X																							
CCV01	1	12:04:00	X																							
CCB01	1	12:07:00	X																							
ZZZZZZ	1	12:09:00																								
ZZZZZZ	1	12:12:00																								
ZZZZZZ	1	12:14:00																								
ZZZZZZ	1	12:16:00																								
ZZZZZZ	1	12:19:00																								
ZZZZZZ	1	12:21:00																								
ZZZZZZ	1	12:24:00																								
ZZZZZZ	5	12:26:00																								
ZZZZZZ	1	12:29:00																								
CCV02	1	12:31:00	X																							
CCB02	1	12:34:00	X																							
1202056813	1	12:36:00	X																							
1202056814	1	12:39:00	X																							
247997001	1	12:41:00	X																							
ZZZZZZ	1	12:44:00																								
ZZZZZZ	1	12:46:00																								
ZZZZZZ	1	12:48:00																								
ZZZZZZ	1	12:51:00																								
CCV03	1	12:53:00	X																							
CCB03	1	12:56:00	X																							
ZZZZZZ	1	12:58:00																								
ZZZZZZ	1	13:01:00																								
ZZZZZZ	1	13:03:00																								
ZZZZZZ	1	13:06:00																								
ZZZZZZ	1	13:08:00																								
ZZZZZZ	1	13:11:00																								
ZZZZZZ	5	13:13:00																								
ZZZZZZ	1	13:19:00																								
CCV04	1	13:21:00	X																							
CCB04	1	13:24:00	X																							

Samp No.	D/F	Run Time
ZZZZZ	1	13:26:00
I202056815	1	13:29:00
I202056816	1	13:31:00
I202056817	5	13:34:00
CCV05	1	13:36:00
CCB05	1	13:39:00

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 13-APR-10

End Date: 13-APR-10

Client Sdg: 10-2025

Method: MS

Data File: 100413-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	15:12:00																						X		
S10	1	15:14:00																						X		
S100	1	15:16:00																						X		
ICV01	1	15:17:00																						X		
ICB01	1	15:19:00																						X		
CRDL01	1	15:21:00																						X		
ICSA01	1	15:22:00																						X		
ICSAB01	1	15:24:00																						X		
CCV01	1	15:26:00																						X		
CCB01	1	15:27:00																						X		
ZZZZZZ	1	15:29:00																								
ZZZZZZ	1	15:31:00																								
ZZZZZZ	1	15:32:00																								
ZZZZZZ	1	15:34:00																								
ZZZZZZ	1	15:35:00																								
ZZZZZZ	1	15:37:00																								
ZZZZZZ	1	15:39:00																								
ZZZZZZ	5	15:40:00																								
ZZZZZZ	1	15:42:00																								
CCV02	1	15:44:00																						X		
CCB02	1	15:45:00																						X		
1202056813	1	15:47:00																						X		
1202056814	1	15:49:00																						X		
247997001	1	15:50:00																						X		
ZZZZZZ	1	15:52:00																								
ZZZZZZ	1	15:54:00																								
ZZZZZZ	1	15:55:00																								
ZZZZZZ	1	15:57:00																								
CCV03	1	15:59:00																						X		
CCB03	1	16:00:00																						X		
ZZZZZZ	1	16:02:00																								
ZZZZZZ	1	16:04:00																								
ZZZZZZ	1	16:05:00																								
ZZZZZZ	1	16:07:00																								
1202056815	1	16:09:00																						X		
1202056816	1	16:10:00																						X		
1202056817	5	16:12:00																						X		
CCV04	1	16:14:00																						X		
CCB04	1	16:15:00																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 26-MAR-10

End Date: 27-MAR-10

Client Sdg: 10-2025

Method P

Data File: 032610A-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	18:59:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	19:07:00			X	X				X	X	X						X	X	X	X				X	X
S0.5	1	19:14:00	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	19:21:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	19:27:00	X						X				X		X							X				
ICV01	1	19:33:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	19:40:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	19:47:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	19:54:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	20:01:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	20:08:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	20:15:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV01	1	20:21:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	20:28:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR03	1	20:36:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	20:43:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	20:50:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	20:57:00																								
ZZZZZZ	1	21:04:00																								
ZZZZZZ	1	21:11:00																								
ZZZZZZ	1	21:18:00																								
ZZZZZZ	1	21:25:00																								
ZZZZZZ	5	21:32:00																								
ZZZZZZ	1	21:38:00																								
ZZZZZZ	1	21:45:00																								
ZZZZZZ	1	21:52:00																								
CCV03	1	21:59:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	22:06:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056808	1	22:13:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
1202056809	1	22:20:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
247997001	1	22:27:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	22:34:00																								
ZZZZZZ	1	22:41:00																								
ZZZZZZ	1	22:48:00																								
ZZZZZZ	1	22:55:00																								
CCV04	1	23:02:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB04	1	23:09:00	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	23:16:00																								
ZZZZZZ	1	23:23:00																								
ZZZZZZ	1	23:30:00																								

Samp No.	D/F	Run Time																								
1202056810	1	23:37:00	X		X	X			X	X	X	X	X	X		X	X	X	X	X			X	X		
1202056811	1	23:44:00	X		X	X			X	X	X	X	X	X		X	X	X	X	X			X	X		
1202056812	5	23:51:00	X		X	X			X	X	X	X	X	X		X	X	X	X	X			X	X		
ZZZZZ	1	23:57:00																								
CCV05	1	00:04:00	X		X	X			X	X	X	X	X	X		X	X	X	X	X			X	X		
CCB05	1	00:11:00	X		X	X			X	X	X	X	X	X		X	X	X	X	X			X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 02-MAR-10

End Date: 02-MAR-10

Client Sdg: 10-2025

Method AV

Data File: 030210W3-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	08:28:00															X									
S0.2	1	08:30:00															X									
S0.5	1	08:31:00															X									
S2.0	1	08:33:00															X									
S5.0	1	08:35:00															X									
S10.0	1	08:37:00															X									
ICV01	1	08:39:00															X									
ICB01	1	08:41:00															X									
CRDL01	1	08:43:00															X									
CCV01	1	08:45:00															X									
CCB01	1	08:47:00															X									
ZZZZZZ	1	08:49:00																								
ZZZZZZ	1	08:51:00																								
ZZZZZZ	1	08:53:00																								
ZZZZZZ	1	08:55:00																								
ZZZZZZ	1	08:57:00																								
ZZZZZZ	5	08:58:00																								
ZZZZZZ	1	09:00:00																								
ZZZZZZ	1	09:02:00																								
ZZZZZZ	1	09:04:00																								
ZZZZZZ	1	09:06:00																								
CCV02	1	09:08:00															X									
CCB02	1	09:10:00															X									
ZZZZZZ	1	09:12:00																								
ZZZZZZ	1	09:14:00																								
ZZZZZZ	1	09:16:00																								
ZZZZZZ	1	09:18:00																								
ZZZZZZ	1	09:20:00																								
ZZZZZZ	1	09:21:00																								
ZZZZZZ	1	09:23:00																								
ZZZZZZ	1	09:25:00																								
ZZZZZZ	5	09:27:00																								
ZZZZZZ	1	09:29:00																								
CCV03	1	09:31:00															X									
CCB03	1	09:33:00															X									
ZZZZZZ	1	09:35:00																								
ZZZZZZ	1	09:37:00																								
ZZZZZZ	1	09:39:00																								
ZZZZZZ	1	09:41:00																								
ZZZZZZ	1	09:43:00																								

Samp No.	D/F	Run Time
ZZZZZZ	1	09:45:00
ZZZZZZ	1	09:47:00
ZZZZZZ	1	09:48:00
ZZZZZZ	1	09:50:00
ZZZZZZ	1	09:52:00
CCV04	1	09:54:00
CCB04	1	09:56:00
ZZZZZZ	1	09:58:00
ZZZZZZ	1	10:00:00
ZZZZZZ	1	10:02:00
ZZZZZZ	5	10:04:00
ZZZZZZ	1	10:06:00
ZZZZZZ	1	10:08:00
ZZZZZZ	1	10:10:00
ZZZZZZ	1	10:12:00
ZZZZZZ	1	10:13:00
ZZZZZZ	1	10:15:00
CCV05	1	10:17:00
CCB05	1	10:19:00
ZZZZZZ	1	10:21:00
ZZZZZZ	1	10:23:00
ZZZZZZ	1	10:25:00
ZZZZZZ	1	10:27:00
ZZZZZZ	1	10:29:00
ZZZZZZ	5	10:31:00
ZZZZZZ	1	10:33:00
ZZZZZZ	1	10:35:00
ZZZZZZ	1	10:37:00
ZZZZZZ	1	10:39:00
CCV06	1	10:41:00
CCB06	1	10:42:00
ZZZZZZ	1	10:44:00
ZZZZZZ	1	10:46:00
ZZZZZZ	1	10:48:00
ZZZZZZ	1	10:50:00
ZZZZZZ	1	10:52:00
ZZZZZZ	1	10:54:00
ZZZZZZ	1	10:56:00
ZZZZZZ	1	10:58:00
ZZZZZZ	1	11:00:00

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	5	11:02:00																								
CCV07	1	11:04:00															X									
CCB07	1	11:06:00															X									
ZZZZZZ	1	11:08:00																								
ZZZZZZ	1	11:09:00																								
ZZZZZZ	1	11:11:00																								
ZZZZZZ	1	11:13:00																								
1202056573	1	11:15:00															X									
1202056574	1	11:17:00															X									
247997001	1	11:19:00															X									
ZZZZZZ	1	11:21:00																								
ZZZZZZ	1	11:23:00																								
ZZZZZZ	1	11:25:00																								
CCV08	1	11:27:00															X									
CCB08	1	11:29:00															X									
ZZZZZZ	1	11:31:00																								
ZZZZZZ	1	11:33:00																								
ZZZZZZ	1	11:35:00																								
ZZZZZZ	1	11:37:00																								
ZZZZZZ	1	11:39:00																								
ZZZZZZ	1	11:40:00																								
ZZZZZZ	1	11:42:00																								
ZZZZZZ	1	11:44:00																								
ZZZZZZ	1	11:46:00																								
ZZZZZZ	1	11:48:00																								
CCV09	1	11:50:00															X									
CCB09	1	11:52:00															X									
ZZZZZZ	1	11:54:00																								
ZZZZZZ	1	11:56:00																								
ZZZZZZ	1	11:58:00																								
ZZZZZZ	1	12:00:00																								
1202056575	1	12:02:00															X									
1202056576	1	12:04:00															X									
1202056577	5	12:06:00															X									
ZZZZZZ	1	12:08:00																								
ZZZZZZ	1	12:10:00																								
ZZZZZZ	1	12:12:00																								
CCV10	1	12:14:00															X									
CCB10	1	12:15:00															X									

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 11-APR-10

End Date: 12-APR-10

Client Sdg: 10-2025

Method MS

Data File: 100411-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	23:26:00					X	X						X	X							X				
S10	1	23:32:00					X	X						X	X							X				
S100	1	23:38:00					X	X						X	X							X				
ICV01	1	23:44:00					X	X						X	X							X				
ICB01	1	23:50:00					X	X						X	X							X				
CRDL01	1	23:56:00					X	X						X	X							X				
ICSA01	1	00:02:00					X	X						X	X							X				
ICSAB01	1	00:09:00					X	X						X	X							X				
CCV01	1	00:15:00					X	X						X	X							X				
CCB01	1	00:21:00					X	X						X	X							X				
LR01	1	00:27:00					X	X						X	X							X				
CCV02	1	00:33:00					X	X						X	X							X				
CCB02	1	00:39:00					X	X						X	X							X				
1202056813	1	00:45:00					X	X						X	X							X				
1202056814	1	00:52:00					X	X						X	X							X				
247997001	1	00:58:00					X	X						X	X							X				
ZZZZZZ	1	01:04:00																								
ZZZZZZ	1	01:10:00																								
ZZZZZZ	1	01:16:00																								
ZZZZZZ	1	01:23:00																								
ZZZZZZ	1	01:29:00																								
ZZZZZZ	1	01:35:00																								
CCV03	1	01:41:00					X	X						X	X							X				
CCB03	1	01:47:00					X	X						X	X							X				
ZZZZZZ	1	01:54:00																								
1202056815	1	02:00:00					X	X						X	X							X				
1202056816	1	02:06:00					X	X						X	X							X				
1202056817	5	02:12:00					X	X						X	X							X				
ZZZZZZ	1	02:18:00																								
CCV04	1	02:25:00					X	X						X	X							X				
CCB04	1	02:31:00					X	X						X	X							X				

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

		<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY	<u>Analyte</u>			
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2025**Contract: **LANL01004**Instrument: **OPTIMA3**Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2025**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2025**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2025**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Tin	Titanium	Uranium	Vanadium	Zinc
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2025

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10

Raw Data

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Analysis Begun

Start Time: 3/26/2010 18:59:42

Plasma On Time: 3/26/2010 18:41:22

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\032610.sif

Batch ID:

Results Data Set: 032610A

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/26/2010 18:59:42

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3784.2	3784.2	99.9 %	19:01:55
1	Y RADIAL	4053.5	4053.5	99.28 %	19:01:35
1	Al 396.153Radial†	-70.1	-70.1	[0.00] ug/L	19:01:55
1	Ca 317.933Radial†	24.1	24.2	[0.00] ug/L	19:01:55
1	Fe 238.204 Radial†	9.9	9.9	[0.00] ug/L	19:01:55
1	K 766.490 Radial†	2442.9	2445.3	[0.00] ug/L	19:01:35
1	Mg 279.077 IEC†	1.9	1.9	[0.00] ug/L	19:01:55
1	Na 589.592 Radial†	-395.5	-395.9	[0.00] ug/L	19:01:35
1	Sr 421.552†	43.7	43.7	[0.00] ug/L	19:01:35
1	Sc 361.383	721339.3	721339.3	98.435 %	19:02:52
1	Y 371.029	594849.4	594849.4	98.416 %	19:02:52
1	Ag 328.068†	159.0	161.6	[0.00] ug/L	19:02:52
1	As 188.979†	-18.6	-18.9	[0.00] ug/L	19:03:12
1	B 249.677†	-326.1	-331.3	[0.00] ug/L	19:03:12
1	Ba 233.527†	-2.4	-2.4	[0.00] ug/L	19:03:12
1	Be 313.107†	-3890.2	-3952.0	[0.00] ug/L	19:02:52
1	Cd 226.502†	-169.3	-172.0	[0.00] ug/L	19:03:12
1	Co 228.616†	-48.1	-48.9	[0.00] ug/L	19:03:12
1	Cr 267.716†	94.7	96.2	[0.00] ug/L	19:03:12
1	Cu 324.752†	5666.7	5756.8	[0.00] ug/L	19:02:52
1	Mn 257.610†	429.7	436.5	[0.00] ug/L	19:03:12
1	Mo 202.031†	13.9	14.1	[0.00] ug/L	19:03:12
1	Ni 231.604†	89.7	91.1	[0.00] ug/L	19:03:12
1	P 214.914†	196.9	200.1	[0.00] ug/L	19:03:12
1	Pb 220.353†	-52.9	-53.7	[0.00] ug/L	19:03:12
1	S 181.975 Axial†	27.1	27.5	[0.00] ug/L	19:03:12
1	Sb 206.836†	25.3	25.7	[0.00] ug/L	19:03:12
1	Se 196.026†	-25.0	-25.4	[0.00] ug/L	19:03:12
1	Si 251.611†	450.1	457.2	[0.00] ug/L	19:03:12
1	Sn 189.927†	15.5	15.7	[0.00] ug/L	19:03:12
1	Ti 334.940†	-1040.4	-1056.9	[0.00] ug/L	19:02:52
1	Tl 190.801†	-19.9	-20.2	[0.00] ug/L	19:03:12
1	U 409.014†	-1712.7	-1740.0	[0.00] ug/L	19:02:52
1	V 292.402†	-1338.4	-1359.7	[0.00] ug/L	19:02:52
1	Zn 213.857†	662.4	672.9	[0.00] ug/L	19:03:12
1	SiO2†	463.9	471.2	[0.00] ug/L	19:04:23
2	Sc Radial	3854.2	3854.2	102 %	19:02:20
2	Y RADIAL	4161.4	4161.4	101.9 %	19:02:00
2	Al 396.153Radial†	-73.3	-72.1	[0.00] ug/L	19:02:20
2	Ca 317.933Radial†	23.5	23.1	[0.00] ug/L	19:02:20
2	Fe 238.204 Radial†	9.3	9.1	[0.00] ug/L	19:02:20
2	K 766.490 Radial†	2503.4	2460.4	[0.00] ug/L	19:02:00
2	Mg 279.077 IEC†	3.2	3.2	[0.00] ug/L	19:02:20
2	Na 589.592 Radial†	-388.6	-381.9	[0.00] ug/L	19:02:00
2	Sr 421.552†	48.8	47.9	[0.00] ug/L	19:02:00
2	Sc 361.383	725301.9	725301.9	98.976 %	19:03:17
2	Y 371.029	598502.2	598502.2	99.020 %	19:03:17

2	Ag 328.068†	161.0	162.6	[0.00]	ug/L	19:03:17
2	As 188.979†	-23.0	-23.3	[0.00]	ug/L	19:03:37
2	B 249.677†	-356.6	-360.3	[0.00]	ug/L	19:03:37
2	Ba 233.527†	9.0	9.1	[0.00]	ug/L	19:03:37
2	Be 313.107†	-3901.0	-3941.3	[0.00]	ug/L	19:03:17
2	Cd 226.502†	-171.1	-172.9	[0.00]	ug/L	19:03:37
2	Co 228.616†	-47.4	-47.9	[0.00]	ug/L	19:03:37
2	Cr 267.716†	104.0	105.1	[0.00]	ug/L	19:03:37
2	Cu 324.752†	5597.9	5655.8	[0.00]	ug/L	19:03:17
2	Mn 257.610†	428.5	432.9	[0.00]	ug/L	19:03:37
2	Mo 202.031†	13.7	13.8	[0.00]	ug/L	19:03:37
2	Ni 231.604†	82.8	83.7	[0.00]	ug/L	19:03:37
2	P 214.914†	182.2	184.1	[0.00]	ug/L	19:03:37
2	Pb 220.353†	-46.7	-47.2	[0.00]	ug/L	19:03:37
2	S 181.975 Axial†	26.8	27.1	[0.00]	ug/L	19:03:37
2	Sb 206.836†	30.4	30.7	[0.00]	ug/L	19:03:37
2	Se 196.026†	-21.2	-21.5	[0.00]	ug/L	19:03:37
2	Si 251.611†	445.1	449.7	[0.00]	ug/L	19:03:37
2	Sn 189.927†	12.8	13.0	[0.00]	ug/L	19:03:37
2	Ti 334.940†	-1032.1	-1042.8	[0.00]	ug/L	19:03:17
2	Tl 190.801†	-27.5	-27.8	[0.00]	ug/L	19:03:37
2	U 409.014†	-1939.5	-1959.6	[0.00]	ug/L	19:03:17
2	V 292.402†	-1464.5	-1479.7	[0.00]	ug/L	19:03:17
2	Zn 213.857†	650.3	657.0	[0.00]	ug/L	19:03:37
2	SiO2†	474.2	479.1	[0.00]	ug/L	19:04:43
3	Sc Radial	3725.7	3725.7	98.4 %		19:02:45
3	Y RADIAL	4033.3	4033.3	98.79 %		19:02:25
3	Al 396.153Radial†	-75.1	-76.4	[0.00]	ug/L	19:02:45
3	Ca 317.933Radial†	18.2	18.5	[0.00]	ug/L	19:02:45
3	Fe 238.204 Radial†	6.2	6.3	[0.00]	ug/L	19:02:45
3	K 766.490 Radial†	2488.2	2529.8	[0.00]	ug/L	19:02:25
3	Mg 279.077 IEC†	3.3	3.4	[0.00]	ug/L	19:02:45
3	Na 589.592 Radial†	-374.8	-381.1	[0.00]	ug/L	19:02:25
3	Sr 421.552†	25.7	26.1	[0.00]	ug/L	19:02:25
3	Sc 361.383	751775.1	751775.1	102.59 %		19:03:42
3	Y 371.029	619924.0	619924.0	102.56 %		19:03:42
3	Ag 328.068†	135.7	132.3	[0.00]	ug/L	19:03:42
3	As 188.979†	-25.3	-24.7	[0.00]	ug/L	19:04:02
3	B 249.677†	-321.4	-313.3	[0.00]	ug/L	19:04:02
3	Ba 233.527†	1.0	1.0	[0.00]	ug/L	19:04:02
3	Be 313.107†	-3879.4	-3781.5	[0.00]	ug/L	19:03:42
3	Cd 226.502†	-173.0	-168.6	[0.00]	ug/L	19:04:02
3	Co 228.616†	-44.5	-43.3	[0.00]	ug/L	19:04:02
3	Cr 267.716†	86.1	83.9	[0.00]	ug/L	19:04:02
3	Cu 324.752†	5886.8	5738.3	[0.00]	ug/L	19:03:42
3	Mn 257.610†	417.7	407.2	[0.00]	ug/L	19:04:02
3	Mo 202.031†	22.9	22.4	[0.00]	ug/L	19:04:02
3	Ni 231.604†	74.7	72.8	[0.00]	ug/L	19:04:02
3	P 214.914†	185.9	181.2	[0.00]	ug/L	19:04:02
3	Pb 220.353†	-47.5	-46.3	[0.00]	ug/L	19:04:02
3	S 181.975 Axial†	27.4	26.7	[0.00]	ug/L	19:04:02
3	Sb 206.836†	21.0	20.5	[0.00]	ug/L	19:04:02
3	Se 196.026†	-18.8	-18.4	[0.00]	ug/L	19:04:02
3	Si 251.611†	472.1	460.2	[0.00]	ug/L	19:04:02
3	Sn 189.927†	12.6	12.3	[0.00]	ug/L	19:04:02
3	Ti 334.940†	-1060.0	-1033.2	[0.00]	ug/L	19:03:42
3	Tl 190.801†	-19.3	-18.8	[0.00]	ug/L	19:04:02
3	U 409.014†	-1849.2	-1802.5	[0.00]	ug/L	19:03:42
3	V 292.402†	-1336.1	-1302.4	[0.00]	ug/L	19:03:42
3	Zn 213.857†	666.3	649.5	[0.00]	ug/L	19:04:02
3	SiO2†	453.1	441.6	[0.00]	ug/L	19:05:03

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	732805.4	16547.26	2.26%	100.000 %
Sc Radial	3788.0	64.32	1.70%	100 %
Y 371.029	604425.2	13546.07	2.24%	100.00 %
Y RADIAL	4082.7	68.88	1.69%	100.0 %
Ag 328.068†	152.2	17.20	11.30%	[0.00] ug/L

Al 396.153Radial†	-72.9	3.20	4.39%	[0.00]	ug/L
As 188.979†	-22.3	3.01	13.48%	[0.00]	ug/L
B 249.677†	-335.0	23.71	7.08%	[0.00]	ug/L
Ba 233.527†	2.6	5.93	232.05%	[0.00]	ug/L
Be 313.107†	-3891.6	95.53	2.45%	[0.00]	ug/L
Ca 317.933Radial†	21.9	3.04	13.88%	[0.00]	ug/L
Cd 226.502†	-171.2	2.26	1.32%	[0.00]	ug/L
Co 228.616†	-46.7	2.96	6.33%	[0.00]	ug/L
Cr 267.716†	95.1	10.62	11.17%	[0.00]	ug/L
Cu 324.752†	5717.0	53.75	0.94%	[0.00]	ug/L
Fe 238.204 Radial†	8.5	1.89	22.38%	[0.00]	ug/L
K 766.490 Radial†	2478.5	45.07	1.82%	[0.00]	ug/L
Mg 279.077 IEC†	2.8	0.81	28.97%	[0.00]	ug/L
Mn 257.610†	425.5	15.99	3.76%	[0.00]	ug/L
Mo 202.031†	16.7	4.86	29.00%	[0.00]	ug/L
Na 589.592 Radial†	-386.3	8.34	2.16%	[0.00]	ug/L
Ni 231.604†	82.6	9.20	11.14%	[0.00]	ug/L
P 214.914†	188.5	10.17	5.40%	[0.00]	ug/L
Pb 220.353†	-49.1	4.05	8.25%	[0.00]	ug/L
S 181.975 Axial†	27.1	0.40	1.47%	[0.00]	ug/L
Sb 206.836†	25.6	5.12	19.98%	[0.00]	ug/L
Se 196.026†	-21.7	3.51	16.18%	[0.00]	ug/L
Si 251.611†	455.7	5.39	1.18%	[0.00]	ug/L
Sn 189.927†	13.6	1.81	13.25%	[0.00]	ug/L
Sr 421.552†	39.3	11.56	29.43%	[0.00]	ug/L
Ti 334.940†	-1044.3	11.92	1.14%	[0.00]	ug/L
Tl 190.801†	-22.3	4.86	21.84%	[0.00]	ug/L
U 409.014†	-1834.0	113.13	6.17%	[0.00]	ug/L
V 292.402†	-1380.6	90.48	6.55%	[0.00]	ug/L
Zn 213.857†	659.8	11.94	1.81%	[0.00]	ug/L
SiO2†	464.0	19.75	4.26%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/26/2010 19:07:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	3959.8	3959.8	105	%	19:09:25
1	Y RADIAL	4241.6	4241.6	103.9	%	19:09:25
1	K 766.490 Radial†	6985.1	4203.4	[1000]	ug/L	19:09:05
1	Sr 421.552†	10622.4	10122.3	[100]	ug/L	19:09:25
1	Sc 361.383	756854.1	756854.1	103.28	%	19:10:22
1	Y 371.029	624292.2	624292.2	103.29	%	19:10:22
1	Ag 328.068†	18964.0	18209.2	[100]	ug/L	19:10:22
1	As 188.979†	155.5	172.8	[100]	ug/L	19:10:42
1	B 249.677†	3142.4	3377.5	[100]	ug/L	19:10:22
1	Ba 233.527†	10249.5	9921.2	[100]	ug/L	19:10:22
1	Be 313.107†	225796.6	222513.6	[100]	ug/L	19:10:22
1	Cd 226.502†	6385.3	6353.5	[100]	ug/L	19:10:42
1	Co 228.616†	3781.5	3708.1	[100]	ug/L	19:10:42
1	Cr 267.716†	7089.6	6769.3	[100]	ug/L	19:10:22
1	Cu 324.752†	35323.9	28484.5	[100]	ug/L	19:10:22
1	Mn 257.610†	74848.6	72044.8	[100]	ug/L	19:10:22
1	Mo 202.031†	1079.6	1028.5	[100]	ug/L	19:10:42
1	Ni 231.604†	3108.5	2927.1	[100]	ug/L	19:10:42
1	P 214.914†	861.6	645.7	[500]	ug/L	19:10:42
1	Pb 220.353†	587.6	618.0	[100]	ug/L	19:10:42
1	S 181.975 Axial†	136.4	104.9	[200]	ug/L	19:10:42
1	Sb 206.836†	269.0	234.9	[100]	ug/L	19:10:42
1	Se 196.026†	103.2	121.6	[100]	ug/L	19:10:42
1	Si 251.611†	13311.5	12432.8	[500]	ug/L	19:10:22
1	Sn 189.927†	435.9	408.4	[100]	ug/L	19:10:42
1	Ti 334.940†	54432.5	53747.3	[100]	ug/L	19:10:22
1	Tl 190.801†	220.1	235.4	[100]	ug/L	19:10:42
1	U 409.014†	1346.1	3137.3	[100]	ug/L	19:10:22
1	V 292.402†	10429.2	11478.4	[100]	ug/L	19:10:22
1	Zn 213.857†	8780.6	7841.8	[100]	ug/L	19:10:22
1	SiO2†	13483.6	12591.1	[1069.5]	ug/L	19:11:39
2	Sc Radial	3905.9	3905.9	103	%	19:09:51
2	Y RADIAL	4193.6	4193.6	102.7	%	19:09:51
2	K 766.490 Radial†	7477.5	4773.4	[1000]	ug/L	19:09:31
2	Sr 421.552†	10707.1	10344.8	[100]	ug/L	19:09:51
2	Sc 361.383	814135.1	814135.1	111.10	%	19:10:48
2	Y 371.029	670029.6	670029.6	110.85	%	19:10:48
2	Ag 328.068†	20316.1	18134.4	[100]	ug/L	19:10:48
2	As 188.979†	159.4	165.8	[100]	ug/L	19:11:08
2	B 249.677†	3415.9	3409.6	[100]	ug/L	19:10:48
2	Ba 233.527†	11008.6	9906.3	[100]	ug/L	19:10:48
2	Be 313.107†	241618.2	221372.9	[100]	ug/L	19:10:48
2	Cd 226.502†	6350.0	5886.8	[100]	ug/L	19:11:08
2	Co 228.616†	3753.8	3425.6	[100]	ug/L	19:11:08
2	Cr 267.716†	7587.4	6734.4	[100]	ug/L	19:10:48
2	Cu 324.752†	37932.7	28426.3	[100]	ug/L	19:10:48
2	Mn 257.610†	80125.1	71695.3	[100]	ug/L	19:10:48
2	Mo 202.031†	1077.1	952.8	[100]	ug/L	19:11:08
2	Ni 231.604†	3069.3	2680.1	[100]	ug/L	19:11:08
2	P 214.914†	861.5	587.0	[500]	ug/L	19:11:08
2	Pb 220.353†	582.8	573.7	[100]	ug/L	19:11:08
2	S 181.975 Axial†	138.7	97.7	[200]	ug/L	19:11:08
2	Sb 206.836†	268.9	216.4	[100]	ug/L	19:11:08
2	Se 196.026†	99.3	111.1	[100]	ug/L	19:11:08
2	Si 251.611†	14272.2	12390.8	[500]	ug/L	19:10:48
2	Sn 189.927†	424.6	368.6	[100]	ug/L	19:11:08
2	Ti 334.940†	58617.3	53806.0	[100]	ug/L	19:10:48
2	Tl 190.801†	228.9	228.3	[100]	ug/L	19:11:08
2	U 409.014†	1537.3	3217.8	[100]	ug/L	19:10:48

2	V 292.402†	11218.7	11478.6	[100]	ug/L	19:10:48
2	Zn 213.857†	9334.9	7742.5	[100]	ug/L	19:10:48
2	SiO2†	13297.4	11505.1	[1069.5]	ug/L	19:11:44
3	Sc Radial	3922.9	3922.9	104	%	19:10:16
3	Y RADIAL	4216.4	4216.4	103.3	%	19:10:16
3	K 766.490 Radial†	7297.7	4568.2	[1000]	ug/L	19:09:56
3	Sr 421.552†	10808.0	10397.0	[100]	ug/L	19:10:16
3	Sc 361.383	755634.2	755634.2	103.12	%	19:11:14
3	Y 371.029	622938.6	622938.6	103.06	%	19:11:14
3	Ag 328.068†	18941.2	18216.8	[100]	ug/L	19:11:14
3	As 188.979†	154.6	172.2	[100]	ug/L	19:11:34
3	B 249.677†	3102.5	3343.8	[100]	ug/L	19:11:14
3	Ba 233.527†	10272.6	9959.7	[100]	ug/L	19:11:14
3	Be 313.107†	225553.0	222630.4	[100]	ug/L	19:11:14
3	Cd 226.502†	6336.8	6316.5	[100]	ug/L	19:11:34
3	Co 228.616†	3751.6	3684.9	[100]	ug/L	19:11:34
3	Cr 267.716†	7145.2	6834.3	[100]	ug/L	19:11:14
3	Cu 324.752†	35269.0	28486.5	[100]	ug/L	19:11:14
3	Mn 257.610†	74830.8	72144.5	[100]	ug/L	19:11:14
3	Mo 202.031†	1073.7	1024.5	[100]	ug/L	19:11:34
3	Ni 231.604†	3093.7	2917.7	[100]	ug/L	19:11:34
3	P 214.914†	855.9	641.6	[500]	ug/L	19:11:34
3	Pb 220.353†	575.1	606.8	[100]	ug/L	19:11:34
3	S 181.975 Axial†	144.4	112.9	[200]	ug/L	19:11:34
3	Sb 206.836†	264.5	230.9	[100]	ug/L	19:11:34
3	Se 196.026†	91.1	110.1	[100]	ug/L	19:11:34
3	Si 251.611†	13300.0	12442.4	[500]	ug/L	19:11:14
3	Sn 189.927†	428.0	401.4	[100]	ug/L	19:11:34
3	Ti 334.940†	54429.7	53829.6	[100]	ug/L	19:11:14
3	Tl 190.801†	224.8	240.3	[100]	ug/L	19:11:34
3	U 409.014†	1480.9	3270.1	[100]	ug/L	19:11:14
3	V 292.402†	10394.2	11460.8	[100]	ug/L	19:11:14
3	Zn 213.857†	8781.8	7856.6	[100]	ug/L	19:11:14
3	SiO2†	13472.0	12601.0	[1069.5]	ug/L	19:11:49

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	775541.2	33428.90	4.31%	105.83 %
Sc Radial	3929.5	27.59	0.70%	104 %
Y 371.029	639086.8	26805.79	4.19%	105.73 %
Y RADIAL	4217.2	23.97	0.57%	103.3 %
Ag 328.068†	18186.8	45.56	0.25%	[100] ug/L
As 188.979†	170.3	3.91	2.29%	[100] ug/L
B 249.677†	3377.0	32.91	0.97%	[100] ug/L
Ba 233.527†	9929.1	27.53	0.28%	[100] ug/L
Be 313.107†	222172.3	694.77	0.31%	[100] ug/L
Cd 226.502†	6185.6	259.46	4.19%	[100] ug/L
Co 228.616†	3606.2	156.85	4.35%	[100] ug/L
Cr 267.716†	6779.3	50.69	0.75%	[100] ug/L
Cu 324.752†	28465.8	34.17	0.12%	[100] ug/L
K 766.490 Radial†	4515.0	288.69	6.39%	[1000] ug/L
Mn 257.610†	71961.6	235.88	0.33%	[100] ug/L
Mo 202.031†	1001.9	42.63	4.26%	[100] ug/L
Ni 231.604†	2841.7	139.96	4.93%	[100] ug/L
P 214.914†	624.8	32.75	5.24%	[500] ug/L
Pb 220.353†	599.5	23.04	3.84%	[100] ug/L
S 181.975 Axial†	105.2	7.59	7.22%	[200] ug/L
Sb 206.836†	227.4	9.72	4.28%	[100] ug/L
Se 196.026†	114.3	6.40	5.61%	[100] ug/L
Si 251.611†	12422.0	27.47	0.22%	[500] ug/L
Sn 189.927†	392.8	21.28	5.42%	[100] ug/L
Sr 421.552†	10288.0	145.93	1.42%	[100] ug/L
Ti 334.940†	53794.3	42.39	0.08%	[100] ug/L
Tl 190.801†	234.6	6.04	2.57%	[100] ug/L
U 409.014†	3208.4	66.91	2.09%	[100] ug/L
V 292.402†	11472.6	10.23	0.09%	[100] ug/L
Zn 213.857†	7813.6	62.05	0.79%	[100] ug/L
SiO2†	12232.4	629.92	5.15%	[1069.5] ug/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 3/26/2010 19:14:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3948.4	3948.4	104 %	19:16:12
1	Y RADIAL	4473.3	4473.3	109.6 %	19:15:52
1	Al 396.153Radial†	4578.3	4465.2	[5000] ug/L	19:15:52
1	Ca 317.933Radial†	2438.3	2317.4	[5000] ug/L	19:16:12
1	K 766.490 Radial†	26802.6	23235.5	[5000] ug/L	19:15:52
1	Mg 279.077 IEC†	119.1	111.5	[5000] ug/L	19:16:12
1	Sr 421.552†	59246.6	56801.0	[500] ug/L	19:15:52
1	Sc 361.383	781698.4	781698.4	106.67 %	19:17:10
1	Y 371.029	639119.4	639119.4	105.74 %	19:17:10
1	Ag 328.068†	96625.6	90429.8	[500] ug/L	19:17:15
1	As 188.979†	867.1	835.2	[500] ug/L	19:17:35
1	B 249.677†	17582.0	16817.3	[500] ug/L	19:17:15
1	Ba 233.527†	51877.6	48630.2	[500] ug/L	19:17:15
1	Be 313.107†	1151343.1	1083221.5	[500] ug/L	19:17:10
1	Cd 226.502†	33338.3	31424.2	[500] ug/L	19:17:15
1	Co 228.616†	19217.2	18061.9	[500] ug/L	19:17:15
1	Cr 267.716†	35556.5	33237.5	[500] ug/L	19:17:15
1	Cu 324.752†	157545.2	141974.3	[500] ug/L	19:17:15
1	Mn 257.610†	368217.3	344760.8	[500] ug/L	19:17:10
1	Mo 202.031†	5413.8	5058.5	[500] ug/L	19:17:35
1	Ni 231.604†	15495.1	14443.3	[500] ug/L	19:17:15
1	P 214.914†	3545.1	3134.9	[2500] ug/L	19:17:35
1	Pb 220.353†	3084.6	2940.7	[500] ug/L	19:17:35
1	S 181.975 Axial†	590.8	526.7	[1000] ug/L	19:17:35
1	Sb 206.836†	1196.0	1095.6	[500] ug/L	19:17:35
1	Se 196.026†	580.7	566.1	[500] ug/L	19:17:35
1	Si 251.611†	66672.6	62046.7	[2500] ug/L	19:17:15
1	Sn 189.927†	2159.6	2010.9	[500] ug/L	19:17:35
1	Ti 334.940†	280353.8	263862.8	[500] ug/L	19:17:15
1	Tl 190.801†	1235.2	1180.2	[500] ug/L	19:17:35
1	U 409.014†	14321.3	15259.6	[500] ug/L	19:17:15
1	V 292.402†	58928.3	56623.1	[500] ug/L	19:17:15
1	Zn 213.857†	41570.1	38310.2	[500] ug/L	19:17:15
1	SiO2†	65661.9	61090.9	[5347.5] ug/L	19:18:42
2	Sc Radial	3835.3	3835.3	101 %	19:16:37
2	Y RADIAL	4488.0	4488.0	109.9 %	19:16:17
2	Al 396.153Radial†	4606.4	4622.5	[5000] ug/L	19:16:17
2	Ca 317.933Radial†	2403.3	2351.7	[5000] ug/L	19:16:37
2	K 766.490 Radial†	26935.2	24124.4	[5000] ug/L	19:16:17
2	Mg 279.077 IEC†	113.3	109.1	[5000] ug/L	19:16:37
2	Sr 421.552†	59628.1	58853.4	[500] ug/L	19:16:17
2	Sc 361.383	786326.1	786326.1	107.30 %	19:17:41
2	Y 371.029	642760.6	642760.6	106.34 %	19:17:41
2	Ag 328.068†	94729.6	88129.7	[500] ug/L	19:17:46
2	As 188.979†	848.5	813.1	[500] ug/L	19:18:06
2	B 249.677†	17147.9	16315.8	[500] ug/L	19:17:46
2	Ba 233.527†	51040.3	47563.8	[500] ug/L	19:17:46
2	Be 313.107†	1143791.7	1069832.0	[500] ug/L	19:17:41
2	Cd 226.502†	32820.7	30757.9	[500] ug/L	19:17:46
2	Co 228.616†	18895.8	17656.4	[500] ug/L	19:17:46
2	Cr 267.716†	35003.7	32526.2	[500] ug/L	19:17:46
2	Cu 324.752†	153934.8	137740.4	[500] ug/L	19:17:46
2	Mn 257.610†	366678.5	341295.3	[500] ug/L	19:17:41
2	Mo 202.031†	5277.5	4901.5	[500] ug/L	19:18:06
2	Ni 231.604†	15251.5	14130.9	[500] ug/L	19:17:46
2	P 214.914†	3437.5	3015.1	[2500] ug/L	19:18:06
2	Pb 220.353†	2992.8	2838.2	[500] ug/L	19:18:06
2	S 181.975 Axial†	568.9	503.1	[1000] ug/L	19:18:06
2	Sb 206.836†	1154.2	1050.0	[500] ug/L	19:18:06

2	Se 196.026†	564.9	548.2	[500]	ug/L	19:18:06
2	Si 251.611†	65277.6	60378.8	[2500]	ug/L	19:17:46
2	Sn 189.927†	2102.9	1946.1	[500]	ug/L	19:18:06
2	Ti 334.940†	275136.8	257454.1	[500]	ug/L	19:17:46
2	Tl 190.801†	1193.5	1134.5	[500]	ug/L	19:18:06
2	U 409.014†	14009.1	14889.6	[500]	ug/L	19:17:46
2	V 292.402†	57814.2	55259.7	[500]	ug/L	19:17:46
2	Zn 213.857†	40881.2	37438.9	[500]	ug/L	19:17:46
2	SiO2†	65430.8	60513.4	[5347.5]	ug/L	19:18:47
3	Sc Radial	4051.5	4051.5	107	%	19:17:02
3	Y RADIAL	4186.1	4186.1	102.5	%	19:16:42
3	Al 396.153Radial†	4337.1	4127.9	[5000]	ug/L	19:16:42
3	Ca 317.933Radial†	2495.3	2311.1	[5000]	ug/L	19:17:02
3	K 766.490 Radial†	25579.1	21436.8	[5000]	ug/L	19:16:42
3	Mg 279.077 IEC†	119.3	108.7	[5000]	ug/L	19:17:02
3	Sr 421.552†	56174.4	52481.3	[500]	ug/L	19:16:42
3	Sc 361.383	771590.3	771590.3	105.29	%	19:18:12
3	Y 371.029	630724.8	630724.8	104.35	%	19:18:12
3	Ag 328.068†	95758.7	90793.1	[500]	ug/L	19:18:17
3	As 188.979†	864.5	843.4	[500]	ug/L	19:18:37
3	B 249.677†	17437.8	16896.3	[500]	ug/L	19:18:17
3	Ba 233.527†	51567.4	48972.7	[500]	ug/L	19:18:17
3	Be 313.107†	1126364.4	1073637.9	[500]	ug/L	19:18:12
3	Cd 226.502†	33229.2	31730.1	[500]	ug/L	19:18:17
3	Co 228.616†	19142.4	18226.9	[500]	ug/L	19:18:17
3	Cr 267.716†	35441.3	33564.7	[500]	ug/L	19:18:17
3	Cu 324.752†	155403.6	141875.1	[500]	ug/L	19:18:17
3	Mn 257.610†	361764.6	343154.6	[500]	ug/L	19:18:12
3	Mo 202.031†	5383.7	5096.3	[500]	ug/L	19:18:37
3	Ni 231.604†	15420.0	14562.4	[500]	ug/L	19:18:17
3	P 214.914†	3497.5	3133.3	[2500]	ug/L	19:18:37
3	Pb 220.353†	3078.8	2973.1	[500]	ug/L	19:18:37
3	S 181.975 Axial†	583.1	526.7	[1000]	ug/L	19:18:37
3	Sb 206.836†	1189.8	1104.4	[500]	ug/L	19:18:37
3	Se 196.026†	574.0	566.9	[500]	ug/L	19:18:37
3	Si 251.611†	66026.9	62252.3	[2500]	ug/L	19:18:17
3	Sn 189.927†	2133.1	2012.3	[500]	ug/L	19:18:37
3	Ti 334.940†	277776.5	264858.0	[500]	ug/L	19:18:17
3	Tl 190.801†	1232.6	1192.9	[500]	ug/L	19:18:37
3	U 409.014†	14075.7	15202.2	[500]	ug/L	19:18:17
3	V 292.402†	58452.7	56895.1	[500]	ug/L	19:18:17
3	Zn 213.857†	41375.3	38635.7	[500]	ug/L	19:18:17
3	SiO2†	64447.8	60744.3	[5347.5]	ug/L	19:18:52

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	779871.6	7535.81	0.97%	106.42 %
Sc Radial	3945.1	108.15	2.74%	104 %
Y 371.029	637534.9	6172.35	0.97%	105.48 %
Y RADIAL	4382.5	170.20	3.88%	107.3 %
Ag 328.068†	89784.2	1444.31	1.61%	[500] ug/L
Al 396.153Radial†	4405.2	252.71	5.74%	[5000] ug/L
As 188.979†	830.5	15.67	1.89%	[500] ug/L
B 249.677†	16676.4	314.85	1.89%	[500] ug/L
Ba 233.527†	48388.9	734.83	1.52%	[500] ug/L
Be 313.107†	1075563.8	6899.37	0.64%	[500] ug/L
Ca 317.933Radial†	2326.7	21.88	0.94%	[5000] ug/L
Cd 226.502†	31304.1	497.07	1.59%	[500] ug/L
Co 228.616†	17981.7	293.60	1.63%	[500] ug/L
Cr 267.716†	33109.5	531.00	1.60%	[500] ug/L
Cu 324.752†	140529.9	2416.31	1.72%	[500] ug/L
K 766.490 Radial†	22932.2	1369.23	5.97%	[5000] ug/L
Mg 279.077 IEC†	109.8	1.50	1.36%	[5000] ug/L
Mn 257.610†	343070.2	1734.31	0.51%	[500] ug/L
Mo 202.031†	5018.8	103.27	2.06%	[500] ug/L
Ni 231.604†	14378.9	222.84	1.55%	[500] ug/L
P 214.914†	3094.4	68.72	2.22%	[2500] ug/L
Pb 220.353†	2917.3	70.43	2.41%	[500] ug/L
S 181.975 Axial†	518.8	13.67	2.63%	[1000] ug/L

Sb 206.836†	1083.3	29.17	2.69%	[500]	ug/L
Se 196.026†	560.4	10.58	1.89%	[500]	ug/L
Si 251.611†	61559.3	1027.47	1.67%	[2500]	ug/L
Sn 189.927†	1989.8	37.81	1.90%	[500]	ug/L
Sr 421.552†	56045.2	3252.57	5.80%	[500]	ug/L
Ti 334.940†	262058.3	4018.28	1.53%	[500]	ug/L
Tl 190.801†	1169.2	30.71	2.63%	[500]	ug/L
U 409.014†	15117.1	199.09	1.32%	[500]	ug/L
V 292.402†	56259.3	876.32	1.56%	[500]	ug/L
Zn 213.857†	38128.3	618.81	1.62%	[500]	ug/L
SiO2†	60782.9	290.70	0.48%	[5347.5]	ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/26/2010 19:21:03
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3955.0	3955.0	104 %	19:23:16
1	Y RADIAL	4374.2	4374.2	107.1 %	19:22:56
1	Al 396.153Radial†	9148.9	8835.5	[10000] ug/L	19:22:56
1	Ca 317.933Radial†	5037.5	4802.9	[10000] ug/L	19:22:56
1	Fe 238.204 Radial†	828.0	784.6	[10000] ug/L	19:23:16
1	K 766.490 Radial†	50617.6	46002.0	[10000] ug/L	19:22:56
1	Mg 279.077 IEC†	236.8	224.0	[10000] ug/L	19:23:16
1	Na 589.592 Radial†	26401.8	25673.4	[10000] ug/L	19:22:56
1	Sr 421.552†	116616.4	111653.7	[1000] ug/L	19:22:56
1	Sc 361.383	788649.0	788649.0	107.62 %	19:24:15
1	Y 371.029	642971.8	642971.8	106.38 %	19:24:15
1	Ag 328.068†	189873.5	176276.6	[1000] ug/L	19:24:15
1	As 188.979†	1735.0	1634.5	[1000] ug/L	19:24:35
1	B 249.677†	35641.4	33452.7	[1000] ug/L	19:24:15
1	Ba 233.527†	103471.2	96141.9	[1000] ug/L	19:24:15
1	Be 313.107†	2323674.4	2163028.6	[1000] ug/L	19:24:15
1	Cd 226.502†	66598.6	62054.0	[1000] ug/L	19:24:15
1	Co 228.616†	37076.5	34497.9	[1000] ug/L	19:24:35
1	Cr 267.716†	70935.3	65817.3	[1000] ug/L	19:24:15
1	Cu 324.752†	309969.2	282303.6	[1000] ug/L	19:24:15
1	Mn 257.610†	745768.0	692535.3	[1000] ug/L	19:24:15
1	Mo 202.031†	10628.6	9859.3	[1000] ug/L	19:24:35
1	Ni 231.604†	29803.5	27610.6	[1000] ug/L	19:24:35
1	P 214.914†	6850.3	6176.8	[5000] ug/L	19:24:35
1	Pb 220.353†	6159.9	5772.8	[1000] ug/L	19:24:35
1	S 181.975 Axial†	1135.5	1028.0	[2000] ug/L	19:24:35
1	Sb 206.836†	2344.7	2153.0	[1000] ug/L	19:24:35
1	Se 196.026†	1177.2	1115.6	[1000] ug/L	19:24:35
1	Si 251.611†	131489.5	121723.1	[5000] ug/L	19:24:15
1	Sn 189.927†	4253.6	3938.8	[1000] ug/L	19:24:35
1	Ti 334.940†	566898.7	527801.4	[1000] ug/L	19:24:15
1	Tl 190.801†	2458.6	2306.7	[1000] ug/L	19:24:35
1	U 409.014†	29575.9	29315.7	[1000] ug/L	19:24:15
1	V 292.402†	119191.8	112132.6	[1000] ug/L	19:24:15
1	Zn 213.857†	81832.1	75377.8	[1000] ug/L	19:24:15
1	SiO2†	133295.9	123393.4	[10695] ug/L	19:25:35
2	Sc Radial	3878.7	3878.7	102 %	19:23:41
2	Y RADIAL	4329.4	4329.4	106.0 %	19:23:21
2	Al 396.153Radial†	8987.2	8850.1	[10000] ug/L	19:23:21
2	Ca 317.933Radial†	4948.9	4811.4	[10000] ug/L	19:23:21
2	Fe 238.204 Radial†	806.9	779.6	[10000] ug/L	19:23:41
2	K 766.490 Radial†	49756.6	46115.4	[10000] ug/L	19:23:21
2	Mg 279.077 IEC†	232.8	224.5	[10000] ug/L	19:23:41
2	Na 589.592 Radial†	25916.6	25697.3	[10000] ug/L	19:23:21
2	Sr 421.552†	114776.7	112055.3	[1000] ug/L	19:23:21
2	Sc 361.383	811253.9	811253.9	110.71 %	19:24:43
2	Y 371.029	662399.3	662399.3	109.59 %	19:24:43
2	Ag 328.068†	191244.3	172598.8	[1000] ug/L	19:24:43
2	As 188.979†	1788.2	1637.5	[1000] ug/L	19:25:03
2	B 249.677†	35985.2	32840.4	[1000] ug/L	19:24:43
2	Ba 233.527†	103577.6	93559.1	[1000] ug/L	19:24:43
2	Be 313.107†	2330506.2	2109037.1	[1000] ug/L	19:24:43
2	Cd 226.502†	66612.7	60342.4	[1000] ug/L	19:24:43
2	Co 228.616†	37786.9	34179.6	[1000] ug/L	19:25:03
2	Cr 267.716†	71014.7	64052.5	[1000] ug/L	19:24:43
2	Cu 324.752†	312414.9	276487.3	[1000] ug/L	19:24:43
2	Mn 257.610†	746740.7	674105.1	[1000] ug/L	19:24:43
2	Mo 202.031†	10859.4	9792.5	[1000] ug/L	19:25:03
2	Ni 231.604†	30450.1	27423.0	[1000] ug/L	19:25:03

2	P 214.914†	7015.1	6148.3	[5000]	ug/L	19:25:03
2	Pb 220.353†	6259.2	5703.0	[1000]	ug/L	19:25:03
2	S 181.975 Axial†	1155.7	1016.8	[2000]	ug/L	19:25:03
2	Sb 206.836†	2399.3	2141.7	[1000]	ug/L	19:25:03
2	Se 196.026†	1190.2	1096.8	[1000]	ug/L	19:25:03
2	Si 251.611†	132116.6	118885.1	[5000]	ug/L	19:24:43
2	Sn 189.927†	4337.4	3904.4	[1000]	ug/L	19:25:03
2	Ti 334.940†	568983.2	515006.7	[1000]	ug/L	19:24:43
2	Tl 190.801†	2523.1	2301.4	[1000]	ug/L	19:25:03
2	U 409.014†	29905.1	28847.3	[1000]	ug/L	19:24:43
2	V 292.402†	119702.7	109508.0	[1000]	ug/L	19:24:43
2	Zn 213.857†	81983.0	73395.4	[1000]	ug/L	19:24:43
2	SiO2†	133895.3	120483.6	[10695]	ug/L	19:25:41
3	Sc Radial	4024.5	4024.5	106	%	19:24:06
3	Y RADIAL	4241.4	4241.4	103.9	%	19:23:46
3	Al 396.153Radial†	8810.2	8365.4	[10000]	ug/L	19:23:46
3	Ca 317.933Radial†	4817.4	4512.4	[10000]	ug/L	19:23:46
3	Fe 238.204 Radial†	835.2	777.6	[10000]	ug/L	19:24:06
3	K 766.490 Radial†	48679.5	43340.5	[10000]	ug/L	19:23:46
3	Mg 279.077 IEC†	238.3	221.5	[10000]	ug/L	19:24:06
3	Na 589.592 Radial†	25357.2	24253.5	[10000]	ug/L	19:23:46
3	Sr 421.552†	112127.8	105499.8	[1000]	ug/L	19:23:46
3	Sc 361.383	790958.8	790958.8	107.94	%	19:25:10
3	Y 371.029	644933.1	644933.1	106.70	%	19:25:10
3	Ag 328.068†	189465.7	175383.6	[1000]	ug/L	19:25:10
3	As 188.979†	1764.6	1657.2	[1000]	ug/L	19:25:30
3	B 249.677†	35545.1	33266.7	[1000]	ug/L	19:25:10
3	Ba 233.527†	102961.5	95389.0	[1000]	ug/L	19:25:10
3	Be 313.107†	2310240.7	2144277.3	[1000]	ug/L	19:25:10
3	Cd 226.502†	66121.3	61431.0	[1000]	ug/L	19:25:10
3	Co 228.616†	37525.9	34813.6	[1000]	ug/L	19:25:30
3	Cr 267.716†	70613.5	65326.8	[1000]	ug/L	19:25:10
3	Cu 324.752†	309232.9	280780.4	[1000]	ug/L	19:25:10
3	Mn 257.610†	741998.2	687019.0	[1000]	ug/L	19:25:10
3	Mo 202.031†	10760.1	9952.2	[1000]	ug/L	19:25:30
3	Ni 231.604†	30205.1	27901.7	[1000]	ug/L	19:25:30
3	P 214.914†	6925.6	6228.0	[5000]	ug/L	19:25:30
3	Pb 220.353†	6230.0	5821.0	[1000]	ug/L	19:25:30
3	S 181.975 Axial†	1144.4	1033.2	[2000]	ug/L	19:25:30
3	Sb 206.836†	2362.0	2162.7	[1000]	ug/L	19:25:30
3	Se 196.026†	1178.7	1113.8	[1000]	ug/L	19:25:30
3	Si 251.611†	130889.9	120810.8	[5000]	ug/L	19:25:10
3	Sn 189.927†	4293.4	3964.1	[1000]	ug/L	19:25:30
3	Ti 334.940†	565084.2	524582.1	[1000]	ug/L	19:25:10
3	Tl 190.801†	2494.4	2333.3	[1000]	ug/L	19:25:30
3	U 409.014†	29710.6	29360.2	[1000]	ug/L	19:25:10
3	V 292.402†	118908.3	111546.4	[1000]	ug/L	19:25:10
3	Zn 213.857†	81419.1	74773.1	[1000]	ug/L	19:25:10
3	SiO2†	130682.4	120610.3	[10695]	ug/L	19:25:46

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	796953.9	12437.93	1.56%	108.75	%
Sc Radial	3952.7	72.95	1.85%	104	%
Y 371.029	650101.4	10695.35	1.65%	107.56	%
Y RADIAL	4315.0	67.56	1.57%	105.7	%
Ag 328.068†	174753.0	1918.27	1.10%	[1000]	ug/L
Al 396.153Radial†	8683.7	275.73	3.18%	[10000]	ug/L
As 188.979†	1643.1	12.33	0.75%	[1000]	ug/L
B 249.677†	33186.6	313.91	0.95%	[1000]	ug/L
Ba 233.527†	95030.0	1328.31	1.40%	[1000]	ug/L
Be 313.107†	2138781.0	27412.18	1.28%	[1000]	ug/L
Ca 317.933Radial†	4708.9	170.20	3.61%	[10000]	ug/L
Cd 226.502†	61275.8	866.28	1.41%	[1000]	ug/L
Co 228.616†	34497.0	317.01	0.92%	[1000]	ug/L
Cr 267.716†	65065.5	910.98	1.40%	[1000]	ug/L
Cu 324.752†	279857.1	3016.05	1.08%	[1000]	ug/L
Fe 238.204 Radial†	780.6	3.57	0.46%	[10000]	ug/L
K 766.490 Radial†	45152.6	1570.37	3.48%	[10000]	ug/L

Mg 279.077 IEC†	223.3	1.60	0.72%	[10000]	ug/L
Mn 257.610†	684553.1	9459.30	1.38%	[1000]	ug/L
Mo 202.031†	9868.0	80.22	0.81%	[1000]	ug/L
Na 589.592 Radial†	25208.1	826.79	3.28%	[10000]	ug/L
Ni 231.604†	27645.1	241.24	0.87%	[1000]	ug/L
P 214.914†	6184.3	40.40	0.65%	[5000]	ug/L
Pb 220.353†	5765.6	59.35	1.03%	[1000]	ug/L
S 181.975 Axial†	1026.0	8.35	0.81%	[2000]	ug/L
Sb 206.836†	2152.5	10.52	0.49%	[1000]	ug/L
Se 196.026†	1108.7	10.36	0.93%	[1000]	ug/L
Si 251.611†	120473.0	1448.82	1.20%	[5000]	ug/L
Sn 189.927†	3935.7	29.98	0.76%	[1000]	ug/L
Sr 421.552†	109736.3	3674.39	3.35%	[1000]	ug/L
Ti 334.940†	522463.4	6655.29	1.27%	[1000]	ug/L
Tl 190.801†	2313.8	17.09	0.74%	[1000]	ug/L
U 409.014†	29174.4	284.16	0.97%	[1000]	ug/L
V 292.402†	111062.3	1377.61	1.24%	[1000]	ug/L
Zn 213.857†	74515.5	1016.01	1.36%	[1000]	ug/L
SiO2†	121495.8	1644.61	1.35%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 3/26/2010 19:27:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	3938.3	3938.3	104 %		19:30:11
1	Y RADIAL	4177.9	4177.9	102.3 %		19:30:11
1	Al 396.153Radial†	42877.7	41314.1	[50000] ug/L		19:29:51
1	Ca 317.933Radial†	22928.2	22031.2	[50000] ug/L		19:29:51
1	Fe 238.204 Radial†	1584.7	1515.7	[20000] ug/L		19:30:11
1	Mg 279.077 IEC†	1111.0	1065.8	[50000] ug/L		19:30:11
1	Na 589.592 Radial†	50332.9	48798.1	[20000] ug/L		19:29:51
1	Sc 361.383	806458.8	806458.8	110.05 %		19:31:08
1	Y 371.029	655971.9	655971.9	108.53 %		19:31:08
2	Sc Radial	4056.8	4056.8	107 %		19:30:36
2	Y RADIAL	4313.9	4313.9	105.7 %		19:30:36
2	Al 396.153Radial†	44903.6	42001.6	[50000] ug/L		19:30:16
2	Ca 317.933Radial†	23838.7	22237.5	[50000] ug/L		19:30:16
2	Fe 238.204 Radial†	1615.7	1500.2	[20000] ug/L		19:30:36
2	Mg 279.077 IEC†	1132.2	1054.4	[50000] ug/L		19:30:36
2	Na 589.592 Radial†	52742.1	49634.3	[20000] ug/L		19:30:16
2	Sc 361.383	783540.7	783540.7	106.92 %		19:31:14
2	Y 371.029	637635.1	637635.1	105.49 %		19:31:14
3	Sc Radial	4193.9	4193.9	111 %		19:31:01
3	Y RADIAL	4446.3	4446.3	108.9 %		19:31:01
3	Al 396.153Radial†	46987.9	42513.4	[50000] ug/L		19:30:41
3	Ca 317.933Radial†	24944.3	22508.3	[50000] ug/L		19:30:41
3	Fe 238.204 Radial†	1655.3	1486.6	[20000] ug/L		19:31:01
3	Mg 279.077 IEC†	1157.9	1043.1	[50000] ug/L		19:31:01
3	Na 589.592 Radial†	55220.2	50262.5	[20000] ug/L		19:30:41
3	Sc 361.383	820097.6	820097.6	111.91 %		19:31:19
3	Y 371.029	667753.4	667753.4	110.48 %		19:31:19

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	803365.7	18473.66	2.30%	109.63 %	
Sc Radial	4063.0	127.89	3.15%	107 %	
Y 371.029	653786.8	15177.60	2.32%	108.17 %	
Y RADIAL	4312.7	134.23	3.11%	105.6 %	
Al 396.153Radial†	41943.0	601.82	1.43%	[50000] ug/L	
Ca 317.933Radial†	22259.0	239.29	1.08%	[50000] ug/L	
Fe 238.204 Radial†	1500.8	14.56	0.97%	[20000] ug/L	
Mg 279.077 IEC†	1054.4	11.38	1.08%	[50000] ug/L	
Na 589.592 Radial†	49565.0	734.65	1.48%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	175.8	0.00000	0.999936	
Al 396.153Radial	3	Lin Thru 0	0.0	0.8404	0.00000	0.999966	
As 188.979	3	Lin Thru 0	0.0	1.647	0.00000	0.999986	
B 249.677	3	Lin Thru 0	0.0	33.22	0.00000	0.999997	
Ba 233.527	3	Lin Thru 0	0.0	95.41	0.00000	0.999967	
Be 313.107	3	Lin Thru 0	0.0	2142	0.00000	0.999992	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.4464	0.00000	0.999931	
Cd 226.502	3	Lin Thru 0	0.0	61.54	0.00000	0.999963	
Co 228.616	3	Lin Thru 0	0.0	34.80	0.00000	0.999854	
Cr 267.716	3	Lin Thru 0	0.0	65.32	0.00000	0.999969	
Cu 324.752	3	Lin Thru 0	0.0	280.1	0.00000	0.999997	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0756	0.00000	0.999873	
K 766.490 Radial	3	Lin Thru 0	0.0	4.529	0.00000	0.999980	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0211	0.00000	0.999929
Mn 257.610	3	Lin Thru 0	0.0	685.1	0.00000	0.999989
Mo 202.031	3	Lin Thru 0	0.0	9.903	0.00000	0.999976
Na 589.592 Radia	2	Lin Thru 0	0.0	2.487	0.00000	0.999977
Ni 231.604	3	Lin Thru 0	0.0	27.87	0.00000	0.999872
P 214.914	3	Lin Thru 0	0.0	1.237	0.00000	1.000000
Pb 220.353	3	Lin Thru 0	0.0	5.781	0.00000	0.999983
S 181.975 Axial	3	Lin Thru 0	0.0	0.5143	0.00000	0.999988
Sb 206.836	3	Lin Thru 0	0.0	2.156	0.00000	0.999985
Se 196.026	3	Lin Thru 0	0.0	1.111	0.00000	0.999988
Si 251.611	3	Lin Thru 0	0.0	24.21	0.00000	0.999959
Sn 189.927	3	Lin Thru 0	0.0	3.944	0.00000	0.999990
Sr 421.552	3	Lin Thru 0	0.0	110.1	0.00000	0.999946
Ti 334.940	3	Lin Thru 0	0.0	522.9	0.00000	0.999996
Tl 190.801	3	Lin Thru 0	0.0	2.319	0.00000	0.999991
U 409.014	3	Lin Thru 0	0.0	29.41	0.00000	0.999864
V 292.402	3	Lin Thru 0	0.0	111.4	0.00000	0.999983
Zn 213.857	3	Lin Thru 0	0.0	74.89	0.00000	0.999950
SiO2	3	Lin Thru 0	0.0	11.36	0.00000	1.000000

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/26/2010 19:33:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3973.6	3973.6	105 %			19:35:44
1	Y RADIAL	4374.9	4374.9	107.2 %			19:35:24
1	Al 396.153Radial†	4544.1	4404.8	5216.3 ug/L		5216.3 ppb	19:35:24
1	Ca 317.933Radial†	2435.7	2300.0	5152.9 ug/L		5152.9 ppb	19:35:44
1	Fe 238.204 Radial†	411.0	383.3	5082.9 ug/L		5082.9 ppb	19:35:44
1	K 766.490 Radial†	14325.2	11177.7	2464.3 ug/L		2464.3 ppb	19:35:24
1	Mg 279.077 IEC†	116.0	107.8	5096.9 ug/L		5096.9 ppb	19:35:44
1	Na 589.592 Radial†	5942.0	6050.8	2433.2 ug/L		2433.2 ppb	19:35:24
1	Sr 421.552†	59592.9	56770.4	515.36 ug/L		515.36 ppb	19:35:24
1	Sc 361.383	825011.1	825011.1	112.58 %			19:36:42
1	Y 371.029	675512.4	675512.4	111.76 %			19:36:42
1	Ag 328.068†	49901.4	44172.1	254.42 ug/L		254.42 ppb	19:36:42
1	As 188.979†	858.5	784.8	480.64 ug/L		480.64 ppb	19:37:02
1	B 249.677†	19365.4	17536.1	525.51 ug/L		525.51 ppb	19:36:42
1	Ba 233.527†	54806.5	48678.6	511.45 ug/L		511.45 ppb	19:36:42
1	Be 313.107†	613354.3	548695.6	257.28 ug/L		257.28 ppb	19:36:42
1	Cd 226.502†	34390.2	30717.8	499.00 ug/L		499.00 ppb	19:36:42
1	Co 228.616†	20261.9	18044.1	518.64 ug/L		518.64 ppb	19:36:42
1	Cr 267.716†	36066.8	31940.8	490.06 ug/L		490.06 ppb	19:36:42
1	Cu 324.752†	167869.2	143390.7	511.86 ug/L		511.86 ppb	19:36:42
1	Mn 257.610†	387078.6	343392.0	501.49 ug/L		501.49 ppb	19:36:42
1	Mo 202.031†	5792.7	5128.5	518.34 ug/L		518.34 ppb	19:37:02
1	Ni 231.604†	15687.2	13851.4	496.65 ug/L		496.65 ppb	19:36:42
1	P 214.914†	3679.2	3079.5	2389.6 ug/L		2389.6 ppb	19:37:02
1	Pb 220.353†	3163.9	2859.4	496.11 ug/L		496.11 ppb	19:37:02
1	S 181.975 Axial†	1431.8	1244.7	2419.4 ug/L		2419.4 ppb	19:37:02
1	Sb 206.836†	1222.6	1060.3	510.41 ug/L		510.41 ppb	19:37:02
1	Se 196.026†	3195.4	2860.0	2589.8 ug/L		2589.8 ppb	19:37:02
1	Si 251.611†	133234.6	117888.1	4863.9 ug/L		4863.9 ppb	19:36:42
1	Sn 189.927†	2315.7	2043.3	518.65 ug/L		518.65 ppb	19:37:02
1	Ti 334.940†	285385.8	254534.6	486.64 ug/L		486.64 ppb	19:36:42
1	Tl 190.801†	1295.4	1172.9	509.02 ug/L		509.02 ppb	19:37:02
1	U 409.014†	14305.4	14540.6	492.77 ug/L		492.77 ppb	19:36:42
1	V 292.402†	60742.6	55334.4	503.73 ug/L		503.73 ppb	19:36:42
1	Zn 213.857†	42609.5	37187.5	491.95 ug/L		491.95 ppb	19:36:42
1	SiO2†	129353.1	114432.2	10057 ug/L		10057 ppb	19:37:59
2	Sc Radial	3911.1	3911.1	103 %			19:36:09
2	Y RADIAL	4216.6	4216.6	103.3 %			19:35:49
2	Al 396.153Radial†	4527.6	4458.0	5279.7 ug/L		5279.7 ppb	19:35:49
2	Ca 317.933Radial†	2459.7	2360.4	5288.2 ug/L		5288.2 ppb	19:36:09
2	Fe 238.204 Radial†	416.3	394.8	5234.1 ug/L		5234.1 ppb	19:36:09
2	K 766.490 Radial†	14345.3	11415.4	2516.8 ug/L		2516.8 ppb	19:35:49
2	Mg 279.077 IEC†	114.8	108.4	5127.5 ug/L		5127.5 ppb	19:36:09
2	Na 589.592 Radial†	5947.0	6146.2	2471.6 ug/L		2471.6 ppb	19:35:49
2	Sr 421.552†	59681.0	57763.8	524.38 ug/L		524.38 ppb	19:35:49
2	Sc 361.383	821861.3	821861.3	112.15 %			19:37:08
2	Y 371.029	673287.5	673287.5	111.39 %			19:37:08
2	Ag 328.068†	49372.1	43870.1	252.73 ug/L		252.73 ppb	19:37:08
2	As 188.979†	851.5	781.5	478.64 ug/L		478.64 ppb	19:37:28
2	B 249.677†	19305.3	17548.4	525.86 ug/L		525.86 ppb	19:37:08
2	Ba 233.527†	54305.2	48418.2	508.72 ug/L		508.72 ppb	19:37:08
2	Be 313.107†	609197.2	547076.9	256.52 ug/L		256.52 ppb	19:37:08
2	Cd 226.502†	34222.2	30685.1	498.45 ug/L		498.45 ppb	19:37:08
2	Co 228.616†	20099.6	17968.4	516.46 ug/L		516.46 ppb	19:37:08
2	Cr 267.716†	35787.3	31814.3	488.14 ug/L		488.14 ppb	19:37:08
2	Cu 324.752†	166074.9	142362.2	508.20 ug/L		508.20 ppb	19:37:08
2	Mn 257.610†	384018.4	341981.1	499.44 ug/L		499.44 ppb	19:37:08
2	Mo 202.031†	5726.0	5088.8	514.34 ug/L		514.34 ppb	19:37:28
2	Ni 231.604†	15566.2	13796.9	494.70 ug/L		494.70 ppb	19:37:08

2	P 214.914†	3654.1	3069.7	2382.3 ug/L	2382.3 ppb	19:37:28
2	Pb 220.353†	3125.5	2835.9	492.03 ug/L	492.03 ppb	19:37:28
2	S 181.975 Axial†	1414.8	1234.4	2399.4 ug/L	2399.4 ppb	19:37:28
2	Sb 206.836†	1213.5	1056.4	508.46 ug/L	508.46 ppb	19:37:28
2	Se 196.026†	3148.0	2828.6	2562.0 ug/L	2562.0 ppb	19:37:28
2	Si 251.611†	132002.5	117243.1	4837.3 ug/L	4837.3 ppb	19:37:08
2	Sn 189.927†	2291.0	2029.1	515.07 ug/L	515.07 ppb	19:37:28
2	Ti 334.940†	282841.1	253237.1	484.18 ug/L	484.18 ppb	19:37:08
2	Tl 190.801†	1293.0	1175.1	509.96 ug/L	509.96 ppb	19:37:28
2	U 409.014†	14112.4	14417.2	488.57 ug/L	488.57 ppb	19:37:08
2	V 292.402†	60160.1	55021.8	500.84 ug/L	500.84 ppb	19:37:08
2	Zn 213.857†	42424.3	37167.4	491.67 ug/L	491.67 ppb	19:37:08
2	SiO2†	130268.1	115688.5	10168 ug/L	10168 ppb	19:38:05
3	Sc Radial	4071.3	4071.3	107 %		19:36:34
3	Y RADIAL	4522.7	4522.7	110.8 %		19:36:14
3	Al 396.153Radial†	4746.4	4489.0	5315.8 ug/L	5315.8 ppb	19:36:14
3	Ca 317.933Radial†	2511.3	2314.7	5185.8 ug/L	5185.8 ppb	19:36:34
3	Fe 238.204 Radial†	421.0	383.3	5082.5 ug/L	5082.5 ppb	19:36:34
3	K 766.490 Radial†	14823.7	11313.9	2494.4 ug/L	2494.4 ppb	19:36:14
3	Mg 279.077 IEC†	118.3	107.2	5072.3 ug/L	5072.3 ppb	19:36:34
3	Na 589.592 Radial†	6222.2	6175.6	2483.4 ug/L	2483.4 ppb	19:36:14
3	Sr 421.552†	62877.9	58464.1	530.73 ug/L	530.73 ppb	19:36:14
3	Sc 361.383	797166.9	797166.9	108.78 %		19:37:34
3	Y 371.029	652378.0	652378.0	107.93 %		19:37:34
3	Ag 328.068†	48523.9	44454.0	256.04 ug/L	256.04 ppb	19:37:34
3	As 188.979†	856.9	810.0	495.92 ug/L	495.92 ppb	19:37:54
3	B 249.677†	18855.4	17668.1	529.46 ug/L	529.46 ppb	19:37:34
3	Ba 233.527†	53730.8	49390.2	518.92 ug/L	518.92 ppb	19:37:34
3	Be 313.107†	599026.3	554553.9	260.02 ug/L	260.02 ppb	19:37:34
3	Cd 226.502†	33700.9	31151.1	506.05 ug/L	506.05 ppb	19:37:34
3	Co 228.616†	19829.5	18275.2	525.31 ug/L	525.31 ppb	19:37:34
3	Cr 267.716†	35327.8	32380.5	496.80 ug/L	496.80 ppb	19:37:34
3	Cu 324.752†	162764.5	143906.3	513.70 ug/L	513.70 ppb	19:37:34
3	Mn 257.610†	378740.8	347736.6	507.83 ug/L	507.83 ppb	19:37:34
3	Mo 202.031†	5755.5	5274.1	533.04 ug/L	533.04 ppb	19:37:54
3	Ni 231.604†	15352.8	14030.7	503.08 ug/L	503.08 ppb	19:37:34
3	P 214.914†	3670.1	3185.3	2474.9 ug/L	2474.9 ppb	19:37:54
3	Pb 220.353†	3150.8	2945.5	511.07 ug/L	511.07 ppb	19:37:54
3	S 181.975 Axial†	1426.2	1283.9	2495.7 ug/L	2495.7 ppb	19:37:54
3	Sb 206.836†	1221.0	1096.8	527.88 ug/L	527.88 ppb	19:37:54
3	Se 196.026†	3157.9	2924.7	2648.1 ug/L	2648.1 ppb	19:37:54
3	Si 251.611†	129617.4	118696.7	4897.1 ug/L	4897.1 ppb	19:37:34
3	Sn 189.927†	2304.3	2104.6	534.21 ug/L	534.21 ppb	19:37:54
3	Ti 334.940†	278284.1	256860.4	491.10 ug/L	491.10 ppb	19:37:34
3	Tl 190.801†	1292.4	1210.4	525.20 ug/L	525.20 ppb	19:37:54
3	U 409.014†	13757.7	14480.9	490.73 ug/L	490.73 ppb	19:37:34
3	V 292.402†	59212.0	55811.9	508.22 ug/L	508.22 ppb	19:37:34
3	Zn 213.857†	41818.6	37782.4	499.85 ug/L	499.85 ppb	19:37:34
3	SiO2†	127687.2	116914.0	10275 ug/L	10275 ppb	19:38:10

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814679.8	111.17 %	2.081			1.87%
Sc Radial	3985.3	105 %	2.1			2.03%
Y 371.029	667059.3	110.36 %	2.112			1.91%
Y RADIAL	4371.4	107.1 %	3.75			3.50%
Ag 328.068†	44165.4	254.40 ug/L	1.652	254.40 ppb	1.652	0.65%
QC value within limits for Ag 328.068 Recovery = 101.76%						
Al 396.153Radial†	4450.6	5270.6 ug/L	50.40	5270.6 ppb	50.40	0.96%
QC value within limits for Al 396.153Radial Recovery = 105.41%						
As 188.979†	792.1	485.07 ug/L	9.449	485.07 ppb	9.449	1.95%
QC value within limits for As 188.979 Recovery = 97.01%						
B 249.677†	17584.2	526.94 ug/L	2.188	526.94 ppb	2.188	0.42%
QC value within limits for B 249.677 Recovery = 105.39%						
Ba 233.527†	48829.0	513.03 ug/L	5.279	513.03 ppb	5.279	1.03%
QC value within limits for Ba 233.527 Recovery = 102.61%						
Be 313.107†	550108.8	257.94 ug/L	1.844	257.94 ppb	1.844	0.72%
QC value within limits for Be 313.107 Recovery = 103.18%						
Ca 317.933Radial†	2325.0	5209.0 ug/L	70.58	5209.0 ppb	70.58	1.35%

QC value within limits for Ca 317.933 Radial Recovery = 104.18%

Cd 226.502†	30851.3	501.17 ug/L	4.234	501.17 ppb	4.234	0.84%
QC value within limits for Cd 226.502 Recovery = 100.23%						
Co 228.616†	18095.9	520.14 ug/L	4.610	520.14 ppb	4.610	0.89%
QC value within limits for Co 228.616 Recovery = 104.03%						
Cr 267.716†	32045.2	491.67 ug/L	4.548	491.67 ppb	4.548	0.92%
QC value within limits for Cr 267.716 Recovery = 98.33%						
Cu 324.752†	143219.8	511.25 ug/L	2.801	511.25 ppb	2.801	0.55%
QC value within limits for Cu 324.752 Recovery = 102.25%						
Fe 238.204 Radial†	387.1	5133.2 ug/L	87.42	5133.2 ppb	87.42	1.70%
QC value within limits for Fe 238.204 Radial Recovery = 102.66%						
K 766.490 Radial†	11302.3	2491.8 ug/L	26.31	2491.8 ppb	26.31	1.06%
QC value within limits for K 766.490 Radial Recovery = 99.67%						
Mg 279.077 IEC†	107.8	5098.9 ug/L	27.65	5098.9 ppb	27.65	0.54%
QC value within limits for Mg 279.077 IEC Recovery = 101.98%						
Mn 257.610†	344369.9	502.92 ug/L	4.373	502.92 ppb	4.373	0.87%
QC value within limits for Mn 257.610 Recovery = 100.58%						
Mo 202.031†	5163.8	521.90 ug/L	9.847	521.90 ppb	9.847	1.89%
QC value within limits for Mo 202.031 Recovery = 104.38%						
Na 589.592 Radial†	6124.2	2462.7 ug/L	26.23	2462.7 ppb	26.23	1.07%
QC value within limits for Na 589.592 Radial Recovery = 98.51%						
Ni 231.604†	13893.0	498.14 ug/L	4.387	498.14 ppb	4.387	0.88%
QC value within limits for Ni 231.604 Recovery = 99.63%						
P 214.914†	3111.5	2415.6 ug/L	51.51	2415.6 ppb	51.51	2.13%
QC value within limits for P 214.914 Recovery = 96.62%						
Pb 220.353†	2880.3	499.74 ug/L	10.022	499.74 ppb	10.022	2.01%
QC value within limits for Pb 220.353 Recovery = 99.95%						
S 181.975 Axial†	1254.3	2438.1 ug/L	50.83	2438.1 ppb	50.83	2.08%
QC value within limits for S 181.975 Axial Recovery = 97.53%						
Sb 206.836†	1071.2	515.58 ug/L	10.692	515.58 ppb	10.692	2.07%
QC value within limits for Sb 206.836 Recovery = 103.12%						
Se 196.026†	2871.1	2600.0 ug/L	43.95	2600.0 ppb	43.95	1.69%
QC value within limits for Se 196.026 Recovery = 104.00%						
Si 251.611†	117942.6	4866.1 ug/L	29.97	4866.1 ppb	29.97	0.62%
QC value within limits for Si 251.611 Recovery = 97.32%						
Sn 189.927†	2059.0	522.64 ug/L	10.176	522.64 ppb	10.176	1.95%
QC value within limits for Sn 189.927 Recovery = 104.53%						
Sr 421.552†	57666.1	523.49 ug/L	7.726	523.49 ppb	7.726	1.48%
QC value within limits for Sr 421.552 Recovery = 104.70%						
Ti 334.940†	254877.4	487.31 ug/L	3.505	487.31 ppb	3.505	0.72%
QC value within limits for Ti 334.940 Recovery = 97.46%						
Tl 190.801†	1186.1	514.73 ug/L	9.081	514.73 ppb	9.081	1.76%
QC value within limits for Tl 190.801 Recovery = 102.95%						
U 409.014†	14479.6	490.69 ug/L	2.104	490.69 ppb	2.104	0.43%
QC value within limits for U 409.014 Recovery = 98.14%						
V 292.402†	55389.4	504.27 ug/L	3.715	504.27 ppb	3.715	0.74%
QC value within limits for V 292.402 Recovery = 100.85%						
Zn 213.857†	37379.1	494.49 ug/L	4.643	494.49 ppb	4.643	0.94%
QC value within limits for Zn 213.857 Recovery = 98.90%						
SiO2†	115678.2	10167 ug/L	109.0	10167 ppb	109.0	1.07%
QC value within limits for SiO2 Recovery = 95.06%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/26/2010 19:40:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3965.5	3965.5	105 %		19:42:33
1	Y RADIAL	4370.5	4370.5	107.0 %		19:42:13
1	Al 396.153Radial†	-67.9	8.0	9.4766 ug/L	9.4766 ppb	19:42:33
1	Ca 317.933Radial†	25.1	2.1	4.6363 ug/L	4.6363 ppb	19:42:33
1	Fe 238.204 Radial†	6.5	-2.2	-29.551 ug/L	-29.551 ppb	19:42:33
1	K 766.490 Radial†	2442.8	-145.1	-32.029 ug/L	-32.029 ppb	19:42:13
1	Mg 279.077 IEC†	1.6	-1.3	-60.627 ug/L	-60.627 ppb	19:42:33
1	Na 589.592 Radial†	-425.4	-20.0	-8.0429 ug/L	-8.0429 ppb	19:42:13
1	Sr 421.552†	56.9	15.1	0.1371 ug/L	0.1371 ppb	19:42:13
1	Sc 361.383	756477.5	756477.5	103.23 %		19:43:30
1	Y 371.029	624575.8	624575.8	103.33 %		19:43:30
1	Ag 328.068†	134.9	-21.5	-0.1369 ug/L	-0.1369 ppb	19:43:30
1	As 188.979†	-26.4	-3.3	-1.9908 ug/L	-1.9908 ppb	19:43:50
1	B 249.677†	-56.6	280.1	8.4363 ug/L	8.4363 ppb	19:43:50
1	Ba 233.527†	0.9	-1.7	-0.0197 ug/L	-0.0197 ppb	19:43:50
1	Be 313.107†	-3988.6	27.8	0.0125 ug/L	0.0125 ppb	19:43:30
1	Cd 226.502†	-158.1	18.0	0.2973 ug/L	0.2973 ppb	19:43:50
1	Co 228.616†	-52.7	-4.3	-0.1229 ug/L	-0.1229 ppb	19:43:50
1	Cr 267.716†	109.2	10.7	0.1580 ug/L	0.1580 ppb	19:43:50
1	Cu 324.752†	5686.9	-208.0	-0.7468 ug/L	-0.7468 ppb	19:43:30
1	Mn 257.610†	402.1	-36.0	-0.0530 ug/L	-0.0530 ppb	19:43:50
1	Mo 202.031†	20.4	3.0	0.3006 ug/L	0.3006 ppb	19:43:50
1	Ni 231.604†	91.3	5.9	0.2125 ug/L	0.2125 ppb	19:43:50
1	P 214.914†	197.0	2.4	2.0975 ug/L	2.0975 ppb	19:43:50
1	Pb 220.353†	-41.0	9.3	1.6229 ug/L	1.6229 ppb	19:43:50
1	S 181.975 Axial†	31.7	3.6	6.9323 ug/L	6.9323 ppb	19:43:50
1	Sb 206.836†	35.4	8.7	4.0263 ug/L	4.0263 ppb	19:43:50
1	Se 196.026†	-21.9	0.6	0.4293 ug/L	0.4293 ppb	19:43:50
1	Si 251.611†	437.2	-32.2	-1.3338 ug/L	-1.3338 ppb	19:43:50
1	Sn 189.927†	15.8	1.7	0.4329 ug/L	0.4329 ppb	19:43:50
1	Ti 334.940†	-1198.1	-116.3	-0.2191 ug/L	-0.2191 ppb	19:43:30
1	Tl 190.801†	-17.9	5.0	2.1432 ug/L	2.1432 ppb	19:43:50
1	U 409.014†	-1740.3	148.2	5.0409 ug/L	5.0409 ppb	19:43:30
1	V 292.402†	-1465.2	-38.7	-0.3305 ug/L	-0.3305 ppb	19:43:30
1	Zn 213.857†	587.1	-91.1	-1.2118 ug/L	-1.2118 ppb	19:43:50
1	SiO2†	442.6	-35.2	-3.1097 ug/L	-3.1097 ppb	19:45:01
2	Sc Radial	4016.8	4016.8	106 %		19:42:58
2	Y RADIAL	4487.7	4487.7	109.9 %		19:42:38
2	Al 396.153Radial†	-70.5	6.4	7.5366 ug/L	7.5366 ppb	19:42:58
2	Ca 317.933Radial†	20.5	-2.6	-5.8274 ug/L	-5.8274 ppb	19:42:58
2	Fe 238.204 Radial†	7.2	-1.7	-22.273 ug/L	-22.273 ppb	19:42:58
2	K 766.490 Radial†	2550.1	-73.7	-16.267 ug/L	-16.267 ppb	19:42:38
2	Mg 279.077 IEC†	0.6	-2.2	-105.42 ug/L	-105.42 ppb	19:42:58
2	Na 589.592 Radial†	-470.9	-57.7	-23.209 ug/L	-23.209 ppb	19:42:38
2	Sr 421.552†	42.9	1.2	0.0106 ug/L	0.0106 ppb	19:42:38
2	Sc 361.383	778672.5	778672.5	106.26 %		19:43:55
2	Y 371.029	642382.4	642382.4	106.28 %		19:43:55
2	Ag 328.068†	184.0	21.0	0.1133 ug/L	0.1133 ppb	19:43:55
2	As 188.979†	-27.1	-3.3	-1.9809 ug/L	-1.9809 ppb	19:44:15
2	B 249.677†	-83.9	256.0	7.7095 ug/L	7.7095 ppb	19:44:15
2	Ba 233.527†	-3.3	-5.7	-0.0591 ug/L	-0.0591 ppb	19:44:15
2	Be 313.107†	-3921.3	201.3	0.0942 ug/L	0.0942 ppb	19:43:55
2	Cd 226.502†	-162.2	18.5	0.3026 ug/L	0.3026 ppb	19:44:15
2	Co 228.616†	-56.2	-6.2	-0.1755 ug/L	-0.1755 ppb	19:44:15
2	Cr 267.716†	120.8	18.6	0.2822 ug/L	0.2822 ppb	19:44:15
2	Cu 324.752†	5733.0	-321.6	-1.1501 ug/L	-1.1501 ppb	19:43:55
2	Mn 257.610†	440.2	-11.3	-0.0144 ug/L	-0.0144 ppb	19:44:15
2	Mo 202.031†	25.9	7.6	0.7656 ug/L	0.7656 ppb	19:44:15
2	Ni 231.604†	83.4	-4.1	-0.1471 ug/L	-0.1471 ppb	19:44:15

2	P 214.914†	191.1	-8.6	-6.7258 ug/L	-6.7258 ppb	19:44:15
2	Pb 220.353†	-38.1	13.2	2.2959 ug/L	2.2959 ppb	19:44:15
2	S 181.975 Axial†	25.4	-3.2	-6.2299 ug/L	-6.2299 ppb	19:44:15
2	Sb 206.836†	35.9	8.1	3.7833 ug/L	3.7833 ppb	19:44:15
2	Se 196.026†	-18.1	4.7	4.1616 ug/L	4.1616 ppb	19:44:15
2	Si 251.611†	443.2	-38.6	-1.6057 ug/L	-1.6057 ppb	19:44:15
2	Sn 189.927†	13.5	-0.9	-0.2288 ug/L	-0.2288 ppb	19:44:15
2	Ti 334.940†	-1055.6	50.9	0.1044 ug/L	0.1044 ppb	19:43:55
2	Tl 190.801†	-23.0	0.6	0.2543 ug/L	0.2543 ppb	19:44:15
2	U 409.014†	-1905.2	41.0	1.3965 ug/L	1.3965 ppb	19:43:55
2	V 292.402†	-1415.6	48.4	0.4488 ug/L	0.4488 ppb	19:43:55
2	Zn 213.857†	592.9	-101.9	-1.3542 ug/L	-1.3542 ppb	19:44:15
2	SiO2†	468.3	-23.3	-2.0696 ug/L	-2.0696 ppb	19:45:21
3	Sc Radial	4018.5	4018.5	106 %		19:43:23
3	Y RADIAL	4510.6	4510.6	110.5 %		19:43:03
3	Al 396.153Radial†	-62.6	13.8	16.490 ug/L	16.490 ppb	19:43:23
3	Ca 317.933Radial†	25.3	1.9	4.3431 ug/L	4.3431 ppb	19:43:23
3	Fe 238.204 Radial†	8.1	-0.9	-11.481 ug/L	-11.481 ppb	19:43:23
3	K 766.490 Radial†	2374.0	-240.7	-53.145 ug/L	-53.145 ppb	19:43:03
3	Mg 279.077 IEC†	0.5	-2.3	-109.45 ug/L	-109.45 ppb	19:43:23
3	Na 589.592 Radial†	-397.8	11.3	4.5491 ug/L	4.5491 ppb	19:43:03
3	Sr 421.552†	25.9	-14.8	-0.1348 ug/L	-0.1348 ppb	19:43:03
3	Sc 361.383	761609.4	761609.4	103.93 %		19:44:20
3	Y 371.029	627824.5	627824.5	103.87 %		19:44:20
3	Ag 328.068†	124.1	-32.8	-0.1927 ug/L	-0.1927 ppb	19:44:20
3	As 188.979†	-19.8	3.2	1.9539 ug/L	1.9539 ppb	19:44:40
3	B 249.677†	-92.3	246.2	7.4131 ug/L	7.4131 ppb	19:44:40
3	Ba 233.527†	5.9	3.1	0.0336 ug/L	0.0336 ppb	19:44:40
3	Be 313.107†	-3989.6	52.9	0.0246 ug/L	0.0246 ppb	19:44:20
3	Cd 226.502†	-165.0	12.4	0.2039 ug/L	0.2039 ppb	19:44:40
3	Co 228.616†	-58.7	-9.8	-0.2822 ug/L	-0.2822 ppb	19:44:40
3	Cr 267.716†	119.3	19.7	0.2994 ug/L	0.2994 ppb	19:44:40
3	Cu 324.752†	5739.9	-194.2	-0.6969 ug/L	-0.6969 ppb	19:44:20
3	Mn 257.610†	437.9	-4.2	-0.0028 ug/L	-0.0028 ppb	19:44:40
3	Mo 202.031†	11.1	-6.0	-0.6104 ug/L	-0.6104 ppb	19:44:40
3	Ni 231.604†	63.5	-21.4	-0.7689 ug/L	-0.7689 ppb	19:44:40
3	P 214.914†	195.6	-0.3	-0.0948 ug/L	-0.0948 ppb	19:44:40
3	Pb 220.353†	-58.7	-7.4	-1.2740 ug/L	-1.2740 ppb	19:44:40
3	S 181.975 Axial†	26.8	-1.4	-2.6422 ug/L	-2.6422 ppb	19:44:40
3	Sb 206.836†	37.1	10.1	4.6599 ug/L	4.6599 ppb	19:44:40
3	Se 196.026†	-16.7	5.6	5.0269 ug/L	5.0269 ppb	19:44:40
3	Si 251.611†	420.2	-51.4	-2.1163 ug/L	-2.1163 ppb	19:44:40
3	Sn 189.927†	8.1	-5.8	-1.4781 ug/L	-1.4781 ppb	19:44:40
3	Ti 334.940†	-1101.9	-15.9	-0.0236 ug/L	-0.0236 ppb	19:44:20
3	Tl 190.801†	-30.8	-7.4	-3.1904 ug/L	-3.1904 ppb	19:44:40
3	U 409.014†	-1727.5	171.8	5.8441 ug/L	5.8441 ppb	19:44:20
3	V 292.402†	-1370.4	62.0	0.5586 ug/L	0.5586 ppb	19:44:20
3	Zn 213.857†	577.4	-104.2	-1.3841 ug/L	-1.3841 ppb	19:44:40
3	SiO2†	442.8	-37.9	-3.3182 ug/L	-3.3182 ppb	19:45:41

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	765586.5	104.47 %	1.586			1.52%
Sc Radial	4000.3	106 %	0.8			0.75%
Y 371.029	631594.2	104.50 %	1.569			1.50%
Y RADIAL	4456.3	109.1 %	1.84			1.69%
Ag 328.068†	-11.1	-0.0721 ug/L	0.16295	-0.0721 ppb	0.16295	225.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.4	11.168 ug/L	4.7100	11.168 ppb	4.7100	42.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.6726 ug/L	2.27466	-0.6726 ppb	2.27466	338.18%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	260.8	7.8530 ug/L	0.52647	7.8530 ppb	0.52647	6.70%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.4	-0.0151 ug/L	0.04648	-0.0151 ppb	0.04648	308.62%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	94.0	0.0438 ug/L	0.04410	0.0438 ppb	0.04410	100.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.5	1.0507 ug/L	5.95840	1.0507 ppb	5.95840	567.11%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	16.3	0.2679 ug/L	0.05553	0.2679 ppb	0.05553	20.72%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-6.8	-0.1935 ug/L	0.08119	-0.1935 ppb	0.08119	41.95%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	16.3	0.2465 ug/L	0.07718	0.2465 ppb	0.07718	31.31%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-241.3	-0.8646 ug/L	0.24854	-0.8646 ppb	0.24854	28.75%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-1.6	-21.101 ug/L	9.0918	-21.101 ppb	9.0918	43.09%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-153.2	-33.813 ug/L	18.5033	-33.813 ppb	18.5033	54.72%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-1.9	-91.832 ug/L	27.0991	-91.832 ppb	27.0991	29.51%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-17.2	-0.0234 ug/L	0.02633	-0.0234 ppb	0.02633	112.58%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	1.5	0.1519 ug/L	0.69996	0.1519 ppb	0.69996	460.80%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-22.1	-8.9009 ug/L	13.89892	-8.9009 ppb	13.89892	156.15%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-6.5	-0.2345 ug/L	0.49650	-0.2345 ppb	0.49650	211.76%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-2.2	-1.5743 ug/L	4.59395	-1.5743 ppb	4.59395	291.80%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	5.1	0.8816 ug/L	1.89688	0.8816 ppb	1.89688	215.17%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-0.3	-0.6466 ug/L	6.80421	-0.6466 ppb	6.80421	>999.9%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	9.0	4.1565 ug/L	0.45259	4.1565 ppb	0.45259	10.89%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	3.6	3.2060 ug/L	2.44326	3.2060 ppb	2.44326	76.21%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-40.7	-1.6853 ug/L	0.39727	-1.6853 ppb	0.39727	23.57%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-1.7	-0.4247 ug/L	0.97045	-0.4247 ppb	0.97045	228.52%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	0.5	0.0043 ug/L	0.13603	0.0043 ppb	0.13603	>999.9%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-27.1	-0.0461 ug/L	0.16291	-0.0461 ppb	0.16291	353.54%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-0.6	-0.2643 ug/L	2.70432	-0.2643 ppb	2.70432	>999.9%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	120.3	4.0938 ug/L	2.37021	4.0938 ppb	2.37021	57.90%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	23.9	0.2256 ug/L	0.48474	0.2256 ppb	0.48474	214.84%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-99.0	-1.3167 ug/L	0.09207	-1.3167 ppb	0.09207	6.99%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-32.1	-2.8325 ug/L	0.66887	-2.8325 ppb	0.66887	23.61%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/26/2010 19:47:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4188.0	4188.0	111 %		19:49:45
1	Y RADIAL	4481.4	4481.4	109.8 %		19:49:45
1	Al 396.153Radial†	109.1	171.6	203.73 ug/L	203.73 ppb	19:50:05
1	Ca 317.933Radial†	115.8	82.8	185.53 ug/L	185.53 ppb	19:50:05
1	Fe 238.204 Radial†	17.1	7.0	92.755 ug/L	92.755 ppb	19:50:05
1	K 766.490 Radial†	3255.1	465.7	102.62 ug/L	102.62 ppb	19:49:45
1	Mg 279.077 IEC†	7.8	4.2	200.14 ug/L	200.14 ppb	19:50:05
1	Na 589.592 Radial†	443.8	787.8	316.79 ug/L	316.79 ppb	19:49:45
1	Sr 421.552†	604.5	507.5	4.6060 ug/L	4.6060 ppb	19:49:45
1	Sc 361.383	811470.9	811470.9	110.73 %		19:51:02
1	Y 371.029	669286.3	669286.3	110.73 %		19:51:02
1	Ag 328.068†	1096.9	838.4	4.7671 ug/L	4.7671 ppb	19:51:02
1	As 188.979†	29.5	48.9	29.726 ug/L	29.726 ppb	19:51:22
1	B 249.677†	1639.8	1815.8	54.623 ug/L	54.623 ppb	19:51:02
1	Ba 233.527†	537.6	482.9	5.0754 ug/L	5.0754 ppb	19:51:22
1	Be 313.107†	7985.0	11102.5	5.1955 ug/L	5.1955 ppb	19:51:02
1	Cd 226.502†	158.5	314.3	5.1121 ug/L	5.1121 ppb	19:51:22
1	Co 228.616†	142.3	175.2	5.0436 ug/L	5.0436 ppb	19:51:22
1	Cr 267.716†	429.6	292.9	4.4767 ug/L	4.4767 ppb	19:51:22
1	Cu 324.752†	9191.7	2583.7	9.1939 ug/L	9.1939 ppb	19:51:02
1	Mn 257.610†	8466.0	7219.8	10.539 ug/L	10.539 ppb	19:51:02
1	Mo 202.031†	116.7	88.7	8.9623 ug/L	8.9623 ppb	19:51:22
1	Ni 231.604†	239.3	133.6	4.7887 ug/L	4.7887 ppb	19:51:22
1	P 214.914†	397.9	170.8	136.33 ug/L	136.33 ppb	19:51:22
1	Pb 220.353†	20.7	67.8	11.773 ug/L	11.773 ppb	19:51:22
1	S 181.975 Axial†	87.1	51.6	100.29 ug/L	100.29 ppb	19:51:22
1	Sb 206.836†	57.9	26.7	12.735 ug/L	12.735 ppb	19:51:22
1	Se 196.026†	14.0	34.4	31.257 ug/L	31.257 ppb	19:51:22
1	Si 251.611†	3002.5	2255.7	93.080 ug/L	93.080 ppb	19:51:22
1	Sn 189.927†	61.8	42.1	10.713 ug/L	10.713 ppb	19:51:22
1	Ti 334.940†	1896.5	2757.0	5.2522 ug/L	5.2522 ppb	19:51:02
1	Tl 190.801†	39.4	57.9	25.019 ug/L	25.019 ppb	19:51:22
1	U 409.014†	-24.8	1811.6	61.581 ug/L	61.581 ppb	19:51:02
1	V 292.402†	-888.0	578.7	5.4228 ug/L	5.4228 ppb	19:51:02
1	Zn 213.857†	1506.0	700.1	9.2922 ug/L	9.2922 ppb	19:51:22
1	SiO2†	3181.0	2408.6	211.75 ug/L	211.75 ppb	19:52:19
2	Sc Radial	4037.6	4037.6	107 %		19:50:11
2	Y RADIAL	4335.2	4335.2	106.2 %		19:50:11
2	Al 396.153Radial†	113.4	179.2	212.80 ug/L	212.80 ppb	19:50:31
2	Ca 317.933Radial†	116.0	86.9	194.72 ug/L	194.72 ppb	19:50:31
2	Fe 238.204 Radial†	14.3	4.9	65.483 ug/L	65.483 ppb	19:50:31
2	K 766.490 Radial†	3267.6	587.1	129.44 ug/L	129.44 ppb	19:50:11
2	Mg 279.077 IEC†	7.3	4.0	189.96 ug/L	189.96 ppb	19:50:31
2	Na 589.592 Radial†	301.7	669.4	269.19 ug/L	269.19 ppb	19:50:11
2	Sr 421.552†	617.1	539.7	4.8983 ug/L	4.8983 ppb	19:50:11
2	Sc 361.383	784023.8	784023.8	106.99 %		19:51:28
2	Y 371.029	646431.1	646431.1	106.95 %		19:51:28
2	Ag 328.068†	1096.4	872.6	4.9581 ug/L	4.9581 ppb	19:51:28
2	As 188.979†	31.6	51.8	31.478 ug/L	31.478 ppb	19:51:48
2	B 249.677†	1655.9	1882.7	56.641 ug/L	56.641 ppb	19:51:28
2	Ba 233.527†	519.8	483.3	5.0802 ug/L	5.0802 ppb	19:51:48
2	Be 313.107†	7631.7	11024.8	5.1589 ug/L	5.1589 ppb	19:51:28
2	Cd 226.502†	172.2	332.1	5.4038 ug/L	5.4038 ppb	19:51:48
2	Co 228.616†	140.4	178.0	5.1238 ug/L	5.1238 ppb	19:51:48
2	Cr 267.716†	451.5	327.0	4.9979 ug/L	4.9979 ppb	19:51:48
2	Cu 324.752†	8800.6	2508.7	8.9265 ug/L	8.9265 ppb	19:51:28
2	Mn 257.610†	8168.1	7208.9	10.520 ug/L	10.520 ppb	19:51:28
2	Mo 202.031†	116.9	92.5	9.3467 ug/L	9.3467 ppb	19:51:48
2	Ni 231.604†	234.9	137.0	4.9123 ug/L	4.9123 ppb	19:51:48

2	P 214.914†	401.9	187.2	149.61 ug/L	149.61 ppb	19:51:48
2	Pb 220.353†	24.3	71.8	12.475 ug/L	12.475 ppb	19:51:48
2	S 181.975 Axial†	88.4	55.6	108.01 ug/L	108.01 ppb	19:51:48
2	Sb 206.836†	48.0	19.2	9.2163 ug/L	9.2163 ppb	19:51:48
2	Se 196.026†	8.9	30.0	27.258 ug/L	27.258 ppb	19:51:48
2	Si 251.611†	3030.4	2376.8	98.076 ug/L	98.076 ppb	19:51:48
2	Sn 189.927†	46.2	29.6	7.5247 ug/L	7.5247 ppb	19:51:48
2	Ti 334.940†	1768.3	2697.1	5.1408 ug/L	5.1408 ppb	19:51:28
2	Tl 190.801†	26.1	46.7	20.199 ug/L	20.199 ppb	19:51:48
2	U 409.014†	-115.4	1726.2	58.679 ug/L	58.679 ppb	19:51:28
2	V 292.402†	-778.6	652.9	6.0926 ug/L	6.0926 ppb	19:51:28
2	Zn 213.857†	1501.1	743.2	9.8705 ug/L	9.8705 ppb	19:51:48
2	SiO2†	3191.4	2518.9	221.44 ug/L	221.44 ppb	19:52:24
3	Sc Radial	4222.3	4222.3	111 %		19:50:36
3	Y RADIAL	4498.5	4498.5	110.2 %		19:50:36
3	Al 396.153Radial†	109.4	171.1	203.05 ug/L	203.05 ppb	19:50:56
3	Ca 317.933Radial†	116.6	82.7	185.30 ug/L	185.30 ppb	19:50:56
3	Fe 238.204 Radial†	15.8	5.7	76.089 ug/L	76.089 ppb	19:50:56
3	K 766.490 Radial†	3151.2	348.6	76.769 ug/L	76.769 ppb	19:50:36
3	Mg 279.077 IEC†	9.7	5.9	278.61 ug/L	278.61 ppb	19:50:56
3	Na 589.592 Radial†	378.1	725.5	291.74 ug/L	291.74 ppb	19:50:36
3	Sr 421.552†	591.6	491.5	4.4608 ug/L	4.4608 ppb	19:50:36
3	Sc 361.383	777839.0	777839.0	106.15 %		19:51:53
3	Y 371.029	641104.6	641104.6	106.07 %		19:51:53
3	Ag 328.068†	1091.0	875.7	4.9760 ug/L	4.9760 ppb	19:51:53
3	As 188.979†	25.6	46.4	28.200 ug/L	28.200 ppb	19:52:13
3	B 249.677†	1606.3	1848.3	55.604 ug/L	55.604 ppb	19:51:53
3	Ba 233.527†	508.8	476.8	5.0119 ug/L	5.0119 ppb	19:52:13
3	Be 313.107†	7577.3	11030.2	5.1618 ug/L	5.1618 ppb	19:51:53
3	Cd 226.502†	176.5	337.4	5.4895 ug/L	5.4895 ppb	19:52:13
3	Co 228.616†	132.2	171.3	4.9327 ug/L	4.9327 ppb	19:52:13
3	Cr 267.716†	481.8	358.9	5.4864 ug/L	5.4864 ppb	19:52:13
3	Cu 324.752†	8858.7	2628.9	9.3550 ug/L	9.3550 ppb	19:51:53
3	Mn 257.610†	8112.1	7216.9	10.530 ug/L	10.530 ppb	19:51:53
3	Mo 202.031†	123.0	99.1	10.020 ug/L	10.020 ppb	19:52:13
3	Ni 231.604†	233.1	137.1	4.9147 ug/L	4.9147 ppb	19:52:13
3	P 214.914†	390.0	179.0	142.86 ug/L	142.86 ppb	19:52:13
3	Pb 220.353†	23.6	71.3	12.393 ug/L	12.393 ppb	19:52:13
3	S 181.975 Axial†	87.9	55.7	108.33 ug/L	108.33 ppb	19:52:13
3	Sb 206.836†	44.6	16.4	7.9170 ug/L	7.9170 ppb	19:52:13
3	Se 196.026†	22.5	42.9	38.873 ug/L	38.873 ppb	19:52:13
3	Si 251.611†	3027.4	2396.4	98.878 ug/L	98.878 ppb	19:52:13
3	Sn 189.927†	44.7	28.4	7.2390 ug/L	7.2390 ppb	19:52:13
3	Ti 334.940†	1842.5	2780.2	5.2904 ug/L	5.2904 ppb	19:51:53
3	Tl 190.801†	22.9	43.8	18.953 ug/L	18.953 ppb	19:52:13
3	U 409.014†	-67.4	1770.6	60.186 ug/L	60.186 ppb	19:51:53
3	V 292.402†	-821.4	606.7	5.6909 ug/L	5.6909 ppb	19:51:53
3	Zn 213.857†	1488.9	742.8	9.8636 ug/L	9.8636 ppb	19:52:13
3	SiO2†	3178.6	2530.6	222.45 ug/L	222.45 ppb	19:52:29

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	791111.2	107.96 %	2.443			2.26%
Sc Radial	4149.3	110 %	2.6			2.37%
Y 371.029	652274.0	107.92 %	2.477			2.30%
Y RADIAL	4438.4	108.7 %	2.20			2.02%
Ag 328.068†	862.3	4.9004 ug/L	0.11579	4.9004 ppb	0.11579	2.36%
QC value within limits for Ag 328.068 Recovery = 98.01%						
Al 396.153Radial†	173.9	206.53 ug/L	5.441	206.53 ppb	5.441	2.63%
QC value within limits for Al 396.153Radial Recovery = 103.26%						
As 188.979†	49.0	29.801 ug/L	1.6407	29.801 ppb	1.6407	5.51%
QC value within limits for As 188.979 Recovery = 99.34%						
B 249.677†	1848.9	55.623 ug/L	1.0091	55.623 ppb	1.0091	1.81%
QC value within limits for B 249.677 Recovery = 111.25%						
Ba 233.527†	481.0	5.0559 ug/L	0.03811	5.0559 ppb	0.03811	0.75%
QC value within limits for Ba 233.527 Recovery = 101.12%						
Be 313.107†	11052.5	5.1721 ug/L	0.02033	5.1721 ppb	0.02033	0.39%
QC value within limits for Be 313.107 Recovery = 103.44%						
Ca 317.933Radial†	84.1	188.52 ug/L	5.373	188.52 ppb	5.373	2.85%

QC value within limits for Ca 317.933 Radial Recovery = 94.26%

Cd 226.502†	327.9	5.3351 ug/L	0.19785	5.3351 ppb	0.19785	3.71%
QC value within limits for Cd 226.502 Recovery = 106.70%						
Co 228.616†	174.8	5.0334 ug/L	0.09598	5.0334 ppb	0.09598	1.91%
QC value within limits for Co 228.616 Recovery = 100.67%						
Cr 267.716†	326.2	4.9870 ug/L	0.50497	4.9870 ppb	0.50497	10.13%
QC value within limits for Cr 267.716 Recovery = 99.74%						
Cu 324.752†	2573.8	9.1585 ug/L	0.21642	9.1585 ppb	0.21642	2.36%
QC value within limits for Cu 324.752 Recovery = 91.58%						
Fe 238.204 Radial†	5.9	78.109 ug/L	13.7478	78.109 ppb	13.7478	17.60%
QC value within limits for Fe 238.204 Radial Recovery = 78.11%						
K 766.490 Radial†	467.1	102.94 ug/L	26.338	102.94 ppb	26.338	25.59%
QC value less than the lower limit for K 766.490 Radial Recovery = 68.63%						
Mg 279.077 IEC†	4.7	222.90 ug/L	48.514	222.90 ppb	48.514	21.76%
QC value within limits for Mg 279.077 IEC Recovery = 74.30%						
Mn 257.610†	7215.2	10.529 ug/L	0.0090	10.529 ppb	0.0090	0.09%
QC value within limits for Mn 257.610 Recovery = 105.29%						
Mo 202.031†	93.4	9.4429 ug/L	0.53515	9.4429 ppb	0.53515	5.67%
QC value within limits for Mo 202.031 Recovery = 94.43%						
Na 589.592 Radial†	727.6	292.57 ug/L	23.810	292.57 ppb	23.810	8.14%
QC value within limits for Na 589.592 Radial Recovery = 97.52%						
Ni 231.604†	135.9	4.8719 ug/L	0.07204	4.8719 ppb	0.07204	1.48%
QC value within limits for Ni 231.604 Recovery = 97.44%						
P 214.914†	179.0	142.93 ug/L	6.636	142.93 ppb	6.636	4.64%
QC value within limits for P 214.914 Recovery = 95.29%						
Pb 220.353†	70.3	12.213 ug/L	0.3840	12.213 ppb	0.3840	3.14%
QC value within limits for Pb 220.353 Recovery = 122.13%						
S 181.975 Axial†	54.3	105.54 ug/L	4.556	105.54 ppb	4.556	4.32%
QC value within limits for S 181.975 Axial Recovery = 105.54%						
Sb 206.836†	20.8	9.9562 ug/L	2.49289	9.9562 ppb	2.49289	25.04%
QC value within limits for Sb 206.836 Recovery = 99.56%						
Se 196.026†	35.8	32.463 ug/L	5.9006	32.463 ppb	5.9006	18.18%
QC value within limits for Se 196.026 Recovery = 108.21%						
Si 251.611†	2342.9	96.678 ug/L	3.1416	96.678 ppb	3.1416	3.25%
QC value within limits for Si 251.611 Recovery = 96.68%						
Sn 189.927†	33.4	8.4922 ug/L	1.92849	8.4922 ppb	1.92849	22.71%
QC value within limits for Sn 189.927 Recovery = 84.92%						
Sr 421.552†	512.9	4.6550 ug/L	0.22282	4.6550 ppb	0.22282	4.79%
QC value within limits for Sr 421.552 Recovery = 93.10%						
Ti 334.940†	2744.8	5.2278 ug/L	0.07770	5.2278 ppb	0.07770	1.49%
QC value within limits for Ti 334.940 Recovery = 104.56%						
Tl 190.801†	49.5	21.390 ug/L	3.2038	21.390 ppb	3.2038	14.98%
QC value within limits for Tl 190.801 Recovery = 106.95%						
U 409.014†	1769.4	60.149 ug/L	1.4514	60.149 ppb	1.4514	2.41%
QC value within limits for U 409.014 Recovery = 120.30%						
V 292.402†	612.8	5.7354 ug/L	0.33710	5.7354 ppb	0.33710	5.88%
QC value within limits for V 292.402 Recovery = 114.71%						
Zn 213.857†	728.7	9.6754 ug/L	0.33193	9.6754 ppb	0.33193	3.43%
QC value within limits for Zn 213.857 Recovery = 96.75%						
SiO2†	2486.0	218.55 ug/L	5.911	218.55 ppb	5.911	2.70%
QC value within limits for SiO2 Recovery = 102.60%						

QC Failed. Continue with analysis.

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/26/2010 19:54:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3936.7	3936.7	104 %		19:56:53
1	Y RADIAL	4216.2	4216.2	103.3 %		19:56:53
1	Al 396.153Radial†	441754.7	425143.8	505890 ug/L	505890 ppb	19:56:33
1	Ca 317.933Radial†	215313.6	207160.0	464120 ug/L	464120 ppb	19:56:33
1	Fe 238.204 Radial†	14268.9	13721.5	181390 ug/L	181390 ppb	19:56:53
1	K 766.490 Radial†	2302.9	-262.6	-213.25 ug/L	-213.25 ppb	19:56:33
1	Mg 279.077 IEC†	10650.4	10245.4	484360 ug/L	484360 ppb	19:56:53
1	Na 589.592 Radial†	-178.0	215.0	86.465 ug/L	86.465 ppb	19:56:53
1	Sr 421.552†	433.4	377.7	-0.0363 ug/L	-0.0363 ppb	19:56:53
1	Sc 361.383	699922.4	699922.4	95.513 %		19:57:50
1	Y 371.029	568757.6	568757.6	94.099 %		19:57:50
1	Ag 328.068†	-8425.2	-8973.2	-1.2327 ug/L	-1.2327 ppb	19:57:50
1	As 188.979†	-87.9	-69.7	0.0453 ug/L	0.0453 ppb	19:58:11
1	B 249.677†	433.2	788.5	-5.7279 ug/L	-5.7279 ppb	19:57:50
1	Ba 233.527†	-465.0	-489.4	0.4282 ug/L	0.4282 ppb	19:58:11
1	Be 313.107†	-4147.7	-450.9	-0.2584 ug/L	-0.2584 ppb	19:57:50
1	Cd 226.502†	1060.8	1281.7	2.1013 ug/L	2.1013 ppb	19:58:11
1	Co 228.616†	6.1	53.1	-1.0975 ug/L	-1.0975 ppb	19:58:11
1	Cr 267.716†	-1205.1	-1356.8	-1.5479 ug/L	-1.5479 ppb	19:58:11
1	Cu 324.752†	3270.7	-2292.6	1.3917 ug/L	1.3917 ppb	19:57:50
1	Mn 257.610†	130.4	-289.0	-2.3182 ug/L	-2.3182 ppb	19:57:50
1	Mo 202.031†	-203.4	-229.7	-3.5927 ug/L	-3.5927 ppb	19:58:11
1	Ni 231.604†	183.0	109.0	3.9105 ug/L	3.9105 ppb	19:58:11
1	P 214.914†	161.4	-19.5	-34.903 ug/L	-34.903 ppb	19:58:11
1	Pb 220.353†	-623.2	-603.5	-11.821 ug/L	-11.821 ppb	19:58:11
1	S 181.975 Axial†	28.2	2.5	-90.024 ug/L	-90.024 ppb	19:58:11
1	Sb 206.836†	54.2	31.1	-2.9640 ug/L	-2.9640 ppb	19:58:11
1	Se 196.026†	-718.0	-730.0	-34.859 ug/L	-34.859 ppb	19:58:11
1	Si 251.611†	422.8	-13.0	-0.2526 ug/L	-0.2526 ppb	19:58:11
1	Sn 189.927†	-323.1	-352.0	-17.191 ug/L	-17.191 ppb	19:58:11
1	Ti 334.940†	-11527.0	-11024.2	1.5787 ug/L	1.5787 ppb	19:57:50
1	Tl 190.801†	-52.7	-32.9	-14.396 ug/L	-14.396 ppb	19:58:11
1	U 409.014†	-458.7	1353.7	25.400 ug/L	25.400 ppb	19:57:50
1	V 292.402†	577.7	1985.4	0.5556 ug/L	0.5556 ppb	19:58:11
1	Zn 213.857†	2596.9	2059.1	0.3356 ug/L	0.3356 ppb	19:58:11
1	SiO2†	379.1	-67.0	-5.2670 ug/L	-5.2670 ppb	19:59:07
2	Sc Radial	3807.7	3807.7	101 %		19:57:18
2	Y RADIAL	4082.6	4082.6	100.00 %		19:57:18
2	Al 396.153Radial†	440338.2	438137.4	521350 ug/L	521350 ppb	19:56:58
2	Ca 317.933Radial†	214634.4	213504.1	478330 ug/L	478330 ppb	19:56:58
2	Fe 238.204 Radial†	13846.2	13766.2	181980 ug/L	181980 ppb	19:57:18
2	K 766.490 Radial†	2253.8	-236.4	-212.20 ug/L	-212.20 ppb	19:56:58
2	Mg 279.077 IEC†	10293.1	10237.1	483970 ug/L	483970 ppb	19:57:18
2	Na 589.592 Radial†	-203.0	184.3	74.126 ug/L	74.126 ppb	19:57:18
2	Sr 421.552†	428.1	386.6	-0.0618 ug/L	-0.0618 ppb	19:57:18
2	Sc 361.383	705919.3	705919.3	96.331 %		19:58:16
2	Y 371.029	573669.7	573669.7	94.912 %		19:58:16
2	Ag 328.068†	-8490.2	-8965.7	-1.1983 ug/L	-1.1983 ppb	19:58:16
2	As 188.979†	-74.0	-54.5	9.4164 ug/L	9.4164 ppb	19:58:36
2	B 249.677†	386.4	736.1	-7.4047 ug/L	-7.4047 ppb	19:58:16
2	Ba 233.527†	-476.1	-496.7	0.3697 ug/L	0.3697 ppb	19:58:36
2	Be 313.107†	-4190.2	-458.2	-0.2619 ug/L	-0.2619 ppb	19:58:16
2	Cd 226.502†	1046.9	1257.9	1.6515 ug/L	1.6515 ppb	19:58:36
2	Co 228.616†	27.6	75.3	-0.4643 ug/L	-0.4643 ppb	19:58:36
2	Cr 267.716†	-1241.9	-1384.3	-1.9052 ug/L	-1.9052 ppb	19:58:36
2	Cu 324.752†	3225.9	-2368.2	1.1545 ug/L	1.1545 ppb	19:58:16
2	Mn 257.610†	124.0	-296.8	-2.2553 ug/L	-2.2553 ppb	19:58:16
2	Mo 202.031†	-197.7	-222.0	-2.5971 ug/L	-2.5971 ppb	19:58:36
2	Ni 231.604†	153.5	76.7	2.7521 ug/L	2.7521 ppb	19:58:36

2	P 214.914†	154.5	-28.1	-38.427 ug/L	-38.427 ppb	19:58:36
2	Pb 220.353†	-626.9	-601.7	-7.9714 ug/L	-7.9714 ppb	19:58:36
2	S 181.975 Axial†	42.9	17.4	-63.850 ug/L	-63.850 ppb	19:58:36
2	Sb 206.836†	58.7	35.3	-1.4520 ug/L	-1.4520 ppb	19:58:36
2	Se 196.026†	-725.8	-731.7	-30.551 ug/L	-30.551 ppb	19:58:36
2	Si 251.611†	398.6	-41.9	-1.4547 ug/L	-1.4547 ppb	19:58:36
2	Sn 189.927†	-328.6	-354.7	-15.402 ug/L	-15.402 ppb	19:58:36
2	Ti 334.940†	-11662.2	-11062.1	3.4459 ug/L	3.4459 ppb	19:58:16
2	Tl 190.801†	-66.6	-46.9	-20.425 ug/L	-20.425 ppb	19:58:36
2	U 409.014†	-545.2	1268.0	22.420 ug/L	22.420 ppb	19:58:16
2	V 292.402†	584.9	1987.7	0.4886 ug/L	0.4886 ppb	19:58:36
2	Zn 213.857†	2582.8	2021.4	-0.2487 ug/L	-0.2487 ppb	19:58:36
2	SiO2†	363.8	-86.4	-6.9907 ug/L	-6.9907 ppb	19:59:12
3	Sc Radial	3802.2	3802.2	100 %		19:57:44
3	Y RADIAL	4077.2	4077.2	99.86 %		19:57:44
3	Al 396.153Radial†	437938.5	436377.6	519260 ug/L	519260 ppb	19:57:24
3	Ca 317.933Radial†	212905.5	212089.3	475160 ug/L	475160 ppb	19:57:24
3	Fe 238.204 Radial†	13801.4	13741.5	181660 ug/L	181660 ppb	19:57:44
3	K 766.490 Radial†	2223.0	-263.8	-217.19 ug/L	-217.19 ppb	19:57:24
3	Mg 279.077 IEC†	10273.9	10232.7	483760 ug/L	483760 ppb	19:57:44
3	Na 589.592 Radial†	-198.8	188.3	75.717 ug/L	75.717 ppb	19:57:44
3	Sr 421.552†	430.0	389.2	-0.0149 ug/L	-0.0149 ppb	19:57:44
3	Sc 361.383	714015.7	714015.7	97.436 %		19:58:41
3	Y 371.029	580004.0	580004.0	95.960 %		19:58:41
3	Ag 328.068†	-8768.0	-9150.9	-2.3219 ug/L	-2.3219 ppb	19:58:41
3	As 188.979†	-80.3	-60.1	5.9033 ug/L	5.9033 ppb	19:59:01
3	B 249.677†	512.7	861.2	-3.5820 ug/L	-3.5820 ppb	19:58:41
3	Ba 233.527†	-452.4	-466.8	0.6719 ug/L	0.6719 ppb	19:59:01
3	Be 313.107†	-4356.5	-579.6	-0.3227 ug/L	-0.3227 ppb	19:58:41
3	Cd 226.502†	1050.9	1249.8	1.5552 ug/L	1.5552 ppb	19:59:01
3	Co 228.616†	-4.7	41.9	-1.4139 ug/L	-1.4139 ppb	19:59:01
3	Cr 267.716†	-1199.1	-1325.8	-1.0494 ug/L	-1.0494 ppb	19:59:01
3	Cu 324.752†	3340.3	-2288.8	1.4147 ug/L	1.4147 ppb	19:58:41
3	Mn 257.610†	119.4	-303.0	-2.2881 ug/L	-2.2881 ppb	19:58:41
3	Mo 202.031†	-188.2	-209.9	-1.4433 ug/L	-1.4433 ppb	19:59:01
3	Ni 231.604†	157.7	79.3	2.8438 ug/L	2.8438 ppb	19:59:01
3	P 214.914†	167.2	-16.9	-29.632 ug/L	-29.632 ppb	19:59:01
3	Pb 220.353†	-620.1	-587.4	-5.9586 ug/L	-5.9586 ppb	19:59:01
3	S 181.975 Axial†	28.2	1.8	-93.763 ug/L	-93.763 ppb	19:59:01
3	Sb 206.836†	63.4	39.5	0.7150 ug/L	0.7150 ppb	19:59:01
3	Se 196.026†	-724.3	-721.7	-22.958 ug/L	-22.958 ppb	19:59:01
3	Si 251.611†	401.9	-43.3	-1.5261 ug/L	-1.5261 ppb	19:59:01
3	Sn 189.927†	-301.2	-322.8	-7.8535 ug/L	-7.8535 ppb	19:59:01
3	Ti 334.940†	-12702.2	-11992.2	1.2537 ug/L	1.2537 ppb	19:58:41
3	Tl 190.801†	-67.5	-47.0	-20.492 ug/L	-20.492 ppb	19:59:01
3	U 409.014†	-227.4	1600.6	33.765 ug/L	33.765 ppb	19:58:41
3	V 292.402†	516.6	1910.8	-0.1183 ug/L	-0.1183 ppb	19:59:01
3	Zn 213.857†	2568.0	1975.7	-0.8098 ug/L	-0.8098 ppb	19:59:01
3	SiO2†	367.5	-86.8	-7.0653 ug/L	-7.0653 ppb	19:59:17

Mean Data: ICSCA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	706619.1	96.427 %	0.9651			1.00%
Sc Radial	3848.9	102 %	2.0			1.98%
Y 371.029	574143.8	94.990 %	0.9328			0.98%
Y RADIAL	4125.3	101.0 %	1.93			1.91%
Ag 328.068†	-9029.9	-1.5843 ug/L	0.63902	-1.5843 ppb	0.63902	40.34%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	433219.6	515500 ug/L	8387.7	515500 ppb	8387.7	1.63%
QC value within limits for Al 396.153Radial Recovery = 103.10%						
As 188.979†	-61.4	5.1217 ug/L	4.73416	5.1217 ppb	4.73416	92.43%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	795.3	-5.5716 ug/L	1.91617	-5.5716 ppb	1.91617	34.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-484.3	0.4899 ug/L	0.16026	0.4899 ppb	0.16026	32.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-496.2	-0.2810 ug/L	0.03612	-0.2810 ppb	0.03612	12.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	210917.8	472540 ug/L	7461.4	472540 ppb	7461.4	1.58%

QC value within limits for Ca 317.933 Radial Recovery = 94.51%

Cd 226.502†	1263.1	1.7693 ug/L	0.29148	1.7693 ppb	0.29148	16.47%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	56.8	-0.9919 ug/L	0.48352	-0.9919 ppb	0.48352	48.75%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1355.6	-1.5009 ug/L	0.42982	-1.5009 ppb	0.42982	28.64%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2316.5	1.3203 ug/L	0.14406	1.3203 ppb	0.14406	10.91%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	13743.1	181680 ug/L	295.7	181680 ppb	295.7	0.16%
QC value within limits for Fe 238.204 Radial Recovery = 90.84%						
K 766.490 Radial†	-254.3	-214.21 ug/L	2.633	-214.21 ppb	2.633	1.23%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	10238.4	484030 ug/L	303.3	484030 ppb	303.3	0.06%
QC value within limits for Mg 279.077 IEC Recovery = 96.81%						
Mn 257.610†	-296.3	-2.2872 ug/L	0.03145	-2.2872 ppb	0.03145	1.38%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-220.5	-2.5444 ug/L	1.07570	-2.5444 ppb	1.07570	42.28%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	195.9	78.769 ug/L	6.7123	78.769 ppb	6.7123	8.52%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	88.3	3.1688 ug/L	0.64398	3.1688 ppb	0.64398	20.32%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-21.5	-34.320 ug/L	4.4261	-34.320 ppb	4.4261	12.90%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-597.5	-8.5836 ug/L	2.97868	-8.5836 ppb	2.97868	34.70%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	7.2	-82.546 ug/L	16.2989	-82.546 ppb	16.2989	19.75%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	35.3	-1.2337 ug/L	1.84917	-1.2337 ppb	1.84917	149.89%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-727.8	-29.456 ug/L	6.0254	-29.456 ppb	6.0254	20.46%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-32.7	-1.0778 ug/L	0.71552	-1.0778 ppb	0.71552	66.39%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-343.2	-13.482 ug/L	4.9558	-13.482 ppb	4.9558	36.76%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	384.5	-0.0377 ug/L	0.02349	-0.0377 ppb	0.02349	62.36%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-11359.5	2.0928 ug/L	1.18307	2.0928 ppb	1.18307	56.53%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-42.2	-18.438 ug/L	3.5005	-18.438 ppb	3.5005	18.99%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1407.5	27.195 ug/L	5.8813	27.195 ppb	5.8813	21.63%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	1961.3	0.3086 ug/L	0.37123	0.3086 ppb	0.37123	120.28%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2018.7	-0.2409 ug/L	0.57274	-0.2409 ppb	0.57274	237.73%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-80.1	-6.4410 ug/L	1.01737	-6.4410 ppb	1.01737	15.80%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/26/2010 20:01:29
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3946.8	3946.8	104 %		20:03:42
1	Y RADIAL	4232.2	4232.2	103.7 %		20:03:42
1	Al 396.153Radial†	445871.0	428008.0	509280 ug/L	509280 ppb	20:03:22
1	Ca 317.933Radial†	216033.3	207321.1	464480 ug/L	464480 ppb	20:03:22
1	Fe 238.204 Radial†	13831.9	13267.0	175400 ug/L	175400 ppb	20:03:42
1	K 766.490 Radial†	25889.1	22369.1	4780.6 ug/L	4780.6 ppb	20:03:22
1	Mg 279.077 IEC†	10309.3	9891.8	467640 ug/L	467640 ppb	20:03:42
1	Na 589.592 Radial†	12721.3	12595.8	5065.2 ug/L	5065.2 ppb	20:03:22
1	Sr 421.552†	54084.0	51869.1	467.43 ug/L	467.43 ppb	20:03:22
1	Sc 361.383	742976.8	742976.8	101.39 %		20:04:40
1	Y 371.029	601813.9	601813.9	99.568 %		20:04:40
1	Ag 328.068†	39360.9	38669.9	269.58 ug/L	269.58 ppb	20:04:40
1	As 188.979†	778.8	790.5	524.05 ug/L	524.05 ppb	20:05:00
1	B 249.677†	17644.9	17738.3	504.15 ug/L	504.15 ppb	20:04:40
1	Ba 233.527†	46337.1	45700.2	485.46 ug/L	485.46 ppb	20:04:40
1	Be 313.107†	531119.2	527739.8	247.48 ug/L	247.48 ppb	20:04:40
1	Cd 226.502†	29375.4	29144.4	455.82 ug/L	455.82 ppb	20:05:00
1	Co 228.616†	15594.0	15427.3	440.86 ug/L	440.86 ppb	20:05:00
1	Cr 267.716†	30599.4	30085.4	479.71 ug/L	479.71 ppb	20:04:40
1	Cu 324.752†	158471.6	150585.1	546.54 ug/L	546.54 ppb	20:04:40
1	Mn 257.610†	330397.5	325448.8	473.20 ug/L	473.20 ppb	20:04:40
1	Mo 202.031†	4619.0	4539.0	477.50 ug/L	477.50 ppb	20:05:00
1	Ni 231.604†	12791.9	12534.2	449.44 ug/L	449.44 ppb	20:05:00
1	P 214.914†	3292.4	3058.9	2355.1 ug/L	2355.1 ppb	20:05:00
1	Pb 220.353†	2000.1	2021.8	444.78 ug/L	444.78 ppb	20:05:00
1	S 181.975 Axial†	1393.4	1347.2	2524.3 ug/L	2524.3 ppb	20:05:00
1	Sb 206.836†	1226.5	1184.1	549.20 ug/L	549.20 ppb	20:05:00
1	Se 196.026†	2032.7	2026.6	2431.9 ug/L	2431.9 ppb	20:05:00
1	Si 251.611†	127381.1	125181.6	5166.0 ug/L	5166.0 ppb	20:04:40
1	Sn 189.927†	1585.9	1550.6	465.56 ug/L	465.56 ppb	20:05:00
1	Ti 334.940†	253904.0	251472.3	504.59 ug/L	504.59 ppb	20:04:40
1	Tl 190.801†	976.3	985.2	428.18 ug/L	428.18 ppb	20:05:00
1	U 409.014†	14012.9	15655.1	511.32 ug/L	511.32 ppb	20:04:40
1	V 292.402†	56909.3	57510.8	506.65 ug/L	506.65 ppb	20:04:40
1	Zn 213.857†	40091.0	38882.4	489.36 ug/L	489.36 ppb	20:04:40
1	SiO2†	126990.5	124788.0	10970 ug/L	10970 ppb	20:05:57
2	Sc Radial	3845.5	3845.5	102 %		20:04:07
2	Y RADIAL	4129.6	4129.6	101.1 %		20:04:07
2	Al 396.153Radial†	435144.4	428717.4	510120 ug/L	510120 ppb	20:03:47
2	Ca 317.933Radial†	211620.5	208437.5	466980 ug/L	466980 ppb	20:03:47
2	Fe 238.204 Radial†	13939.2	13722.5	181420 ug/L	181420 ppb	20:04:07
2	K 766.490 Radial†	25489.4	22630.1	4837.3 ug/L	4837.3 ppb	20:03:47
2	Mg 279.077 IEC†	10376.7	10218.9	483110 ug/L	483110 ppb	20:04:07
2	Na 589.592 Radial†	12536.8	12735.9	5121.5 ug/L	5121.5 ppb	20:03:47
2	Sr 421.552†	52912.9	52083.2	469.36 ug/L	469.36 ppb	20:03:47
2	Sc 361.383	723107.1	723107.1	98.677 %		20:05:06
2	Y 371.029	585407.7	585407.7	96.854 %		20:05:06
2	Ag 328.068†	38455.8	38819.4	272.27 ug/L	272.27 ppb	20:05:06
2	As 188.979†	766.3	798.9	530.57 ug/L	530.57 ppb	20:05:26
2	B 249.677†	17283.6	17850.4	506.52 ug/L	506.52 ppb	20:05:06
2	Ba 233.527†	45428.1	46034.8	489.16 ug/L	489.16 ppb	20:05:06
2	Be 313.107†	520717.8	531593.3	249.29 ug/L	249.29 ppb	20:05:06
2	Cd 226.502†	29133.5	29695.3	464.16 ug/L	464.16 ppb	20:05:26
2	Co 228.616†	15440.1	15693.9	448.46 ug/L	448.46 ppb	20:05:26
2	Cr 267.716†	29873.0	30178.6	481.78 ug/L	481.78 ppb	20:05:06
2	Cu 324.752†	154617.5	150974.3	548.24 ug/L	548.24 ppb	20:05:06
2	Mn 257.610†	324553.1	328480.5	477.59 ug/L	477.59 ppb	20:05:06
2	Mo 202.031†	4608.6	4653.7	489.57 ug/L	489.57 ppb	20:05:26
2	Ni 231.604†	12644.8	12731.8	456.52 ug/L	456.52 ppb	20:05:26

2	P 214.914†	3253.7	3108.8	2390.7 ug/L	2390.7 ppb	20:05:26
2	Pb 220.353†	1995.8	2071.7	452.80 ug/L	452.80 ppb	20:05:26
2	S 181.975 Axial†	1379.4	1370.8	2569.9 ug/L	2569.9 ppb	20:05:26
2	Sb 206.836†	1182.2	1172.5	544.11 ug/L	544.11 ppb	20:05:26
2	Se 196.026†	2036.3	2085.3	2501.0 ug/L	2501.0 ppb	20:05:26
2	Si 251.611†	124609.9	125825.5	5192.4 ug/L	5192.4 ppb	20:05:06
2	Sn 189.927†	1584.4	1592.0	476.15 ug/L	476.15 ppb	20:05:26
2	Ti 334.940†	248963.2	253346.6	507.24 ug/L	507.24 ppb	20:05:06
2	Tl 190.801†	968.8	1004.1	436.34 ug/L	436.34 ppb	20:05:26
2	U 409.014†	13906.5	15927.0	519.88 ug/L	519.88 ppb	20:05:06
2	V 292.402†	55756.1	57884.5	509.61 ug/L	509.61 ppb	20:05:06
2	Zn 213.857†	39350.7	39218.7	492.90 ug/L	492.90 ppb	20:05:06
2	SiO2†	126073.9	127300.9	11191 ug/L	11191 ppb	20:06:02
3	Sc Radial	3880.7	3880.7	102 %		20:04:32
3	Y RADIAL	4167.7	4167.7	102.1 %		20:04:32
3	Al 396.153Radial†	446881.8	436285.0	519130 ug/L	519130 ppb	20:04:12
3	Ca 317.933Radial†	216158.1	210975.3	472670 ug/L	472670 ppb	20:04:12
3	Fe 238.204 Radial†	13983.4	13641.1	180340 ug/L	180340 ppb	20:04:32
3	K 766.490 Radial†	25843.2	22747.7	4861.4 ug/L	4861.4 ppb	20:04:12
3	Mg 279.077 IEC†	10421.5	10169.8	480790 ug/L	480790 ppb	20:04:32
3	Na 589.592 Radial†	12705.0	12788.0	5142.4 ug/L	5142.4 ppb	20:04:12
3	Sr 421.552†	54276.7	52941.6	477.11 ug/L	477.11 ppb	20:04:12
3	Sc 361.383	729841.3	729841.3	99.596 %		20:05:32
3	Y 371.029	591151.2	591151.2	97.804 %		20:05:32
3	Ag 328.068†	38675.4	38680.3	271.06 ug/L	271.06 ppb	20:05:32
3	As 188.979†	751.5	776.9	516.93 ug/L	516.93 ppb	20:05:52
3	B 249.677†	17416.7	17822.4	505.86 ug/L	505.86 ppb	20:05:32
3	Ba 233.527†	45476.2	45658.3	485.17 ug/L	485.17 ppb	20:05:32
3	Be 313.107†	520801.8	526808.5	247.05 ug/L	247.05 ppb	20:05:32
3	Cd 226.502†	29346.3	29636.6	463.31 ug/L	463.31 ppb	20:05:52
3	Co 228.616†	15548.2	15658.1	447.44 ug/L	447.44 ppb	20:05:52
3	Cr 267.716†	30065.1	30092.1	480.34 ug/L	480.34 ppb	20:05:32
3	Cu 324.752†	155954.6	150871.0	547.81 ug/L	547.81 ppb	20:05:32
3	Mn 257.610†	324689.5	325582.6	473.35 ug/L	473.35 ppb	20:05:32
3	Mo 202.031†	4626.9	4628.9	487.05 ug/L	487.05 ppb	20:05:52
3	Ni 231.604†	12748.3	12717.5	456.01 ug/L	456.01 ppb	20:05:52
3	P 214.914†	3273.5	3098.3	2385.4 ug/L	2385.4 ppb	20:05:52
3	Pb 220.353†	1998.8	2056.0	452.31 ug/L	452.31 ppb	20:05:52
3	S 181.975 Axial†	1394.7	1373.3	2573.1 ug/L	2573.1 ppb	20:05:52
3	Sb 206.836†	1222.2	1201.5	557.32 ug/L	557.32 ppb	20:05:52
3	Se 196.026†	2040.9	2070.9	2487.6 ug/L	2487.6 ppb	20:05:52
3	Si 251.611†	125186.8	125239.5	5168.2 ug/L	5168.2 ppb	20:05:32
3	Sn 189.927†	1601.7	1594.6	477.89 ug/L	477.89 ppb	20:05:52
3	Ti 334.940†	249097.2	251153.2	504.00 ug/L	504.00 ppb	20:05:32
3	Tl 190.801†	960.7	986.9	428.90 ug/L	428.90 ppb	20:05:52
3	U 409.014†	13910.2	15800.7	515.71 ug/L	515.71 ppb	20:05:32
3	V 292.402†	55969.0	57576.9	506.92 ug/L	506.92 ppb	20:05:32
3	Zn 213.857†	39437.4	38937.7	489.31 ug/L	489.31 ppb	20:05:32
3	SiO2†	126471.7	126521.3	11123 ug/L	11123 ppb	20:06:07

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	731975.1	99.887 %	1.3790			1.38%
Sc Radial	3891.0	103 %	1.4			1.32%
Y 371.029	592790.9	98.075 %	1.3774			1.40%
Y RADIAL	4176.5	102.3 %	1.27			1.24%
Ag 328.068†	38723.2	270.97 ug/L	1.344	270.97 ppb	1.344	0.50%
QC value within limits for Ag 328.068 Recovery = 108.39%						
Al 396.153Radial†	431003.5	512840 ug/L	5458.9	512840 ppb	5458.9	1.06%
QC value within limits for Al 396.153Radial Recovery = 102.57%						
As 188.979†	788.7	523.85 ug/L	6.823	523.85 ppb	6.823	1.30%
QC value within limits for As 188.979 Recovery = 104.77%						
B 249.677†	17803.7	505.51 ug/L	1.225	505.51 ppb	1.225	0.24%
QC value within limits for B 249.677 Recovery = 101.10%						
Ba 233.527†	45797.8	486.59 ug/L	2.222	486.59 ppb	2.222	0.46%
QC value within limits for Ba 233.527 Recovery = 97.32%						
Be 313.107†	528713.9	247.94 ug/L	1.190	247.94 ppb	1.190	0.48%
QC value within limits for Be 313.107 Recovery = 99.18%						
Ca 317.933Radial†	208911.3	468040 ug/L	4195.3	468040 ppb	4195.3	0.90%

QC value within limits for Ca 317.933 Radial Recovery = 93.61%

Cd 226.502†	29492.1	461.10 ug/L	4.588	461.10 ppb	4.588	1.00%
QC value within limits for Cd 226.502 Recovery = 92.22%						
Co 228.616†	15593.1	445.59 ug/L	4.124	445.59 ppb	4.124	0.93%
QC value within limits for Co 228.616 Recovery = 89.12%						
Cr 267.716†	30118.7	480.61 ug/L	1.059	480.61 ppb	1.059	0.22%
QC value within limits for Cr 267.716 Recovery = 96.12%						
Cu 324.752†	150810.1	547.53 ug/L	0.887	547.53 ppb	0.887	0.16%
QC value within limits for Cu 324.752 Recovery = 109.51%						
Fe 238.204 Radial†	13543.5	179050 ug/L	3211.0	179050 ppb	3211.0	1.79%
QC value within limits for Fe 238.204 Radial Recovery = 89.53%						
K 766.490 Radial†	22582.3	4826.4 ug/L	41.48	4826.4 ppb	41.48	0.86%
QC value within limits for K 766.490 Radial Recovery = 96.53%						
Mg 279.077 IEC†	10093.5	477180 ug/L	8340.9	477180 ppb	8340.9	1.75%
QC value within limits for Mg 279.077 IEC Recovery = 95.44%						
Mn 257.610†	326503.9	474.71 ug/L	2.492	474.71 ppb	2.492	0.52%
QC value within limits for Mn 257.610 Recovery = 94.94%						
Mo 202.031†	4607.2	484.71 ug/L	6.369	484.71 ppb	6.369	1.31%
QC value within limits for Mo 202.031 Recovery = 96.94%						
Na 589.592 Radial†	12706.6	5109.7 ug/L	39.96	5109.7 ppb	39.96	0.78%
QC value within limits for Na 589.592 Radial Recovery = 102.19%						
Ni 231.604†	12661.2	453.99 ug/L	3.951	453.99 ppb	3.951	0.87%
QC value within limits for Ni 231.604 Recovery = 90.80%						
P 214.914†	3088.7	2377.1 ug/L	19.20	2377.1 ppb	19.20	0.81%
QC value within limits for P 214.914 Recovery = 95.08%						
Pb 220.353†	2049.8	449.97 ug/L	4.499	449.97 ppb	4.499	1.00%
QC value within limits for Pb 220.353 Recovery = 89.99%						
S 181.975 Axial†	1363.7	2555.8 ug/L	27.31	2555.8 ppb	27.31	1.07%
QC value within limits for S 181.975 Axial Recovery = 102.23%						
Sb 206.836†	1186.0	550.21 ug/L	6.660	550.21 ppb	6.660	1.21%
QC value within limits for Sb 206.836 Recovery = 110.04%						
Se 196.026†	2060.9	2473.5 ug/L	36.67	2473.5 ppb	36.67	1.48%
QC value within limits for Se 196.026 Recovery = 98.94%						
Si 251.611†	125415.5	5175.5 ug/L	14.66	5175.5 ppb	14.66	0.28%
QC value within limits for Si 251.611 Recovery = 103.51%						
Sn 189.927†	1579.0	473.20 ug/L	6.674	473.20 ppb	6.674	1.41%
QC value within limits for Sn 189.927 Recovery = 94.64%						
Sr 421.552†	52298.0	471.30 ug/L	5.122	471.30 ppb	5.122	1.09%
QC value within limits for Sr 421.552 Recovery = 94.26%						
Ti 334.940†	251990.7	505.28 ug/L	1.726	505.28 ppb	1.726	0.34%
QC value within limits for Ti 334.940 Recovery = 101.06%						
Tl 190.801†	992.0	431.14 ug/L	4.518	431.14 ppb	4.518	1.05%
QC value within limits for Tl 190.801 Recovery = 86.23%						
U 409.014†	15794.3	515.64 ug/L	4.280	515.64 ppb	4.280	0.83%
QC value within limits for U 409.014 Recovery = 103.13%						
V 292.402†	57657.4	507.73 ug/L	1.634	507.73 ppb	1.634	0.32%
QC value within limits for V 292.402 Recovery = 101.55%						
Zn 213.857†	39012.9	490.52 ug/L	2.058	490.52 ppb	2.058	0.42%
QC value within limits for Zn 213.857 Recovery = 98.10%						
SiO2†	126203.4	11095 ug/L	113.0	11095 ppb	113.0	1.02%
QC value within limits for SiO2 Recovery = 103.74%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/26/2010 20:08:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3822.5	3822.5	101 %		20:10:30
1	Y RADIAL	4100.4	4100.4	100.4 %		20:10:30
1	Al 396.153Radial†	431570.0	427745.1	508990 ug/L	508990 ppb	20:10:10
1	Ca 317.933Radial†	212458.4	210517.6	471640 ug/L	471640 ppb	20:10:10
1	Fe 238.204 Radial†	32027.2	31729.5	419450 ug/L	419450 ppb	20:10:30
1	K 766.490 Radial†	2202.0	-296.4	-419.94 ug/L	-419.94 ppb	20:10:10
1	Mg 279.077 IEC†	10161.4	10066.8	475660 ug/L	475660 ppb	20:10:30
1	Na 589.592 Radial†	1265627.9	1254583.6	504510 ug/L	504510 ppb	20:10:10
1	Sr 421.552†	1370.4	1318.8	8.4512 ug/L	8.4512 ppb	20:10:30
1	Sc 361.383	699374.1	699374.1	95.438 %		20:11:28
1	Y 371.029	570313.7	570313.7	94.356 %		20:11:28
1	Ag 328.068†	-19819.5	-20919.0	-7.6713 ug/L	-7.6713 ppb	20:11:28
1	As 188.979†	-143.0	-127.6	20.738 ug/L	20.738 ppb	20:11:49
1	B 249.677†	1236.1	1630.2	-19.071 ug/L	-19.071 ppb	20:11:28
1	Ba 233.527†	-1327.7	-1393.7	-1.7850 ug/L	-1.7850 ppb	20:11:49
1	Be 313.107†	-9842.6	-6421.5	-3.0418 ug/L	-3.0418 ppb	20:11:28
1	Cd 226.502†	2711.7	3012.5	8.5048 ug/L	8.5048 ppb	20:11:49
1	Co 228.616†	210.0	266.8	1.5510 ug/L	1.5510 ppb	20:11:49
1	Cr 267.716†	-1164.6	-1315.3	18.480 ug/L	18.480 ppb	20:11:49
1	Cu 324.752†	1099.4	-4565.0	-2.2779 ug/L	-2.2779 ppb	20:11:28
1	Mn 257.610†	-19113.7	-20452.9	-7.8910 ug/L	-7.8910 ppb	20:11:28
1	Mo 202.031†	-384.3	-419.4	-4.1797 ug/L	-4.1797 ppb	20:11:49
1	Ni 231.604†	249.1	178.5	6.3985 ug/L	6.3985 ppb	20:11:49
1	P 214.914†	458.2	291.6	27.155 ug/L	27.155 ppb	20:11:49
1	Pb 220.353†	-452.8	-425.4	-14.151 ug/L	-14.151 ppb	20:11:49
1	S 181.975 Axial†	60.2	36.0	-25.457 ug/L	-25.457 ppb	20:11:49
1	Sb 206.836†	64.3	41.7	-1.2164 ug/L	-1.2164 ppb	20:11:49
1	Se 196.026†	-1729.2	-1790.1	-355.20 ug/L	-355.20 ppb	20:11:49
1	Si 251.611†	-451.6	-928.9	-37.854 ug/L	-37.854 ppb	20:11:49
1	Sn 189.927†	-340.8	-370.8	-34.294 ug/L	-34.294 ppb	20:11:49
1	Ti 334.940†	-10612.2	-10075.1	-1.3793 ug/L	-1.3793 ppb	20:11:28
1	Tl 190.801†	-86.8	-68.7	-29.996 ug/L	-29.996 ppb	20:11:49
1	U 409.014†	413137.2	434719.9	14735 ug/L	14735 ppb	20:11:28
1	V 292.402†	1631.2	3089.7	3.5663 ug/L	3.5663 ppb	20:11:49
1	Zn 213.857†	4615.9	4176.7	-7.0176 ug/L	-7.0176 ppb	20:11:49
1	SiO2†	-355.8	-836.8	-72.492 ug/L	-72.492 ppb	20:12:45
2	Sc Radial	3763.1	3763.1	99.3 %		20:10:56
2	Y RADIAL	4030.1	4030.1	98.71 %		20:10:56
2	Al 396.153Radial†	435595.5	438556.3	521850 ug/L	521850 ppb	20:10:36
2	Ca 317.933Radial†	213026.6	214416.9	480380 ug/L	480380 ppb	20:10:36
2	Fe 238.204 Radial†	31795.7	31998.0	423000 ug/L	423000 ppb	20:10:56
2	K 766.490 Radial†	2450.8	-11.5	-363.87 ug/L	-363.87 ppb	20:10:36
2	Mg 279.077 IEC†	10075.0	10139.0	479070 ug/L	479070 ppb	20:10:56
2	Na 589.592 Radial†	1270648.5	1279458.8	514510 ug/L	514510 ppb	20:10:36
2	Sr 421.552†	1330.6	1300.1	8.2165 ug/L	8.2165 ppb	20:10:56
2	Sc 361.383	723811.8	723811.8	98.773 %		20:11:54
2	Y 371.029	589736.3	589736.3	97.570 %		20:11:54
2	Ag 328.068†	-20523.4	-20930.6	-6.7273 ug/L	-6.7273 ppb	20:11:54
2	As 188.979†	-144.3	-123.8	23.814 ug/L	23.814 ppb	20:12:14
2	B 249.677†	1417.9	1770.5	-15.425 ug/L	-15.425 ppb	20:11:54
2	Ba 233.527†	-1333.6	-1352.7	-1.2494 ug/L	-1.2494 ppb	20:12:14
2	Be 313.107†	-10051.0	-6284.3	-2.9812 ug/L	-2.9812 ppb	20:11:54
2	Cd 226.502†	2714.4	2919.3	6.6155 ug/L	6.6155 ppb	20:12:14
2	Co 228.616†	230.4	280.0	1.8831 ug/L	1.8831 ppb	20:12:14
2	Cr 267.716†	-1180.5	-1290.2	19.256 ug/L	19.256 ppb	20:12:14
2	Cu 324.752†	1046.9	-4657.1	-2.3947 ug/L	-2.3947 ppb	20:11:54
2	Mn 257.610†	-20014.1	-20688.4	-8.0238 ug/L	-8.0238 ppb	20:11:54
2	Mo 202.031†	-397.3	-418.9	-3.7528 ug/L	-3.7528 ppb	20:12:14
2	Ni 231.604†	239.9	160.3	5.7481 ug/L	5.7481 ppb	20:12:14

2	P 214.914†	471.6	289.0	25.445 ug/L	25.445 ppb	20:12:14
2	Pb 220.353†	-453.0	-409.5	-8.9385 ug/L	-8.9385 ppb	20:12:14
2	S 181.975 Axial†	47.7	21.2	-56.498 ug/L	-56.498 ppb	20:12:14
2	Sb 206.836†	65.7	40.9	-1.9951 ug/L	-1.9951 ppb	20:12:14
2	Se 196.026†	-1721.5	-1721.2	-280.18 ug/L	-280.18 ppb	20:12:14
2	Si 251.611†	-490.5	-952.3	-38.820 ug/L	-38.820 ppb	20:12:14
2	Sn 189.927†	-351.9	-369.9	-32.732 ug/L	-32.732 ppb	20:12:14
2	Ti 334.940†	-11780.1	-10882.1	-2.0108 ug/L	-2.0108 ppb	20:11:54
2	Tl 190.801†	-89.7	-68.5	-29.947 ug/L	-29.947 ppb	20:12:14
2	U 409.014†	426312.5	433443.6	14691 ug/L	14691 ppb	20:11:54
2	V 292.402†	1568.6	2968.7	1.9475 ug/L	1.9475 ppb	20:12:14
2	Zn 213.857†	4607.0	4004.5	-9.8441 ug/L	-9.8441 ppb	20:12:14
2	SiO2†	-540.0	-1010.7	-87.801 ug/L	-87.801 ppb	20:12:50
3	Sc Radial	3777.1	3777.1	99.7 %		20:11:21
3	Y RADIAL	4062.6	4062.6	99.51 %		20:11:21
3	Al 396.153Radial†	420591.2	421880.8	502010 ug/L	502010 ppb	20:11:01
3	Ca 317.933Radial†	207041.5	207618.5	465150 ug/L	465150 ppb	20:11:01
3	Fe 238.204 Radial†	31775.4	31858.9	421160 ug/L	421160 ppb	20:11:21
3	K 766.490 Radial†	2367.9	-103.8	-371.63 ug/L	-371.63 ppb	20:11:01
3	Mg 279.077 IEC†	10089.9	10116.2	478000 ug/L	478000 ppb	20:11:21
3	Na 589.592 Radial†	1227633.3	1231571.0	495250 ug/L	495250 ppb	20:11:01
3	Sr 421.552†	1350.1	1314.7	8.4624 ug/L	8.4624 ppb	20:11:21
3	Sc 361.383	722925.1	722925.1	98.652 %		20:12:20
3	Y 371.029	588805.3	588805.3	97.416 %		20:12:20
3	Ag 328.068†	-20574.5	-21007.9	-7.5671 ug/L	-7.5671 ppb	20:12:20
3	As 188.979†	-152.8	-132.6	18.099 ug/L	18.099 ppb	20:12:40
3	B 249.677†	1337.8	1691.0	-17.518 ug/L	-17.518 ppb	20:12:20
3	Ba 233.527†	-1341.5	-1362.4	-1.4054 ug/L	-1.4054 ppb	20:12:40
3	Be 313.107†	-10077.2	-6323.3	-2.9961 ug/L	-2.9961 ppb	20:12:20
3	Cd 226.502†	2710.0	2918.2	6.7978 ug/L	6.7978 ppb	20:12:40
3	Co 228.616†	209.3	258.9	1.2985 ug/L	1.2985 ppb	20:12:40
3	Cr 267.716†	-1162.9	-1273.9	19.292 ug/L	19.292 ppb	20:12:40
3	Cu 324.752†	1007.9	-4695.3	-2.6571 ug/L	-2.6571 ppb	20:12:20
3	Mn 257.610†	-19952.1	-20650.3	-8.1058 ug/L	-8.1058 ppb	20:12:20
3	Mo 202.031†	-403.2	-425.5	-4.7365 ug/L	-4.7365 ppb	20:12:40
3	Ni 231.604†	284.9	206.2	7.3942 ug/L	7.3942 ppb	20:12:40
3	P 214.914†	488.6	306.8	36.440 ug/L	36.440 ppb	20:12:40
3	Pb 220.353†	-456.5	-413.7	-13.999 ug/L	-13.999 ppb	20:12:40
3	S 181.975 Axial†	55.5	29.1	-37.458 ug/L	-37.458 ppb	20:12:40
3	Sb 206.836†	51.1	26.2	-8.1705 ug/L	-8.1705 ppb	20:12:40
3	Se 196.026†	-1751.2	-1753.4	-319.51 ug/L	-319.51 ppb	20:12:40
3	Si 251.611†	-396.3	-857.5	-34.896 ug/L	-34.896 ppb	20:12:40
3	Sn 189.927†	-327.3	-345.5	-29.127 ug/L	-29.127 ppb	20:12:40
3	Ti 334.940†	-11000.3	-10106.3	-2.5049 ug/L	-2.5049 ppb	20:12:20
3	Tl 190.801†	-84.0	-62.8	-27.490 ug/L	-27.490 ppb	20:12:40
3	U 409.014†	427284.4	434958.1	14743 ug/L	14743 ppb	20:12:20
3	V 292.402†	1664.1	3067.5	3.1690 ug/L	3.1690 ppb	20:12:40
3	Zn 213.857†	4645.6	4049.3	-8.9809 ug/L	-8.9809 ppb	20:12:40
3	SiO2†	-486.3	-956.9	-83.048 ug/L	-83.048 ppb	20:12:56

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	715370.3	97.621 %		1.8914			1.94%
Sc Radial	3787.6	100.0 %		0.82			0.82%
Y 371.029	582951.8	96.447 %		1.8124			1.88%
Y RADIAL	4064.4	99.55 %		0.861			0.87%
Ag 328.068†	-20952.5	-7.3219 ug/L		0.51760	-7.3219 ppb	0.51760	7.07%
Al 396.153Radial†	429394.1	510950 ug/L		10065.7	510950 ppb	10065.7	1.97%
QC value within limits for Al 396.153Radial Recovery = 102.19%							
As 188.979†	-128.0	20.884 ug/L		2.8603	20.884 ppb	2.8603	13.70%
B 249.677†	1697.2	-17.338 ug/L		1.8296	-17.338 ppb	1.8296	10.55%
Ba 233.527†	-1369.6	-1.4799 ug/L		0.27544	-1.4799 ppb	0.27544	18.61%
Be 313.107†	-6343.0	-3.0064 ug/L		0.03157	-3.0064 ppb	0.03157	1.05%
Ca 317.933Radial†	210851.0	472390 ug/L		7643.0	472390 ppb	7643.0	1.62%
QC value within limits for Ca 317.933Radial Recovery = 94.48%							
Cd 226.502†	2950.0	7.3060 ug/L		1.04213	7.3060 ppb	1.04213	14.26%
Co 228.616†	268.5	1.5775 ug/L		0.29321	1.5775 ppb	0.29321	18.59%
Cr 267.716†	-1293.1	19.009 ug/L		0.4590	19.009 ppb	0.4590	2.41%
Cu 324.752†	-4639.1	-2.4432 ug/L		0.19420	-2.4432 ppb	0.19420	7.95%

Fe 238.204 Radial†	31862.1	421200 ug/L	1774.9	421200 ppb	1774.9	0.42%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 84.24%						
K 766.490 Radial†	-137.2	-385.15 ug/L	30.383	-385.15 ppb	30.383	7.89%
Mg 279.077 IEC†	10107.3	477580 ug/L	1744.3	477580 ppb	1744.3	0.37%
QC value within limits for Mg 279.077 IEC Recovery = 95.52%						
Mn 257.610†	-20597.2	-8.0069 ug/L	0.10836	-8.0069 ppb	0.10836	1.35%
Mo 202.031†	-421.3	-4.2230 ug/L	0.49330	-4.2230 ppb	0.49330	11.68%
Na 589.592 Radial†	1255204.5	504750 ug/L	9631.0	504750 ppb	9631.0	1.91%
QC value within limits for Na 589.592 Radial Recovery = 100.95%						
Ni 231.604†	181.7	6.5136 ug/L	0.82904	6.5136 ppb	0.82904	12.73%
P 214.914†	295.8	29.680 ug/L	5.9163	29.680 ppb	5.9163	19.93%
Pb 220.353†	-416.2	-12.363 ug/L	2.9667	-12.363 ppb	2.9667	24.00%
S 181.975 Axial†	28.8	-39.804 ug/L	15.6530	-39.804 ppb	15.6530	39.32%
Sb 206.836†	36.3	-3.7940 ug/L	3.81011	-3.7940 ppb	3.81011	100.42%
Se 196.026†	-1754.9	-318.30 ug/L	37.525	-318.30 ppb	37.525	11.79%
Si 251.611†	-912.9	-37.190 ug/L	2.0445	-37.190 ppb	2.0445	5.50%
Sn 189.927†	-362.1	-32.051 ug/L	2.6499	-32.051 ppb	2.6499	8.27%
Sr 421.552†	1311.2	8.3767 ug/L	0.13881	8.3767 ppb	0.13881	1.66%
Ti 334.940†	-10354.5	-1.9650 ug/L	0.56420	-1.9650 ppb	0.56420	28.71%
Tl 190.801†	-66.7	-29.144 ug/L	1.4332	-29.144 ppb	1.4332	4.92%
U 409.014†	434373.9	14723 ug/L	27.9	14723 ppb	27.9	0.19%
QC value within limits for U 409.014 Recovery = 98.15%						
V 292.402†	3042.0	2.8943 ug/L	0.84362	2.8943 ppb	0.84362	29.15%
Zn 213.857†	4076.8	-8.6142 ug/L	1.44851	-8.6142 ppb	1.44851	16.82%
SiO2†	-934.8	-81.114 ug/L	7.8359	-81.114 ppb	7.8359	9.66%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/26/2010 20:15:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4074.6	4074.6	108 %		20:17:23
1	Y RADIAL	4393.0	4393.0	107.6 %		20:17:03
1	Al 396.153Radial†	339.9	388.9	-19.332 ug/L	-19.332 ppb	20:17:03
1	Ca 317.933Radial†	27.3	3.5	7.7312 ug/L	7.7312 ppb	20:17:23
1	Fe 238.204 Radial†	-15.8	-23.2	-3.7612 ug/L	-3.7612 ppb	20:17:23
1	K 766.490 Radial†	1407117.0	1305677.8	288250 ug/L	288250 ppb	20:16:58
1	Mg 279.077 IEC†	-2.3	-5.0	-131.62 ug/L	-131.62 ppb	20:17:23
1	Na 589.592 Radial†	-242.1	161.3	64.858 ug/L	64.858 ppb	20:17:03
1	Sr 421.552†	1131406.0	1051796.4	9548.9 ug/L	9548.9 ppb	20:16:58
1	Sc 361.383	753006.7	753006.7	102.76 %		20:18:40
1	Y 371.029	610259.9	610259.9	100.97 %		20:18:40
1	Ag 328.068†	-6382.3	-6363.3	6.4283 ug/L	6.4283 ppb	20:18:46
1	As 188.979†	17741.6	17287.9	10564 ug/L	10564 ppb	20:18:46
1	B 249.677†	180415.9	175910.8	5265.8 ug/L	5265.8 ppb	20:18:40
1	Ba 233.527†	1462806.0	1423560.0	14944 ug/L	14944 ppb	20:18:40
1	Be 313.107†	6817810.8	6638797.2	3123.6 ug/L	3123.6 ppb	20:18:34
1	Cd 226.502†	641199.8	624169.1	10148 ug/L	10148 ppb	20:18:40
1	Co 228.616†	361314.2	351667.7	10102 ug/L	10102 ppb	20:18:40
1	Cr 267.716†	1689933.1	1644501.2	25192 ug/L	25192 ppb	20:18:40
1	Cu 324.752†	6181317.3	6009770.7	21453 ug/L	21453 ppb	20:18:34
1	Mn 257.610†	7149579.9	6957348.6	10155 ug/L	10155 ppb	20:18:34
1	Mo 202.031†	101174.3	98443.3	9940.9 ug/L	9940.9 ppb	20:18:46
1	Ni 231.604†	298067.9	289988.9	10398 ug/L	10398 ppb	20:18:40
1	P 214.914†	23730.8	22905.7	14353 ug/L	14353 ppb	20:18:46
1	Pb 220.353†	148907.2	144961.4	25087 ug/L	25087 ppb	20:18:40
1	S 181.975 Axial†	28493.7	27702.2	53868 ug/L	53868 ppb	20:18:46
1	Sb 206.836†	24205.5	23530.5	11283 ug/L	11283 ppb	20:18:46
1	Se 196.026†	11883.1	11586.0	10455 ug/L	10455 ppb	20:18:46
1	Si 251.611†	1234090.3	1200526.9	49475 ug/L	49475 ppb	20:18:40
1	Sn 189.927†	42725.6	41565.7	10538 ug/L	10538 ppb	20:18:46
1	Ti 334.940†	5702616.3	5550673.4	10606 ug/L	10606 ppb	20:18:34
1	Tl 190.801†	23789.1	23173.1	10065 ug/L	10065 ppb	20:18:46
1	U 409.014†	-883.5	974.2	-23.183 ug/L	-23.183 ppb	20:18:40
1	V 292.402†	1208559.5	1177517.4	10692 ug/L	10692 ppb	20:18:40
1	Zn 213.857†	1122155.9	1091391.4	14478 ug/L	14478 ppb	20:18:40
1	SiO2†	1280571.4	1245752.8	109370 ug/L	109370 ppb	20:19:32
2	Sc Radial	3985.2	3985.2	105 %		20:17:53
2	Y RADIAL	4380.1	4380.1	107.3 %		20:17:33
2	Al 396.153Radial†	349.0	404.6	3.1064 ug/L	3.1064 ppb	20:17:33
2	Ca 317.933Radial†	28.3	4.9	11.054 ug/L	11.054 ppb	20:17:53
2	Fe 238.204 Radial†	-14.0	-21.8	-1.4608 ug/L	-1.4608 ppb	20:17:53
2	K 766.490 Radial†	1349903.1	1280632.6	282720 ug/L	282720 ppb	20:17:28
2	Mg 279.077 IEC†	-4.2	-6.8	-216.62 ug/L	-216.62 ppb	20:17:53
2	Na 589.592 Radial†	-268.1	131.5	52.886 ug/L	52.886 ppb	20:17:33
2	Sr 421.552†	1077631.4	1024271.9	9299.0 ug/L	9299.0 ppb	20:17:28
2	Sc 361.383	791176.8	791176.8	107.97 %		20:19:00
2	Y 371.029	641041.0	641041.0	106.06 %		20:19:00
2	Ag 328.068†	-6639.8	-6302.1	4.6074 ug/L	4.6074 ppb	20:19:06
2	As 188.979†	18663.5	17308.8	10570 ug/L	10570 ppb	20:19:06
2	B 249.677†	181259.9	168221.9	5036.0 ug/L	5036.0 ppb	20:19:00
2	Ba 233.527†	1457700.5	1350151.8	14173 ug/L	14173 ppb	20:19:00
2	Be 313.107†	6665658.2	6177771.3	2906.7 ug/L	2906.7 ppb	20:18:54
2	Cd 226.502†	639725.5	592699.1	9636.7 ug/L	9636.7 ppb	20:19:00
2	Co 228.616†	359254.0	332795.7	9561.4 ug/L	9561.4 ppb	20:19:00
2	Cr 267.716†	1683745.4	1559427.1	23889 ug/L	23889 ppb	20:19:00
2	Cu 324.752†	6054908.4	5602472.8	19999 ug/L	19999 ppb	20:18:54
2	Mn 257.610†	6987734.0	6471767.9	9445.8 ug/L	9445.8 ppb	20:18:54
2	Mo 202.031†	105483.5	97684.4	9864.2 ug/L	9864.2 ppb	20:19:06
2	Ni 231.604†	296946.6	274956.0	9859.2 ug/L	9859.2 ppb	20:19:00

2	P 214.914†	24823.0	22803.1	14558 ug/L	14558 ppb	20:19:06
2	Pb 220.353†	148387.5	137488.9	23796 ug/L	23796 ppb	20:19:00
2	S 181.975 Axial†	30032.0	27789.2	54037 ug/L	54037 ppb	20:19:06
2	Sb 206.836†	25428.9	23527.2	11279 ug/L	11279 ppb	20:19:06
2	Se 196.026†	12489.6	11589.8	10458 ug/L	10458 ppb	20:19:06
2	Si 251.611†	1234399.5	1142872.4	47094 ug/L	47094 ppb	20:19:00
2	Sn 189.927†	44447.7	41154.8	10434 ug/L	10434 ppb	20:19:06
2	Ti 334.940†	5583735.4	5172823.2	9883.7 ug/L	9883.7 ppb	20:18:54
2	Tl 190.801†	24791.8	22985.0	9978.3 ug/L	9978.3 ppb	20:19:06
2	U 409.014†	-861.3	1036.3	-18.157 ug/L	-18.157 ppb	20:19:00
2	V 292.402†	1205202.9	1117666.1	10155 ug/L	10155 ppb	20:19:00
2	Zn 213.857†	1121603.7	1038194.2	13773 ug/L	13773 ppb	20:19:00
2	SiO2†	1250264.8	1157558.8	101610 ug/L	101610 ppb	20:19:38
3	Sc Radial	4023.0	4023.0	106 %		20:18:24
3	Y RADIAL	4477.2	4477.2	109.7 %		20:18:04
3	Al 396.153Radial†	358.5	410.5	26.670 ug/L	26.670 ppb	20:18:04
3	Ca 317.933Radial†	24.4	1.0	2.3481 ug/L	2.3481 ppb	20:18:24
3	Fe 238.204 Radial†	-16.3	-23.8	-29.683 ug/L	-29.683 ppb	20:18:24
3	K 766.490 Radial†	1376005.3	1293164.3	285490 ug/L	285490 ppb	20:17:59
3	Mg 279.077 IEC†	-4.6	-7.1	-236.58 ug/L	-236.58 ppb	20:18:24
3	Na 589.592 Radial†	-253.0	148.1	59.550 ug/L	59.550 ppb	20:18:04
3	Sr 421.552†	1103157.1	1038690.4	9429.9 ug/L	9429.9 ppb	20:17:59
3	Sc 361.383	819288.6	819288.6	111.80 %		20:19:21
3	Y 371.029	663250.1	663250.1	109.73 %		20:19:21
3	Ag 328.068†	-6720.7	-6163.4	5.1680 ug/L	5.1680 ppb	20:19:26
3	As 188.979†	18687.8	16737.4	10221 ug/L	10221 ppb	20:19:26
3	B 249.677†	188397.7	168845.6	5054.9 ug/L	5054.9 ppb	20:19:21
3	Ba 233.527†	1497436.4	1339366.1	14060 ug/L	14060 ppb	20:19:21
3	Be 313.107†	6636404.5	5939764.6	2794.8 ug/L	2794.8 ppb	20:19:14
3	Cd 226.502†	657706.1	588450.5	9567.6 ug/L	9567.6 ppb	20:19:21
3	Co 228.616†	370075.6	331057.6	9511.5 ug/L	9511.5 ppb	20:19:21
3	Cr 267.716†	1729436.0	1546783.6	23696 ug/L	23696 ppb	20:19:21
3	Cu 324.752†	6043984.2	5400270.9	19277 ug/L	19277 ppb	20:19:14
3	Mn 257.610†	6966748.4	6230920.6	9094.3 ug/L	9094.3 ppb	20:19:14
3	Mo 202.031†	105439.6	94292.7	9521.8 ug/L	9521.8 ppb	20:19:26
3	Ni 231.604†	305476.7	273148.3	9794.4 ug/L	9794.4 ppb	20:19:21
3	P 214.914†	24929.9	22109.9	14137 ug/L	14137 ppb	20:19:26
3	Pb 220.353†	152600.3	136541.1	23631 ug/L	23631 ppb	20:19:21
3	S 181.975 Axial†	29984.1	26791.9	52098 ug/L	52098 ppb	20:19:26
3	Sb 206.836†	25457.4	22744.5	10904 ug/L	10904 ppb	20:19:26
3	Se 196.026†	12549.7	11246.7	10148 ug/L	10148 ppb	20:19:26
3	Si 251.611†	1279003.6	1143537.7	47126 ug/L	47126 ppb	20:19:21
3	Sn 189.927†	44327.0	39634.2	10048 ug/L	10048 ppb	20:19:26
3	Ti 334.940†	5569163.0	4982332.6	9519.5 ug/L	9519.5 ppb	20:19:14
3	Tl 190.801†	24712.4	22126.0	9603.5 ug/L	9603.5 ppb	20:19:26
3	U 409.014†	-793.1	1124.6	-14.718 ug/L	-14.718 ppb	20:19:21
3	V 292.402†	1241326.5	1111674.0	10097 ug/L	10097 ppb	20:19:21
3	Zn 213.857†	1151559.2	1029342.1	13656 ug/L	13656 ppb	20:19:21
3	SiO2†	1259686.5	1126251.4	98865 ug/L	98865 ppb	20:19:44

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	787824.1	107.51 %	4.540			4.22%
Sc Radial	4027.6	106 %	1.2			1.11%
Y 371.029	638183.7	105.59 %	4.403			4.17%
Y RADIAL	4416.8	108.2 %	1.29			1.19%
Ag 328.068†	-6276.2	5.4012 ug/L	0.93262	5.4012 ppb	0.93262	17.27%
Al 396.153Radial†	401.3	3.4815 ug/L	23.00366	3.4815 ppb	23.00366	660.75%
As 188.979†	17111.4	10452 ug/L	199.8	10452 ppb	199.8	1.91%
QC value within limits for As 188.979 Recovery = 104.52%						
B 249.677†	170992.8	5118.9 ug/L	127.61	5118.9 ppb	127.61	2.49%
QC value within limits for B 249.677 Recovery = 102.38%						
Ba 233.527†	1371026.0	14392 ug/L	480.9	14392 ppb	480.9	3.34%
QC value within limits for Ba 233.527 Recovery = 95.95%						
Be 313.107†	6252111.0	2941.7 ug/L	167.18	2941.7 ppb	167.18	5.68%
QC value within limits for Be 313.107 Recovery = 98.06%						
Ca 317.933Radial†	3.1	7.0443 ug/L	4.39317	7.0443 ppb	4.39317	62.37%
Cd 226.502†	601772.9	9784.2 ug/L	317.24	9784.2 ppb	317.24	3.24%
QC value within limits for Cd 226.502 Recovery = 97.84%						

Co 228.616†	338507.0	9725.0 ug/L	327.57	9725.0 ppb	327.57	3.37%
QC value within limits for Co 228.616 Recovery = 97.25%						
Cr 267.716†	1583570.6	24259 ug/L	814.1	24259 ppb	814.1	3.36%
QC value within limits for Cr 267.716 Recovery = 97.04%						
Cu 324.752†	5670838.2	20243 ug/L	1108.2	20243 ppb	1108.2	5.47%
QC value within limits for Cu 324.752 Recovery = 101.22%						
Fe 238.204 Radial†	-22.9	-11.635 ug/L	15.6724	-11.635 ppb	15.6724	134.70%
K 766.490 Radial†	1293158.2	285490 ug/L	2764.6	285490 ppb	2764.6	0.97%
QC value within limits for K 766.490 Radial Recovery = 95.16%						
Mg 279.077 IEC†	-6.3	-194.94 ug/L	55.741	-194.94 ppb	55.741	28.59%
Mn 257.610†	6553345.7	9564.9 ug/L	540.06	9564.9 ppb	540.06	5.65%
QC value within limits for Mn 257.610 Recovery = 95.65%						
Mo 202.031†	96806.8	9775.6 ug/L	223.18	9775.6 ppb	223.18	2.28%
QC value within limits for Mo 202.031 Recovery = 97.76%						
Na 589.592 Radial†	147.0	59.098 ug/L	5.9987	59.098 ppb	5.9987	10.15%
Ni 231.604†	279364.4	10017 ug/L	331.5	10017 ppb	331.5	3.31%
QC value within limits for Ni 231.604 Recovery = 100.17%						
P 214.914†	22606.2	14349 ug/L	210.3	14349 ppb	210.3	1.47%
QC value within limits for P 214.914 Recovery = 95.66%						
Pb 220.353†	139663.8	24171 ug/L	797.6	24171 ppb	797.6	3.30%
QC value within limits for Pb 220.353 Recovery = 96.69%						
S 181.975 Axial†	27427.8	53335 ug/L	1074.2	53335 ppb	1074.2	2.01%
QC value within limits for S 181.975 Axial Recovery = 106.67%						
Sb 206.836†	23267.4	11155 ug/L	217.7	11155 ppb	217.7	1.95%
QC value greater than the upper limit for Sb 206.836 Recovery = 111.55%						
Se 196.026†	11474.2	10353 ug/L	178.0	10353 ppb	178.0	1.72%
QC value within limits for Se 196.026 Recovery = 103.53%						
Si 251.611†	1162312.3	47898 ug/L	1365.6	47898 ppb	1365.6	2.85%
QC value within limits for Si 251.611 Recovery = 95.80%						
Sn 189.927†	40784.9	10340 ug/L	258.0	10340 ppb	258.0	2.49%
QC value within limits for Sn 189.927 Recovery = 103.40%						
Sr 421.552†	1038252.9	9425.9 ug/L	124.99	9425.9 ppb	124.99	1.33%
QC value within limits for Sr 421.552 Recovery = 94.26%						
Ti 334.940†	5235276.4	10003 ug/L	552.9	10003 ppb	552.9	5.53%
QC value within limits for Ti 334.940 Recovery = 100.03%						
Tl 190.801†	22761.4	9882.4 ug/L	245.43	9882.4 ppb	245.43	2.48%
QC value within limits for Tl 190.801 Recovery = 98.82%						
U 409.014†	1045.0	-18.686 ug/L	4.2572	-18.686 ppb	4.2572	22.78%
V 292.402†	1135619.2	10315 ug/L	328.2	10315 ppb	328.2	3.18%
QC value within limits for V 292.402 Recovery = 103.15%						
Zn 213.857†	1052975.9	13969 ug/L	444.6	13969 ppb	444.6	3.18%
QC value within limits for Zn 213.857 Recovery = 93.13%						
SiO2†	1176521.0	103280 ug/L	5448.9	103280 ppb	5448.9	5.28%
QC value within limits for SiO2 Recovery = 96.53%						
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/26/2010 20:21:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4288.5	4288.5	113 %		20:23:45
1	Y RADIAL	4552.4	4552.4	111.5 %		20:23:45
1	Al 396.153Radial†	4724.0	4245.5	5027.5 ug/L	5027.5 ppb	20:23:45
1	Ca 317.933Radial†	2589.8	2265.6	5075.9 ug/L	5075.9 ppb	20:24:05
1	Fe 238.204 Radial†	442.6	382.5	5071.3 ug/L	5071.3 ppb	20:24:05
1	K 766.490 Radial†	27760.1	22041.8	4859.9 ug/L	4859.9 ppb	20:23:45
1	Mg 279.077 IEC†	125.1	107.7	5093.5 ug/L	5093.5 ppb	20:24:05
1	Na 589.592 Radial†	28295.9	25379.8	10206 ug/L	10206 ppb	20:23:45
1	Sr 421.552†	60917.9	53769.0	488.11 ug/L	488.11 ppb	20:23:45
1	Sc 361.383	829894.9	829894.9	113.25 %		20:25:03
1	Y 371.029	675246.3	675246.3	111.72 %		20:25:03
1	Ag 328.068†	99016.6	87280.4	499.66 ug/L	499.66 ppb	20:25:08
1	As 188.979†	921.4	835.9	511.69 ug/L	511.69 ppb	20:25:28
1	B 249.677†	19447.5	17507.3	524.68 ug/L	524.68 ppb	20:25:08
1	Ba 233.527†	53428.4	47175.2	495.69 ug/L	495.69 ppb	20:25:08
1	Be 313.107†	1217275.4	1078757.8	504.76 ug/L	504.76 ppb	20:25:03
1	Cd 226.502†	34515.8	30649.0	497.89 ug/L	497.89 ppb	20:25:08
1	Co 228.616†	19884.9	17605.3	505.99 ug/L	505.99 ppb	20:25:08
1	Cr 267.716†	36900.0	32488.0	498.43 ug/L	498.43 ppb	20:25:08
1	Cu 324.752†	161490.5	136880.8	488.62 ug/L	488.62 ppb	20:25:08
1	Mn 257.610†	390074.6	344014.1	502.39 ug/L	502.39 ppb	20:25:03
1	Mo 202.031†	5661.4	4982.3	503.57 ug/L	503.57 ppb	20:25:28
1	Ni 231.604†	16012.2	14056.4	504.02 ug/L	504.02 ppb	20:25:08
1	P 214.914†	3712.2	3089.4	2402.2 ug/L	2402.2 ppb	20:25:28
1	Pb 220.353†	3224.4	2896.2	502.42 ug/L	502.42 ppb	20:25:28
1	S 181.975 Axial†	623.9	523.8	1017.7 ug/L	1017.7 ppb	20:25:28
1	Sb 206.836†	1271.1	1096.8	526.90 ug/L	526.90 ppb	20:25:28
1	Se 196.026†	625.9	574.4	533.18 ug/L	533.18 ppb	20:25:28
1	Si 251.611†	68889.6	60374.5	2488.1 ug/L	2488.1 ppb	20:25:08
1	Sn 189.927†	2301.4	2018.5	512.36 ug/L	512.36 ppb	20:25:28
1	Ti 334.940†	287936.1	255294.7	488.08 ug/L	488.08 ppb	20:25:08
1	Tl 190.801†	1318.1	1186.2	514.83 ug/L	514.83 ppb	20:25:28
1	U 409.014†	14514.6	14650.6	496.50 ug/L	496.50 ppb	20:25:08
1	V 292.402†	60765.4	55037.1	500.86 ug/L	500.86 ppb	20:25:08
1	Zn 213.857†	43075.5	37376.3	494.45 ug/L	494.45 ppb	20:25:08
1	SiO2†	68678.6	60179.9	5282.9 ug/L	5282.9 ppb	20:26:35
2	Sc Radial	4976.6	4976.6	131 %		20:24:10
2	Y RADIAL	5264.2	5264.2	128.9 %		20:24:10
2	Al 396.153Radial†	4605.9	3578.7	4233.7 ug/L	4233.7 ppb	20:24:10
2	Ca 317.933Radial†	2622.5	1974.2	4423.1 ug/L	4423.1 ppb	20:24:30
2	Fe 238.204 Radial†	446.4	331.3	4395.0 ug/L	4395.0 ppb	20:24:30
2	K 766.490 Radial†	27491.7	18447.1	4067.1 ug/L	4067.1 ppb	20:24:10
2	Mg 279.077 IEC†	129.1	95.5	4516.3 ug/L	4516.3 ppb	20:24:30
2	Na 589.592 Radial†	27941.3	21654.2	8707.8 ug/L	8707.8 ppb	20:24:10
2	Sr 421.552†	60037.0	45658.6	414.48 ug/L	414.48 ppb	20:24:10
2	Sc 361.383	822782.2	822782.2	112.28 %		20:25:34
2	Y 371.029	669951.9	669951.9	110.84 %		20:25:34
2	Ag 328.068†	100560.6	89411.4	511.62 ug/L	511.62 ppb	20:25:39
2	As 188.979†	920.1	841.8	515.18 ug/L	515.18 ppb	20:25:59
2	B 249.677†	19697.7	17878.6	535.93 ug/L	535.93 ppb	20:25:39
2	Ba 233.527†	54139.2	48216.2	506.60 ug/L	506.60 ppb	20:25:39
2	Be 313.107†	1220922.2	1091297.7	510.64 ug/L	510.64 ppb	20:25:34
2	Cd 226.502†	34867.9	31226.0	507.35 ug/L	507.35 ppb	20:25:39
2	Co 228.616†	20182.0	18021.7	517.95 ug/L	517.95 ppb	20:25:39
2	Cr 267.716†	37371.4	33189.6	509.11 ug/L	509.11 ppb	20:25:39
2	Cu 324.752†	165084.0	141314.0	504.40 ug/L	504.40 ppb	20:25:39
2	Mn 257.610†	390176.0	347082.1	506.83 ug/L	506.83 ppb	20:25:34
2	Mo 202.031†	5671.9	5034.9	508.82 ug/L	508.82 ppb	20:25:59
2	Ni 231.604†	16186.4	14333.8	513.96 ug/L	513.96 ppb	20:25:39

2	P 214.914†	3734.5	3137.6	2438.4 ug/L	2438.4 ppb	20:25:59
2	Pb 220.353†	3237.6	2932.6	508.63 ug/L	508.63 ppb	20:25:59
2	S 181.975 Axial†	631.8	535.6	1040.7 ug/L	1040.7 ppb	20:25:59
2	Sb 206.836†	1257.1	1094.0	525.82 ug/L	525.82 ppb	20:25:59
2	Se 196.026†	625.7	579.0	535.34 ug/L	535.34 ppb	20:25:59
2	Si 251.611†	69994.0	61883.9	2550.3 ug/L	2550.3 ppb	20:25:39
2	Sn 189.927†	2298.8	2033.7	516.14 ug/L	516.14 ppb	20:25:59
2	Ti 334.940†	292490.8	261549.3	499.99 ug/L	499.99 ppb	20:25:39
2	Tl 190.801†	1323.7	1201.2	521.34 ug/L	521.34 ppb	20:25:59
2	U 409.014†	14913.0	15116.1	512.38 ug/L	512.38 ppb	20:25:39
2	V 292.402†	61806.8	56428.4	513.53 ug/L	513.53 ppb	20:25:39
2	Zn 213.857†	43582.9	38157.0	504.90 ug/L	504.90 ppb	20:25:39
2	SiO2†	70505.6	62331.4	5472.1 ug/L	5472.1 ppb	20:26:40
3	Sc Radial	4266.1	4266.1	113 %		20:24:36
3	Y RADIAL	4530.5	4530.5	111.0 %		20:24:36
3	Al 396.153Radial†	4670.3	4219.8	4997.0 ug/L	4997.0 ppb	20:24:36
3	Ca 317.933Radial†	2574.4	2264.0	5072.3 ug/L	5072.3 ppb	20:24:56
3	Fe 238.204 Radial†	441.5	383.6	5086.0 ug/L	5086.0 ppb	20:24:56
3	K 766.490 Radial†	27404.8	21855.3	4818.8 ug/L	4818.8 ppb	20:24:36
3	Mg 279.077 IEC†	127.0	110.0	5199.9 ug/L	5199.9 ppb	20:24:56
3	Na 589.592 Radial†	28090.0	25328.6	10185 ug/L	10185 ppb	20:24:36
3	Sr 421.552†	60395.8	53588.7	486.47 ug/L	486.47 ppb	20:24:36
3	Sc 361.383	831778.5	831778.5	113.51 %		20:26:05
3	Y 371.029	676741.9	676741.9	111.96 %		20:26:05
3	Ag 328.068†	100155.7	88086.0	504.26 ug/L	504.26 ppb	20:26:10
3	As 188.979†	917.9	831.0	508.78 ug/L	508.78 ppb	20:26:30
3	B 249.677†	19764.8	17747.9	531.91 ug/L	531.91 ppb	20:26:10
3	Ba 233.527†	53938.8	47518.0	499.29 ug/L	499.29 ppb	20:26:10
3	Be 313.107†	1231206.0	1088596.7	509.36 ug/L	509.36 ppb	20:26:05
3	Cd 226.502†	34842.3	30867.6	501.44 ug/L	501.44 ppb	20:26:10
3	Co 228.616†	20068.3	17727.1	509.47 ug/L	509.47 ppb	20:26:10
3	Cr 267.716†	37144.2	32629.4	500.60 ug/L	500.60 ppb	20:26:10
3	Cu 324.752†	164545.4	139249.2	497.07 ug/L	497.07 ppb	20:26:10
3	Mn 257.610†	393770.5	346490.3	506.01 ug/L	506.01 ppb	20:26:05
3	Mo 202.031†	5648.5	4959.6	501.28 ug/L	501.28 ppb	20:26:30
3	Ni 231.604†	16196.9	14187.0	508.70 ug/L	508.70 ppb	20:26:10
3	P 214.914†	3714.4	3084.0	2396.0 ug/L	2396.0 ppb	20:26:30
3	Pb 220.353†	3190.6	2860.0	496.14 ug/L	496.14 ppb	20:26:30
3	S 181.975 Axial†	624.4	523.0	1016.0 ug/L	1016.0 ppb	20:26:30
3	Sb 206.836†	1246.5	1072.6	515.55 ug/L	515.55 ppb	20:26:30
3	Se 196.026†	619.5	567.5	527.02 ug/L	527.02 ppb	20:26:30
3	Si 251.611†	69719.3	60967.7	2512.6 ug/L	2512.6 ppb	20:26:10
3	Sn 189.927†	2282.5	1997.2	506.96 ug/L	506.96 ppb	20:26:30
3	Ti 334.940†	291640.1	257982.2	493.21 ug/L	493.21 ppb	20:26:10
3	Tl 190.801†	1300.4	1167.9	506.97 ug/L	506.97 ppb	20:26:30
3	U 409.014†	14686.9	14773.4	500.67 ug/L	500.67 ppb	20:26:10
3	V 292.402†	61463.8	55530.8	505.26 ug/L	505.26 ppb	20:26:10
3	Zn 213.857†	43519.1	37681.0	498.48 ug/L	498.48 ppb	20:26:10
3	SiO2†	69903.8	61122.0	5365.9 ug/L	5365.9 ppb	20:26:46

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	828151.9	113.01 %	0.647			0.57%
Sc Radial	4510.4	119 %	10.7			8.96%
Y 371.029	673980.0	111.51 %	0.590			0.53%
Y RADIAL	4782.3	117.1 %	10.22			8.73%
Ag 328.068†	88259.3	505.18 ug/L	6.033	505.18 ppb	6.033	1.19%
QC value within limits for Ag 328.068 Recovery = 101.04%						
Al 396.153Radial†	4014.7	4752.7 ug/L	449.74	4752.7 ppb	449.74	9.46%
QC value within limits for Al 396.153Radial Recovery = 95.05%						
As 188.979†	836.2	511.88 ug/L	3.208	511.88 ppb	3.208	0.63%
QC value within limits for As 188.979 Recovery = 102.38%						
B 249.677†	17711.3	530.84 ug/L	5.701	530.84 ppb	5.701	1.07%
QC value within limits for B 249.677 Recovery = 106.17%						
Ba 233.527†	47636.5	500.53 ug/L	5.563	500.53 ppb	5.563	1.11%
QC value within limits for Ba 233.527 Recovery = 100.11%						
Be 313.107†	1086217.4	508.25 ug/L	3.094	508.25 ppb	3.094	0.61%
QC value within limits for Be 313.107 Recovery = 101.65%						
Ca 317.933Radial†	2168.0	4857.1 ug/L	375.88	4857.1 ppb	375.88	7.74%

QC value within limits for Ca 317.933 Radial Recovery = 97.14%									
Cd	226.502†	30914.2	502.23 ug/L	4.776	502.23 ppb	4.776	0.95%		
QC value within limits for Cd 226.502 Recovery = 100.45%									
Co	228.616†	17784.7	511.14 ug/L	6.152	511.14 ppb	6.152	1.20%		
QC value within limits for Co 228.616 Recovery = 102.23%									
Cr	267.716†	32769.0	502.72 ug/L	5.645	502.72 ppb	5.645	1.12%		
QC value within limits for Cr 267.716 Recovery = 100.54%									
Cu	324.752†	139148.0	496.70 ug/L	7.897	496.70 ppb	7.897	1.59%		
QC value within limits for Cu 324.752 Recovery = 99.34%									
Fe	238.204 Radial†	365.8	4850.8 ug/L	394.75	4850.8 ppb	394.75	8.14%		
QC value within limits for Fe 238.204 Radial Recovery = 97.02%									
K	766.490 Radial†	20781.4	4581.9 ug/L	446.34	4581.9 ppb	446.34	9.74%		
QC value within limits for K 766.490 Radial Recovery = 91.64%									
Mg	279.077 IEC†	104.4	4936.6 ug/L	367.85	4936.6 ppb	367.85	7.45%		
QC value within limits for Mg 279.077 IEC Recovery = 98.73%									
Mn	257.610†	345862.2	505.08 ug/L	2.359	505.08 ppb	2.359	0.47%		
QC value within limits for Mn 257.610 Recovery = 101.02%									
Mo	202.031†	4992.3	504.56 ug/L	3.864	504.56 ppb	3.864	0.77%		
QC value within limits for Mo 202.031 Recovery = 100.91%									
Na	589.592 Radial†	24120.9	9699.7 ug/L	859.11	9699.7 ppb	859.11	8.86%		
QC value within limits for Na 589.592 Radial Recovery = 97.00%									
Ni	231.604†	14192.4	508.89 ug/L	4.975	508.89 ppb	4.975	0.98%		
QC value within limits for Ni 231.604 Recovery = 101.78%									
P	214.914†	3103.7	2412.2 ug/L	22.88	2412.2 ppb	22.88	0.95%		
QC value within limits for P 214.914 Recovery = 96.49%									
Pb	220.353†	2896.3	502.40 ug/L	6.248	502.40 ppb	6.248	1.24%		
QC value within limits for Pb 220.353 Recovery = 100.48%									
S	181.975 Axial†	527.5	1024.8 ug/L	13.77	1024.8 ppb	13.77	1.34%		
QC value within limits for S 181.975 Axial Recovery = 102.48%									
Sb	206.836†	1087.8	522.75 ug/L	6.264	522.75 ppb	6.264	1.20%		
QC value within limits for Sb 206.836 Recovery = 104.55%									
Se	196.026†	573.6	531.85 ug/L	4.320	531.85 ppb	4.320	0.81%		
QC value within limits for Se 196.026 Recovery = 106.37%									
Si	251.611†	61075.4	2517.0 ug/L	31.38	2517.0 ppb	31.38	1.25%		
QC value within limits for Si 251.611 Recovery = 100.68%									
Sn	189.927†	2016.5	511.82 ug/L	4.613	511.82 ppb	4.613	0.90%		
QC value within limits for Sn 189.927 Recovery = 102.36%									
Sr	421.552†	51005.4	463.02 ug/L	42.044	463.02 ppb	42.044	9.08%		
QC value within limits for Sr 421.552 Recovery = 92.60%									
Ti	334.940†	258275.4	493.76 ug/L	5.974	493.76 ppb	5.974	1.21%		
QC value within limits for Ti 334.940 Recovery = 98.75%									
Tl	190.801†	1185.1	514.38 ug/L	7.193	514.38 ppb	7.193	1.40%		
QC value within limits for Tl 190.801 Recovery = 102.88%									
U	409.014†	14846.7	503.18 ug/L	8.236	503.18 ppb	8.236	1.64%		
QC value within limits for U 409.014 Recovery = 100.64%									
V	292.402†	55665.4	506.55 ug/L	6.431	506.55 ppb	6.431	1.27%		
QC value within limits for V 292.402 Recovery = 101.31%									
Zn	213.857†	37738.1	499.28 ug/L	5.266	499.28 ppb	5.266	1.05%		
QC value within limits for Zn 213.857 Recovery = 99.86%									
SiO2†		61211.1	5373.6 ug/L	94.85	5373.6 ppb	94.85	1.77%		
QC value within limits for SiO2 Recovery = 100.49%									

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/26/2010 20:28:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4284.7	4284.7	113 %			20:31:08
1	Y RADIAL	4748.1	4748.1	116.3 %			20:30:48
1	Al 396.153Radial†	-83.1	-0.6	-0.6448 ug/L		-0.6448 ppb	20:31:08
1	Ca 317.933Radial†	25.6	0.7	1.5025 ug/L		1.5025 ppb	20:31:08
1	Fe 238.204 Radial†	8.6	-0.9	-11.411 ug/L		-11.411 ppb	20:31:08
1	K 766.490 Radial†	2693.4	-97.4	-21.512 ug/L		-21.512 ppb	20:30:48
1	Mg 279.077 IEC†	3.7	0.5	22.442 ug/L		22.442 ppb	20:31:08
1	Na 589.592 Radial†	-374.7	55.1	22.144 ug/L		22.144 ppb	20:30:48
1	Sr 421.552†	38.1	-5.6	-0.0505 ug/L		-0.0505 ppb	20:30:48
1	Sc 361.383	818070.9	818070.9	111.64 %			20:32:05
1	Y 371.029	672076.7	672076.7	111.19 %			20:32:05
1	Ag 328.068†	185.7	14.2	0.0735 ug/L		0.0735 ppb	20:32:05
1	As 188.979†	-25.8	-0.8	-0.4709 ug/L		-0.4709 ppb	20:32:25
1	B 249.677†	573.5	848.7	25.547 ug/L		25.547 ppb	20:32:25
1	Ba 233.527†	-10.4	-11.9	-0.1227 ug/L		-0.1227 ppb	20:32:25
1	Be 313.107†	-4112.4	207.8	0.0976 ug/L		0.0976 ppb	20:32:05
1	Cd 226.502†	-137.3	48.1	0.7849 ug/L		0.7849 ppb	20:32:25
1	Co 228.616†	-46.8	4.8	0.1356 ug/L		0.1356 ppb	20:32:25
1	Cr 267.716†	189.3	74.5	1.1372 ug/L		1.1372 ppb	20:32:25
1	Cu 324.752†	6088.7	-262.9	-0.9444 ug/L		-0.9444 ppb	20:32:05
1	Mn 257.610†	448.3	-24.0	-0.0371 ug/L		-0.0371 ppb	20:32:25
1	Mo 202.031†	11.1	-6.8	-0.6905 ug/L		-0.6905 ppb	20:32:25
1	Ni 231.604†	80.9	-10.1	-0.3623 ug/L		-0.3623 ppb	20:32:25
1	P 214.914†	196.0	-12.9	-10.192 ug/L		-10.192 ppb	20:32:25
1	Pb 220.353†	-50.4	3.9	0.6738 ug/L		0.6738 ppb	20:32:25
1	S 181.975 Axial†	32.9	2.3	4.5299 ug/L		4.5299 ppb	20:32:25
1	Sb 206.836†	34.1	4.9	2.3298 ug/L		2.3298 ppb	20:32:25
1	Se 196.026†	-15.0	8.3	7.4259 ug/L		7.4259 ppb	20:32:25
1	Si 251.611†	545.8	33.2	1.3816 ug/L		1.3816 ppb	20:32:25
1	Sn 189.927†	29.0	12.4	3.1349 ug/L		3.1349 ppb	20:32:25
1	Ti 334.940†	-1017.7	132.7	0.2475 ug/L		0.2475 ppb	20:32:05
1	Tl 190.801†	-16.7	7.3	3.1363 ug/L		3.1363 ppb	20:32:25
1	U 409.014†	-1730.5	283.9	9.6521 ug/L		9.6521 ppb	20:32:05
1	V 292.402†	-1405.5	121.6	1.1019 ug/L		1.1019 ppb	20:32:05
1	Zn 213.857†	715.6	-18.8	-0.2462 ug/L		-0.2462 ppb	20:32:25
1	SiO2†	524.6	5.9	0.5422 ug/L		0.5422 ppb	20:33:36
2	Sc Radial	4150.4	4150.4	110 %			20:31:33
2	Y RADIAL	4778.9	4778.9	117.1 %			20:31:13
2	Al 396.153Radial†	-76.2	3.3	3.8852 ug/L		3.8852 ppb	20:31:33
2	Ca 317.933Radial†	22.9	-1.0	-2.2032 ug/L		-2.2032 ppb	20:31:33
2	Fe 238.204 Radial†	8.3	-0.9	-11.243 ug/L		-11.243 ppb	20:31:33
2	K 766.490 Radial†	2650.5	-59.4	-13.120 ug/L		-13.120 ppb	20:31:13
2	Mg 279.077 IEC†	0.2	-2.6	-123.24 ug/L		-123.24 ppb	20:31:33
2	Na 589.592 Radial†	-425.6	-2.1	-0.8486 ug/L		-0.8486 ppb	20:31:13
2	Sr 421.552†	19.2	-21.7	-0.1971 ug/L		-0.1971 ppb	20:31:13
2	Sc 361.383	800708.9	800708.9	109.27 %			20:32:30
2	Y 371.029	658878.9	658878.9	109.01 %			20:32:30
2	Ag 328.068†	245.3	72.3	0.4104 ug/L		0.4104 ppb	20:32:30
2	As 188.979†	-26.8	-2.3	-1.3771 ug/L		-1.3771 ppb	20:32:50
2	B 249.677†	559.6	847.1	25.497 ug/L		25.497 ppb	20:32:50
2	Ba 233.527†	14.2	10.4	0.1114 ug/L		0.1114 ppb	20:32:50
2	Be 313.107†	-3962.0	265.6	0.1245 ug/L		0.1245 ppb	20:32:30
2	Cd 226.502†	-144.8	38.7	0.6295 ug/L		0.6295 ppb	20:32:50
2	Co 228.616†	-37.2	12.7	0.3637 ug/L		0.3637 ppb	20:32:50
2	Cr 267.716†	202.0	89.8	1.3743 ug/L		1.3743 ppb	20:32:50
2	Cu 324.752†	6079.5	-153.1	-0.5487 ug/L		-0.5487 ppb	20:32:30
2	Mn 257.610†	453.8	-10.2	-0.0110 ug/L		-0.0110 ppb	20:32:50
2	Mo 202.031†	22.0	3.4	0.3385 ug/L		0.3385 ppb	20:32:50
2	Ni 231.604†	65.1	-22.9	-0.8232 ug/L		-0.8232 ppb	20:32:50

2	P 214.914†	197.6	-7.6	-6.0201 ug/L	-6.0201 ppb	20:32:50
2	Pb 220.353†	-18.2	32.4	5.6103 ug/L	5.6103 ppb	20:32:50
2	S 181.975 Axial†	31.4	1.7	3.2514 ug/L	3.2514 ppb	20:32:50
2	Sb 206.836†	32.6	4.2	2.0134 ug/L	2.0134 ppb	20:32:50
2	Se 196.026†	-14.4	8.6	7.6960 ug/L	7.6960 ppb	20:32:50
2	Si 251.611†	526.1	25.8	1.0611 ug/L	1.0611 ppb	20:32:50
2	Sn 189.927†	27.4	11.4	2.8941 ug/L	2.8941 ppb	20:32:50
2	Ti 334.940†	-1000.4	128.8	0.2542 ug/L	0.2542 ppb	20:32:30
2	Tl 190.801†	-19.9	4.1	1.7645 ug/L	1.7645 ppb	20:32:50
2	U 409.014†	-1903.7	91.7	3.1180 ug/L	3.1180 ppb	20:32:30
2	V 292.402†	-1356.3	139.3	1.2600 ug/L	1.2600 ppb	20:32:30
2	Zn 213.857†	727.4	5.8	0.0858 ug/L	0.0858 ppb	20:32:50
2	SiO2†	538.6	28.9	2.5360 ug/L	2.5360 ppb	20:33:56
3	Sc Radial	4115.1	4115.1	109 %		20:31:58
3	Y RADIAL	4814.0	4814.0	117.9 %		20:31:38
3	Al 396.153Radial†	-75.4	3.4	4.1164 ug/L	4.1164 ppb	20:31:58
3	Ca 317.933Radial†	22.8	-0.9	-2.0004 ug/L	-2.0004 ppb	20:31:58
3	Fe 238.204 Radial†	8.3	-0.9	-11.377 ug/L	-11.377 ppb	20:31:58
3	K 766.490 Radial†	2667.5	-23.0	-5.0893 ug/L	-5.0893 ppb	20:31:38
3	Mg 279.077 IEC†	3.1	0.1	3.6781 ug/L	3.6781 ppb	20:31:58
3	Na 589.592 Radial†	-329.0	83.5	33.568 ug/L	33.568 ppb	20:31:38
3	Sr 421.552†	18.1	-22.6	-0.2051 ug/L	-0.2051 ppb	20:31:38
3	Sc 361.383	801484.8	801484.8	109.37 %		20:32:56
3	Y 371.029	658792.3	658792.3	108.99 %		20:32:56
3	Ag 328.068†	147.7	-17.1	-0.1062 ug/L	-0.1062 ppb	20:32:56
3	As 188.979†	-21.9	2.3	1.4017 ug/L	1.4017 ppb	20:33:16
3	B 249.677†	541.9	830.5	24.996 ug/L	24.996 ppb	20:33:16
3	Ba 233.527†	9.9	6.5	0.0682 ug/L	0.0682 ppb	20:33:16
3	Be 313.107†	-4031.8	205.3	0.0964 ug/L	0.0964 ppb	20:32:56
3	Cd 226.502†	-132.0	50.5	0.8225 ug/L	0.8225 ppb	20:33:16
3	Co 228.616†	-33.8	15.8	0.4530 ug/L	0.4530 ppb	20:33:16
3	Cr 267.716†	192.6	81.0	1.2366 ug/L	1.2366 ppb	20:33:16
3	Cu 324.752†	6146.7	-97.0	-0.3509 ug/L	-0.3509 ppb	20:32:56
3	Mn 257.610†	466.7	1.2	0.0004 ug/L	0.0004 ppb	20:33:16
3	Mo 202.031†	15.8	-2.3	-0.2301 ug/L	-0.2301 ppb	20:33:16
3	Ni 231.604†	83.6	-6.1	-0.2197 ug/L	-0.2197 ppb	20:33:16
3	P 214.914†	181.3	-22.7	-18.259 ug/L	-18.259 ppb	20:33:16
3	Pb 220.353†	-41.4	11.3	1.9496 ug/L	1.9496 ppb	20:33:16
3	S 181.975 Axial†	35.0	4.9	9.5407 ug/L	9.5407 ppb	20:33:16
3	Sb 206.836†	28.7	0.6	0.3239 ug/L	0.3239 ppb	20:33:16
3	Se 196.026†	-17.4	5.9	5.2400 ug/L	5.2400 ppb	20:33:16
3	Si 251.611†	526.3	25.5	1.0553 ug/L	1.0553 ppb	20:33:16
3	Sn 189.927†	25.0	9.2	2.3251 ug/L	2.3251 ppb	20:33:16
3	Ti 334.940†	-1000.1	129.9	0.2442 ug/L	0.2442 ppb	20:32:56
3	Tl 190.801†	-13.8	9.6	4.1563 ug/L	4.1563 ppb	20:33:16
3	U 409.014†	-1767.1	218.4	7.4234 ug/L	7.4234 ppb	20:32:56
3	V 292.402†	-1487.8	20.3	0.1940 ug/L	0.1940 ppb	20:32:56
3	Zn 213.857†	723.9	2.0	0.0307 ug/L	0.0307 ppb	20:33:16
3	SiO2†	523.2	14.4	1.2746 ug/L	1.2746 ppb	20:34:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806754.9	110.09 %		1.338			1.22%
Sc Radial	4183.4	110 %		2.4			2.14%
Y 371.029	663249.3	109.73 %		1.265			1.15%
Y RADIAL	4780.4	117.1 %		0.81			0.69%
Ag 328.068†	23.1	0.1259 ug/L		0.26229	0.1259 ppb	0.26229	208.31%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.1	2.4522 ug/L		2.68461	2.4522 ppb	2.68461	109.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.2	-0.1487 ug/L		1.41714	-0.1487 ppb	1.41714	952.77%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	842.1	25.347 ug/L		0.3044	25.347 ppb	0.3044	1.20%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	1.7	0.0190 ug/L		0.12456	0.0190 ppb	0.12456	656.07%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	226.2	0.1062 ug/L		0.01591	0.1062 ppb	0.01591	14.98%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-0.4	-0.9004 ug/L		2.08342	-0.9004 ppb	2.08342	231.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	45.8	0.7456 ug/L	0.10229	0.7456 ppb	0.10229	13.72%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	11.1	0.3174 ug/L	0.16371	0.3174 ppb	0.16371	51.57%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	81.8	1.2494 ug/L	0.11909	1.2494 ppb	0.11909	9.53%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-171.0	-0.6147 ug/L	0.30217	-0.6147 ppb	0.30217	49.16%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.9	-11.344 ug/L	0.0888	-11.344 ppb	0.0888	0.78%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-59.9	-13.241 ug/L	8.2120	-13.241 ppb	8.2120	62.02%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.7	-32.375 ug/L	79.2531	-32.375 ppb	79.2531	244.80%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-11.0	-0.0159 ug/L	0.01923	-0.0159 ppb	0.01923	121.21%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-1.9	-0.1941 ug/L	0.51545	-0.1941 ppb	0.51545	265.62%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	45.5	18.288 ug/L	17.5291	18.288 ppb	17.5291	95.85%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-13.1	-0.4684 ug/L	0.31540	-0.4684 ppb	0.31540	67.33%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-14.4	-11.491 ug/L	6.2220	-11.491 ppb	6.2220	54.15%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	15.9	2.7446 ug/L	2.56246	2.7446 ppb	2.56246	93.36%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	3.0	5.7740 ug/L	3.32410	5.7740 ppb	3.32410	57.57%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	3.3	1.5557 ug/L	1.07845	1.5557 ppb	1.07845	69.32%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	7.6	6.7873 ug/L	1.34676	6.7873 ppb	1.34676	19.84%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	28.2	1.1660 ug/L	0.18671	1.1660 ppb	0.18671	16.01%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	11.0	2.7847 ug/L	0.41580	2.7847 ppb	0.41580	14.93%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-16.6	-0.1509 ug/L	0.08702	-0.1509 ppb	0.08702	57.66%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	130.5	0.2486 ug/L	0.00509	0.2486 ppb	0.00509	2.05%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	7.0	3.0190 ug/L	1.20017	3.0190 ppb	1.20017	39.75%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	198.0	6.7312 ug/L	3.32158	6.7312 ppb	3.32158	49.35%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	93.7	0.8520 ug/L	0.57530	0.8520 ppb	0.57530	67.53%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-3.7	-0.0432 ug/L	0.17790	-0.0432 ppb	0.17790	411.50%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		16.4	1.4509 ug/L	1.00854	1.4509 ppb	1.00854	69.51%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 15
 Sample ID: LR1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 25
 Date Collected: 3/26/2010 20:36:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4167.1	4167.1	110 %			20:38:40
1	Y RADIAL	4680.2	4680.2	114.6 %			20:38:20
1	Al 396.153Radial†	-97.0	-15.3	-17.056 ug/L		-17.056 ppb	20:38:40
1	Ca 317.933Radial†	10.7	-12.2	-27.275 ug/L		-27.275 ppb	20:38:40
1	Fe 238.204 Radial†	32190.0	29253.4	386720 ug/L		386720 ppb	20:38:20
1	K 766.490 Radial†	2277.7	-408.0	-90.019 ug/L		-90.019 ppb	20:38:20
1	Mg 279.077 IEC†	7.4	3.9	-221.43 ug/L		-221.43 ppb	20:38:40
1	Na 589.592 Radial†	-460.5	-32.3	-13.004 ug/L		-13.004 ppb	20:38:20
1	Sr 421.552†	82.2	35.4	0.3220 ug/L		0.3220 ppb	20:38:20
1	Sc 361.383	806617.7	806617.7	110.07 %			20:39:38
1	Y 371.029	662507.4	662507.4	109.61 %			20:39:38
1	Ag 328.068†	-22354.9	-20461.4	3.3447 ug/L		3.3447 ppb	20:39:38
1	As 188.979†	-165.2	-127.8	13.073 ug/L		13.073 ppb	20:39:58
1	B 249.677†	2137.7	2277.1	5.6845 ug/L		5.6845 ppb	20:39:38
1	Ba 233.527†	-1542.8	-1404.2	-2.8304 ug/L		-2.8304 ppb	20:39:38
1	Be 313.107†	-3915.4	334.5	0.1564 ug/L		0.1564 ppb	20:39:38
1	Cd 226.502†	2586.0	2520.5	1.0245 ug/L		1.0245 ppb	20:39:38
1	Co 228.616†	639.7	627.9	12.396 ug/L		12.396 ppb	20:39:58
1	Cr 267.716†	-402.3	-460.5	33.971 ug/L		33.971 ppb	20:39:58
1	Cu 324.752†	-972.7	-6600.6	-3.1316 ug/L		-3.1316 ppb	20:39:38
1	Mn 257.610†	-31803.3	-29318.6	-4.6048 ug/L		-4.6048 ppb	20:39:38
1	Mo 202.031†	-248.4	-242.5	5.5370 ug/L		5.5370 ppb	20:39:38
1	Ni 231.604†	174.1	75.6	2.7026 ug/L		2.7026 ppb	20:39:58
1	P 214.914†	623.9	378.3	-1.0209 ug/L		-1.0209 ppb	20:39:58
1	Pb 220.353†	174.1	207.3	-19.226 ug/L		-19.226 ppb	20:39:58
1	S 181.975 Axial†	33.3	3.1	6.1138 ug/L		6.1138 ppb	20:39:58
1	Sb 206.836†	29.2	1.0	-4.2851 ug/L		-4.2851 ppb	20:39:58
1	Se 196.026†	-1588.1	-1421.0	-250.85 ug/L		-250.85 ppb	20:39:58
1	Si 251.611†	-426.0	-842.7	-34.513 ug/L		-34.513 ppb	20:39:38
1	Sn 189.927†	-6.2	-19.3	-27.096 ug/L		-27.096 ppb	20:39:58
1	Ti 334.940†	-1086.2	57.5	0.0637 ug/L		0.0637 ppb	20:39:38
1	Tl 190.801†	-22.6	1.7	0.3662 ug/L		0.3662 ppb	20:39:58
1	U 409.014†	210.3	2025.1	24.791 ug/L		24.791 ppb	20:39:38
1	V 292.402†	5236.5	6137.9	-1.4228 ug/L		-1.4228 ppb	20:39:38
1	Zn 213.857†	3661.9	2667.0	-22.245 ug/L		-22.245 ppb	20:39:58
1	SiO2†	-460.0	-881.9	-76.949 ug/L		-76.949 ppb	20:40:55
2	Sc Radial	4156.6	4156.6	110 %			20:39:05
2	Y RADIAL	4572.3	4572.3	112.0 %			20:38:45
2	Al 396.153Radial†	-85.6	-5.2	-4.8426 ug/L		-4.8426 ppb	20:39:05
2	Ca 317.933Radial†	15.0	-8.2	-18.419 ug/L		-18.419 ppb	20:39:05
2	Fe 238.204 Radial†	31800.6	28972.1	383000 ug/L		383000 ppb	20:38:45
2	K 766.490 Radial†	2387.8	-302.5	-66.730 ug/L		-66.730 ppb	20:38:45
2	Mg 279.077 IEC†	11.4	7.6	-40.607 ug/L		-40.607 ppb	20:39:05
2	Na 589.592 Radial†	-409.1	13.5	5.4414 ug/L		5.4414 ppb	20:38:45
2	Sr 421.552†	87.7	40.7	0.3693 ug/L		0.3693 ppb	20:38:45
2	Sc 361.383	834478.0	834478.0	113.87 %			20:40:04
2	Y 371.029	684345.6	684345.6	113.22 %			20:40:04
2	Ag 328.068†	-23096.0	-20434.1	2.3537 ug/L		2.3537 ppb	20:40:04
2	As 188.979†	-170.1	-127.1	12.615 ug/L		12.615 ppb	20:40:24
2	B 249.677†	2165.3	2236.5	5.0689 ug/L		5.0689 ppb	20:40:04
2	Ba 233.527†	-1634.3	-1437.8	-3.2942 ug/L		-3.2942 ppb	20:40:04
2	Be 313.107†	-3978.8	397.6	0.1860 ug/L		0.1860 ppb	20:40:04
2	Cd 226.502†	2708.2	2549.4	1.8762 ug/L		1.8762 ppb	20:40:04
2	Co 228.616†	629.0	599.1	11.617 ug/L		11.617 ppb	20:40:24
2	Cr 267.716†	-444.7	-485.6	33.195 ug/L		33.195 ppb	20:40:24
2	Cu 324.752†	-1139.9	-6718.0	-3.7457 ug/L		-3.7457 ppb	20:40:04
2	Mn 257.610†	-33031.1	-29432.1	-5.1451 ug/L		-5.1451 ppb	20:40:04
2	Mo 202.031†	-283.0	-265.3	2.9442 ug/L		2.9442 ppb	20:40:04
2	Ni 231.604†	156.3	54.7	1.9520 ug/L		1.9520 ppb	20:40:24

2	P 214.914†	632.1	366.7	-7.3793 ug/L	-7.3793 ppb	20:40:24
2	Pb 220.353†	170.6	198.9	-20.147 ug/L	-20.147 ppb	20:40:24
2	S 181.975 Axial†	38.9	7.0	13.693 ug/L	13.693 ppb	20:40:24
2	Sb 206.836†	24.1	-4.4	-6.7676 ug/L	-6.7676 ppb	20:40:24
2	Se 196.026†	-1612.2	-1394.1	-236.46 ug/L	-236.46 ppb	20:40:24
2	Si 251.611†	-389.6	-797.9	-32.632 ug/L	-32.632 ppb	20:40:04
2	Sn 189.927†	-4.0	-17.2	-26.339 ug/L	-26.339 ppb	20:40:24
2	Ti 334.940†	-1087.7	89.1	0.1124 ug/L	0.1124 ppb	20:40:04
2	Tl 190.801†	-31.7	-5.6	-2.8049 ug/L	-2.8049 ppb	20:40:24
2	U 409.014†	113.4	1933.6	22.106 ug/L	22.106 ppb	20:40:04
2	V 292.402†	5472.0	6185.9	-0.4852 ug/L	-0.4852 ppb	20:40:04
2	Zn 213.857†	3711.1	2599.1	-22.590 ug/L	-22.590 ppb	20:40:24
2	SiO2†	-474.2	-880.4	-76.755 ug/L	-76.755 ppb	20:41:00
3	Sc Radial	4186.4	4186.4	111 %		20:39:30
3	Y RADIAL	4673.2	4673.2	114.5 %		20:39:10
3	Al 396.153Radial†	-92.2	-10.5	-11.218 ug/L	-11.218 ppb	20:39:30
3	Ca 317.933Radial†	14.1	-9.2	-20.599 ug/L	-20.599 ppb	20:39:30
3	Fe 238.204 Radial†	32166.8	29097.2	384650 ug/L	384650 ppb	20:39:10
3	K 766.490 Radial†	2214.1	-475.1	-104.84 ug/L	-104.84 ppb	20:39:10
3	Mg 279.077 IEC†	11.5	7.6	-42.679 ug/L	-42.679 ppb	20:39:30
3	Na 589.592 Radial†	-472.1	-40.9	-16.447 ug/L	-16.447 ppb	20:39:10
3	Sr 421.552†	70.7	24.7	0.2245 ug/L	0.2245 ppb	20:39:10
3	Sc 361.383	821455.8	821455.8	112.10 %		20:40:29
3	Y 371.029	673907.7	673907.7	111.50 %		20:40:29
3	Ag 328.068†	-22802.9	-20494.2	2.5207 ug/L	2.5207 ppb	20:40:29
3	As 188.979†	-171.1	-130.3	11.042 ug/L	11.042 ppb	20:40:50
3	B 249.677†	2249.1	2341.4	7.9573 ug/L	7.9573 ppb	20:40:29
3	Ba 233.527†	-1669.9	-1492.2	-3.8137 ug/L	-3.8137 ppb	20:40:29
3	Be 313.107†	-4039.1	288.4	0.1349 ug/L	0.1349 ppb	20:40:29
3	Cd 226.502†	2619.9	2508.3	1.0396 ug/L	1.0396 ppb	20:40:29
3	Co 228.616†	631.5	610.1	11.907 ug/L	11.907 ppb	20:40:50
3	Cr 267.716†	-417.9	-467.8	33.641 ug/L	33.641 ppb	20:40:50
3	Cu 324.752†	-990.4	-6600.5	-3.2420 ug/L	-3.2420 ppb	20:40:29
3	Mn 257.610†	-32227.3	-29175.0	-4.6063 ug/L	-4.6063 ppb	20:40:29
3	Mo 202.031†	-281.8	-268.1	2.7865 ug/L	2.7865 ppb	20:40:29
3	Ni 231.604†	153.8	54.6	1.9498 ug/L	1.9498 ppb	20:40:50
3	P 214.914†	624.6	368.7	-7.0953 ug/L	-7.0953 ppb	20:40:50
3	Pb 220.353†	140.4	174.3	-24.639 ug/L	-24.639 ppb	20:40:50
3	S 181.975 Axial†	39.2	7.8	15.256 ug/L	15.256 ppb	20:40:50
3	Sb 206.836†	15.0	-12.2	-10.390 ug/L	-10.390 ppb	20:40:50
3	Se 196.026†	-1603.6	-1408.8	-245.33 ug/L	-245.33 ppb	20:40:50
3	Si 251.611†	-377.7	-792.6	-32.412 ug/L	-32.412 ppb	20:40:29
3	Sn 189.927†	2.5	-11.4	-24.974 ug/L	-24.974 ppb	20:40:50
3	Ti 334.940†	-1111.7	52.6	0.0395 ug/L	0.0395 ppb	20:40:29
3	Tl 190.801†	-34.5	-8.5	-4.0661 ug/L	-4.0661 ppb	20:40:50
3	U 409.014†	311.5	2111.9	27.980 ug/L	27.980 ppb	20:40:29
3	V 292.402†	5452.4	6244.6	-0.1917 ug/L	-0.1917 ppb	20:40:29
3	Zn 213.857†	3694.5	2635.9	-22.346 ug/L	-22.346 ppb	20:40:50
3	SiO2†	-301.0	-732.5	-63.732 ug/L	-63.732 ppb	20:41:05

Mean Data: LRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820850.5	112.01 %		1.902			1.70%
Sc Radial	4170.0	110 %		0.4			0.36%
Y 371.029	673586.9	111.44 %		1.807			1.62%
Y RADIAL	4641.9	113.7 %		1.48			1.30%
Ag 328.068†	-20463.2	2.7397 ug/L		0.53053	2.7397 ppb	0.53053	19.36%
Al 396.153Radial†	-10.3	-11.039 ug/L		6.1089	-11.039 ppb	6.1089	55.34%
As 188.979†	-128.4	12.244 ug/L		1.0652	12.244 ppb	1.0652	8.70%
B 249.677†	2285.0	6.2369 ug/L		1.52138	6.2369 ppb	1.52138	24.39%
Ba 233.527†	-1444.7	-3.3128 ug/L		0.49190	-3.3128 ppb	0.49190	14.85%
Be 313.107†	340.2	0.1591 ug/L		0.02566	0.1591 ppb	0.02566	16.13%
Ca 317.933Radial†	-9.9	-22.098 ug/L		4.6143	-22.098 ppb	4.6143	20.88%
Cd 226.502†	2526.1	1.3135 ug/L		0.48745	1.3135 ppb	0.48745	37.11%
Co 228.616†	612.3	11.973 ug/L		0.3936	11.973 ppb	0.3936	3.29%
Cr 267.716†	-471.3	33.602 ug/L		0.3893	33.602 ppb	0.3893	1.16%
Cu 324.752†	-6639.7	-3.3731 ug/L		0.32738	-3.3731 ppb	0.32738	9.71%
Fe 238.204 Radial†	29107.6	384790 ug/L		1863.1	384790 ppb	1863.1	0.48%
K 766.490 Radial†	-395.2	-87.196 ug/L		19.2116	-87.196 ppb	19.2116	22.03%

Mg 279.077 IEC†	6.4	-101.57 ug/L	103.805	-101.57 ppb	103.805	102.20%
Mn 257.610†	-29308.5	-4.7854 ug/L	0.31149	-4.7854 ppb	0.31149	6.51%
Mo 202.031†	-258.6	3.7559 ug/L	1.54451	3.7559 ppb	1.54451	41.12%
Na 589.592 Radial†	-19.9	-8.0034 ug/L	11.77013	-8.0034 ppb	11.77013	147.06%
Ni 231.604†	61.7	2.2015 ug/L	0.43396	2.2015 ppb	0.43396	19.71%
P 214.914†	371.3	-5.1652 ug/L	3.59183	-5.1652 ppb	3.59183	69.54%
Pb 220.353†	193.5	-21.337 ug/L	2.8962	-21.337 ppb	2.8962	13.57%
S 181.975 Axial†	6.0	11.687 ug/L	4.8898	11.687 ppb	4.8898	41.84%
Sb 206.836†	-5.2	-7.1476 ug/L	3.07016	-7.1476 ppb	3.07016	42.95%
Se 196.026†	-1408.0	-244.21 ug/L	7.261	-244.21 ppb	7.261	2.97%
Si 251.611†	-811.1	-33.186 ug/L	1.1550	-33.186 ppb	1.1550	3.48%
Sn 189.927†	-15.9	-26.136 ug/L	1.0752	-26.136 ppb	1.0752	4.11%
Sr 421.552†	33.6	0.3053 ug/L	0.07383	0.3053 ppb	0.07383	24.18%
Ti 334.940†	66.4	0.0719 ug/L	0.03713	0.0719 ppb	0.03713	51.66%
Tl 190.801†	-4.1	-2.1683 ug/L	2.28370	-2.1683 ppb	2.28370	105.32%
U 409.014†	2023.5	24.959 ug/L	2.9406	24.959 ppb	2.9406	11.78%
V 292.402†	6189.5	-0.6999 ug/L	0.64302	-0.6999 ppb	0.64302	91.87%
Zn 213.857†	2634.0	-22.393 ug/L	0.1771	-22.393 ppb	0.1771	0.79%
SiO2†	-831.6	-72.479 ug/L	7.5753	-72.479 ppb	7.5753	10.45%

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/26/2010 20:43:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4410.6	4410.6	116 %		20:45:09
1	Y RADIAL	4694.7	4694.7	115.0 %		20:45:09
1	Al 396.153Radial†	4798.7	4194.1	4965.9 ug/L	4965.9 ppb	20:45:09
1	Ca 317.933Radial†	2652.1	2255.8	5053.9 ug/L	5053.9 ppb	20:45:29
1	Fe 238.204 Radial†	451.0	378.8	5023.5 ug/L	5023.5 ppb	20:45:29
1	K 766.490 Radial†	27883.7	21469.2	4733.4 ug/L	4733.4 ppb	20:45:09
1	Mg 279.077 IEC†	128.1	107.2	5071.1 ug/L	5071.1 ppb	20:45:29
1	Na 589.592 Radial†	29496.7	25719.3	10342 ug/L	10342 ppb	20:45:09
1	Sr 421.552†	63153.4	54199.5	492.02 ug/L	492.02 ppb	20:45:09
1	Sc 361.383	826407.0	826407.0	112.77 %		20:46:27
1	Y 371.029	672543.8	672543.8	111.27 %		20:46:27
1	Ag 328.068†	100828.9	89256.5	510.92 ug/L	510.92 ppb	20:46:32
1	As 188.979†	935.8	852.1	521.58 ug/L	521.58 ppb	20:46:52
1	B 249.677†	19217.6	17375.9	520.70 ug/L	520.70 ppb	20:46:32
1	Ba 233.527†	54375.5	48214.2	506.60 ug/L	506.60 ppb	20:46:32
1	Be 313.107†	1233669.7	1097831.9	513.69 ug/L	513.69 ppb	20:46:27
1	Cd 226.502†	35029.5	31233.1	507.39 ug/L	507.39 ppb	20:46:32
1	Co 228.616†	20263.5	18015.1	517.76 ug/L	517.76 ppb	20:46:32
1	Cr 267.716†	37412.1	33079.6	507.50 ug/L	507.50 ppb	20:46:32
1	Cu 324.752†	165052.7	140641.3	502.03 ug/L	502.03 ppb	20:46:32
1	Mn 257.610†	393873.1	348836.2	509.43 ug/L	509.43 ppb	20:46:27
1	Mo 202.031†	5733.5	5067.4	512.16 ug/L	512.16 ppb	20:46:52
1	Ni 231.604†	16278.3	14352.0	514.61 ug/L	514.61 ppb	20:46:32
1	P 214.914†	3768.7	3153.4	2451.2 ug/L	2451.2 ppb	20:46:52
1	Pb 220.353†	3241.2	2923.1	507.08 ug/L	507.08 ppb	20:46:52
1	S 181.975 Axial†	628.4	530.2	1030.0 ug/L	1030.0 ppb	20:46:52
1	Sb 206.836†	1271.8	1102.1	529.52 ug/L	529.52 ppb	20:46:52
1	Se 196.026†	630.8	581.1	539.13 ug/L	539.13 ppb	20:46:52
1	Si 251.611†	70152.0	61750.6	2544.8 ug/L	2544.8 ppb	20:46:32
1	Sn 189.927†	2277.6	2006.0	509.18 ug/L	509.18 ppb	20:46:52
1	Ti 334.940†	293174.7	261013.1	499.01 ug/L	499.01 ppb	20:46:32
1	Tl 190.801†	1311.3	1185.0	514.39 ug/L	514.39 ppb	20:46:52
1	U 409.014†	14814.7	14970.8	507.37 ug/L	507.37 ppb	20:46:32
1	V 292.402†	61848.3	56223.8	511.65 ug/L	511.65 ppb	20:46:32
1	Zn 213.857†	43791.5	38171.7	505.00 ug/L	505.00 ppb	20:46:32
1	SiO2†	69028.8	60746.4	5332.5 ug/L	5332.5 ppb	20:47:59
2	Sc Radial	4338.8	4338.8	115 %		20:45:34
2	Y RADIAL	4595.8	4595.8	112.6 %		20:45:34
2	Al 396.153Radial†	4827.9	4287.9	5077.5 ug/L	5077.5 ppb	20:45:34
2	Ca 317.933Radial†	2672.6	2311.4	5178.5 ug/L	5178.5 ppb	20:45:54
2	Fe 238.204 Radial†	460.3	393.4	5216.5 ug/L	5216.5 ppb	20:45:54
2	K 766.490 Radial†	27896.6	21876.9	4823.3 ug/L	4823.3 ppb	20:45:34
2	Mg 279.077 IEC†	131.3	111.8	5289.0 ug/L	5289.0 ppb	20:45:54
2	Na 589.592 Radial†	29536.0	26173.0	10525 ug/L	10525 ppb	20:45:34
2	Sr 421.552†	63381.2	55296.3	501.98 ug/L	501.98 ppb	20:45:34
2	Sc 361.383	829199.8	829199.8	113.15 %		20:46:58
2	Y 371.029	674746.6	674746.6	111.63 %		20:46:58
2	Ag 328.068†	101547.5	89590.5	512.89 ug/L	512.89 ppb	20:47:03
2	As 188.979†	930.8	844.9	517.27 ug/L	517.27 ppb	20:47:23
2	B 249.677†	19291.6	17384.0	520.91 ug/L	520.91 ppb	20:47:03
2	Ba 233.527†	54761.6	48393.0	508.48 ug/L	508.48 ppb	20:47:03
2	Be 313.107†	1218517.6	1080756.6	505.72 ug/L	505.72 ppb	20:46:58
2	Cd 226.502†	35266.3	31337.8	509.08 ug/L	509.08 ppb	20:47:03
2	Co 228.616†	20328.4	18011.9	517.66 ug/L	517.66 ppb	20:47:03
2	Cr 267.716†	37752.7	33268.9	510.42 ug/L	510.42 ppb	20:47:03
2	Cu 324.752†	166943.2	141819.1	506.24 ug/L	506.24 ppb	20:47:03
2	Mn 257.610†	389132.8	343470.6	501.61 ug/L	501.61 ppb	20:46:58
2	Mo 202.031†	5747.5	5062.6	511.69 ug/L	511.69 ppb	20:47:23
2	Ni 231.604†	16414.6	14423.8	517.19 ug/L	517.19 ppb	20:47:03

2	P 214.914†	3796.1	3166.3	2460.7 ug/L	2460.7 ppb	20:47:23
2	Pb 220.353†	3285.8	2952.9	512.22 ug/L	512.22 ppb	20:47:23
2	S 181.975 Axial†	633.1	532.4	1034.3 ug/L	1034.3 ppb	20:47:23
2	Sb 206.836†	1266.7	1093.8	525.67 ug/L	525.67 ppb	20:47:23
2	Se 196.026†	635.6	583.4	541.72 ug/L	541.72 ppb	20:47:23
2	Si 251.611†	70795.5	62109.8	2559.6 ug/L	2559.6 ppb	20:47:03
2	Sn 189.927†	2287.9	2008.3	509.77 ug/L	509.77 ppb	20:47:23
2	Ti 334.940†	295774.4	262435.0	501.72 ug/L	501.72 ppb	20:47:03
2	Tl 190.801†	1319.5	1188.4	515.81 ug/L	515.81 ppb	20:47:23
2	U 409.014†	15159.4	15231.2	516.20 ug/L	516.20 ppb	20:47:03
2	V 292.402†	62416.0	56540.7	514.48 ug/L	514.48 ppb	20:47:03
2	Zn 213.857†	44082.7	38298.3	506.64 ug/L	506.64 ppb	20:47:03
2	SiO2†	70303.3	61666.6	5413.5 ug/L	5413.5 ppb	20:48:04
3	Sc Radial	4606.4	4606.4	122 %		20:45:59
3	Y RADIAL	4881.6	4881.6	119.6 %		20:45:59
3	Al 396.153Radial†	4909.5	4110.2	4866.8 ug/L	4866.8 ppb	20:45:59
3	Ca 317.933Radial†	2641.9	2150.6	4818.2 ug/L	4818.2 ppb	20:46:20
3	Fe 238.204 Radial†	453.9	364.8	4837.9 ug/L	4837.9 ppb	20:46:20
3	K 766.490 Radial†	28268.0	20767.5	4578.7 ug/L	4578.7 ppb	20:45:59
3	Mg 279.077 IEC†	127.7	102.2	4833.7 ug/L	4833.7 ppb	20:46:20
3	Na 589.592 Radial†	30073.0	25116.7	10100 ug/L	10100 ppb	20:45:59
3	Sr 421.552†	64545.6	53039.4	481.49 ug/L	481.49 ppb	20:45:59
3	Sc 361.383	841647.0	841647.0	114.85 %		20:47:29
3	Y 371.029	683793.3	683793.3	113.13 %		20:47:29
3	Ag 328.068†	102223.1	88851.4	508.56 ug/L	508.56 ppb	20:47:34
3	As 188.979†	926.0	828.6	507.28 ug/L	507.28 ppb	20:47:54
3	B 249.677†	19496.3	17310.0	518.75 ug/L	518.75 ppb	20:47:34
3	Ba 233.527†	55341.8	48182.4	506.26 ug/L	506.26 ppb	20:47:34
3	Be 313.107†	1228859.5	1073835.3	502.48 ug/L	502.48 ppb	20:47:29
3	Cd 226.502†	35694.9	31250.0	507.69 ug/L	507.69 ppb	20:47:34
3	Co 228.616†	20619.9	18000.0	517.30 ug/L	517.30 ppb	20:47:34
3	Cr 267.716†	38070.2	33051.9	507.05 ug/L	507.05 ppb	20:47:34
3	Cu 324.752†	167668.3	140268.5	500.69 ug/L	500.69 ppb	20:47:34
3	Mn 257.610†	393233.0	341954.7	499.38 ug/L	499.38 ppb	20:47:29
3	Mo 202.031†	5664.7	4915.4	496.79 ug/L	496.79 ppb	20:47:54
3	Ni 231.604†	16557.4	14333.6	513.95 ug/L	513.95 ppb	20:47:34
3	P 214.914†	3756.3	3082.1	2393.8 ug/L	2393.8 ppb	20:47:54
3	Pb 220.353†	3230.3	2861.7	496.41 ug/L	496.41 ppb	20:47:54
3	S 181.975 Axial†	625.7	517.7	1005.8 ug/L	1005.8 ppb	20:47:54
3	Sb 206.836†	1256.2	1068.1	513.26 ug/L	513.26 ppb	20:47:54
3	Se 196.026†	627.8	568.3	527.04 ug/L	527.04 ppb	20:47:54
3	Si 251.611†	71371.2	61685.8	2542.3 ug/L	2542.3 ppb	20:47:34
3	Sn 189.927†	2264.1	1957.6	496.89 ug/L	496.89 ppb	20:47:54
3	Ti 334.940†	298016.4	260521.4	498.06 ug/L	498.06 ppb	20:47:34
3	Tl 190.801†	1296.5	1151.1	499.71 ug/L	499.71 ppb	20:47:54
3	U 409.014†	15115.9	14995.1	508.22 ug/L	508.22 ppb	20:47:34
3	V 292.402†	62807.3	56065.7	510.04 ug/L	510.04 ppb	20:47:34
3	Zn 213.857†	44539.8	38120.1	504.34 ug/L	504.34 ppb	20:47:34
3	SiO2†	70925.7	61289.6	5380.8 ug/L	5380.8 ppb	20:48:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832417.9	113.59 %	1.107			0.97%
Sc Radial	4451.9	118 %	3.7			3.11%
Y 371.029	677027.9	112.01 %	0.986			0.88%
Y RADIAL	4724.0	115.7 %	3.55			3.07%
Ag 328.068†	89232.8	510.79 ug/L	2.167	510.79 ppb	2.167	0.42%
QC value within limits for Ag 328.068 Recovery = 102.16%						
Al 396.153Radial†	4197.4	4970.1 ug/L	105.44	4970.1 ppb	105.44	2.12%
QC value within limits for Al 396.153Radial Recovery = 99.40%						
As 188.979†	841.8	515.38 ug/L	7.336	515.38 ppb	7.336	1.42%
QC value within limits for As 188.979 Recovery = 103.08%						
B 249.677†	17356.6	520.12 ug/L	1.193	520.12 ppb	1.193	0.23%
QC value within limits for B 249.677 Recovery = 104.02%						
Ba 233.527†	48263.2	507.11 ug/L	1.200	507.11 ppb	1.200	0.24%
QC value within limits for Ba 233.527 Recovery = 101.42%						
Be 313.107†	1084141.3	507.30 ug/L	5.767	507.30 ppb	5.767	1.14%
QC value within limits for Be 313.107 Recovery = 101.46%						
Ca 317.933Radial†	2239.3	5016.9 ug/L	182.99	5016.9 ppb	182.99	3.65%

QC value within limits for Ca 317.933 Radial Recovery = 100.34%

Cd 226.502†	31273.6	508.05 ug/L	0.900	508.05 ppb	0.900	0.18%
QC value within limits for Cd 226.502 Recovery = 101.61%						
Co 228.616†	18009.0	517.57 ug/L	0.244	517.57 ppb	0.244	0.05%
QC value within limits for Co 228.616 Recovery = 103.51%						
Cr 267.716†	33133.5	508.32 ug/L	1.827	508.32 ppb	1.827	0.36%
QC value within limits for Cr 267.716 Recovery = 101.66%						
Cu 324.752†	140909.6	502.99 ug/L	2.896	502.99 ppb	2.896	0.58%
QC value within limits for Cu 324.752 Recovery = 100.60%						
Fe 238.204 Radial†	379.0	5026.0 ug/L	189.32	5026.0 ppb	189.32	3.77%
QC value within limits for Fe 238.204 Radial Recovery = 100.52%						
K 766.490 Radial†	21371.2	4711.8 ug/L	123.74	4711.8 ppb	123.74	2.63%
QC value within limits for K 766.490 Radial Recovery = 94.24%						
Mg 279.077 IEC†	107.1	5064.6 ug/L	227.74	5064.6 ppb	227.74	4.50%
QC value within limits for Mg 279.077 IEC Recovery = 101.29%						
Mn 257.610†	344753.8	503.47 ug/L	5.279	503.47 ppb	5.279	1.05%
QC value within limits for Mn 257.610 Recovery = 100.69%						
Mo 202.031†	5015.1	506.88 ug/L	8.740	506.88 ppb	8.740	1.72%
QC value within limits for Mo 202.031 Recovery = 101.38%						
Na 589.592 Radial†	25669.7	10323 ug/L	213.1	10323 ppb	213.1	2.06%
QC value within limits for Na 589.592 Radial Recovery = 103.23%						
Ni 231.604†	14369.8	515.25 ug/L	1.710	515.25 ppb	1.710	0.33%
QC value within limits for Ni 231.604 Recovery = 103.05%						
P 214.914†	3133.9	2435.2 ug/L	36.18	2435.2 ppb	36.18	1.49%
QC value within limits for P 214.914 Recovery = 97.41%						
Pb 220.353†	2912.6	505.24 ug/L	8.064	505.24 ppb	8.064	1.60%
QC value within limits for Pb 220.353 Recovery = 101.05%						
S 181.975 Axial†	526.8	1023.4 ug/L	15.39	1023.4 ppb	15.39	1.50%
QC value within limits for S 181.975 Axial Recovery = 102.34%						
Sb 206.836†	1088.0	522.82 ug/L	8.495	522.82 ppb	8.495	1.62%
QC value within limits for Sb 206.836 Recovery = 104.56%						
Se 196.026†	577.6	535.96 ug/L	7.839	535.96 ppb	7.839	1.46%
QC value within limits for Se 196.026 Recovery = 107.19%						
Si 251.611†	61848.7	2548.9 ug/L	9.37	2548.9 ppb	9.37	0.37%
QC value within limits for Si 251.611 Recovery = 101.96%						
Sn 189.927†	1990.6	505.28 ug/L	7.270	505.28 ppb	7.270	1.44%
QC value within limits for Sn 189.927 Recovery = 101.06%						
Sr 421.552†	54178.4	491.83 ug/L	10.245	491.83 ppb	10.245	2.08%
QC value within limits for Sr 421.552 Recovery = 98.37%						
Ti 334.940†	261323.2	499.59 ug/L	1.902	499.59 ppb	1.902	0.38%
QC value within limits for Ti 334.940 Recovery = 99.92%						
Tl 190.801†	1174.9	509.97 ug/L	8.912	509.97 ppb	8.912	1.75%
QC value within limits for Tl 190.801 Recovery = 101.99%						
U 409.014†	15065.7	510.60 ug/L	4.869	510.60 ppb	4.869	0.95%
QC value within limits for U 409.014 Recovery = 102.12%						
V 292.402†	56276.7	512.05 ug/L	2.247	512.05 ppb	2.247	0.44%
QC value within limits for V 292.402 Recovery = 102.41%						
Zn 213.857†	38196.7	505.33 ug/L	1.182	505.33 ppb	1.182	0.23%
QC value within limits for Zn 213.857 Recovery = 101.07%						
SiO2†	61234.2	5375.6 ug/L	40.75	5375.6 ppb	40.75	0.76%
QC value within limits for SiO2 Recovery = 100.53%						

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 3/26/2010 20:50:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4019.4	4019.4	106 %		20:52:32
1	Y RADIAL	4378.4	4378.4	107.2 %		20:52:12
1	Al 396.153Radial†	-78.6	-1.2	-1.4148 ug/L	-1.4148 ppb	20:52:32
1	Ca 317.933Radial†	20.9	-2.3	-5.0465 ug/L	-5.0465 ppb	20:52:32
1	Fe 238.204 Radial†	7.1	-1.7	-23.089 ug/L	-23.089 ppb	20:52:32
1	K 766.490 Radial†	2508.6	-114.4	-25.230 ug/L	-25.230 ppb	20:52:12
1	Mg 279.077 IEC†	2.5	-0.4	-19.235 ug/L	-19.235 ppb	20:52:32
1	Na 589.592 Radial†	-545.7	-127.9	-51.446 ug/L	-51.446 ppb	20:52:12
1	Sr 421.552†	20.9	-19.6	-0.1777 ug/L	-0.1777 ppb	20:52:12
1	Sc 361.383	804049.7	804049.7	109.72 %		20:53:29
1	Y 371.029	661535.8	661535.8	109.45 %		20:53:29
1	Ag 328.068†	242.9	69.2	0.3880 ug/L	0.3880 ppb	20:53:29
1	As 188.979†	-21.1	3.1	1.8573 ug/L	1.8573 ppb	20:53:49
1	B 249.677†	289.3	598.6	18.020 ug/L	18.020 ppb	20:53:49
1	Ba 233.527†	30.0	24.8	0.2616 ug/L	0.2616 ppb	20:53:49
1	Be 313.107†	-4020.4	227.4	0.1068 ug/L	0.1068 ppb	20:53:29
1	Cd 226.502†	-150.3	34.1	0.5573 ug/L	0.5573 ppb	20:53:49
1	Co 228.616†	-40.7	9.6	0.2759 ug/L	0.2759 ppb	20:53:49
1	Cr 267.716†	135.9	28.8	0.4383 ug/L	0.4383 ppb	20:53:49
1	Cu 324.752†	6148.1	-113.6	-0.4087 ug/L	-0.4087 ppb	20:53:29
1	Mn 257.610†	431.9	-32.0	-0.0481 ug/L	-0.0481 ppb	20:53:49
1	Mo 202.031†	22.1	3.4	0.3371 ug/L	0.3371 ppb	20:53:49
1	Ni 231.604†	70.6	-18.2	-0.6532 ug/L	-0.6532 ppb	20:53:49
1	P 214.914†	190.3	-15.0	-12.034 ug/L	-12.034 ppb	20:53:49
1	Pb 220.353†	-47.4	5.9	1.0199 ug/L	1.0199 ppb	20:53:49
1	S 181.975 Axial†	33.3	3.3	6.4016 ug/L	6.4016 ppb	20:53:49
1	Sb 206.836†	24.0	-3.8	-1.7281 ug/L	-1.7281 ppb	20:53:49
1	Se 196.026†	-12.5	10.3	9.2177 ug/L	9.2177 ppb	20:53:49
1	Si 251.611†	486.5	-12.3	-0.5125 ug/L	-0.5125 ppb	20:53:49
1	Sn 189.927†	17.2	2.0	0.5194 ug/L	0.5194 ppb	20:53:49
1	Ti 334.940†	-987.1	144.7	0.2760 ug/L	0.2760 ppb	20:53:29
1	Tl 190.801†	-13.9	9.6	4.1402 ug/L	4.1402 ppb	20:53:49
1	U 409.014†	-1906.4	96.5	3.2836 ug/L	3.2836 ppb	20:53:29
1	V 292.402†	-1389.5	114.2	1.0392 ug/L	1.0392 ppb	20:53:29
1	Zn 213.857†	695.7	-25.8	-0.3358 ug/L	-0.3358 ppb	20:53:49
1	SiO2†	515.3	5.6	0.4861 ug/L	0.4861 ppb	20:55:00
2	Sc Radial	4145.7	4145.7	109 %		20:52:57
2	Y RADIAL	4623.5	4623.5	113.2 %		20:52:37
2	Al 396.153Radial†	-74.5	4.8	5.7380 ug/L	5.7380 ppb	20:52:57
2	Ca 317.933Radial†	26.2	2.0	4.5365 ug/L	4.5365 ppb	20:52:57
2	Fe 238.204 Radial†	6.3	-2.7	-35.787 ug/L	-35.787 ppb	20:52:57
2	K 766.490 Radial†	2604.0	-99.2	-21.885 ug/L	-21.885 ppb	20:52:37
2	Mg 279.077 IEC†	2.8	-0.2	-10.785 ug/L	-10.785 ppb	20:52:57
2	Na 589.592 Radial†	-531.3	-99.1	-39.863 ug/L	-39.863 ppb	20:52:37
2	Sr 421.552†	31.9	-10.1	-0.0918 ug/L	-0.0918 ppb	20:52:37
2	Sc 361.383	789616.2	789616.2	107.75 %		20:53:54
2	Y 371.029	649261.6	649261.6	107.42 %		20:53:54
2	Ag 328.068†	205.7	38.8	0.2089 ug/L	0.2089 ppb	20:53:54
2	As 188.979†	-25.5	-1.3	-0.8171 ug/L	-0.8171 ppb	20:54:14
2	B 249.677†	296.8	610.4	18.378 ug/L	18.378 ppb	20:54:14
2	Ba 233.527†	13.0	9.5	0.1002 ug/L	0.1002 ppb	20:54:14
2	Be 313.107†	-3909.8	263.1	0.1233 ug/L	0.1233 ppb	20:53:54
2	Cd 226.502†	-154.4	27.8	0.4571 ug/L	0.4571 ppb	20:54:14
2	Co 228.616†	-55.9	-5.2	-0.1499 ug/L	-0.1499 ppb	20:54:14
2	Cr 267.716†	126.9	22.7	0.3436 ug/L	0.3436 ppb	20:54:14
2	Cu 324.752†	6025.8	-124.7	-0.4493 ug/L	-0.4493 ppb	20:53:54
2	Mn 257.610†	449.1	-8.8	-0.0159 ug/L	-0.0159 ppb	20:54:14
2	Mo 202.031†	9.3	-8.1	-0.8206 ug/L	-0.8206 ppb	20:54:14
2	Ni 231.604†	93.3	4.1	0.1460 ug/L	0.1460 ppb	20:54:14

2	P 214.914†	187.6	-14.4	-11.508 ug/L	-11.508 ppb	20:54:14
2	Pb 220.353†	-59.7	-6.4	-1.0948 ug/L	-1.0948 ppb	20:54:14
2	S 181.975 Axial†	32.6	3.1	6.0965 ug/L	6.0965 ppb	20:54:14
2	Sb 206.836†	31.5	3.6	1.6499 ug/L	1.6499 ppb	20:54:14
2	Se 196.026†	-21.9	1.4	1.1457 ug/L	1.1457 ppb	20:54:14
2	Si 251.611†	488.1	-2.8	-0.1041 ug/L	-0.1041 ppb	20:54:14
2	Sn 189.927†	12.3	-2.2	-0.5519 ug/L	-0.5519 ppb	20:54:14
2	Ti 334.940†	-1013.9	103.4	0.1972 ug/L	0.1972 ppb	20:53:54
2	Tl 190.801†	-20.2	3.5	1.5273 ug/L	1.5273 ppb	20:54:14
2	U 409.014†	-1839.0	127.3	4.3333 ug/L	4.3333 ppb	20:53:54
2	V 292.402†	-1399.0	82.3	0.7400 ug/L	0.7400 ppb	20:53:54
2	Zn 213.857†	714.2	3.0	0.0446 ug/L	0.0446 ppb	20:54:14
2	SiO2†	493.7	-5.8	-0.4906 ug/L	-0.4906 ppb	20:55:20
3	Sc Radial	4121.5	4121.5	109 %		20:53:22
3	Y RADIAL	4515.2	4515.2	110.6 %		20:53:02
3	Al 396.153Radial†	-68.0	10.4	12.318 ug/L	12.318 ppb	20:53:22
3	Ca 317.933Radial†	19.1	-4.3	-9.7237 ug/L	-9.7237 ppb	20:53:22
3	Fe 238.204 Radial†	7.9	-1.2	-15.287 ug/L	-15.287 ppb	20:53:22
3	K 766.490 Radial†	2531.3	-152.0	-33.556 ug/L	-33.556 ppb	20:53:02
3	Mg 279.077 IEC†	3.3	0.3	12.248 ug/L	12.248 ppb	20:53:22
3	Na 589.592 Radial†	-475.9	-51.1	-20.542 ug/L	-20.542 ppb	20:53:02
3	Sr 421.552†	24.3	-16.9	-0.1536 ug/L	-0.1536 ppb	20:53:02
3	Sc 361.383	790190.1	790190.1	107.83 %		20:54:19
3	Y 371.029	649430.0	649430.0	107.45 %		20:54:19
3	Ag 328.068†	164.3	0.2	-0.0023 ug/L	-0.0023 ppb	20:54:19
3	As 188.979†	-21.1	2.8	1.6747 ug/L	1.6747 ppb	20:54:40
3	B 249.677†	279.0	593.7	17.871 ug/L	17.871 ppb	20:54:40
3	Ba 233.527†	3.1	0.3	0.0045 ug/L	0.0045 ppb	20:54:40
3	Be 313.107†	-3988.4	192.9	0.0903 ug/L	0.0903 ppb	20:54:19
3	Cd 226.502†	-153.3	29.0	0.4724 ug/L	0.4724 ppb	20:54:40
3	Co 228.616†	-36.6	12.8	0.3681 ug/L	0.3681 ppb	20:54:40
3	Cr 267.716†	128.6	24.2	0.3691 ug/L	0.3691 ppb	20:54:40
3	Cu 324.752†	6055.4	-101.3	-0.3638 ug/L	-0.3638 ppb	20:54:19
3	Mn 257.610†	461.2	2.2	0.0011 ug/L	0.0011 ppb	20:54:40
3	Mo 202.031†	21.4	3.1	0.3147 ug/L	0.3147 ppb	20:54:40
3	Ni 231.604†	83.8	-4.8	-0.1736 ug/L	-0.1736 ppb	20:54:40
3	P 214.914†	191.8	-10.6	-8.4841 ug/L	-8.4841 ppb	20:54:40
3	Pb 220.353†	-54.2	-1.1	-0.1928 ug/L	-0.1928 ppb	20:54:40
3	S 181.975 Axial†	32.9	3.4	6.6178 ug/L	6.6178 ppb	20:54:40
3	Sb 206.836†	29.7	2.0	0.9304 ug/L	0.9304 ppb	20:54:40
3	Se 196.026†	-16.1	6.8	6.0542 ug/L	6.0542 ppb	20:54:40
3	Si 251.611†	515.8	22.6	0.9297 ug/L	0.9297 ppb	20:54:40
3	Sn 189.927†	18.7	3.7	0.9445 ug/L	0.9445 ppb	20:54:40
3	Ti 334.940†	-1062.0	59.5	0.1104 ug/L	0.1104 ppb	20:54:19
3	Tl 190.801†	-19.2	4.4	1.9033 ug/L	1.9033 ppb	20:54:40
3	U 409.014†	-1909.4	63.2	2.1512 ug/L	2.1512 ppb	20:54:19
3	V 292.402†	-1401.6	80.8	0.7361 ug/L	0.7361 ppb	20:54:19
3	Zn 213.857†	708.0	-3.2	-0.0392 ug/L	-0.0392 ppb	20:54:40
3	SiO2†	510.0	9.0	0.7825 ug/L	0.7825 ppb	20:55:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794618.7	108.44 %	1.115			1.03%
Sc Radial	4095.5	108 %	1.8			1.64%
Y 371.029	653409.1	108.10 %	1.164			1.08%
Y RADIAL	4505.7	110.4 %	3.01			2.73%
Ag 328.068†	36.0	0.1982 ug/L	0.19536	0.1982 ppb	0.19536	98.57%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.7	5.5472 ug/L	6.86863	5.5472 ppb	6.86863	123.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.5	0.9050 ug/L	1.49416	0.9050 ppb	1.49416	165.10%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	600.9	18.090 ug/L	0.2602	18.090 ppb	0.2602	1.44%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.5	0.1221 ug/L	0.12997	0.1221 ppb	0.12997	106.44%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	227.8	0.1068 ug/L	0.01649	0.1068 ppb	0.01649	15.44%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.5	-3.4113 ug/L	7.26941	-3.4113 ppb	7.26941	213.10%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	30.3	0.4956 ug/L	0.05394	0.4956 ppb	0.05394	10.88%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.7	0.1647 ug/L	0.27636	0.1647 ppb	0.27636	167.79%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	25.2	0.3837 ug/L	0.04902	0.3837 ppb	0.04902	12.78%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-113.2	-0.4073 ug/L	0.04279	-0.4073 ppb	0.04279	10.51%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.9	-24.721 ug/L	10.3472	-24.721 ppb	10.3472	41.86%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-121.9	-26.890 ug/L	6.0100	-26.890 ppb	6.0100	22.35%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.1	-5.9241 ug/L	16.29475	-5.9241 ppb	16.29475	275.06%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-12.9	-0.0210 ug/L	0.02502	-0.0210 ppb	0.02502	119.39%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-0.5	-0.0563 ug/L	0.66203	-0.0563 ppb	0.66203	>999.9%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-92.7	-37.284 ug/L	15.6130	-37.284 ppb	15.6130	41.88%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-6.3	-0.2269 ug/L	0.40224	-0.2269 ppb	0.40224	177.24%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-13.3	-10.675 ug/L	1.9159	-10.675 ppb	1.9159	17.95%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.5	-0.0892 ug/L	1.06116	-0.0892 ppb	1.06116	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.3	6.3720 ug/L	0.26193	6.3720 ppb	0.26193	4.11%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	0.6	0.2841 ug/L	1.77933	0.2841 ppb	1.77933	626.33%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	6.2	5.4725 ug/L	4.06727	5.4725 ppb	4.06727	74.32%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	2.5	0.1044 ug/L	0.74339	0.1044 ppb	0.74339	712.26%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.2	0.3040 ug/L	0.77112	0.3040 ppb	0.77112	253.67%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-15.5	-0.1410 ug/L	0.04427	-0.1410 ppb	0.04427	31.39%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	102.5	0.1945 ug/L	0.08286	0.1945 ppb	0.08286	42.59%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.9	2.5236 ug/L	1.41256	2.5236 ppb	1.41256	55.97%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	95.7	3.2560 ug/L	1.09131	3.2560 ppb	1.09131	33.52%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	92.4	0.8384 ug/L	0.17388	0.8384 ppb	0.17388	20.74%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-8.7	-0.1101 ug/L	0.19987	-0.1101 ppb	0.19987	181.49%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	2.9	0.2593 ug/L	0.66617	0.2593 ppb	0.66617	256.91%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/26/2010 21:59:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4240.5	4240.5	112 %		22:01:34
1	Y RADIAL	4594.5	4594.5	112.5 %		22:01:14
1	Al 396.153Radial†	4741.6	4308.6	5102.5 ug/L	5102.5 ppb	22:01:14
1	Ca 317.933Radial†	2635.7	2332.6	5225.9 ug/L	5225.9 ppb	22:01:34
1	Fe 238.204 Radial†	448.5	392.2	5199.8 ug/L	5199.8 ppb	22:01:34
1	K 766.490 Radial†	27512.8	22098.8	4872.4 ug/L	4872.4 ppb	22:01:14
1	Mg 279.077 IEC†	126.3	110.1	5204.7 ug/L	5204.7 ppb	22:01:34
1	Na 589.592 Radial†	28540.3	25881.4	10408 ug/L	10408 ppb	22:01:14
1	Sr 421.552†	61349.8	54764.7	497.15 ug/L	497.15 ppb	22:01:14
1	Sc 361.383	840963.2	840963.2	114.76 %		22:02:32
1	Y 371.029	684325.7	684325.7	113.22 %		22:02:32
1	Ag 328.068†	102434.5	89108.1	510.13 ug/L	510.13 ppb	22:02:37
1	As 188.979†	936.1	838.0	513.06 ug/L	513.06 ppb	22:02:57
1	B 249.677†	19065.4	16948.4	507.81 ug/L	507.81 ppb	22:02:37
1	Ba 233.527†	55257.4	48148.1	505.91 ug/L	505.91 ppb	22:02:37
1	Be 313.107†	1244313.0	1088171.3	509.17 ug/L	509.17 ppb	22:02:32
1	Cd 226.502†	35635.6	31223.6	507.22 ug/L	507.22 ppb	22:02:37
1	Co 228.616†	20544.8	17949.2	515.85 ug/L	515.85 ppb	22:02:37
1	Cr 267.716†	37917.3	32945.6	505.46 ug/L	505.46 ppb	22:02:37
1	Cu 324.752†	166975.1	139783.2	498.98 ug/L	498.98 ppb	22:02:37
1	Mn 257.610†	395951.0	344601.5	503.26 ug/L	503.26 ppb	22:02:32
1	Mo 202.031†	5737.5	4982.8	503.63 ug/L	503.63 ppb	22:02:57
1	Ni 231.604†	16504.9	14299.6	512.74 ug/L	512.74 ppb	22:02:37
1	P 214.914†	3783.9	3108.7	2415.6 ug/L	2415.6 ppb	22:02:57
1	Pb 220.353†	3278.9	2906.3	504.15 ug/L	504.15 ppb	22:02:57
1	S 181.975 Axial†	636.1	527.2	1024.2 ug/L	1024.2 ppb	22:02:57
1	Sb 206.836†	1281.5	1091.1	524.16 ug/L	524.16 ppb	22:02:57
1	Se 196.026†	621.5	563.3	523.60 ug/L	523.60 ppb	22:02:57
1	Si 251.611†	71353.8	61721.1	2543.7 ug/L	2543.7 ppb	22:02:37
1	Sn 189.927†	2302.6	1992.8	505.85 ug/L	505.85 ppb	22:02:57
1	Ti 334.940†	297765.0	260513.2	498.06 ug/L	498.06 ppb	22:02:37
1	Tl 190.801†	1313.6	1166.9	506.54 ug/L	506.54 ppb	22:02:57
1	U 409.014†	15124.3	15013.1	508.80 ug/L	508.80 ppb	22:02:37
1	V 292.402†	62783.5	56089.4	510.30 ug/L	510.30 ppb	22:02:37
1	Zn 213.857†	44403.8	38033.2	503.14 ug/L	503.14 ppb	22:02:37
1	SiO2†	71645.0	61966.6	5440.2 ug/L	5440.2 ppb	22:04:04
2	Sc Radial	4199.8	4199.8	111 %		22:01:59
2	Y RADIAL	4612.6	4612.6	113.0 %		22:01:39
2	Al 396.153Radial†	4754.3	4361.0	5164.5 ug/L	5164.5 ppb	22:01:39
2	Ca 317.933Radial†	2612.6	2334.5	5230.2 ug/L	5230.2 ppb	22:01:59
2	Fe 238.204 Radial†	440.9	389.2	5160.6 ug/L	5160.6 ppb	22:01:59
2	K 766.490 Radial†	27531.4	22353.4	4928.5 ug/L	4928.5 ppb	22:01:39
2	Mg 279.077 IEC†	125.9	110.7	5237.7 ug/L	5237.7 ppb	22:01:59
2	Na 589.592 Radial†	28533.0	26121.7	10504 ug/L	10504 ppb	22:01:39
2	Sr 421.552†	61614.6	55533.9	504.13 ug/L	504.13 ppb	22:01:39
2	Sc 361.383	837809.8	837809.8	114.33 %		22:03:03
2	Y 371.029	681039.7	681039.7	112.68 %		22:03:03
2	Ag 328.068†	103497.9	90374.1	517.34 ug/L	517.34 ppb	22:03:08
2	As 188.979†	942.3	846.5	518.26 ug/L	518.26 ppb	22:03:28
2	B 249.677†	19215.6	17142.3	513.63 ug/L	513.63 ppb	22:03:08
2	Ba 233.527†	55930.8	48918.3	514.00 ug/L	514.00 ppb	22:03:08
2	Be 313.107†	1239360.1	1087920.2	509.08 ug/L	509.08 ppb	22:03:03
2	Cd 226.502†	35978.9	31640.7	514.01 ug/L	514.01 ppb	22:03:08
2	Co 228.616†	20779.3	18221.7	523.68 ug/L	523.68 ppb	22:03:08
2	Cr 267.716†	38388.2	33481.9	513.68 ug/L	513.68 ppb	22:03:08
2	Cu 324.752†	169328.8	142389.5	508.28 ug/L	508.28 ppb	22:03:08
2	Mn 257.610†	394909.4	344989.1	503.82 ug/L	503.82 ppb	22:03:03
2	Mo 202.031†	5797.2	5053.9	510.81 ug/L	510.81 ppb	22:03:28
2	Ni 231.604†	16772.1	14587.5	523.06 ug/L	523.06 ppb	22:03:08

2	P 214.914†	3813.9	3147.4	2445.1 ug/L	2445.1 ppb	22:03:28
2	Pb 220.353†	3305.3	2940.1	510.04 ug/L	510.04 ppb	22:03:28
2	S 181.975 Axial†	635.9	529.1	1028.0 ug/L	1028.0 ppb	22:03:28
2	Sb 206.836†	1279.4	1093.4	525.47 ug/L	525.47 ppb	22:03:28
2	Se 196.026†	632.6	575.0	534.05 ug/L	534.05 ppb	22:03:28
2	Si 251.611†	72269.0	62755.6	2586.3 ug/L	2586.3 ppb	22:03:08
2	Sn 189.927†	2312.7	2009.2	510.02 ug/L	510.02 ppb	22:03:28
2	Ti 334.940†	301629.9	264870.3	506.39 ug/L	506.39 ppb	22:03:08
2	Tl 190.801†	1337.5	1192.1	517.43 ug/L	517.43 ppb	22:03:28
2	U 409.014†	15258.4	15180.0	514.46 ug/L	514.46 ppb	22:03:08
2	V 292.402†	63500.0	56922.0	517.89 ug/L	517.89 ppb	22:03:08
2	Zn 213.857†	44906.8	38618.7	510.88 ug/L	510.88 ppb	22:03:08
2	SiO2†	70920.6	61568.0	5404.9 ug/L	5404.9 ppb	22:04:09
3	Sc Radial	4261.8	4261.8	113 %		22:02:24
3	Y RADIAL	4716.8	4716.8	115.5 %		22:02:04
3	Al 396.153Radial†	4836.7	4371.8	5177.5 ug/L	5177.5 ppb	22:02:04
3	Ca 317.933Radial†	2657.8	2340.4	5243.3 ug/L	5243.3 ppb	22:02:24
3	Fe 238.204 Radial†	450.7	392.2	5199.7 ug/L	5199.7 ppb	22:02:24
3	K 766.490 Radial†	27944.4	22359.1	4929.8 ug/L	4929.8 ppb	22:02:04
3	Mg 279.077 IEC†	128.4	111.3	5264.5 ug/L	5264.5 ppb	22:02:24
3	Na 589.592 Radial†	28835.8	26016.3	10462 ug/L	10462 ppb	22:02:04
3	Sr 421.552†	62489.7	55503.0	503.85 ug/L	503.85 ppb	22:02:04
3	Sc 361.383	834802.6	834802.6	113.92 %		22:03:34
3	Y 371.029	680824.7	680824.7	112.64 %		22:03:34
3	Ag 328.068†	102100.1	89473.2	512.22 ug/L	512.22 ppb	22:03:39
3	As 188.979†	945.7	852.4	521.84 ug/L	521.84 ppb	22:03:59
3	B 249.677†	18923.7	16946.5	507.75 ug/L	507.75 ppb	22:03:39
3	Ba 233.527†	55041.8	48314.2	507.66 ug/L	507.66 ppb	22:03:39
3	Be 313.107†	1234800.7	1087822.8	509.02 ug/L	509.02 ppb	22:03:34
3	Cd 226.502†	35408.8	31253.7	507.71 ug/L	507.71 ppb	22:03:39
3	Co 228.616†	20400.9	17955.0	516.02 ug/L	516.02 ppb	22:03:39
3	Cr 267.716†	37876.1	33153.3	508.65 ug/L	508.65 ppb	22:03:39
3	Cu 324.752†	166656.1	140576.9	501.81 ug/L	501.81 ppb	22:03:39
3	Mn 257.610†	391719.4	343433.1	501.55 ug/L	501.55 ppb	22:03:34
3	Mo 202.031†	5755.9	5035.9	508.99 ug/L	508.99 ppb	22:03:59
3	Ni 231.604†	16457.9	14364.5	515.06 ug/L	515.06 ppb	22:03:39
3	P 214.914†	3769.1	3120.1	2424.3 ug/L	2424.3 ppb	22:03:59
3	Pb 220.353†	3290.0	2937.1	509.51 ug/L	509.51 ppb	22:03:59
3	S 181.975 Axial†	641.2	535.8	1040.8 ug/L	1040.8 ppb	22:03:59
3	Sb 206.836†	1283.2	1100.8	528.90 ug/L	528.90 ppb	22:03:59
3	Se 196.026†	624.4	569.8	529.49 ug/L	529.49 ppb	22:03:59
3	Si 251.611†	71014.8	61882.4	2550.3 ug/L	2550.3 ppb	22:03:39
3	Sn 189.927†	2315.4	2018.9	512.47 ug/L	512.47 ppb	22:03:59
3	Ti 334.940†	297114.1	261856.7	500.63 ug/L	500.63 ppb	22:03:39
3	Tl 190.801†	1312.6	1174.5	509.81 ug/L	509.81 ppb	22:03:59
3	U 409.014†	14900.7	14914.1	505.42 ug/L	505.42 ppb	22:03:39
3	V 292.402†	62680.2	56402.4	513.18 ug/L	513.18 ppb	22:03:39
3	Zn 213.857†	44254.5	38187.6	505.18 ug/L	505.18 ppb	22:03:39
3	SiO2†	71264.5	62093.3	5451.2 ug/L	5451.2 ppb	22:04:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837858.5	114.34 %	0.420			0.37%
Sc Radial	4234.0	112 %	0.8			0.74%
Y 371.029	682063.4	112.84 %	0.325			0.29%
Y RADIAL	4641.3	113.7 %	1.62			1.42%
Ag 328.068†	89651.8	513.23 ug/L	3.713	513.23 ppb	3.713	0.72%
QC value within limits for Ag 328.068 Recovery = 102.65%						
Al 396.153Radial†	4347.1	5148.2 ug/L	40.07	5148.2 ppb	40.07	0.78%
QC value within limits for Al 396.153Radial Recovery = 102.96%						
As 188.979†	845.6	517.72 ug/L	4.415	517.72 ppb	4.415	0.85%
QC value within limits for As 188.979 Recovery = 103.54%						
B 249.677†	17012.4	509.73 ug/L	3.376	509.73 ppb	3.376	0.66%
QC value within limits for B 249.677 Recovery = 101.95%						
Ba 233.527†	48460.2	509.19 ug/L	4.256	509.19 ppb	4.256	0.84%
QC value within limits for Ba 233.527 Recovery = 101.84%						
Be 313.107†	1087971.4	509.09 ug/L	0.079	509.09 ppb	0.079	0.02%
QC value within limits for Be 313.107 Recovery = 101.82%						
Ca 317.933Radial†	2335.8	5233.1 ug/L	9.09	5233.1 ppb	9.09	0.17%

QC value within limits for Ca 317.933 Radial Recovery = 104.66%

Cd 226.502†	31372.7	509.65 ug/L	3.786	509.65 ppb	3.786	0.74%
QC value within limits for Cd 226.502 Recovery = 101.93%						
Co 228.616†	18042.0	518.52 ug/L	4.473	518.52 ppb	4.473	0.86%
QC value within limits for Co 228.616 Recovery = 103.70%						
Cr 267.716†	33193.6	509.26 ug/L	4.142	509.26 ppb	4.142	0.81%
QC value within limits for Cr 267.716 Recovery = 101.85%						
Cu 324.752†	140916.5	503.02 ug/L	4.766	503.02 ppb	4.766	0.95%
QC value within limits for Cu 324.752 Recovery = 100.60%						
Fe 238.204 Radial†	391.2	5186.7 ug/L	22.62	5186.7 ppb	22.62	0.44%
QC value within limits for Fe 238.204 Radial Recovery = 103.73%						
K 766.490 Radial†	22270.4	4910.2 ug/L	32.80	4910.2 ppb	32.80	0.67%
QC value within limits for K 766.490 Radial Recovery = 98.20%						
Mg 279.077 IEC†	110.7	5235.6 ug/L	29.97	5235.6 ppb	29.97	0.57%
QC value within limits for Mg 279.077 IEC Recovery = 104.71%						
Mn 257.610†	344341.2	502.88 ug/L	1.181	502.88 ppb	1.181	0.23%
QC value within limits for Mn 257.610 Recovery = 100.58%						
Mo 202.031†	5024.2	507.81 ug/L	3.730	507.81 ppb	3.730	0.73%
QC value within limits for Mo 202.031 Recovery = 101.56%						
Na 589.592 Radial†	26006.4	10458 ug/L	48.4	10458 ppb	48.4	0.46%
QC value within limits for Na 589.592 Radial Recovery = 104.58%						
Ni 231.604†	14417.2	516.95 ug/L	5.414	516.95 ppb	5.414	1.05%
QC value within limits for Ni 231.604 Recovery = 103.39%						
P 214.914†	3125.4	2428.3 ug/L	15.15	2428.3 ppb	15.15	0.62%
QC value within limits for P 214.914 Recovery = 97.13%						
Pb 220.353†	2927.8	507.90 ug/L	3.257	507.90 ppb	3.257	0.64%
QC value within limits for Pb 220.353 Recovery = 101.58%						
S 181.975 Axial†	530.7	1031.0 ug/L	8.73	1031.0 ppb	8.73	0.85%
QC value within limits for S 181.975 Axial Recovery = 103.10%						
Sb 206.836†	1095.1	526.18 ug/L	2.447	526.18 ppb	2.447	0.47%
QC value within limits for Sb 206.836 Recovery = 105.24%						
Se 196.026†	569.4	529.04 ug/L	5.239	529.04 ppb	5.239	0.99%
QC value within limits for Se 196.026 Recovery = 105.81%						
Si 251.611†	62119.7	2560.1 ug/L	22.96	2560.1 ppb	22.96	0.90%
QC value within limits for Si 251.611 Recovery = 102.40%						
Sn 189.927†	2007.0	509.45 ug/L	3.344	509.45 ppb	3.344	0.66%
QC value within limits for Sn 189.927 Recovery = 101.89%						
Sr 421.552†	55267.2	501.71 ug/L	3.954	501.71 ppb	3.954	0.79%
QC value within limits for Sr 421.552 Recovery = 100.34%						
Ti 334.940†	262413.4	501.69 ug/L	4.263	501.69 ppb	4.263	0.85%
QC value within limits for Ti 334.940 Recovery = 100.34%						
Tl 190.801†	1177.8	511.26 ug/L	5.588	511.26 ppb	5.588	1.09%
QC value within limits for Tl 190.801 Recovery = 102.25%						
U 409.014†	15035.7	509.56 ug/L	4.565	509.56 ppb	4.565	0.90%
QC value within limits for U 409.014 Recovery = 101.91%						
V 292.402†	56471.3	513.79 ug/L	3.828	513.79 ppb	3.828	0.75%
QC value within limits for V 292.402 Recovery = 102.76%						
Zn 213.857†	38279.8	506.40 ug/L	4.014	506.40 ppb	4.014	0.79%
QC value within limits for Zn 213.857 Recovery = 101.28%						
SiO2†	61876.0	5432.1 ug/L	24.18	5432.1 ppb	24.18	0.45%
QC value within limits for SiO2 Recovery = 101.58%						

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/26/2010 22:06:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4140.6	4140.6	109 %		22:08:36
1	Y RADIAL	4645.1	4645.1	113.8 %		22:08:16
1	Al 396.153Radial†	-69.4	9.3	11.142 ug/L	11.142 ppb	22:08:36
1	Ca 317.933Radial†	24.2	0.2	0.4976 ug/L	0.4976 ppb	22:08:36
1	Fe 238.204 Radial†	7.8	-1.3	-17.703 ug/L	-17.703 ppb	22:08:36
1	K 766.490 Radial†	2537.2	-157.4	-34.740 ug/L	-34.740 ppb	22:08:16
1	Mg 279.077 IEC†	0.7	-2.2	-102.06 ug/L	-102.06 ppb	22:08:36
1	Na 589.592 Radial†	-525.0	-94.0	-37.797 ug/L	-37.797 ppb	22:08:16
1	Sr 421.552†	67.8	22.8	0.2066 ug/L	0.2066 ppb	22:08:16
1	Sc 361.383	826714.8	826714.8	112.82 %		22:09:33
1	Y 371.029	678959.1	678959.1	112.33 %		22:09:33
1	Ag 328.068†	280.4	96.4	0.5443 ug/L	0.5443 ppb	22:09:33
1	As 188.979†	-29.1	-3.5	-2.1487 ug/L	-2.1487 ppb	22:09:53
1	B 249.677†	-59.9	281.9	8.4860 ug/L	8.4860 ppb	22:09:53
1	Ba 233.527†	11.2	7.4	0.0789 ug/L	0.0789 ppb	22:09:53
1	Be 313.107†	-4023.0	325.6	0.1523 ug/L	0.1523 ppb	22:09:33
1	Cd 226.502†	-169.1	21.3	0.3481 ug/L	0.3481 ppb	22:09:53
1	Co 228.616†	-39.7	11.5	0.3302 ug/L	0.3302 ppb	22:09:53
1	Cr 267.716†	133.2	23.0	0.3502 ug/L	0.3502 ppb	22:09:53
1	Cu 324.752†	6074.8	-332.2	-1.1886 ug/L	-1.1886 ppb	22:09:33
1	Mn 257.610†	447.0	-29.3	-0.0404 ug/L	-0.0404 ppb	22:09:53
1	Mo 202.031†	15.2	-3.2	-0.3291 ug/L	-0.3291 ppb	22:09:53
1	Ni 231.604†	88.0	-4.6	-0.1636 ug/L	-0.1636 ppb	22:09:53
1	P 214.914†	199.2	-11.9	-9.3656 ug/L	-9.3656 ppb	22:09:53
1	Pb 220.353†	-43.4	10.6	1.8447 ug/L	1.8447 ppb	22:09:53
1	S 181.975 Axial†	28.6	-1.7	-3.3243 ug/L	-3.3243 ppb	22:09:53
1	Sb 206.836†	29.3	0.3	0.1149 ug/L	0.1149 ppb	22:09:53
1	Se 196.026†	-20.4	3.7	3.2536 ug/L	3.2536 ppb	22:09:53
1	Si 251.611†	493.5	-18.3	-0.7517 ug/L	-0.7517 ppb	22:09:53
1	Sn 189.927†	4.4	-9.7	-2.4666 ug/L	-2.4666 ppb	22:09:53
1	Ti 334.940†	-1104.9	64.9	0.1310 ug/L	0.1310 ppb	22:09:33
1	Tl 190.801†	-17.1	7.1	3.0639 ug/L	3.0639 ppb	22:09:53
1	U 409.014†	-1966.4	91.0	3.0952 ug/L	3.0952 ppb	22:09:33
1	V 292.402†	-1432.6	110.7	0.9955 ug/L	0.9955 ppb	22:09:33
1	Zn 213.857†	628.5	-102.7	-1.3663 ug/L	-1.3663 ppb	22:09:53
1	SiO2†	499.6	-21.1	-1.8503 ug/L	-1.8503 ppb	22:11:04
2	Sc Radial	4159.1	4159.1	110 %		22:09:01
2	Y RADIAL	4712.8	4712.8	115.4 %		22:08:41
2	Al 396.153Radial†	-75.2	4.4	5.1844 ug/L	5.1844 ppb	22:09:01
2	Ca 317.933Radial†	25.9	1.7	3.7283 ug/L	3.7283 ppb	22:09:01
2	Fe 238.204 Radial†	6.9	-2.2	-29.025 ug/L	-29.025 ppb	22:09:01
2	K 766.490 Radial†	2524.9	-178.9	-39.477 ug/L	-39.477 ppb	22:08:41
2	Mg 279.077 IEC†	0.5	-2.4	-113.37 ug/L	-113.37 ppb	22:09:01
2	Na 589.592 Radial†	-523.7	-90.7	-36.454 ug/L	-36.454 ppb	22:08:41
2	Sr 421.552†	44.2	1.0	0.0088 ug/L	0.0088 ppb	22:08:41
2	Sc 361.383	828154.1	828154.1	113.01 %		22:09:58
2	Y 371.029	680992.4	680992.4	112.67 %		22:09:58
2	Ag 328.068†	278.0	93.8	0.5249 ug/L	0.5249 ppb	22:09:58
2	As 188.979†	-16.6	7.6	4.5962 ug/L	4.5962 ppb	22:10:18
2	B 249.677†	-31.9	306.8	9.2378 ug/L	9.2378 ppb	22:10:18
2	Ba 233.527†	13.8	9.7	0.1037 ug/L	0.1037 ppb	22:10:18
2	Be 313.107†	-3975.3	374.0	0.1753 ug/L	0.1753 ppb	22:09:58
2	Cd 226.502†	-165.0	25.2	0.4128 ug/L	0.4128 ppb	22:10:18
2	Co 228.616†	-44.3	7.5	0.2168 ug/L	0.2168 ppb	22:10:18
2	Cr 267.716†	109.4	1.7	0.0227 ug/L	0.0227 ppb	22:10:18
2	Cu 324.752†	5961.3	-442.0	-1.5832 ug/L	-1.5832 ppb	22:09:58
2	Mn 257.610†	436.6	-39.2	-0.0555 ug/L	-0.0555 ppb	22:10:18
2	Mo 202.031†	23.4	4.0	0.4015 ug/L	0.4015 ppb	22:10:18
2	Ni 231.604†	64.7	-25.3	-0.9089 ug/L	-0.9089 ppb	22:10:18

2	P 214.914†	181.0	-28.3	-22.556 ug/L	-22.556 ppb	22:10:18
2	Pb 220.353†	-59.0	-3.1	-0.5309 ug/L	-0.5309 ppb	22:10:18
2	S 181.975 Axial†	28.3	-2.1	-4.0744 ug/L	-4.0744 ppb	22:10:18
2	Sb 206.836†	25.6	-3.0	-1.3970 ug/L	-1.3970 ppb	22:10:18
2	Se 196.026†	-17.0	6.7	5.9487 ug/L	5.9487 ppb	22:10:18
2	Si 251.611†	486.3	-25.4	-1.0553 ug/L	-1.0553 ppb	22:10:18
2	Sn 189.927†	6.9	-7.5	-1.9081 ug/L	-1.9081 ppb	22:10:18
2	Ti 334.940†	-990.6	167.8	0.3276 ug/L	0.3276 ppb	22:09:58
2	Tl 190.801†	-27.0	-1.6	-0.6897 ug/L	-0.6897 ppb	22:10:18
2	U 409.014†	-1838.0	207.7	7.0649 ug/L	7.0649 ppb	22:09:58
2	V 292.402†	-1372.2	166.4	1.5148 ug/L	1.5148 ppb	22:09:58
2	Zn 213.857†	609.6	-120.4	-1.5957 ug/L	-1.5957 ppb	22:10:18
2	SiO2†	501.1	-20.5	-1.8186 ug/L	-1.8186 ppb	22:11:24
3	Sc Radial	4131.9	4131.9	109 %		22:09:26
3	Y RADIAL	4583.1	4583.1	112.3 %		22:09:06
3	Al 396.153Radial†	-65.8	12.5	14.923 ug/L	14.923 ppb	22:09:26
3	Ca 317.933Radial†	22.0	-1.8	-4.0218 ug/L	-4.0218 ppb	22:09:26
3	Fe 238.204 Radial†	8.0	-1.1	-14.362 ug/L	-14.362 ppb	22:09:26
3	K 766.490 Radial†	2544.9	-145.4	-32.089 ug/L	-32.089 ppb	22:09:06
3	Mg 279.077 IEC†	2.9	-0.2	-8.1053 ug/L	-8.1053 ppb	22:09:26
3	Na 589.592 Radial†	-551.8	-119.6	-48.088 ug/L	-48.088 ppb	22:09:06
3	Sr 421.552†	11.4	-28.8	-0.2613 ug/L	-0.2613 ppb	22:09:06
3	Sc 361.383	815508.0	815508.0	111.29 %		22:10:24
3	Y 371.029	671126.6	671126.6	111.04 %		22:10:24
3	Ag 328.068†	131.8	-33.7	-0.1980 ug/L	-0.1980 ppb	22:10:24
3	As 188.979†	-29.2	-4.0	-2.4067 ug/L	-2.4067 ppb	22:10:44
3	B 249.677†	-64.8	276.7	8.3316 ug/L	8.3316 ppb	22:10:44
3	Ba 233.527†	0.6	-2.0	-0.0196 ug/L	-0.0196 ppb	22:10:44
3	Be 313.107†	-4062.8	240.8	0.1132 ug/L	0.1132 ppb	22:10:24
3	Cd 226.502†	-166.9	21.2	0.3467 ug/L	0.3467 ppb	22:10:44
3	Co 228.616†	-54.6	-2.4	-0.0700 ug/L	-0.0700 ppb	22:10:44
3	Cr 267.716†	122.4	14.9	0.2257 ug/L	0.2257 ppb	22:10:44
3	Cu 324.752†	6026.6	-301.5	-1.0806 ug/L	-1.0806 ppb	22:10:24
3	Mn 257.610†	443.5	-27.0	-0.0405 ug/L	-0.0405 ppb	22:10:44
3	Mo 202.031†	13.4	-4.7	-0.4736 ug/L	-0.4736 ppb	22:10:44
3	Ni 231.604†	81.8	-9.1	-0.3247 ug/L	-0.3247 ppb	22:10:44
3	P 214.914†	199.8	-8.9	-7.0155 ug/L	-7.0155 ppb	22:10:44
3	Pb 220.353†	-60.9	-5.6	-0.9722 ug/L	-0.9722 ppb	22:10:44
3	S 181.975 Axial†	25.5	-4.2	-8.2024 ug/L	-8.2024 ppb	22:10:44
3	Sb 206.836†	20.6	-7.1	-3.3441 ug/L	-3.3441 ppb	22:10:44
3	Se 196.026†	-18.9	4.7	4.2348 ug/L	4.2348 ppb	22:10:44
3	Si 251.611†	487.3	-17.9	-0.7318 ug/L	-0.7318 ppb	22:10:44
3	Sn 189.927†	8.3	-6.2	-1.5799 ug/L	-1.5799 ppb	22:10:44
3	Ti 334.940†	-953.7	187.3	0.3555 ug/L	0.3555 ppb	22:10:24
3	Tl 190.801†	-16.4	7.6	3.2647 ug/L	3.2647 ppb	22:10:44
3	U 409.014†	-1833.0	186.9	6.3565 ug/L	6.3565 ppb	22:10:24
3	V 292.402†	-1434.2	91.8	0.8311 ug/L	0.8311 ppb	22:10:24
3	Zn 213.857†	601.3	-119.5	-1.5906 ug/L	-1.5906 ppb	22:10:44
3	SiO2†	501.4	-13.4	-1.1702 ug/L	-1.1702 ppb	22:11:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823459.0	112.37 %		0.945			0.84%
Sc Radial	4143.9	109 %		0.4			0.33%
Y 371.029	677026.1	112.01 %		0.862			0.77%
Y RADIAL	4647.0	113.8 %		1.59			1.40%
Ag 328.068†	52.2	0.2904 ug/L		0.42306	0.2904 ppb	0.42306	145.67%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	8.7	10.416 ug/L		4.9095	10.416 ppb	4.9095	47.13%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	0.0	0.0136 ug/L		3.97076	0.0136 ppb	3.97076	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	288.5	8.6851 ug/L		0.48480	8.6851 ppb	0.48480	5.58%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	5.0	0.0544 ug/L		0.06522	0.0544 ppb	0.06522	119.98%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	313.5	0.1470 ug/L		0.03139	0.1470 ppb	0.03139	21.36%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.0	0.0680 ug/L		3.89283	0.0680 ppb	3.89283	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	22.5	0.3692 ug/L	0.03777	0.3692 ppb	0.03777	10.23%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.6	0.1590 ug/L	0.20629	0.1590 ppb	0.20629	129.75%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	13.2	0.1995 ug/L	0.16531	0.1995 ppb	0.16531	82.85%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-358.6	-1.2842 ug/L	0.26457	-1.2842 ppb	0.26457	20.60%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.5	-20.363 ug/L	7.6853	-20.363 ppb	7.6853	37.74%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-160.6	-35.435 ug/L	3.7426	-35.435 ppb	3.7426	10.56%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.6	-74.512 ug/L	57.7873	-74.512 ppb	57.7873	77.55%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-31.9	-0.0455 ug/L	0.00869	-0.0455 ppb	0.00869	19.12%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-1.3	-0.1338 ug/L	0.46913	-0.1338 ppb	0.46913	350.74%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-101.4	-40.780 ug/L	6.3649	-40.780 ppb	6.3649	15.61%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-13.0	-0.4657 ug/L	0.39211	-0.4657 ppb	0.39211	84.19%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-16.4	-12.979 ug/L	8.3766	-12.979 ppb	8.3766	64.54%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	0.6	0.1138 ug/L	1.51507	0.1138 ppb	1.51507	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.7	-5.2004 ug/L	2.62674	-5.2004 ppb	2.62674	50.51%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.3	-1.5421 ug/L	1.73405	-1.5421 ppb	1.73405	112.45%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.0	4.4790 ug/L	1.36404	4.4790 ppb	1.36404	30.45%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-20.5	-0.8463 ug/L	0.18133	-0.8463 ppb	0.18133	21.43%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-7.8	-1.9849 ug/L	0.44833	-1.9849 ppb	0.44833	22.59%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1.7	-0.0153 ug/L	0.23488	-0.0153 ppb	0.23488	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	140.0	0.2714 ug/L	0.12234	0.2714 ppb	0.12234	45.09%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.4	1.8796 ug/L	2.22738	1.8796 ppb	2.22738	118.50%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	161.8	5.5055 ug/L	2.11724	5.5055 ppb	2.11724	38.46%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	123.0	1.1138 ug/L	0.35683	1.1138 ppb	0.35683	32.04%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-114.2	-1.5175 ug/L	0.13103	-1.5175 ppb	0.13103	8.63%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-18.4	-1.6130 ug/L	0.38383	-1.6130 ppb	0.38383	23.80%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 29
 Sample ID: 1202056808|959089|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 46
 Date Collected: 3/26/2010 22:13:55
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056808|959089|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4253.7	4253.7	112 %		22:16:07
1	Y RADIAL	4511.8	4511.8	110.5 %		22:15:47
1	Al 396.153Radial†	-70.8	9.8	11.711 ug/L	11.711 ppb	22:16:07
1	Ca 317.933Radial†	22.9	-1.5	-3.3349 ug/L	-3.3349 ppb	22:16:07
1	Fe 238.204 Radial†	8.8	-0.6	-7.8272 ug/L	-7.8272 ppb	22:16:07
1	K 766.490 Radial†	2480.9	-269.2	-59.429 ug/L	-59.429 ppb	22:15:47
1	Mg 279.077 IEC†	0.8	-2.1	-97.670 ug/L	-97.670 ppb	22:16:07
1	Na 589.592 Radial†	-512.9	-70.4	-28.328 ug/L	-28.328 ppb	22:15:47
1	Sr 421.552†	44.4	0.3	0.0024 ug/L	0.0024 ppb	22:15:47
1	Sc 361.383	830716.8	830716.8	113.36 %		22:17:04
1	Y 371.029	682649.9	682649.9	112.94 %		22:17:04
1	Ag 328.068†	192.7	17.8	0.0965 ug/L	0.0965 ppb	22:17:04
1	As 188.979†	-23.0	2.0	1.2279 ug/L	1.2279 ppb	22:17:24
1	B 249.677†	-116.7	232.1	6.9833 ug/L	6.9833 ppb	22:17:24
1	Ba 233.527†	31.3	25.1	0.2660 ug/L	0.2660 ppb	22:17:24
1	Be 313.107†	-4041.7	326.2	0.1533 ug/L	0.1533 ppb	22:17:04
1	Cd 226.502†	-169.5	21.7	0.3548 ug/L	0.3548 ppb	22:17:24
1	Co 228.616†	-19.4	29.6	0.8488 ug/L	0.8488 ppb	22:17:24
1	Cr 267.716†	153.3	40.2	0.6123 ug/L	0.6123 ppb	22:17:24
1	Cu 324.752†	6130.6	-309.0	-1.1089 ug/L	-1.1089 ppb	22:17:04
1	Mn 257.610†	586.1	91.5	0.1368 ug/L	0.1368 ppb	22:17:24
1	Mo 202.031†	18.9	-0.1	-0.0127 ug/L	-0.0127 ppb	22:17:24
1	Ni 231.604†	96.0	2.2	0.0768 ug/L	0.0768 ppb	22:17:24
1	P 214.914†	186.5	-24.0	-19.153 ug/L	-19.153 ppb	22:17:24
1	Pb 220.353†	-50.0	5.0	0.8698 ug/L	0.8698 ppb	22:17:24
1	S 181.975 Axial†	29.1	-1.4	-2.7897 ug/L	-2.7897 ppb	22:17:24
1	Sb 206.836†	39.2	9.0	4.1363 ug/L	4.1363 ppb	22:17:24
1	Se 196.026†	-13.7	9.7	8.6881 ug/L	8.6881 ppb	22:17:24
1	Si 251.611†	851.6	295.5	12.209 ug/L	12.209 ppb	22:17:24
1	Sn 189.927†	5.1	-9.2	-2.3242 ug/L	-2.3242 ppb	22:17:24
1	Ti 334.940†	-922.8	230.3	0.4433 ug/L	0.4433 ppb	22:17:04
1	Tl 190.801†	-30.1	-4.3	-1.8450 ug/L	-1.8450 ppb	22:17:24
1	U 409.014†	-1742.7	296.7	10.088 ug/L	10.088 ppb	22:17:04
1	V 292.402†	-1379.9	163.4	1.4844 ug/L	1.4844 ppb	22:17:04
1	Zn 213.857†	751.6	3.2	0.0447 ug/L	0.0447 ppb	22:17:24
1	SiO2†	839.1	276.2	24.313 ug/L	24.313 ppb	22:18:20
2	Sc Radial	4188.5	4188.5	111 %		22:16:33
2	Y RADIAL	4526.9	4526.9	110.9 %		22:16:12
2	Al 396.153Radial†	-69.1	10.4	12.333 ug/L	12.333 ppb	22:16:33
2	Ca 317.933Radial†	29.7	5.0	11.150 ug/L	11.150 ppb	22:16:33
2	Fe 238.204 Radial†	8.8	-0.5	-6.4822 ug/L	-6.4822 ppb	22:16:33
2	K 766.490 Radial†	2564.8	-159.0	-35.103 ug/L	-35.103 ppb	22:16:12
2	Mg 279.077 IEC†	3.4	0.3	12.434 ug/L	12.434 ppb	22:16:33
2	Na 589.592 Radial†	-489.9	-56.7	-22.807 ug/L	-22.807 ppb	22:16:12
2	Sr 421.552†	45.4	1.8	0.0159 ug/L	0.0159 ppb	22:16:12
2	Sc 361.383	843335.8	843335.8	115.08 %		22:17:30
2	Y 371.029	692867.1	692867.1	114.63 %		22:17:30
2	Ag 328.068†	224.7	43.1	0.2365 ug/L	0.2365 ppb	22:17:30
2	As 188.979†	-27.6	-1.7	-1.0523 ug/L	-1.0523 ppb	22:17:50
2	B 249.677†	-112.5	237.2	7.1385 ug/L	7.1385 ppb	22:17:50
2	Ba 233.527†	16.9	12.1	0.1284 ug/L	0.1284 ppb	22:17:50
2	Be 313.107†	-4032.3	387.7	0.1821 ug/L	0.1821 ppb	22:17:30
2	Cd 226.502†	-160.1	32.1	0.5238 ug/L	0.5238 ppb	22:17:50
2	Co 228.616†	-35.7	15.7	0.4515 ug/L	0.4515 ppb	22:17:50
2	Cr 267.716†	150.6	35.8	0.5445 ug/L	0.5445 ppb	22:17:50
2	Cu 324.752†	6271.7	-267.2	-0.9608 ug/L	-0.9608 ppb	22:17:30
2	Mn 257.610†	554.8	56.5	0.0814 ug/L	0.0814 ppb	22:17:50
2	Mo 202.031†	22.0	2.4	0.2408 ug/L	0.2408 ppb	22:17:50
2	Ni 231.604†	84.0	-9.6	-0.3433 ug/L	-0.3433 ppb	22:17:50

2	P 214.914†	204.5	-10.7	-8.5018 ug/L	-8.5018 ppb	22:17:50
2	Pb 220.353†	-56.3	0.1	0.0246 ug/L	0.0246 ppb	22:17:50
2	S 181.975 Axial†	27.5	-3.2	-6.2342 ug/L	-6.2342 ppb	22:17:50
2	Sb 206.836†	34.6	4.5	2.0516 ug/L	2.0516 ppb	22:17:50
2	Se 196.026†	-16.1	7.8	6.9883 ug/L	6.9883 ppb	22:17:50
2	Si 251.611†	833.0	268.1	11.072 ug/L	11.072 ppb	22:17:50
2	Sn 189.927†	10.1	-4.9	-1.2387 ug/L	-1.2387 ppb	22:17:50
2	Ti 334.940†	-921.4	243.7	0.4611 ug/L	0.4611 ppb	22:17:30
2	Tl 190.801†	-21.5	3.6	1.5530 ug/L	1.5530 ppb	22:17:50
2	U 409.014†	-1713.8	344.8	11.725 ug/L	11.725 ppb	22:17:30
2	V 292.402†	-1489.0	86.7	0.8051 ug/L	0.8051 ppb	22:17:30
2	Zn 213.857†	765.1	5.0	0.0717 ug/L	0.0717 ppb	22:17:50
2	SiO2†	849.2	273.9	24.101 ug/L	24.101 ppb	22:18:25
3	Sc Radial	4247.0	4247.0	112 %		22:16:58
3	Y RADIAL	4672.3	4672.3	114.4 %		22:16:38
3	Al 396.153Radial†	-67.4	12.8	15.162 ug/L	15.162 ppb	22:16:58
3	Ca 317.933Radial†	31.5	6.2	13.897 ug/L	13.897 ppb	22:16:58
3	Fe 238.204 Radial†	7.7	-1.6	-21.365 ug/L	-21.365 ppb	22:16:58
3	K 766.490 Radial†	2520.6	-230.3	-50.849 ug/L	-50.849 ppb	22:16:38
3	Mg 279.077 IEC†	0.3	-2.6	-122.30 ug/L	-122.30 ppb	22:16:58
3	Na 589.592 Radial†	-465.3	-28.7	-11.529 ug/L	-11.529 ppb	22:16:38
3	Sr 421.552†	53.7	8.7	0.0784 ug/L	0.0784 ppb	22:16:38
3	Sc 361.383	830999.7	830999.7	113.40 %		22:17:55
3	Y 371.029	682462.3	682462.3	112.91 %		22:17:55
3	Ag 328.068†	134.0	-34.0	-0.1999 ug/L	-0.1999 ppb	22:17:55
3	As 188.979†	-26.0	-0.6	-0.3727 ug/L	-0.3727 ppb	22:18:15
3	B 249.677†	-132.1	218.4	6.5775 ug/L	6.5775 ppb	22:18:15
3	Ba 233.527†	37.1	30.2	0.3185 ug/L	0.3185 ppb	22:18:15
3	Be 313.107†	-3909.7	443.9	0.2084 ug/L	0.2084 ppb	22:17:55
3	Cd 226.502†	-171.9	19.6	0.3217 ug/L	0.3217 ppb	22:18:15
3	Co 228.616†	-39.8	11.6	0.3344 ug/L	0.3344 ppb	22:18:15
3	Cr 267.716†	165.6	51.0	0.7776 ug/L	0.7776 ppb	22:18:15
3	Cu 324.752†	6275.7	-182.8	-0.6571 ug/L	-0.6571 ppb	22:17:55
3	Mn 257.610†	580.2	86.1	0.1285 ug/L	0.1285 ppb	22:18:15
3	Mo 202.031†	28.4	8.3	0.8401 ug/L	0.8401 ppb	22:18:15
3	Ni 231.604†	92.1	-1.3	-0.0465 ug/L	-0.0465 ppb	22:18:15
3	P 214.914†	192.2	-19.0	-15.209 ug/L	-15.209 ppb	22:18:15
3	Pb 220.353†	-45.9	8.6	1.4990 ug/L	1.4990 ppb	22:18:15
3	S 181.975 Axial†	31.4	0.6	1.2217 ug/L	1.2217 ppb	22:18:15
3	Sb 206.836†	27.9	-1.0	-0.4749 ug/L	-0.4749 ppb	22:18:15
3	Se 196.026†	-21.6	2.7	2.3645 ug/L	2.3645 ppb	22:18:15
3	Si 251.611†	812.2	260.5	10.752 ug/L	10.752 ppb	22:18:15
3	Sn 189.927†	11.9	-3.2	-0.7976 ug/L	-0.7976 ppb	22:18:15
3	Ti 334.940†	-897.1	253.2	0.4932 ug/L	0.4932 ppb	22:17:55
3	Tl 190.801†	-34.4	-8.1	-3.4798 ug/L	-3.4798 ppb	22:18:15
3	U 409.014†	-1878.4	177.6	6.0396 ug/L	6.0396 ppb	22:17:55
3	V 292.402†	-1400.5	145.6	1.3304 ug/L	1.3304 ppb	22:17:55
3	Zn 213.857†	768.9	18.2	0.2477 ug/L	0.2477 ppb	22:18:15
3	SiO2†	835.3	272.6	23.972 ug/L	23.972 ppb	22:18:30

Mean Data: 1202056808|959089|1

	Mean Corrected	Calib.		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	835017.4	113.95 %	0.983			0.86%
Sc Radial	4229.8	112 %	0.9			0.85%
Y 371.029	685993.1	113.50 %	0.985			0.87%
Y RADIAL	4570.3	111.9 %	2.17			1.94%
Ag 328.068†	9.0	0.0444 ug/L	0.22284	0.0444 ppb	0.22284	502.22%
Al 396.153Radial†	11.0	13.069 ug/L	1.8393	13.069 ppb	1.8393	14.07%
As 188.979†	-0.1	-0.0657 ug/L	1.17066	-0.0657 ppb	1.17066	>999.9%
B 249.677†	229.2	6.8998 ug/L	0.28967	6.8998 ppb	0.28967	4.20%
Ba 233.527†	22.5	0.2376 ug/L	0.09814	0.2376 ppb	0.09814	41.30%
Be 313.107†	386.0	0.1813 ug/L	0.02753	0.1813 ppb	0.02753	15.19%
Ca 317.933Radial†	3.2	7.2374 ug/L	9.25830	7.2374 ppb	9.25830	127.92%
Cd 226.502†	24.4	0.4001 ug/L	0.10840	0.4001 ppb	0.10840	27.09%
Co 228.616†	19.0	0.5449 ug/L	0.26962	0.5449 ppb	0.26962	49.48%
Cr 267.716†	42.3	0.6448 ug/L	0.11993	0.6448 ppb	0.11993	18.60%
Cu 324.752†	-253.0	-0.9089 ug/L	0.23036	-0.9089 ppb	0.23036	25.34%
Fe 238.204 Radial†	-0.9	-11.892 ug/L	8.2320	-11.892 ppb	8.2320	69.23%
K 766.490 Radial†	-219.5	-48.460 ug/L	12.3380	-48.460 ppb	12.3380	25.46%

Mg 279.077 IEC†	-1.5	-69.178 ug/L	71.7431	-69.178 ppb	71.7431	103.71%
Mn 257.610†	78.0	0.1156 ug/L	0.02989	0.1156 ppb	0.02989	25.87%
Mo 202.031†	3.5	0.3561 ug/L	0.43795	0.3561 ppb	0.43795	123.00%
Na 589.592 Radial†	-51.9	-20.888 ug/L	8.5621	-20.888 ppb	8.5621	40.99%
Ni 231.604†	-2.9	-0.1043 ug/L	0.21593	-0.1043 ppb	0.21593	206.98%
P 214.914†	-17.9	-14.288 ug/L	5.3850	-14.288 ppb	5.3850	37.69%
Pb 220.353†	4.6	0.7978 ug/L	0.73985	0.7978 ppb	0.73985	92.74%
S 181.975 Axial†	-1.3	-2.6007 ug/L	3.73158	-2.6007 ppb	3.73158	143.48%
Sb 206.836†	4.1	1.9043 ug/L	2.30913	1.9043 ppb	2.30913	121.26%
Se 196.026†	6.7	6.0136 ug/L	3.27252	6.0136 ppb	3.27252	54.42%
Si 251.611†	274.7	11.345 ug/L	0.7658	11.345 ppb	0.7658	6.75%
Sn 189.927†	-5.7	-1.4535 ug/L	0.78560	-1.4535 ppb	0.78560	54.05%
Sr 421.552†	3.6	0.0322 ug/L	0.04057	0.0322 ppb	0.04057	125.83%
Ti 334.940†	242.4	0.4659 ug/L	0.02529	0.4659 ppb	0.02529	5.43%
Tl 190.801†	-2.9	-1.2573 ug/L	2.56739	-1.2573 ppb	2.56739	204.21%
U 409.014†	273.0	9.2842 ug/L	2.92660	9.2842 ppb	2.92660	31.52%
V 292.402†	131.9	1.2066 ug/L	0.35616	1.2066 ppb	0.35616	29.52%
Zn 213.857†	8.8	0.1214 ug/L	0.11025	0.1214 ppb	0.11025	90.83%
SiO2†	274.3	24.129 ug/L	0.1725	24.129 ppb	0.1725	0.71%

Sequence No.: 30

Sample ID: 1202056809|959089|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 3/26/2010 22:20:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056809|959089|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4272.6	4272.6	113 %		22:22:54
1	Y RADIAL	4776.6	4776.6	117.0 %		22:22:34
1	Al 396.153Radial†	5013.2	4517.5	5351.0 ug/L	5351.0 ppb	22:22:34
1	Ca 317.933Radial†	2637.3	2316.3	5189.4 ug/L	5189.4 ppb	22:22:54
1	Fe 238.204 Radial†	435.3	377.4	5004.7 ug/L	5004.7 ppb	22:22:54
1	K 766.490 Radial†	27900.5	22257.7	4909.6 ug/L	4909.6 ppb	22:22:34
1	Mg 279.077 IEC†	127.4	110.1	5207.3 ug/L	5207.3 ppb	22:22:54
1	Na 589.592 Radial†	13537.6	12388.7	4981.8 ug/L	4981.8 ppb	22:22:34
1	Sr 421.552†	61640.4	54610.5	495.75 ug/L	495.75 ppb	22:22:34
1	Sc 361.383	842631.0	842631.0	114.99 %		22:23:52
1	Y 371.029	685006.2	685006.2	113.33 %		22:23:52
1	Ag 328.068†	100330.6	87101.7	498.66 ug/L	498.66 ppb	22:23:57
1	As 188.979†	948.4	847.1	518.54 ug/L	518.54 ppb	22:24:17
1	B 249.677†	19173.7	17009.7	509.70 ug/L	509.70 ppb	22:23:57
1	Ba 233.527†	56584.1	49206.5	517.01 ug/L	517.01 ppb	22:23:57
1	Be 313.107†	1252054.2	1092757.5	511.32 ug/L	511.32 ppb	22:23:52
1	Cd 226.502†	35606.6	31136.9	505.84 ug/L	505.84 ppb	22:23:57
1	Co 228.616†	20404.3	17791.6	511.33 ug/L	511.33 ppb	22:23:57
1	Cr 267.716†	38218.4	33142.1	508.45 ug/L	508.45 ppb	22:23:57
1	Cu 324.752†	171383.7	143329.2	511.62 ug/L	511.62 ppb	22:23:57
1	Mn 257.610†	397935.0	345644.0	504.76 ug/L	504.76 ppb	22:23:52
1	Mo 202.031†	5770.0	5001.2	505.48 ug/L	505.48 ppb	22:24:17
1	Ni 231.604†	16737.5	14473.4	518.97 ug/L	518.97 ppb	22:23:57
1	P 214.914†	1019.6	698.3	464.89 ug/L	464.89 ppb	22:24:17
1	Pb 220.353†	3318.9	2935.4	509.27 ug/L	509.27 ppb	22:24:17
1	S 181.975 Axial†	3090.9	2660.9	5173.3 ug/L	5173.3 ppb	22:24:17
1	Sb 206.836†	1330.8	1131.7	543.15 ug/L	543.15 ppb	22:24:17
1	Se 196.026†	620.8	561.6	521.61 ug/L	521.61 ppb	22:24:17
1	Si 251.611†	139347.8	120730.0	4981.5 ug/L	4981.5 ppb	22:23:57
1	Sn 189.927†	2330.7	2013.2	511.04 ug/L	511.04 ppb	22:24:17
1	Ti 334.940†	298459.5	260603.6	498.22 ug/L	498.22 ppb	22:23:57
1	Tl 190.801†	1323.2	1173.0	509.17 ug/L	509.17 ppb	22:24:17
1	U 409.014†	15719.8	15504.9	525.54 ug/L	525.54 ppb	22:23:57
1	V 292.402†	63789.1	56855.7	517.27 ug/L	517.27 ppb	22:23:57
1	Zn 213.857†	44413.6	37965.1	502.20 ug/L	502.20 ppb	22:23:57
1	SiO2†	137714.3	119301.1	10486 ug/L	10486 ppb	22:25:24
2	Sc Radial	4253.5	4253.5	112 %		22:23:19
2	Y RADIAL	4793.5	4793.5	117.4 %		22:22:59
2	Al 396.153Radial†	5131.3	4642.6	5500.4 ug/L	5500.4 ppb	22:22:59
2	Ca 317.933Radial†	2656.0	2343.4	5250.2 ug/L	5250.2 ppb	22:23:19
2	Fe 238.204 Radial†	440.6	383.9	5090.3 ug/L	5090.3 ppb	22:23:19
2	K 766.490 Radial†	28470.5	22876.3	5046.1 ug/L	5046.1 ppb	22:22:59
2	Mg 279.077 IEC†	127.7	110.9	5247.1 ug/L	5247.1 ppb	22:23:19
2	Na 589.592 Radial†	13725.3	12609.6	5070.7 ug/L	5070.7 ppb	22:22:59
2	Sr 421.552†	62883.5	55962.7	508.02 ug/L	508.02 ppb	22:22:59
2	Sc 361.383	857369.0	857369.0	117.00 %		22:24:23
2	Y 371.029	697895.9	697895.9	115.46 %		22:24:23
2	Ag 328.068†	101243.1	86381.7	494.56 ug/L	494.56 ppb	22:24:28
2	As 188.979†	947.3	832.0	509.40 ug/L	509.40 ppb	22:24:48
2	B 249.677†	19398.4	16915.0	506.86 ug/L	506.86 ppb	22:24:28
2	Ba 233.527†	56927.9	48654.5	511.22 ug/L	511.22 ppb	22:24:28
2	Be 313.107†	1265540.9	1085567.4	507.95 ug/L	507.95 ppb	22:24:23
2	Cd 226.502†	35653.9	30645.0	497.84 ug/L	497.84 ppb	22:24:28
2	Co 228.616†	20423.5	17502.9	503.02 ug/L	503.02 ppb	22:24:28
2	Cr 267.716†	38367.7	32698.4	501.66 ug/L	501.66 ppb	22:24:28
2	Cu 324.752†	173821.1	142850.4	509.91 ug/L	509.91 ppb	22:24:28
2	Mn 257.610†	401414.2	342668.9	500.43 ug/L	500.43 ppb	22:24:23
2	Mo 202.031†	5753.0	4900.4	495.30 ug/L	495.30 ppb	22:24:48
2	Ni 231.604†	16839.7	14310.5	513.13 ug/L	513.13 ppb	22:24:28

2	P 214.914†	1025.7	688.3	457.03 ug/L	457.03 ppb	22:24:48
2	Pb 220.353†	3320.5	2887.2	500.92 ug/L	500.92 ppb	22:24:48
2	S 181.975 Axial†	3089.1	2613.2	5080.5 ug/L	5080.5 ppb	22:24:48
2	Sb 206.836†	1338.9	1118.8	536.79 ug/L	536.79 ppb	22:24:48
2	Se 196.026†	611.8	544.7	506.62 ug/L	506.62 ppb	22:24:48
2	Si 251.611†	140740.8	119837.4	4944.7 ug/L	4944.7 ppb	22:24:28
2	Sn 189.927†	2327.7	1975.9	501.59 ug/L	501.59 ppb	22:24:48
2	Ti 334.940†	301532.0	258768.0	494.72 ug/L	494.72 ppb	22:24:28
2	Tl 190.801†	1327.0	1156.4	502.04 ug/L	502.04 ppb	22:24:48
2	U 409.014†	16331.7	15793.0	535.34 ug/L	535.34 ppb	22:24:28
2	V 292.402†	64208.2	56260.3	511.79 ug/L	511.79 ppb	22:24:28
2	Zn 213.857†	44623.0	37480.0	495.75 ug/L	495.75 ppb	22:24:28
2	SiO2†	142255.2	121123.5	10647 ug/L	10647 ppb	22:25:30
3	Sc Radial	4350.8	4350.8	115 %		22:23:45
3	Y RADIAL	4651.9	4651.9	113.9 %		22:23:24
3	Al 396.153Radial†	5020.2	4443.7	5263.6 ug/L	5263.6 ppb	22:23:24
3	Ca 317.933Radial†	2715.8	2342.6	5248.3 ug/L	5248.3 ppb	22:23:45
3	Fe 238.204 Radial†	453.4	386.3	5121.7 ug/L	5121.7 ppb	22:23:45
3	K 766.490 Radial†	28182.7	22058.8	4865.7 ug/L	4865.7 ppb	22:23:24
3	Mg 279.077 IEC†	126.7	107.5	5085.7 ug/L	5085.7 ppb	22:23:45
3	Na 589.592 Radial†	13430.2	12079.3	4857.5 ug/L	4857.5 ppb	22:23:24
3	Sr 421.552†	61587.3	53581.9	486.41 ug/L	486.41 ppb	22:23:24
3	Sc 361.383	847720.4	847720.4	115.68 %		22:24:54
3	Y 371.029	689626.0	689626.0	114.10 %		22:24:54
3	Ag 328.068†	99085.1	85501.2	489.56 ug/L	489.56 ppb	22:24:59
3	As 188.979†	941.4	836.1	511.85 ug/L	511.85 ppb	22:25:19
3	B 249.677†	18952.4	16718.2	500.93 ug/L	500.93 ppb	22:24:59
3	Ba 233.527†	55942.9	48356.8	508.09 ug/L	508.09 ppb	22:24:59
3	Be 313.107†	1264049.2	1096589.3	513.08 ug/L	513.08 ppb	22:24:54
3	Cd 226.502†	35244.5	30638.0	497.72 ug/L	497.72 ppb	22:24:59
3	Co 228.616†	20155.0	17469.5	502.07 ug/L	502.07 ppb	22:24:59
3	Cr 267.716†	37826.8	32604.0	500.21 ug/L	500.21 ppb	22:24:59
3	Cu 324.752†	169006.7	140379.6	501.10 ug/L	501.10 ppb	22:24:59
3	Mn 257.610†	400964.9	346185.5	505.57 ug/L	505.57 ppb	22:24:54
3	Mo 202.031†	5715.9	4924.3	497.72 ug/L	497.72 ppb	22:25:19
3	Ni 231.604†	16609.3	14275.2	511.87 ug/L	511.87 ppb	22:24:59
3	P 214.914†	1010.4	685.0	456.09 ug/L	456.09 ppb	22:25:19
3	Pb 220.353†	3298.8	2900.7	503.21 ug/L	503.21 ppb	22:25:19
3	S 181.975 Axial†	3073.6	2629.8	5112.9 ug/L	5112.9 ppb	22:25:19
3	Sb 206.836†	1335.0	1128.4	541.37 ug/L	541.37 ppb	22:25:19
3	Se 196.026†	618.7	556.5	517.30 ug/L	517.30 ppb	22:25:19
3	Si 251.611†	137685.0	118565.0	4892.1 ug/L	4892.1 ppb	22:24:59
3	Sn 189.927†	2324.3	1995.6	506.57 ug/L	506.57 ppb	22:25:19
3	Ti 334.940†	294996.0	256051.3	489.54 ug/L	489.54 ppb	22:24:59
3	Tl 190.801†	1321.9	1165.0	505.71 ug/L	505.71 ppb	22:25:19
3	U 409.014†	15747.6	15446.9	523.57 ug/L	523.57 ppb	22:24:59
3	V 292.402†	62970.9	55815.3	507.81 ug/L	507.81 ppb	22:24:59
3	Zn 213.857†	43911.0	37298.7	493.34 ug/L	493.34 ppb	22:24:59
3	SiO2†	140817.0	121264.2	10659 ug/L	10659 ppb	22:25:35

Mean Data: 1202056809|959089|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849240.1	115.89 %		1.021			0.88%
Sc Radial	4292.3	113 %		1.4			1.20%
Y 371.029	690842.7	114.30 %		1.080			0.95%
Y RADIAL	4740.7	116.1 %		1.89			1.63%
Ag 328.068†	86328.2	494.26 ug/L		4.561	494.26 ppb	4.561	0.92%
Al 396.153Radial†	4534.6	5371.7 ug/L		119.71	5371.7 ppb	119.71	2.23%
As 188.979†	838.4	513.27 ug/L		4.731	513.27 ppb	4.731	0.92%
B 249.677†	16881.0	505.83 ug/L		4.472	505.83 ppb	4.472	0.88%
Ba 233.527†	48739.3	512.11 ug/L		4.527	512.11 ppb	4.527	0.88%
Be 313.107†	1091638.1	510.78 ug/L		2.608	510.78 ppb	2.608	0.51%
Ca 317.933Radial†	2334.1	5229.3 ug/L		34.56	5229.3 ppb	34.56	0.66%
Cd 226.502†	30806.7	500.47 ug/L		4.656	500.47 ppb	4.656	0.93%
Co 228.616†	17588.0	505.47 ug/L		5.094	505.47 ppb	5.094	1.01%
Cr 267.716†	32814.8	503.44 ug/L		4.399	503.44 ppb	4.399	0.87%
Cu 324.752†	142186.4	507.54 ug/L		5.646	507.54 ppb	5.646	1.11%
Fe 238.204 Radial†	382.5	5072.2 ug/L		60.52	5072.2 ppb	60.52	1.19%
K 766.490 Radial†	22397.6	4940.5 ug/L		94.09	4940.5 ppb	94.09	1.90%

Mg 279.077 IEC†	109.5	5180.0 ug/L	84.08	5180.0 ppb	84.08	1.62%
Mn 257.610†	344832.8	503.59 ug/L	2.766	503.59 ppb	2.766	0.55%
Mo 202.031†	4942.0	499.50 ug/L	5.316	499.50 ppb	5.316	1.06%
Na 589.592 Radial†	12359.2	4970.0 ug/L	107.10	4970.0 ppb	107.10	2.15%
Ni 231.604†	14353.1	514.66 ug/L	3.790	514.66 ppb	3.790	0.74%
P 214.914†	690.5	459.34 ug/L	4.836	459.34 ppb	4.836	1.05%
Pb 220.353†	2907.8	504.47 ug/L	4.315	504.47 ppb	4.315	0.86%
S 181.975 Axial†	2634.7	5122.2 ug/L	47.10	5122.2 ppb	47.10	0.92%
Sb 206.836†	1126.3	540.44 ug/L	3.283	540.44 ppb	3.283	0.61%
Se 196.026†	554.3	515.18 ug/L	7.717	515.18 ppb	7.717	1.50%
Si 251.611†	119710.8	4939.5 ug/L	44.91	4939.5 ppb	44.91	0.91%
Sn 189.927†	1994.9	506.40 ug/L	4.732	506.40 ppb	4.732	0.93%
Sr 421.552†	54718.3	496.73 ug/L	10.840	496.73 ppb	10.840	2.18%
Ti 334.940†	258474.3	494.16 ug/L	4.369	494.16 ppb	4.369	0.88%
Tl 190.801†	1164.8	505.64 ug/L	3.568	505.64 ppb	3.568	0.71%
U 409.014†	15581.6	528.15 ug/L	6.304	528.15 ppb	6.304	1.19%
V 292.402†	56310.4	512.29 ug/L	4.750	512.29 ppb	4.750	0.93%
Zn 213.857†	37581.3	497.10 ug/L	4.579	497.10 ppb	4.579	0.92%
SiO2†	120562.9	10598 ug/L	96.5	10598 ppb	96.5	0.91%

Sequence No.: 31
 Sample ID: 247997001|959089|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 48
 Date Collected: 3/26/2010 22:27:46
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247997001|959089|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4441.5	4441.5	117 %		22:29:39
1	Y RADIAL	4734.6	4734.6	116.0 %		22:29:39
1	Al 396.153Radial†	-68.2	14.7	17.456 ug/L	17.456 ppb	22:29:59
1	Ca 317.933Radial†	37.7	10.2	22.962 ug/L	22.962 ppb	22:29:59
1	Fe 238.204 Radial†	9.9	-0.0	-0.2013 ug/L	-0.2013 ppb	22:29:59
1	K 766.490 Radial†	3556.3	554.5	122.37 ug/L	122.37 ppb	22:29:39
1	Mg 279.077 IEC†	4.4	0.9	43.428 ug/L	43.428 ppb	22:29:59
1	Na 589.592 Radial†	-126.2	278.7	112.06 ug/L	112.06 ppb	22:29:39
1	Sr 421.552†	58.7	10.8	0.0975 ug/L	0.0975 ppb	22:29:39
1	Sc 361.383	824673.2	824673.2	112.54 %		22:30:56
1	Y 371.029	676733.6	676733.6	111.96 %		22:30:56
1	Ag 328.068†	132.0	-34.9	-0.1975 ug/L	-0.1975 ppb	22:30:56
1	As 188.979†	-25.5	-0.4	-0.2175 ug/L	-0.2175 ppb	22:31:16
1	B 249.677†	854.1	1093.9	32.924 ug/L	32.924 ppb	22:30:56
1	Ba 233.527†	53.3	44.8	0.4722 ug/L	0.4722 ppb	22:31:16
1	Be 313.107†	-3657.4	641.6	0.3005 ug/L	0.3005 ppb	22:30:56
1	Cd 226.502†	-146.9	40.7	0.6615 ug/L	0.6615 ppb	22:31:16
1	Co 228.616†	-32.3	18.0	0.5185 ug/L	0.5185 ppb	22:31:16
1	Cr 267.716†	184.7	69.1	1.0577 ug/L	1.0577 ppb	22:31:16
1	Cu 324.752†	6149.0	-252.9	-0.9055 ug/L	-0.9055 ppb	22:30:56
1	Mn 257.610†	744.7	236.2	0.3430 ug/L	0.3430 ppb	22:31:16
1	Mo 202.031†	27.7	7.8	0.7903 ug/L	0.7903 ppb	22:31:16
1	Ni 231.604†	87.4	-4.9	-0.1744 ug/L	-0.1744 ppb	22:31:16
1	P 214.914†	192.9	-17.0	-13.574 ug/L	-13.574 ppb	22:31:16
1	Pb 220.353†	-43.2	10.7	1.8548 ug/L	1.8548 ppb	22:31:16
1	S 181.975 Axial†	41.0	9.3	18.064 ug/L	18.064 ppb	22:31:16
1	Sb 206.836†	25.0	-3.4	-1.5631 ug/L	-1.5631 ppb	22:31:16
1	Se 196.026†	-10.7	12.2	11.017 ug/L	11.017 ppb	22:31:16
1	Si 251.611†	40558.5	35584.6	1470.1 ug/L	1470.1 ppb	22:30:56
1	Sn 189.927†	15.7	0.3	0.0860 ug/L	0.0860 ppb	22:31:16
1	Ti 334.940†	-939.1	209.9	0.3984 ug/L	0.3984 ppb	22:30:56
1	Tl 190.801†	-22.4	2.4	1.0247 ug/L	1.0247 ppb	22:31:16
1	U 409.014†	-1907.0	139.5	4.7404 ug/L	4.7404 ppb	22:30:56
1	V 292.402†	-1394.7	141.2	1.2884 ug/L	1.2884 ppb	22:30:56
1	Zn 213.857†	816.7	65.9	0.8820 ug/L	0.8820 ppb	22:31:16
1	SiO2†	41660.9	36556.0	3217.4 ug/L	3217.4 ppb	22:32:12
2	Sc Radial	4501.6	4501.6	119 %		22:30:04
2	Y RADIAL	4772.7	4772.7	116.9 %		22:30:04
2	Al 396.153Radial†	-57.0	24.9	29.596 ug/L	29.596 ppb	22:30:24
2	Ca 317.933Radial†	38.1	10.1	22.694 ug/L	22.694 ppb	22:30:24
2	Fe 238.204 Radial†	8.8	-1.0	-13.531 ug/L	-13.531 ppb	22:30:24
2	K 766.490 Radial†	3649.1	592.1	130.67 ug/L	130.67 ppb	22:30:04
2	Mg 279.077 IEC†	1.7	-1.4	-66.815 ug/L	-66.815 ppb	22:30:24
2	Na 589.592 Radial†	-133.0	274.4	110.35 ug/L	110.35 ppb	22:30:04
2	Sr 421.552†	41.2	-4.6	-0.0420 ug/L	-0.0420 ppb	22:30:04
2	Sc 361.383	819986.7	819986.7	111.90 %		22:31:21
2	Y 371.029	674148.7	674148.7	111.54 %		22:31:21
2	Ag 328.068†	131.5	-34.6	-0.2063 ug/L	-0.2063 ppb	22:31:21
2	As 188.979†	-29.0	-3.6	-2.1865 ug/L	-2.1865 ppb	22:31:41
2	B 249.677†	832.3	1078.8	32.470 ug/L	32.470 ppb	22:31:21
2	Ba 233.527†	71.3	61.2	0.6435 ug/L	0.6435 ppb	22:31:41
2	Be 313.107†	-3577.5	694.5	0.3250 ug/L	0.3250 ppb	22:31:21
2	Cd 226.502†	-157.9	30.0	0.4914 ug/L	0.4914 ppb	22:31:41
2	Co 228.616†	-32.4	17.8	0.5102 ug/L	0.5102 ppb	22:31:41
2	Cr 267.716†	184.9	70.1	1.0695 ug/L	1.0695 ppb	22:31:41
2	Cu 324.752†	6131.8	-237.1	-0.8532 ug/L	-0.8532 ppb	22:31:21
2	Mn 257.610†	702.6	202.4	0.2967 ug/L	0.2967 ppb	22:31:41
2	Mo 202.031†	15.2	-3.2	-0.3199 ug/L	-0.3199 ppb	22:31:41
2	Ni 231.604†	82.9	-8.4	-0.3026 ug/L	-0.3026 ppb	22:31:41

2	P 214.914†	200.4	-9.4	-7.4144 ug/L	-7.4144 ppb	22:31:41
2	Pb 220.353†	-47.3	6.8	1.1797 ug/L	1.1797 ppb	22:31:41
2	S 181.975 Axial†	44.5	12.7	24.664 ug/L	24.664 ppb	22:31:41
2	Sb 206.836†	31.2	2.3	1.0258 ug/L	1.0258 ppb	22:31:41
2	Se 196.026†	-15.8	7.6	6.7975 ug/L	6.7975 ppb	22:31:41
2	Si 251.611†	40153.2	35428.3	1463.7 ug/L	1463.7 ppb	22:31:21
2	Sn 189.927†	4.9	-9.3	-2.3505 ug/L	-2.3505 ppb	22:31:41
2	Ti 334.940†	-979.5	169.0	0.3263 ug/L	0.3263 ppb	22:31:21
2	Tl 190.801†	-22.6	2.1	0.9091 ug/L	0.9091 ppb	22:31:41
2	U 409.014†	-1678.9	333.6	11.343 ug/L	11.343 ppb	22:31:21
2	V 292.402†	-1406.1	124.0	1.1301 ug/L	1.1301 ppb	22:31:21
2	Zn 213.857†	811.3	65.2	0.8759 ug/L	0.8759 ppb	22:31:41
2	SiO2†	41063.0	36233.2	3189.0 ug/L	3189.0 ppb	22:32:17
3	Sc Radial	4536.7	4536.7	120 %		22:30:29
3	Y RADIAL	4867.8	4867.8	119.2 %		22:30:29
3	Al 396.153Radial†	-63.4	19.9	23.627 ug/L	23.627 ppb	22:30:49
3	Ca 317.933Radial†	42.6	13.6	30.529 ug/L	30.529 ppb	22:30:49
3	Fe 238.204 Radial†	8.5	-1.4	-18.012 ug/L	-18.012 ppb	22:30:49
3	K 766.490 Radial†	3605.2	531.7	117.32 ug/L	117.32 ppb	22:30:29
3	Mg 279.077 IEC†	2.0	-1.2	-54.714 ug/L	-54.714 ppb	22:30:49
3	Na 589.592 Radial†	-64.7	332.3	133.63 ug/L	133.63 ppb	22:30:29
3	Sr 421.552†	46.6	-0.3	-0.0034 ug/L	-0.0034 ppb	22:30:29
3	Sc 361.383	828726.4	828726.4	113.09 %		22:31:47
3	Y 371.029	680071.3	680071.3	112.52 %		22:31:47
3	Ag 328.068†	168.8	-2.9	-0.0252 ug/L	-0.0252 ppb	22:31:47
3	As 188.979†	-18.3	6.1	3.6934 ug/L	3.6934 ppb	22:32:07
3	B 249.677†	877.1	1110.5	33.427 ug/L	33.427 ppb	22:31:47
3	Ba 233.527†	65.6	55.5	0.5835 ug/L	0.5835 ppb	22:32:07
3	Be 313.107†	-3672.2	644.5	0.3018 ug/L	0.3018 ppb	22:31:47
3	Cd 226.502†	-148.3	40.0	0.6542 ug/L	0.6542 ppb	22:32:07
3	Co 228.616†	-33.0	17.5	0.5052 ug/L	0.5052 ppb	22:32:07
3	Cr 267.716†	177.5	61.9	0.9436 ug/L	0.9436 ppb	22:32:07
3	Cu 324.752†	6203.3	-231.7	-0.8332 ug/L	-0.8332 ppb	22:31:47
3	Mn 257.610†	735.7	225.0	0.3288 ug/L	0.3288 ppb	22:32:07
3	Mo 202.031†	29.7	9.5	0.9571 ug/L	0.9571 ppb	22:32:07
3	Ni 231.604†	94.4	1.0	0.0341 ug/L	0.0341 ppb	22:32:07
3	P 214.914†	198.2	-13.2	-10.503 ug/L	-10.503 ppb	22:32:07
3	Pb 220.353†	-52.8	2.3	0.4161 ug/L	0.4161 ppb	22:32:07
3	S 181.975 Axial†	46.8	14.2	27.699 ug/L	27.699 ppb	22:32:07
3	Sb 206.836†	30.3	1.2	0.5639 ug/L	0.5639 ppb	22:32:07
3	Se 196.026†	-8.7	14.1	12.616 ug/L	12.616 ppb	22:32:07
3	Si 251.611†	40693.8	35527.9	1467.7 ug/L	1467.7 ppb	22:31:47
3	Sn 189.927†	9.3	-5.4	-1.3606 ug/L	-1.3606 ppb	22:32:07
3	Ti 334.940†	-945.0	208.7	0.4032 ug/L	0.4032 ppb	22:31:47
3	Tl 190.801†	-30.6	-4.8	-2.0812 ug/L	-2.0812 ppb	22:32:07
3	U 409.014†	-1758.7	278.9	9.4833 ug/L	9.4833 ppb	22:31:47
3	V 292.402†	-1407.5	136.0	1.2535 ug/L	1.2535 ppb	22:31:47
3	Zn 213.857†	821.9	67.0	0.8977 ug/L	0.8977 ppb	22:32:07
3	SiO2†	40845.1	35653.5	3137.9 ug/L	3137.9 ppb	22:32:22

Mean Data: 247997001|959089|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	824462.1	112.51	%	0.597				0.53%
Sc Radial	4493.3	119	%	1.3				1.07%
Y 371.029	676984.5	112.00	%	0.491				0.44%
Y RADIAL	4791.7	117.4	%	1.68				1.43%
Ag 328.068†	-24.1	-0.1430	ug/L	0.10208	-0.1430	ppb	0.10208	71.38%
Al 396.153Radial†	19.8	23.560	ug/L	6.0705	23.560	ppb	6.0705	25.77%
As 188.979†	0.7	0.4298	ug/L	2.99292	0.4298	ppb	2.99292	696.36%
B 249.677†	1094.4	32.941	ug/L	0.4787	32.941	ppb	0.4787	1.45%
Ba 233.527†	53.8	0.5664	ug/L	0.08691	0.5664	ppb	0.08691	15.34%
Be 313.107†	660.2	0.3091	ug/L	0.01378	0.3091	ppb	0.01378	4.46%
Ca 317.933Radial†	11.3	25.395	ug/L	4.4484	25.395	ppb	4.4484	17.52%
Cd 226.502†	36.9	0.6024	ug/L	0.09612	0.6024	ppb	0.09612	15.96%
Co 228.616†	17.8	0.5113	ug/L	0.00671	0.5113	ppb	0.00671	1.31%
Cr 267.716†	67.0	1.0236	ug/L	0.06956	1.0236	ppb	0.06956	6.80%
Cu 324.752†	-240.6	-0.8640	ug/L	0.03732	-0.8640	ppb	0.03732	4.32%
Fe 238.204 Radial†	-0.8	-10.582	ug/L	9.2646	-10.582	ppb	9.2646	87.55%
K 766.490 Radial†	559.4	123.45	ug/L	6.736	123.45	ppb	6.736	5.46%

Mg 279.077 IEC†	-0.6	-26.033 ug/L	60.4591	-26.033 ppb	60.4591 232.24%
Mn 257.610†	221.2	0.3228 ug/L	0.02370	0.3228 ppb	0.02370 7.34%
Mo 202.031†	4.7	0.4758 ug/L	0.69413	0.4758 ppb	0.69413 145.88%
Na 589.592 Radial†	295.1	118.68 ug/L	12.975	118.68 ppb	12.975 10.93%
Ni 231.604†	-4.1	-0.1476 ug/L	0.16989	-0.1476 ppb	0.16989 115.08%
P 214.914†	-13.2	-10.497 ug/L	3.0796	-10.497 ppb	3.0796 29.34%
Pb 220.353†	6.6	1.1502 ug/L	0.71982	1.1502 ppb	0.71982 62.58%
S 181.975 Axial†	12.1	23.476 ug/L	4.9261	23.476 ppb	4.9261 20.98%
Sb 206.836†	0.0	0.0089 ug/L	1.38083	0.0089 ppb	1.38083 >999.9%
Se 196.026†	11.3	10.143 ug/L	3.0059	10.143 ppb	3.0059 29.63%
Si 251.611†	35513.6	1467.2 ug/L	3.26	1467.2 ppb	3.26 0.22%
Sn 189.927†	-4.8	-1.2084 ug/L	1.22537	-1.2084 ppb	1.22537 101.41%
Sr 421.552†	1.9	0.0174 ug/L	0.07203	0.0174 ppb	0.07203 414.51%
Ti 334.940†	195.9	0.3760 ug/L	0.04307	0.3760 ppb	0.04307 11.45%
Tl 190.801†	-0.1	-0.0491 ug/L	1.76080	-0.0491 ppb	1.76080 >999.9%
U 409.014†	250.7	8.5222 ug/L	3.40454	8.5222 ppb	3.40454 39.95%
V 292.402†	133.7	1.2240 ug/L	0.08316	1.2240 ppb	0.08316 6.79%
Zn 213.857†	66.0	0.8852 ug/L	0.01123	0.8852 ppb	0.01123 1.27%
SiO2†	36147.6	3181.4 ug/L	40.25	3181.4 ppb	40.25 1.27%

Sequence No.: 36
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/26/2010 23:02:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4285.2	4285.2	113 %		23:04:39
1	Y RADIAL	4602.1	4602.1	112.7 %		23:04:19
1	Al 396.153Radial†	4790.2	4307.3	5100.8 ug/L	5100.8 ppb	23:04:19
1	Ca 317.933Radial†	2670.3	2338.6	5239.4 ug/L	5239.4 ppb	23:04:39
1	Fe 238.204 Radial†	443.4	383.5	5084.9 ug/L	5084.9 ppb	23:04:39
1	K 766.490 Radial†	27346.6	21695.3	4783.7 ug/L	4783.7 ppb	23:04:19
1	Mg 279.077 IEC†	126.3	108.9	5148.5 ug/L	5148.5 ppb	23:04:39
1	Na 589.592 Radial†	26012.9	23381.2	9402.3 ug/L	9402.3 ppb	23:04:19
1	Sr 421.552†	59277.5	52360.9	475.33 ug/L	475.33 ppb	23:04:19
1	Sc 361.383	834302.6	834302.6	113.85 %		23:05:36
1	Y 371.029	679064.9	679064.9	112.35 %		23:05:36
1	Ag 328.068†	100861.0	88438.5	506.27 ug/L	506.27 ppb	23:05:41
1	As 188.979†	927.5	837.0	512.39 ug/L	512.39 ppb	23:06:01
1	B 249.677†	18470.8	16558.7	496.11 ug/L	496.11 ppb	23:05:41
1	Ba 233.527†	54485.1	47854.1	502.82 ug/L	502.82 ppb	23:05:41
1	Be 313.107†	1232739.8	1086662.3	508.46 ug/L	508.46 ppb	23:05:36
1	Cd 226.502†	35170.8	31063.3	504.63 ug/L	504.63 ppb	23:05:41
1	Co 228.616†	20238.7	17823.3	512.24 ug/L	512.24 ppb	23:05:41
1	Cr 267.716†	37405.8	32760.1	502.61 ug/L	502.61 ppb	23:05:41
1	Cu 324.752†	164403.0	138685.6	495.06 ug/L	495.06 ppb	23:05:41
1	Mn 257.610†	386284.2	338865.2	494.88 ug/L	494.88 ppb	23:05:41
1	Mo 202.031†	5725.1	5011.8	506.56 ug/L	506.56 ppb	23:06:01
1	Ni 231.604†	16309.1	14242.5	510.69 ug/L	510.69 ppb	23:05:41
1	P 214.914†	3770.0	3122.9	2427.9 ug/L	2427.9 ppb	23:06:01
1	Pb 220.353†	3265.9	2917.7	506.15 ug/L	506.15 ppb	23:06:01
1	S 181.975 Axial†	636.3	531.7	1033.1 ug/L	1033.1 ppb	23:06:01
1	Sb 206.836†	1270.9	1090.6	524.05 ug/L	524.05 ppb	23:06:01
1	Se 196.026†	615.7	562.6	522.62 ug/L	522.62 ppb	23:06:01
1	Si 251.611†	70299.2	61291.3	2525.9 ug/L	2525.9 ppb	23:05:41
1	Sn 189.927†	2291.3	1998.9	507.41 ug/L	507.41 ppb	23:06:01
1	Ti 334.940†	293483.1	258823.7	494.84 ug/L	494.84 ppb	23:05:41
1	Tl 190.801†	1324.9	1186.0	514.71 ug/L	514.71 ppb	23:06:01
1	U 409.014†	14845.1	14873.2	504.06 ug/L	504.06 ppb	23:05:41
1	V 292.402†	61987.3	55826.8	508.00 ug/L	508.00 ppb	23:05:41
1	Zn 213.857†	43848.1	37854.0	500.78 ug/L	500.78 ppb	23:05:41
1	SiO2†	71398.5	62248.6	5464.9 ug/L	5464.9 ppb	23:07:08
2	Sc Radial	4311.7	4311.7	114 %		23:05:04
2	Y RADIAL	4723.0	4723.0	115.7 %		23:04:44
2	Al 396.153Radial†	4936.3	4409.6	5222.4 ug/L	5222.4 ppb	23:04:44
2	Ca 317.933Radial†	2683.5	2335.6	5232.7 ug/L	5232.7 ppb	23:05:04
2	Fe 238.204 Radial†	442.8	380.5	5045.9 ug/L	5045.9 ppb	23:05:04
2	K 766.490 Radial†	28017.4	22135.9	4880.9 ug/L	4880.9 ppb	23:04:44
2	Mg 279.077 IEC†	128.2	109.8	5192.5 ug/L	5192.5 ppb	23:05:04
2	Na 589.592 Radial†	26668.1	23815.3	9576.8 ug/L	9576.8 ppb	23:04:44
2	Sr 421.552†	61110.5	53648.7	487.02 ug/L	487.02 ppb	23:04:44
2	Sc 361.383	828430.8	828430.8	113.05 %		23:06:07
2	Y 371.029	674633.3	674633.3	111.62 %		23:06:07
2	Ag 328.068†	100382.4	88643.1	507.43 ug/L	507.43 ppb	23:06:12
2	As 188.979†	943.1	856.5	524.28 ug/L	524.28 ppb	23:06:32
2	B 249.677†	18382.9	16595.9	497.24 ug/L	497.24 ppb	23:06:12
2	Ba 233.527†	54104.0	47856.3	502.84 ug/L	502.84 ppb	23:06:12
2	Be 313.107†	1226341.5	1088677.0	509.41 ug/L	509.41 ppb	23:06:07
2	Cd 226.502†	34830.3	30981.0	503.29 ug/L	503.29 ppb	23:06:12
2	Co 228.616†	20074.7	17804.2	511.70 ug/L	511.70 ppb	23:06:12
2	Cr 267.716†	37188.9	32801.2	503.23 ug/L	503.23 ppb	23:06:12
2	Cu 324.752†	164040.2	139388.2	497.56 ug/L	497.56 ppb	23:06:12
2	Mn 257.610†	384013.2	339261.1	495.45 ug/L	495.45 ppb	23:06:12
2	Mo 202.031†	5713.7	5037.4	509.13 ug/L	509.13 ppb	23:06:32
2	Ni 231.604†	16212.8	14258.8	511.27 ug/L	511.27 ppb	23:06:12

2	P 214.914†	3756.5	3134.4	2436.8 ug/L	2436.8 ppb	23:06:32
2	Pb 220.353†	3232.3	2908.3	504.56 ug/L	504.56 ppb	23:06:32
2	S 181.975 Axial†	626.9	527.4	1024.6 ug/L	1024.6 ppb	23:06:32
2	Sb 206.836†	1280.1	1106.7	531.54 ug/L	531.54 ppb	23:06:32
2	Se 196.026†	614.9	565.7	525.36 ug/L	525.36 ppb	23:06:32
2	Si 251.611†	69801.4	61288.6	2525.7 ug/L	2525.7 ppb	23:06:12
2	Sn 189.927†	2277.5	2001.0	507.95 ug/L	507.95 ppb	23:06:32
2	Ti 334.940†	292224.0	259537.1	496.20 ug/L	496.20 ppb	23:06:12
2	Tl 190.801†	1317.0	1187.2	515.26 ug/L	515.26 ppb	23:06:32
2	U 409.014†	14677.0	14816.8	502.14 ug/L	502.14 ppb	23:06:12
2	V 292.402†	61471.5	55756.5	507.40 ug/L	507.40 ppb	23:06:12
2	Zn 213.857†	43626.4	37930.8	501.80 ug/L	501.80 ppb	23:06:12
2	SiO2†	71826.3	63071.5	5537.3 ug/L	5537.3 ppb	23:07:13
3	Sc Radial	4257.9	4257.9	112 %		23:05:29
3	Y RADIAL	4842.5	4842.5	118.6 %		23:05:09
3	Al 396.153Radial†	5038.4	4555.2	5395.7 ug/L	5395.7 ppb	23:05:09
3	Ca 317.933Radial†	2648.3	2334.1	5229.3 ug/L	5229.3 ppb	23:05:29
3	Fe 238.204 Radial†	440.9	383.8	5089.1 ug/L	5089.1 ppb	23:05:29
3	K 766.490 Radial†	28419.6	22804.7	5028.4 ug/L	5028.4 ppb	23:05:09
3	Mg 279.077 IEC†	126.3	109.5	5180.5 ug/L	5180.5 ppb	23:05:29
3	Na 589.592 Radial†	27409.7	24771.1	9961.2 ug/L	9961.2 ppb	23:05:09
3	Sr 421.552†	62661.4	55706.8	505.70 ug/L	505.70 ppb	23:05:09
3	Sc 361.383	844823.9	844823.9	115.29 %		23:06:38
3	Y 371.029	687249.5	687249.5	113.70 %		23:06:38
3	Ag 328.068†	102513.2	88768.4	508.16 ug/L	508.16 ppb	23:06:43
3	As 188.979†	954.5	850.2	520.46 ug/L	520.46 ppb	23:07:03
3	B 249.677†	18906.3	16734.4	501.39 ug/L	501.39 ppb	23:06:43
3	Ba 233.527†	55342.4	48001.8	504.37 ug/L	504.37 ppb	23:06:43
3	Be 313.107†	1251781.0	1089694.0	509.88 ug/L	509.88 ppb	23:06:38
3	Cd 226.502†	35606.2	31056.2	504.51 ug/L	504.51 ppb	23:06:43
3	Co 228.616†	20552.7	17874.3	513.71 ug/L	513.71 ppb	23:06:43
3	Cr 267.716†	37938.8	32813.3	503.42 ug/L	503.42 ppb	23:06:43
3	Cu 324.752†	167503.9	139577.0	498.24 ug/L	498.24 ppb	23:06:43
3	Mn 257.610†	392536.1	340062.7	496.63 ug/L	496.63 ppb	23:06:43
3	Mo 202.031†	5823.6	5034.6	508.86 ug/L	508.86 ppb	23:07:03
3	Ni 231.604†	16517.7	14245.0	510.78 ug/L	510.78 ppb	23:06:43
3	P 214.914†	3817.8	3123.1	2427.5 ug/L	2427.5 ppb	23:07:03
3	Pb 220.353†	3302.3	2913.5	505.50 ug/L	505.50 ppb	23:07:03
3	S 181.975 Axial†	644.9	532.2	1034.0 ug/L	1034.0 ppb	23:07:03
3	Sb 206.836†	1278.9	1083.7	520.84 ug/L	520.84 ppb	23:07:03
3	Se 196.026†	627.6	566.1	525.93 ug/L	525.93 ppb	23:07:03
3	Si 251.611†	71526.0	61586.4	2538.1 ug/L	2538.1 ppb	23:06:43
3	Sn 189.927†	2316.6	1995.8	506.61 ug/L	506.61 ppb	23:07:03
3	Ti 334.940†	298851.2	260269.7	497.60 ug/L	497.60 ppb	23:06:43
3	Tl 190.801†	1326.5	1172.8	509.07 ug/L	509.07 ppb	23:07:03
3	U 409.014†	15196.0	15015.1	508.88 ug/L	508.88 ppb	23:06:43
3	V 292.402†	62988.2	56017.0	509.74 ug/L	509.74 ppb	23:06:43
3	Zn 213.857†	44417.8	37868.4	500.97 ug/L	500.97 ppb	23:06:43
3	SiO2†	72224.0	62183.6	5459.1 ug/L	5459.1 ppb	23:07:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835852.5	114.06 %	1.133			0.99%
Sc Radial	4284.9	113 %	0.7			0.63%
Y 371.029	680315.9	112.56 %	1.059			0.94%
Y RADIAL	4722.5	115.7 %	2.94			2.55%
Ag 328.068†	88616.7	507.29 ug/L	0.949	507.29 ppb	0.949	0.19%
QC value within limits for Ag 328.068 Recovery = 101.46%						
Al 396.153Radial†	4424.0	5239.7 ug/L	148.20	5239.7 ppb	148.20	2.83%
QC value within limits for Al 396.153Radial Recovery = 104.79%						
As 188.979†	847.9	519.04 ug/L	6.071	519.04 ppb	6.071	1.17%
QC value within limits for As 188.979 Recovery = 103.81%						
B 249.677†	16629.7	498.24 ug/L	2.782	498.24 ppb	2.782	0.56%
QC value within limits for B 249.677 Recovery = 99.65%						
Ba 233.527†	47904.1	503.34 ug/L	0.890	503.34 ppb	0.890	0.18%
QC value within limits for Ba 233.527 Recovery = 100.67%						
Be 313.107†	1088344.4	509.25 ug/L	0.723	509.25 ppb	0.723	0.14%
QC value within limits for Be 313.107 Recovery = 101.85%						
Ca 317.933Radial†	2336.1	5233.8 ug/L	5.12	5233.8 ppb	5.12	0.10%

QC value within limits for Ca 317.933 Radial Recovery = 104.68%

Cd 226.502†	31033.5	504.14 ug/L	0.738	504.14 ppb	0.738	0.15%
QC value within limits for Cd 226.502 Recovery = 100.83%						
Co 228.616†	17833.9	512.55 ug/L	1.039	512.55 ppb	1.039	0.20%
QC value within limits for Co 228.616 Recovery = 102.51%						
Cr 267.716†	32791.5	503.09 ug/L	0.426	503.09 ppb	0.426	0.08%
QC value within limits for Cr 267.716 Recovery = 100.62%						
Cu 324.752†	139216.9	496.95 ug/L	1.676	496.95 ppb	1.676	0.34%
QC value within limits for Cu 324.752 Recovery = 99.39%						
Fe 238.204 Radial†	382.6	5073.3 ug/L	23.81	5073.3 ppb	23.81	0.47%
QC value within limits for Fe 238.204 Radial Recovery = 101.47%						
K 766.490 Radial†	22211.9	4897.7 ug/L	123.21	4897.7 ppb	123.21	2.52%
QC value within limits for K 766.490 Radial Recovery = 97.95%						
Mg 279.077 IEC†	109.4	5173.8 ug/L	22.74	5173.8 ppb	22.74	0.44%
QC value within limits for Mg 279.077 IEC Recovery = 103.48%						
Mn 257.610†	339396.3	495.65 ug/L	0.891	495.65 ppb	0.891	0.18%
QC value within limits for Mn 257.610 Recovery = 99.13%						
Mo 202.031†	5028.0	508.18 ug/L	1.416	508.18 ppb	1.416	0.28%
QC value within limits for Mo 202.031 Recovery = 101.64%						
Na 589.592 Radial†	23989.2	9646.8 ug/L	285.95	9646.8 ppb	285.95	2.96%
QC value within limits for Na 589.592 Radial Recovery = 96.47%						
Ni 231.604†	14248.7	510.91 ug/L	0.315	510.91 ppb	0.315	0.06%
QC value within limits for Ni 231.604 Recovery = 102.18%						
P 214.914†	3126.8	2430.7 ug/L	5.24	2430.7 ppb	5.24	0.22%
QC value within limits for P 214.914 Recovery = 97.23%						
Pb 220.353†	2913.2	505.40 ug/L	0.801	505.40 ppb	0.801	0.16%
QC value within limits for Pb 220.353 Recovery = 101.08%						
S 181.975 Axial†	530.5	1030.5 ug/L	5.18	1030.5 ppb	5.18	0.50%
QC value within limits for S 181.975 Axial Recovery = 103.05%						
Sb 206.836†	1093.7	525.48 ug/L	5.491	525.48 ppb	5.491	1.04%
QC value within limits for Sb 206.836 Recovery = 105.10%						
Se 196.026†	564.8	524.64 ug/L	1.771	524.64 ppb	1.771	0.34%
QC value within limits for Se 196.026 Recovery = 104.93%						
Si 251.611†	61388.7	2529.9 ug/L	7.06	2529.9 ppb	7.06	0.28%
QC value within limits for Si 251.611 Recovery = 101.20%						
Sn 189.927†	1998.5	507.32 ug/L	0.670	507.32 ppb	0.670	0.13%
QC value within limits for Sn 189.927 Recovery = 101.46%						
Sr 421.552†	53905.5	489.35 ug/L	15.322	489.35 ppb	15.322	3.13%
QC value within limits for Sr 421.552 Recovery = 97.87%						
Ti 334.940†	259543.5	496.22 ug/L	1.379	496.22 ppb	1.379	0.28%
QC value within limits for Ti 334.940 Recovery = 99.24%						
Tl 190.801†	1182.0	513.01 ug/L	3.426	513.01 ppb	3.426	0.67%
QC value within limits for Tl 190.801 Recovery = 102.60%						
U 409.014†	14901.7	505.03 ug/L	3.471	505.03 ppb	3.471	0.69%
QC value within limits for U 409.014 Recovery = 101.01%						
V 292.402†	55866.8	508.38 ug/L	1.216	508.38 ppb	1.216	0.24%
QC value within limits for V 292.402 Recovery = 101.68%						
Zn 213.857†	37884.4	501.18 ug/L	0.546	501.18 ppb	0.546	0.11%
QC value within limits for Zn 213.857 Recovery = 100.24%						
SiO2†	62501.2	5487.1 ug/L	43.54	5487.1 ppb	43.54	0.79%
QC value within limits for SiO2 Recovery = 102.61%						

All analyte(s) passed QC.

Sequence No.: 37
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/26/2010 23:09:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4155.5	4155.5	110 %		23:11:40
1	Y RADIAL	4622.6	4622.6	113.2 %		23:11:20
1	Al 396.153Radial†	-62.4	16.0	19.055 ug/L	19.055 ppb	23:11:40
1	Ca 317.933Radial†	29.8	5.2	11.733 ug/L	11.733 ppb	23:11:40
1	Fe 238.204 Radial†	6.5	-2.5	-33.139 ug/L	-33.139 ppb	23:11:40
1	K 766.490 Radial†	2476.7	-220.9	-48.748 ug/L	-48.748 ppb	23:11:20
1	Mg 279.077 IEC†	2.1	-0.9	-43.570 ug/L	-43.570 ppb	23:11:40
1	Na 589.592 Radial†	-624.1	-182.6	-73.422 ug/L	-73.422 ppb	23:11:20
1	Sr 421.552†	45.8	2.5	0.0223 ug/L	0.0223 ppb	23:11:20
1	Sc 361.383	821266.7	821266.7	112.07 %		23:12:37
1	Y 371.029	674762.1	674762.1	111.64 %		23:12:37
1	Ag 328.068†	166.3	-3.8	-0.0310 ug/L	-0.0310 ppb	23:12:37
1	As 188.979†	-23.3	1.5	0.9258 ug/L	0.9258 ppb	23:12:57
1	B 249.677†	-169.1	184.1	5.5459 ug/L	5.5459 ppb	23:12:57
1	Ba 233.527†	14.0	9.9	0.1052 ug/L	0.1052 ppb	23:12:57
1	Be 313.107†	-4097.9	235.1	0.1104 ug/L	0.1104 ppb	23:12:37
1	Cd 226.502†	-168.7	20.6	0.3393 ug/L	0.3393 ppb	23:12:57
1	Co 228.616†	-37.3	13.5	0.3854 ug/L	0.3854 ppb	23:12:57
1	Cr 267.716†	107.4	0.8	0.0082 ug/L	0.0082 ppb	23:12:57
1	Cu 324.752†	5952.5	-405.6	-1.4522 ug/L	-1.4522 ppb	23:12:37
1	Mn 257.610†	458.5	-16.4	-0.0255 ug/L	-0.0255 ppb	23:12:57
1	Mo 202.031†	12.9	-5.2	-0.5306 ug/L	-0.5306 ppb	23:12:57
1	Ni 231.604†	82.3	-9.1	-0.3257 ug/L	-0.3257 ppb	23:12:57
1	P 214.914†	187.3	-21.3	-16.896 ug/L	-16.896 ppb	23:12:57
1	Pb 220.353†	-48.8	5.5	0.9602 ug/L	0.9602 ppb	23:12:57
1	S 181.975 Axial†	23.4	-6.3	-12.158 ug/L	-12.158 ppb	23:12:57
1	Sb 206.836†	27.1	-1.4	-0.6771 ug/L	-0.6771 ppb	23:12:57
1	Se 196.026†	-24.1	0.3	0.1456 ug/L	0.1456 ppb	23:12:57
1	Si 251.611†	465.5	-40.4	-1.6611 ug/L	-1.6611 ppb	23:12:57
1	Sn 189.927†	16.2	0.8	0.2171 ug/L	0.2171 ppb	23:12:57
1	Ti 334.940†	-1019.5	134.6	0.2606 ug/L	0.2606 ppb	23:12:37
1	Tl 190.801†	-19.3	5.0	2.1751 ug/L	2.1751 ppb	23:12:57
1	U 409.014†	-1910.8	129.0	4.3912 ug/L	4.3912 ppb	23:12:37
1	V 292.402†	-1402.1	129.5	1.1672 ug/L	1.1672 ppb	23:12:37
1	Zn 213.857†	611.4	-114.3	-1.5173 ug/L	-1.5173 ppb	23:12:57
1	SiO2†	488.6	-28.0	-2.4537 ug/L	-2.4537 ppb	23:14:08
2	Sc Radial	4204.2	4204.2	111 %		23:12:05
2	Y RADIAL	4571.1	4571.1	112.0 %		23:11:45
2	Al 396.153Radial†	-76.0	4.4	5.2640 ug/L	5.2640 ppb	23:12:05
2	Ca 317.933Radial†	22.7	-1.5	-3.3849 ug/L	-3.3849 ppb	23:12:05
2	Fe 238.204 Radial†	8.6	-0.7	-9.5198 ug/L	-9.5198 ppb	23:12:05
2	K 766.490 Radial†	2515.5	-212.1	-46.804 ug/L	-46.804 ppb	23:11:45
2	Mg 279.077 IEC†	1.2	-1.7	-81.106 ug/L	-81.106 ppb	23:12:05
2	Na 589.592 Radial†	-563.0	-120.9	-48.622 ug/L	-48.622 ppb	23:11:45
2	Sr 421.552†	69.5	23.4	0.2122 ug/L	0.2122 ppb	23:11:45
2	Sc 361.383	804056.6	804056.6	109.72 %		23:13:02
2	Y 371.029	661231.6	661231.6	109.40 %		23:13:02
2	Ag 328.068†	140.9	-23.8	-0.1362 ug/L	-0.1362 ppb	23:13:02
2	As 188.979†	-17.0	6.8	4.1327 ug/L	4.1327 ppb	23:13:22
2	B 249.677†	-159.8	189.4	5.7008 ug/L	5.7008 ppb	23:13:22
2	Ba 233.527†	16.6	12.6	0.1336 ug/L	0.1336 ppb	23:13:22
2	Be 313.107†	-4082.8	170.6	0.0801 ug/L	0.0801 ppb	23:13:02
2	Cd 226.502†	-162.2	23.4	0.3806 ug/L	0.3806 ppb	23:13:22
2	Co 228.616†	-50.5	0.7	0.0170 ug/L	0.0170 ppb	23:13:22
2	Cr 267.716†	101.8	-2.3	-0.0356 ug/L	-0.0356 ppb	23:13:22
2	Cu 324.752†	5912.9	-328.0	-1.1724 ug/L	-1.1724 ppb	23:13:02
2	Mn 257.610†	458.5	-7.7	-0.0088 ug/L	-0.0088 ppb	23:13:22
2	Mo 202.031†	7.9	-9.5	-0.9619 ug/L	-0.9619 ppb	23:13:22
2	Ni 231.604†	82.9	-7.0	-0.2513 ug/L	-0.2513 ppb	23:13:22

2	P 214.914†	187.5	-17.5	-13.944 ug/L	-13.944 ppb	23:13:22
2	Pb 220.353†	-63.4	-8.7	-1.5002 ug/L	-1.5002 ppb	23:13:22
2	S 181.975 Axial†	27.6	-2.0	-3.8484 ug/L	-3.8484 ppb	23:13:22
2	Sb 206.836†	17.8	-9.4	-4.4080 ug/L	-4.4080 ppb	23:13:22
2	Se 196.026†	-20.1	3.4	3.0155 ug/L	3.0155 ppb	23:13:22
2	Si 251.611†	487.2	-11.7	-0.4715 ug/L	-0.4715 ppb	23:13:22
2	Sn 189.927†	7.6	-6.7	-1.6984 ug/L	-1.6984 ppb	23:13:22
2	Ti 334.940†	-1039.8	96.6	0.1902 ug/L	0.1902 ppb	23:13:02
2	Tl 190.801†	-29.6	-4.7	-2.0239 ug/L	-2.0239 ppb	23:13:22
2	U 409.014†	-1955.2	52.1	1.7725 ug/L	1.7725 ppb	23:13:02
2	V 292.402†	-1408.0	97.4	0.8636 ug/L	0.8636 ppb	23:13:02
2	Zn 213.857†	591.6	-120.6	-1.6059 ug/L	-1.6059 ppb	23:13:22
2	SiO2†	500.3	-8.0	-0.6821 ug/L	-0.6821 ppb	23:14:28
3	Sc Radial	4112.8	4112.8	109 %		23:12:30
3	Y RADIAL	4492.2	4492.2	110.0 %		23:12:10
3	Al 396.153Radial†	-69.1	9.3	11.039 ug/L	11.039 ppb	23:12:30
3	Ca 317.933Radial†	25.2	1.2	2.7892 ug/L	2.7892 ppb	23:12:30
3	Fe 238.204 Radial†	8.7	-0.5	-6.3075 ug/L	-6.3075 ppb	23:12:30
3	K 766.490 Radial†	2524.6	-153.3	-33.811 ug/L	-33.811 ppb	23:12:10
3	Mg 279.077 IEC†	-0.2	-3.0	-142.38 ug/L	-142.38 ppb	23:12:30
3	Na 589.592 Radial†	-678.3	-238.5	-95.891 ug/L	-95.891 ppb	23:12:10
3	Sr 421.552†	37.8	-4.4	-0.0403 ug/L	-0.0403 ppb	23:12:10
3	Sc 361.383	817977.2	817977.2	111.62 %		23:13:27
3	Y 371.029	672221.2	672221.2	111.22 %		23:13:27
3	Ag 328.068†	114.6	-49.5	-0.2848 ug/L	-0.2848 ppb	23:13:27
3	As 188.979†	-24.3	0.6	0.3388 ug/L	0.3388 ppb	23:13:47
3	B 249.677†	-163.0	189.0	5.6873 ug/L	5.6873 ppb	23:13:47
3	Ba 233.527†	8.8	5.3	0.0582 ug/L	0.0582 ppb	23:13:47
3	Be 313.107†	-4111.9	207.9	0.0975 ug/L	0.0975 ppb	23:13:27
3	Cd 226.502†	-157.7	29.9	0.4876 ug/L	0.4876 ppb	23:13:47
3	Co 228.616†	-40.3	10.6	0.3023 ug/L	0.3023 ppb	23:13:47
3	Cr 267.716†	114.2	7.2	0.1091 ug/L	0.1091 ppb	23:13:47
3	Cu 324.752†	5922.8	-410.8	-1.4706 ug/L	-1.4706 ppb	23:13:27
3	Mn 257.610†	421.0	-48.4	-0.0654 ug/L	-0.0654 ppb	23:13:47
3	Mo 202.031†	13.2	-5.0	-0.5016 ug/L	-0.5016 ppb	23:13:47
3	Ni 231.604†	86.3	-5.3	-0.1890 ug/L	-0.1890 ppb	23:13:47
3	P 214.914†	189.6	-18.6	-14.725 ug/L	-14.725 ppb	23:13:47
3	Pb 220.353†	-62.0	-6.5	-1.1169 ug/L	-1.1169 ppb	23:13:47
3	S 181.975 Axial†	32.8	2.3	4.4821 ug/L	4.4821 ppb	23:13:47
3	Sb 206.836†	29.6	0.9	0.3818 ug/L	0.3818 ppb	23:13:47
3	Se 196.026†	-26.6	-2.1	-1.9196 ug/L	-1.9196 ppb	23:13:47
3	Si 251.611†	489.8	-16.9	-0.6926 ug/L	-0.6926 ppb	23:13:47
3	Sn 189.927†	10.9	-3.8	-0.9724 ug/L	-0.9724 ppb	23:13:47
3	Ti 334.940†	-1038.8	113.7	0.2264 ug/L	0.2264 ppb	23:13:27
3	Tl 190.801†	-21.1	3.4	1.4651 ug/L	1.4651 ppb	23:13:47
3	U 409.014†	-1827.9	196.4	6.6790 ug/L	6.6790 ppb	23:13:27
3	V 292.402†	-1407.4	119.8	1.0789 ug/L	1.0789 ppb	23:13:27
3	Zn 213.857†	611.3	-112.2	-1.4934 ug/L	-1.4934 ppb	23:13:47
3	SiO2†	484.1	-30.3	-2.6507 ug/L	-2.6507 ppb	23:14:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814433.5	111.14 %		1.247			1.12%
Sc Radial	4157.5	110 %		1.2			1.10%
Y 371.029	669405.0	110.75 %		1.190			1.07%
Y RADIAL	4562.0	111.7 %		1.61			1.44%
Ag 328.068†	-25.7	-0.1506 ug/L		0.12751	-0.1506 ppb	0.12751	84.65%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.9	11.786 ug/L		6.9260	11.786 ppb	6.9260	58.76%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.0	1.7991 ug/L		2.04215	1.7991 ppb	2.04215	113.51%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	187.5	5.6447 ug/L		0.08578	5.6447 ppb	0.08578	1.52%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.3	0.0990 ug/L		0.03808	0.0990 ppb	0.03808	38.46%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	204.5	0.0960 ug/L		0.01521	0.0960 ppb	0.01521	15.84%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	1.7	3.7123 ug/L		7.60105	3.7123 ppb	7.60105	204.75%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	24.6	0.4025 ug/L	0.07655	0.4025 ppb	0.07655	19.02%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.2	0.2349 ug/L	0.19322	0.2349 ppb	0.19322	82.27%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	1.9	0.0272 ug/L	0.07420	0.0272 ppb	0.07420	272.35%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-381.5	-1.3651 ug/L	0.16712	-1.3651 ppb	0.16712	12.24%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.2	-16.322 ug/L	14.6523	-16.322 ppb	14.6523	89.77%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-195.4	-43.121 ug/L	8.1213	-43.121 ppb	8.1213	18.83%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.9	-89.019 ug/L	49.8777	-89.019 ppb	49.8777	56.03%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-24.2	-0.0332 ug/L	0.02910	-0.0332 ppb	0.02910	87.55%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-6.6	-0.6647 ug/L	0.25776	-0.6647 ppb	0.25776	38.78%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-180.7	-72.645 ug/L	23.6443	-72.645 ppb	23.6443	32.55%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-7.1	-0.2553 ug/L	0.06848	-0.2553 ppb	0.06848	26.82%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-19.1	-15.188 ug/L	1.5299	-15.188 ppb	1.5299	10.07%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-3.2	-0.5523 ug/L	1.32381	-0.5523 ppb	1.32381	239.70%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.0	-3.8414 ug/L	8.32002	-3.8414 ppb	8.32002	216.59%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.3	-1.5677 ug/L	2.51605	-1.5677 ppb	2.51605	160.49%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.5	0.4138 ug/L	2.47848	0.4138 ppb	2.47848	598.90%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-23.0	-0.9417 ug/L	0.63268	-0.9417 ppb	0.63268	67.18%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-3.2	-0.8179 ug/L	0.96705	-0.8179 ppb	0.96705	118.23%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	7.1	0.0647 ug/L	0.13147	0.0647 ppb	0.13147	203.16%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	115.0	0.2257 ug/L	0.03520	0.2257 ppb	0.03520	15.59%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.3	0.5387 ug/L	2.24756	0.5387 ppb	2.24756	417.18%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	125.8	4.2809 ug/L	2.45512	4.2809 ppb	2.45512	57.35%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	115.5	1.0366 ug/L	0.15615	1.0366 ppb	0.15615	15.06%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-115.7	-1.5389 ug/L	0.05924	-1.5389 ppb	0.05924	3.85%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-22.1	-1.9288 ug/L	1.08420	-1.9288 ppb	1.08420	56.21%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 41
 Sample ID: 1202056810|959089|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 56
 Date Collected: 3/26/2010 23:37:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056810|959089|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4195.1	4195.1	111 %		23:39:31
1	Y RADIAL	4628.4	4628.4	113.4 %		23:39:11
1	Al 396.153Radial†	-53.6	24.4	29.055 ug/L	29.055 ppb	23:39:31
1	Ca 317.933Radial†	54.9	27.7	61.999 ug/L	61.999 ppb	23:39:31
1	Fe 238.204 Radial†	10.2	0.7	9.4849 ug/L	9.4849 ppb	23:39:31
1	K 766.490 Radial†	4105.9	1229.0	271.25 ug/L	271.25 ppb	23:39:11
1	Mg 279.077 IEC†	3.1	-0.0	-2.0962 ug/L	-2.0962 ppb	23:39:31
1	Na 589.592 Radial†	56.3	437.2	175.81 ug/L	175.81 ppb	23:39:11
1	Sr 421.552†	66.2	20.5	0.1859 ug/L	0.1859 ppb	23:39:11
1	Sc 361.383	848064.9	848064.9	115.73 %		23:40:27
1	Y 371.029	696727.7	696727.7	115.27 %		23:40:27
1	Ag 328.068†	215.1	33.7	0.1964 ug/L	0.1964 ppb	23:40:27
1	As 188.979†	-27.2	-1.2	-0.7153 ug/L	-0.7153 ppb	23:40:47
1	B 249.677†	690.9	931.9	28.046 ug/L	28.046 ppb	23:40:47
1	Ba 233.527†	80.8	67.2	0.7092 ug/L	0.7092 ppb	23:40:47
1	Be 313.107†	-3940.1	487.0	0.2289 ug/L	0.2289 ppb	23:40:27
1	Cd 226.502†	-174.3	20.5	0.3341 ug/L	0.3341 ppb	23:40:47
1	Co 228.616†	-20.0	29.4	0.8441 ug/L	0.8441 ppb	23:40:47
1	Cr 267.716†	170.6	52.4	0.8031 ug/L	0.8031 ppb	23:40:47
1	Cu 324.752†	8328.1	1479.3	5.2779 ug/L	5.2779 ppb	23:40:27
1	Mn 257.610†	1009.1	446.4	0.6526 ug/L	0.6526 ppb	23:40:47
1	Mo 202.031†	22.8	3.0	0.3002 ug/L	0.3002 ppb	23:40:47
1	Ni 231.604†	99.2	3.1	0.1115 ug/L	0.1115 ppb	23:40:47
1	P 214.914†	197.8	-17.5	-15.255 ug/L	-15.255 ppb	23:40:47
1	Pb 220.353†	-52.4	3.8	0.6610 ug/L	0.6610 ppb	23:40:47
1	S 181.975 Axial†	63.2	27.6	53.568 ug/L	53.568 ppb	23:40:47
1	Sb 206.836†	30.4	0.6	0.2660 ug/L	0.2660 ppb	23:40:47
1	Se 196.026†	-22.8	2.0	1.8215 ug/L	1.8215 ppb	23:40:47
1	Si 251.611†	60202.8	51565.0	2130.3 ug/L	2130.3 ppb	23:40:27
1	Sn 189.927†	4.0	-10.1	-2.5626 ug/L	-2.5626 ppb	23:40:47
1	Ti 334.940†	-806.3	347.6	0.6703 ug/L	0.6703 ppb	23:40:27
1	Tl 190.801†	-26.6	-0.7	-0.3030 ug/L	-0.3030 ppb	23:40:47
1	U 409.014†	-1916.3	178.1	6.0541 ug/L	6.0541 ppb	23:40:27
1	V 292.402†	-1354.7	210.0	1.8989 ug/L	1.8989 ppb	23:40:27
1	Zn 213.857†	1229.9	402.9	5.3711 ug/L	5.3711 ppb	23:40:47
1	SiO2†	59172.3	50666.3	4459.3 ug/L	4459.3 ppb	23:41:44
2	Sc Radial	4269.3	4269.3	113 %		23:39:56
2	Y RADIAL	4717.8	4717.8	115.6 %		23:39:36
2	Al 396.153Radial†	-54.2	24.8	29.504 ug/L	29.504 ppb	23:39:56
2	Ca 317.933Radial†	63.0	34.0	76.132 ug/L	76.132 ppb	23:39:56
2	Fe 238.204 Radial†	9.6	0.1	1.0245 ug/L	1.0245 ppb	23:39:56
2	K 766.490 Radial†	4098.9	1158.3	255.65 ug/L	255.65 ppb	23:39:36
2	Mg 279.077 IEC†	2.9	-0.3	-12.660 ug/L	-12.660 ppb	23:39:56
2	Na 589.592 Radial†	-16.5	371.6	149.45 ug/L	149.45 ppb	23:39:36
2	Sr 421.552†	46.4	1.9	0.0169 ug/L	0.0169 ppb	23:39:36
2	Sc 361.383	827513.8	827513.8	112.92 %		23:40:53
2	Y 371.029	679920.6	679920.6	112.49 %		23:40:53
2	Ag 328.068†	86.9	-75.2	-0.4321 ug/L	-0.4321 ppb	23:40:53
2	As 188.979†	-24.7	0.4	0.2626 ug/L	0.2626 ppb	23:41:13
2	B 249.677†	697.7	952.8	28.677 ug/L	28.677 ppb	23:41:13
2	Ba 233.527†	70.8	60.1	0.6325 ug/L	0.6325 ppb	23:41:13
2	Be 313.107†	-3926.1	414.8	0.1949 ug/L	0.1949 ppb	23:40:53
2	Cd 226.502†	-164.9	25.1	0.4103 ug/L	0.4103 ppb	23:41:13
2	Co 228.616†	-40.5	10.8	0.3110 ug/L	0.3110 ppb	23:41:13
2	Cr 267.716†	156.7	43.7	0.6671 ug/L	0.6671 ppb	23:41:13
2	Cu 324.752†	8298.4	1631.7	5.8194 ug/L	5.8194 ppb	23:40:53
2	Mn 257.610†	1017.6	475.6	0.6948 ug/L	0.6948 ppb	23:41:13
2	Mo 202.031†	24.9	5.3	0.5318 ug/L	0.5318 ppb	23:41:13
2	Ni 231.604†	111.7	16.4	0.5884 ug/L	0.5884 ppb	23:41:13

2	P 214.914†	199.8	-11.5	-10.470 ug/L	-10.470 ppb	23:41:13
2	Pb 220.353†	-46.0	8.3	1.4436 ug/L	1.4436 ppb	23:41:13
2	S 181.975 Axial†	62.2	28.0	54.354 ug/L	54.354 ppb	23:41:13
2	Sb 206.836†	25.4	-3.1	-1.4496 ug/L	-1.4496 ppb	23:41:13
2	Se 196.026†	-22.2	2.1	1.8824 ug/L	1.8824 ppb	23:41:13
2	Si 251.611†	58752.2	51572.3	2130.6 ug/L	2130.6 ppb	23:40:53
2	Sn 189.927†	7.4	-7.1	-1.7915 ug/L	-1.7915 ppb	23:41:13
2	Ti 334.940†	-856.2	286.1	0.5538 ug/L	0.5538 ppb	23:40:53
2	Tl 190.801†	-28.0	-2.5	-1.0923 ug/L	-1.0923 ppb	23:41:13
2	U 409.014†	-1742.8	290.7	9.8840 ug/L	9.8840 ppb	23:40:53
2	V 292.402†	-1421.7	121.6	1.1174 ug/L	1.1174 ppb	23:40:53
2	Zn 213.857†	1216.7	417.6	5.5651 ug/L	5.5651 ppb	23:41:13
2	SiO2†	58200.2	51075.2	4495.3 ug/L	4495.3 ppb	23:41:49
3	Sc Radial	4297.9	4297.9	113 %		23:40:21
3	Y RADIAL	4750.0	4750.0	116.3 %		23:40:01
3	Al 396.153Radial†	-53.0	26.1	31.133 ug/L	31.133 ppb	23:40:21
3	Ca 317.933Radial†	56.3	27.7	62.019 ug/L	62.019 ppb	23:40:21
3	Fe 238.204 Radial†	8.9	-0.6	-8.0823 ug/L	-8.0823 ppb	23:40:21
3	K 766.490 Radial†	4064.5	1103.7	243.60 ug/L	243.60 ppb	23:40:01
3	Mg 279.077 IEC†	3.8	0.6	26.939 ug/L	26.939 ppb	23:40:21
3	Na 589.592 Radial†	32.1	414.6	166.71 ug/L	166.71 ppb	23:40:01
3	Sr 421.552†	73.4	25.5	0.2306 ug/L	0.2306 ppb	23:40:01
3	Sc 361.383	820660.7	820660.7	111.99 %		23:41:18
3	Y 371.029	674829.3	674829.3	111.65 %		23:41:18
3	Ag 328.068†	249.7	70.8	0.3963 ug/L	0.3963 ppb	23:41:18
3	As 188.979†	-36.6	-10.4	-6.2900 ug/L	-6.2900 ppb	23:41:38
3	B 249.677†	699.6	959.7	28.885 ug/L	28.885 ppb	23:41:38
3	Ba 233.527†	73.7	63.3	0.6661 ug/L	0.6661 ppb	23:41:38
3	Be 313.107†	-3768.4	526.6	0.2473 ug/L	0.2473 ppb	23:41:18
3	Cd 226.502†	-168.3	20.9	0.3427 ug/L	0.3427 ppb	23:41:38
3	Co 228.616†	-38.7	12.2	0.3461 ug/L	0.3461 ppb	23:41:38
3	Cr 267.716†	168.6	55.5	0.8460 ug/L	0.8460 ppb	23:41:38
3	Cu 324.752†	8189.2	1595.5	5.6889 ug/L	5.6889 ppb	23:41:18
3	Mn 257.610†	1007.6	474.2	0.6901 ug/L	0.6901 ppb	23:41:38
3	Mo 202.031†	7.9	-9.7	-0.9832 ug/L	-0.9832 ppb	23:41:38
3	Ni 231.604†	101.5	8.1	0.2900 ug/L	0.2900 ppb	23:41:38
3	P 214.914†	206.9	-3.7	-4.1629 ug/L	-4.1629 ppb	23:41:38
3	Pb 220.353†	-46.4	7.6	1.3235 ug/L	1.3235 ppb	23:41:38
3	S 181.975 Axial†	63.6	29.7	57.660 ug/L	57.660 ppb	23:41:38
3	Sb 206.836†	33.6	4.4	1.9698 ug/L	1.9698 ppb	23:41:38
3	Se 196.026†	-18.5	5.2	4.6369 ug/L	4.6369 ppb	23:41:38
3	Si 251.611†	58140.6	51460.7	2126.0 ug/L	2126.0 ppb	23:41:18
3	Sn 189.927†	-1.2	-14.7	-3.7255 ug/L	-3.7255 ppb	23:41:38
3	Ti 334.940†	-796.8	332.8	0.6373 ug/L	0.6373 ppb	23:41:18
3	Tl 190.801†	-32.7	-6.9	-2.9690 ug/L	-2.9690 ppb	23:41:38
3	U 409.014†	-1678.8	334.9	11.388 ug/L	11.388 ppb	23:41:18
3	V 292.402†	-1358.5	167.5	1.5124 ug/L	1.5124 ppb	23:41:18
3	Zn 213.857†	1220.9	430.4	5.7386 ug/L	5.7386 ppb	23:41:38
3	SiO2†	59117.2	52324.4	4605.3 ug/L	4605.3 ppb	23:41:54

Mean Data: 1202056810|959089|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832079.8	113.55 %	1.946			1.71%
Sc Radial	4254.1	112 %	1.4			1.25%
Y 371.029	683825.9	113.14 %	1.896			1.68%
Y RADIAL	4698.8	115.1 %	1.54			1.34%
Ag 328.068†	9.8	0.0535 ug/L	0.43226	0.0535 ppb	0.43226	807.77%
Al 396.153Radial†	25.1	29.897 ug/L	1.0936	29.897 ppb	1.0936	3.66%
As 188.979†	-3.7	-2.2476 ug/L	3.53480	-2.2476 ppb	3.53480	157.27%
B 249.677†	948.1	28.536 ug/L	0.4368	28.536 ppb	0.4368	1.53%
Ba 233.527†	63.5	0.6692 ug/L	0.03842	0.6692 ppb	0.03842	5.74%
Be 313.107†	476.2	0.2237 ug/L	0.02659	0.2237 ppb	0.02659	11.88%
Ca 317.933Radial†	29.8	66.717 ug/L	8.1539	66.717 ppb	8.1539	12.22%
Cd 226.502†	22.2	0.3624 ug/L	0.04175	0.3624 ppb	0.04175	11.52%
Co 228.616†	17.5	0.5004 ug/L	0.29820	0.5004 ppb	0.29820	59.59%
Cr 267.716†	50.5	0.7721 ug/L	0.09338	0.7721 ppb	0.09338	12.09%
Cu 324.752†	1568.9	5.5954 ug/L	0.28260	5.5954 ppb	0.28260	5.05%
Fe 238.204 Radial†	0.1	0.8091 ug/L	8.78558	0.8091 ppb	8.78558	>999.9%
K 766.490 Radial†	1163.7	256.83 ug/L	13.861	256.83 ppb	13.861	5.40%

Mg 279.077 IEC†	0.1	4.0607 ug/L	20.50490	4.0607 ppb	20.50490	504.96%
Mn 257.610†	465.4	0.6792 ug/L	0.02311	0.6792 ppb	0.02311	3.40%
Mo 202.031†	-0.5	-0.0504 ug/L	0.81609	-0.0504 ppb	0.81609	>999.9%
Na 589.592 Radial†	407.8	163.99 ug/L	13.391	163.99 ppb	13.391	8.17%
Ni 231.604†	9.2	0.3300 ug/L	0.24096	0.3300 ppb	0.24096	73.02%
P 214.914†	-10.9	-9.9627 ug/L	5.56358	-9.9627 ppb	5.56358	55.84%
Pb 220.353†	6.6	1.1427 ug/L	0.42144	1.1427 ppb	0.42144	36.88%
S 181.975 Axial†	28.4	55.194 ug/L	2.1716	55.194 ppb	2.1716	3.93%
Sb 206.836†	0.7	0.2621 ug/L	1.70971	0.2621 ppb	1.70971	652.32%
Se 196.026†	3.1	2.7803 ug/L	1.60817	2.7803 ppb	1.60817	57.84%
Si 251.611†	51532.7	2129.0 ug/L	2.57	2129.0 ppb	2.57	0.12%
Sn 189.927†	-10.7	-2.6932 ug/L	0.97359	-2.6932 ppb	0.97359	36.15%
Sr 421.552†	16.0	0.1445 ug/L	0.11276	0.1445 ppb	0.11276	78.05%
Ti 334.940†	322.2	0.6205 ug/L	0.06004	0.6205 ppb	0.06004	9.68%
Tl 190.801†	-3.4	-1.4548 ug/L	1.36946	-1.4548 ppb	1.36946	94.14%
U 409.014†	267.9	9.1086 ug/L	2.75005	9.1086 ppb	2.75005	30.19%
V 292.402†	166.4	1.5096 ug/L	0.39077	1.5096 ppb	0.39077	25.89%
Zn 213.857†	417.0	5.5582 ug/L	0.18387	5.5582 ppb	0.18387	3.31%
SiO2†	51355.3	4519.9 ug/L	76.05	4519.9 ppb	76.05	1.68%

Sequence No.: 42

Sample ID: 1202056811|959089|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 3/26/2010 23:44:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056811|959089|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4319.7	4319.7	114 %		23:46:17
1	Y RADIAL	4633.9	4633.9	113.5 %		23:45:57
1	Al 396.153Radial†	4791.6	4274.7	5062.9 ug/L	5062.9 ppb	23:45:57
1	Ca 317.933Radial†	2649.8	2301.7	5156.8 ug/L	5156.8 ppb	23:46:17
1	Fe 238.204 Radial†	432.9	371.2	4921.1 ug/L	4921.1 ppb	23:46:17
1	K 766.490 Radial†	28613.3	22612.9	4988.1 ug/L	4988.1 ppb	23:45:57
1	Mg 279.077 IEC†	125.2	106.9	5058.0 ug/L	5058.0 ppb	23:46:17
1	Na 589.592 Radial†	13492.2	12217.8	4913.1 ug/L	4913.1 ppb	23:45:57
1	Sr 421.552†	59567.7	52196.5	473.83 ug/L	473.83 ppb	23:45:57
1	Sc 361.383	850126.8	850126.8	116.01 %		23:47:14
1	Y 371.029	691854.2	691854.2	114.46 %		23:47:14
1	Ag 328.068†	96010.4	82608.4	472.99 ug/L	472.99 ppb	23:47:19
1	As 188.979†	923.9	818.7	501.12 ug/L	501.12 ppb	23:47:39
1	B 249.677†	19109.4	16807.2	503.70 ug/L	503.70 ppb	23:47:19
1	Ba 233.527†	54177.4	46698.1	490.66 ug/L	490.66 ppb	23:47:19
1	Be 313.107†	1231378.9	1065334.7	498.46 ug/L	498.46 ppb	23:47:14
1	Cd 226.502†	33949.1	29435.1	478.18 ug/L	478.18 ppb	23:47:19
1	Co 228.616†	19452.6	16814.7	483.27 ug/L	483.27 ppb	23:47:19
1	Cr 267.716†	36758.5	31590.6	484.66 ug/L	484.66 ppb	23:47:19
1	Cu 324.752†	166987.7	138225.7	493.41 ug/L	493.41 ppb	23:47:19
1	Mn 257.610†	379306.7	326535.1	476.87 ug/L	476.87 ppb	23:47:19
1	Mo 202.031†	5617.0	4825.1	487.69 ug/L	487.69 ppb	23:47:39
1	Ni 231.604†	16089.4	13786.4	494.34 ug/L	494.34 ppb	23:47:19
1	P 214.914†	1002.3	675.6	450.02 ug/L	450.02 ppb	23:47:39
1	Pb 220.353†	3225.9	2829.8	490.92 ug/L	490.92 ppb	23:47:39
1	S 181.975 Axial†	3020.8	2576.8	5009.8 ug/L	5009.8 ppb	23:47:39
1	Sb 206.836†	1297.4	1092.7	524.48 ug/L	524.48 ppb	23:47:39
1	Se 196.026†	603.5	542.0	503.59 ug/L	503.59 ppb	23:47:39
1	Si 251.611†	191065.0	164241.4	6779.3 ug/L	6779.3 ppb	23:47:19
1	Sn 189.927†	2284.1	1955.3	496.35 ug/L	496.35 ppb	23:47:39
1	Ti 334.940†	286821.3	248283.0	474.69 ug/L	474.69 ppb	23:47:19
1	Tl 190.801†	1289.7	1134.0	492.20 ug/L	492.20 ppb	23:47:39
1	U 409.014†	15205.2	14940.8	506.42 ug/L	506.42 ppb	23:47:19
1	V 292.402†	61214.7	54147.4	492.71 ug/L	492.71 ppb	23:47:19
1	Zn 213.857†	43025.4	36427.9	481.87 ug/L	481.87 ppb	23:47:19
1	SiO2†	201693.8	173395.2	15248 ug/L	15248 ppb	23:48:46
2	Sc Radial	4313.0	4313.0	114 %		23:46:42
2	Y RADIAL	4763.4	4763.4	116.7 %		23:46:22
2	Al 396.153Radial†	4920.1	4394.0	5204.6 ug/L	5204.6 ppb	23:46:22
2	Ca 317.933Radial†	2640.7	2297.3	5146.9 ug/L	5146.9 ppb	23:46:42
2	Fe 238.204 Radial†	434.8	373.4	4950.9 ug/L	4950.9 ppb	23:46:42
2	K 766.490 Radial†	29297.0	23252.2	5129.2 ug/L	5129.2 ppb	23:46:22
2	Mg 279.077 IEC†	124.5	106.5	5038.2 ug/L	5038.2 ppb	23:46:42
2	Na 589.592 Radial†	13818.6	12522.8	5035.8 ug/L	5035.8 ppb	23:46:22
2	Sr 421.552†	61386.9	53875.1	489.07 ug/L	489.07 ppb	23:46:22
2	Sc 361.383	847111.6	847111.6	115.60 %		23:47:45
2	Y 371.029	688994.4	688994.4	113.99 %		23:47:45
2	Ag 328.068†	99649.3	86050.8	492.65 ug/L	492.65 ppb	23:47:50
2	As 188.979†	938.1	833.8	510.48 ug/L	510.48 ppb	23:48:10
2	B 249.677†	19874.6	17527.8	525.32 ug/L	525.32 ppb	23:47:50
2	Ba 233.527†	56272.0	48676.3	511.44 ug/L	511.44 ppb	23:47:50
2	Be 313.107†	1230489.9	1068343.7	499.91 ug/L	499.91 ppb	23:47:45
2	Cd 226.502†	35267.1	30679.4	498.41 ug/L	498.41 ppb	23:47:50
2	Co 228.616†	20182.0	17505.4	503.08 ug/L	503.08 ppb	23:47:50
2	Cr 267.716†	38141.5	32899.7	504.73 ug/L	504.73 ppb	23:47:50
2	Cu 324.752†	173870.4	144692.0	516.48 ug/L	516.48 ppb	23:47:50
2	Mn 257.610†	393690.9	340142.2	496.73 ug/L	496.73 ppb	23:47:50
2	Mo 202.031†	5667.6	4886.1	493.85 ug/L	493.85 ppb	23:48:10
2	Ni 231.604†	16639.5	14311.7	513.17 ug/L	513.17 ppb	23:47:50

2	P 214.914†	988.3	666.5	438.17 ug/L	438.17 ppb	23:48:10
2	Pb 220.353†	3244.5	2855.8	495.44 ug/L	495.44 ppb	23:48:10
2	S 181.975 Axial†	3048.4	2609.9	5074.1 ug/L	5074.1 ppb	23:48:10
2	Sb 206.836†	1311.4	1108.8	532.11 ug/L	532.11 ppb	23:48:10
2	Se 196.026†	604.7	544.8	506.26 ug/L	506.26 ppb	23:48:10
2	Si 251.611†	198725.3	171454.3	7077.2 ug/L	7077.2 ppb	23:47:50
2	Sn 189.927†	2294.4	1971.2	500.38 ug/L	500.38 ppb	23:48:10
2	Ti 334.940†	298530.0	259291.8	495.72 ug/L	495.72 ppb	23:47:50
2	Tl 190.801†	1311.1	1156.4	502.01 ug/L	502.01 ppb	23:48:10
2	U 409.014†	16027.4	15698.7	532.14 ug/L	532.14 ppb	23:47:50
2	V 292.402†	63626.9	56421.9	513.23 ug/L	513.23 ppb	23:47:50
2	Zn 213.857†	44556.3	37884.2	501.16 ug/L	501.16 ppb	23:47:50
2	SiO2†	200651.9	173112.7	15223 ug/L	15223 ppb	23:48:52
3	Sc Radial	4271.2	4271.2	113 %		23:47:07
3	Y RADIAL	4704.4	4704.4	115.2 %		23:46:47
3	Al 396.153Radial†	4834.8	4360.8	5165.3 ug/L	5165.3 ppb	23:46:47
3	Ca 317.933Radial†	2629.9	2310.5	5176.4 ug/L	5176.4 ppb	23:47:07
3	Fe 238.204 Radial†	429.3	372.3	4935.9 ug/L	4935.9 ppb	23:47:07
3	K 766.490 Radial†	28844.7	23103.4	5096.3 ug/L	5096.3 ppb	23:46:47
3	Mg 279.077 IEC†	124.9	108.0	5107.2 ug/L	5107.2 ppb	23:47:07
3	Na 589.592 Radial†	13523.6	12380.1	4978.4 ug/L	4978.4 ppb	23:46:47
3	Sr 421.552†	60186.9	53339.5	484.21 ug/L	484.21 ppb	23:46:47
3	Sc 361.383	858661.0	858661.0	117.17 %		23:48:15
3	Y 371.029	698944.4	698944.4	115.64 %		23:48:15
3	Ag 328.068†	98072.2	83545.4	478.34 ug/L	478.34 ppb	23:48:21
3	As 188.979†	956.0	838.2	513.00 ug/L	513.00 ppb	23:48:41
3	B 249.677†	19566.4	17033.5	510.49 ug/L	510.49 ppb	23:48:21
3	Ba 233.527†	55280.8	47175.6	495.68 ug/L	495.68 ppb	23:48:21
3	Be 313.107†	1245806.5	1067097.8	499.30 ug/L	499.30 ppb	23:48:15
3	Cd 226.502†	34656.6	29748.1	483.27 ug/L	483.27 ppb	23:48:21
3	Co 228.616†	19809.7	16952.8	487.23 ug/L	487.23 ppb	23:48:21
3	Cr 267.716†	37478.1	31889.8	489.25 ug/L	489.25 ppb	23:48:21
3	Cu 324.752†	171098.0	140302.8	500.82 ug/L	500.82 ppb	23:48:21
3	Mn 257.610†	386703.6	329598.1	481.34 ug/L	481.34 ppb	23:48:21
3	Mo 202.031†	5702.8	4850.1	490.22 ug/L	490.22 ppb	23:48:41
3	Ni 231.604†	16359.6	13879.2	497.67 ug/L	497.67 ppb	23:48:21
3	P 214.914†	996.9	662.3	437.86 ug/L	437.86 ppb	23:48:41
3	Pb 220.353†	3254.9	2826.9	490.44 ug/L	490.44 ppb	23:48:41
3	S 181.975 Axial†	3075.1	2597.3	5049.6 ug/L	5049.6 ppb	23:48:41
3	Sb 206.836†	1329.6	1109.1	532.10 ug/L	532.10 ppb	23:48:41
3	Se 196.026†	612.9	544.8	506.18 ug/L	506.18 ppb	23:48:41
3	Si 251.611†	195348.6	166260.2	6862.7 ug/L	6862.7 ppb	23:48:21
3	Sn 189.927†	2300.8	1949.9	494.99 ug/L	494.99 ppb	23:48:41
3	Ti 334.940†	293473.2	251502.6	480.84 ug/L	480.84 ppb	23:48:21
3	Tl 190.801†	1317.1	1146.3	497.55 ug/L	497.55 ppb	23:48:41
3	U 409.014†	15729.7	15258.2	517.19 ug/L	517.19 ppb	23:48:21
3	V 292.402†	62540.3	54754.2	498.20 ug/L	498.20 ppb	23:48:21
3	Zn 213.857†	43863.3	36774.4	486.46 ug/L	486.46 ppb	23:48:21
3	SiO2†	195866.2	166693.7	14658 ug/L	14658 ppb	23:48:57

Mean Data: 1202056811|959089|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	851966.5	116.26 %	0.817			0.70%
Sc Radial	4301.3	114 %	0.7			0.61%
Y 371.029	693264.3	114.70 %	0.848			0.74%
Y RADIAL	4700.6	115.1 %	1.59			1.38%
Ag 328.068†	84068.2	481.33 ug/L	10.163	481.33 ppb	10.163	2.11%
Al 396.153Radial†	4343.2	5144.3 ug/L	73.17	5144.3 ppb	73.17	1.42%
As 188.979†	830.2	508.20 ug/L	6.260	508.20 ppb	6.260	1.23%
B 249.677†	17122.8	513.17 ug/L	11.059	513.17 ppb	11.059	2.16%
Ba 233.527†	47516.7	499.26 ug/L	10.843	499.26 ppb	10.843	2.17%
Be 313.107†	1066925.4	499.22 ug/L	0.729	499.22 ppb	0.729	0.15%
Ca 317.933Radial†	2303.2	5160.0 ug/L	14.99	5160.0 ppb	14.99	0.29%
Cd 226.502†	29954.2	486.62 ug/L	10.524	486.62 ppb	10.524	2.16%
Co 228.616†	17091.0	491.19 ug/L	10.487	491.19 ppb	10.487	2.13%
Cr 267.716†	32126.7	492.88 ug/L	10.514	492.88 ppb	10.514	2.13%
Cu 324.752†	141073.5	503.57 ug/L	11.778	503.57 ppb	11.778	2.34%
Fe 238.204 Radial†	372.3	4935.9 ug/L	14.91	4935.9 ppb	14.91	0.30%
K 766.490 Radial†	22989.5	5071.2 ug/L	73.83	5071.2 ppb	73.83	1.46%

Mg 279.077 IEC†	107.2	5067.8 ug/L	35.56	5067.8 ppb	35.56	0.70%
Mn 257.610†	332091.8	484.98 ug/L	10.420	484.98 ppb	10.420	2.15%
Mo 202.031†	4853.8	490.58 ug/L	3.098	490.58 ppb	3.098	0.63%
Na 589.592 Radial†	12373.6	4975.8 ug/L	61.36	4975.8 ppb	61.36	1.23%
Ni 231.604†	13992.4	501.73 ug/L	10.052	501.73 ppb	10.052	2.00%
P 214.914†	668.1	442.02 ug/L	6.930	442.02 ppb	6.930	1.57%
Pb 220.353†	2837.5	492.27 ug/L	2.757	492.27 ppb	2.757	0.56%
S 181.975 Axial†	2594.7	5044.5 ug/L	32.48	5044.5 ppb	32.48	0.64%
Sb 206.836†	1103.6	529.56 ug/L	4.405	529.56 ppb	4.405	0.83%
Se 196.026†	543.8	505.34 ug/L	1.523	505.34 ppb	1.523	0.30%
Si 251.611†	167318.7	6906.4 ug/L	153.69	6906.4 ppb	153.69	2.23%
Sn 189.927†	1958.8	497.24 ug/L	2.804	497.24 ppb	2.804	0.56%
Sr 421.552†	53137.0	482.37 ug/L	7.784	482.37 ppb	7.784	1.61%
Ti 334.940†	253025.8	483.75 ug/L	10.815	483.75 ppb	10.815	2.24%
Tl 190.801†	1145.6	497.26 ug/L	4.913	497.26 ppb	4.913	0.99%
U 409.014†	15299.2	518.58 ug/L	12.918	518.58 ppb	12.918	2.49%
V 292.402†	55107.8	501.38 ug/L	10.624	501.38 ppb	10.624	2.12%
Zn 213.857†	37028.8	489.83 ug/L	10.077	489.83 ppb	10.077	2.06%
SiO2†	171067.2	15043 ug/L	333.6	15043 ppb	333.6	2.22%

Sequence No.: 43
 Sample ID: 1202056812|959089|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 58
 Date Collected: 3/26/2010 23:51:07
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056812|959089|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4086.7	4086.7	108 %		23:53:20
1	Y RADIAL	4351.7	4351.7	106.6 %		23:53:00
1	Al 396.153Radial†	-72.6	5.6	6.6328 ug/L	6.6328 ppb	23:53:20
1	Ca 317.933Radial†	30.8	6.6	14.898 ug/L	14.898 ppb	23:53:20
1	Fe 238.204 Radial†	8.2	-0.9	-11.243 ug/L	-11.243 ppb	23:53:20
1	K 766.490 Radial†	2782.7	100.8	22.271 ug/L	22.271 ppb	23:53:00
1	Mg 279.077 IEC†	2.3	-0.7	-33.783 ug/L	-33.783 ppb	23:53:20
1	Na 589.592 Radial†	-501.5	-78.5	-31.562 ug/L	-31.562 ppb	23:53:00
1	Sr 421.552†	43.3	0.8	0.0075 ug/L	0.0075 ppb	23:53:00
1	Sc 361.383	813764.2	813764.2	111.05 %		23:54:17
1	Y 371.029	667764.2	667764.2	110.48 %		23:54:17
1	Ag 328.068†	207.9	35.1	0.1918 ug/L	0.1918 ppb	23:54:17
1	As 188.979†	-20.8	3.6	2.1666 ug/L	2.1666 ppb	23:54:37
1	B 249.677†	-30.9	307.1	9.2449 ug/L	9.2449 ppb	23:54:37
1	Ba 233.527†	29.5	24.0	0.2524 ug/L	0.2524 ppb	23:54:37
1	Be 313.107†	-3923.8	358.1	0.1678 ug/L	0.1678 ppb	23:54:17
1	Cd 226.502†	-157.0	29.8	0.4859 ug/L	0.4859 ppb	23:54:37
1	Co 228.616†	-35.1	15.1	0.4320 ug/L	0.4320 ppb	23:54:37
1	Cr 267.716†	121.1	13.9	0.2101 ug/L	0.2101 ppb	23:54:37
1	Cu 324.752†	6375.5	24.3	0.0819 ug/L	0.0819 ppb	23:54:17
1	Mn 257.610†	557.6	76.6	0.1121 ug/L	0.1121 ppb	23:54:37
1	Mo 202.031†	14.2	-3.9	-0.3981 ug/L	-0.3981 ppb	23:54:37
1	Ni 231.604†	86.4	-4.8	-0.1718 ug/L	-0.1718 ppb	23:54:37
1	P 214.914†	191.3	-16.2	-13.124 ug/L	-13.124 ppb	23:54:37
1	Pb 220.353†	-53.7	0.7	0.1195 ug/L	0.1195 ppb	23:54:37
1	S 181.975 Axial†	42.5	11.1	21.650 ug/L	21.650 ppb	23:54:37
1	Sb 206.836†	33.6	4.6	2.1114 ug/L	2.1114 ppb	23:54:37
1	Se 196.026†	-16.2	7.2	6.4337 ug/L	6.4337 ppb	23:54:37
1	Si 251.611†	12431.7	10739.2	443.67 ug/L	443.67 ppb	23:54:17
1	Sn 189.927†	8.8	-5.7	-1.4445 ug/L	-1.4445 ppb	23:54:37
1	Ti 334.940†	-1012.2	132.8	0.2553 ug/L	0.2553 ppb	23:54:17
1	Tl 190.801†	-22.4	2.1	0.8913 ug/L	0.8913 ppb	23:54:37
1	U 409.014†	-1786.8	225.0	7.6508 ug/L	7.6508 ppb	23:54:17
1	V 292.402†	-1467.1	59.4	0.5430 ug/L	0.5430 ppb	23:54:17
1	Zn 213.857†	813.1	72.4	0.9694 ug/L	0.9694 ppb	23:54:37
1	SiO2†	12498.3	10790.9	949.75 ug/L	949.75 ppb	23:55:33
2	Sc Radial	4234.2	4234.2	112 %		23:53:45
2	Y RADIAL	4657.3	4657.3	114.1 %		23:53:25
2	Al 396.153Radial†	-76.5	4.4	5.2899 ug/L	5.2899 ppb	23:53:45
2	Ca 317.933Radial†	32.0	6.7	15.037 ug/L	15.037 ppb	23:53:45
2	Fe 238.204 Radial†	8.2	-1.1	-14.797 ug/L	-14.797 ppb	23:53:45
2	K 766.490 Radial†	2813.6	38.6	8.5197 ug/L	8.5197 ppb	23:53:25
2	Mg 279.077 IEC†	1.3	-1.6	-75.990 ug/L	-75.990 ppb	23:53:45
2	Na 589.592 Radial†	-510.9	-70.8	-28.459 ug/L	-28.459 ppb	23:53:25
2	Sr 421.552†	6.1	-33.8	-0.3066 ug/L	-0.3066 ppb	23:53:25
2	Sc 361.383	815971.6	815971.6	111.35 %		23:54:42
2	Y 371.029	670193.0	670193.0	110.88 %		23:54:42
2	Ag 328.068†	98.8	-63.4	-0.3673 ug/L	-0.3673 ppb	23:54:42
2	As 188.979†	-20.4	4.0	2.4116 ug/L	2.4116 ppb	23:55:02
2	B 249.677†	-33.3	305.1	9.1850 ug/L	9.1850 ppb	23:55:02
2	Ba 233.527†	10.0	6.4	0.0689 ug/L	0.0689 ppb	23:55:02
2	Be 313.107†	-3987.2	310.8	0.1457 ug/L	0.1457 ppb	23:54:42
2	Cd 226.502†	-166.0	22.0	0.3608 ug/L	0.3608 ppb	23:55:02
2	Co 228.616†	-50.6	1.3	0.0336 ug/L	0.0336 ppb	23:55:02
2	Cr 267.716†	117.8	10.7	0.1608 ug/L	0.1608 ppb	23:55:02
2	Cu 324.752†	6409.3	39.1	0.1349 ug/L	0.1349 ppb	23:54:42
2	Mn 257.610†	564.0	80.9	0.1198 ug/L	0.1198 ppb	23:55:02
2	Mo 202.031†	7.0	-10.5	-1.0613 ug/L	-1.0613 ppb	23:55:02
2	Ni 231.604†	85.2	-6.0	-0.2155 ug/L	-0.2155 ppb	23:55:02

2	P 214.914†	195.8	-12.6	-10.243 ug/L	-10.243 ppb	23:55:02
2	Pb 220.353†	-49.2	4.9	0.8425 ug/L	0.8425 ppb	23:55:02
2	S 181.975 Axial†	34.9	4.2	8.1908 ug/L	8.1908 ppb	23:55:02
2	Sb 206.836†	28.8	0.2	0.0397 ug/L	0.0397 ppb	23:55:02
2	Se 196.026†	-14.8	8.4	7.5161 ug/L	7.5161 ppb	23:55:02
2	Si 251.611†	12399.6	10680.1	441.24 ug/L	441.24 ppb	23:54:42
2	Sn 189.927†	0.7	-13.0	-3.3006 ug/L	-3.3006 ppb	23:55:02
2	Ti 334.940†	-1016.4	131.5	0.2566 ug/L	0.2566 ppb	23:54:42
2	Tl 190.801†	-11.7	11.8	5.0755 ug/L	5.0755 ppb	23:55:02
2	U 409.014†	-1819.9	199.6	6.7875 ug/L	6.7875 ppb	23:54:42
2	V 292.402†	-1416.6	108.3	0.9711 ug/L	0.9711 ppb	23:54:42
2	Zn 213.857†	824.1	80.3	1.0753 ug/L	1.0753 ppb	23:55:02
2	SiO2†	12323.7	10603.7	933.29 ug/L	933.29 ppb	23:55:38
3	Sc Radial	4174.4	4174.4	110 %		23:54:10
3	Y RADIAL	4556.6	4556.6	111.6 %		23:53:50
3	Al 396.153Radial†	-69.4	9.9	11.766 ug/L	11.766 ppb	23:54:10
3	Ca 317.933Radial†	33.9	8.9	19.859 ug/L	19.859 ppb	23:54:10
3	Fe 238.204 Radial†	6.8	-2.3	-30.507 ug/L	-30.507 ppb	23:54:10
3	K 766.490 Radial†	2850.4	108.0	23.863 ug/L	23.863 ppb	23:53:50
3	Mg 279.077 IEC†	1.2	-1.8	-83.399 ug/L	-83.399 ppb	23:54:10
3	Na 589.592 Radial†	-533.9	-98.1	-39.463 ug/L	-39.463 ppb	23:53:50
3	Sr 421.552†	52.1	8.0	0.0722 ug/L	0.0722 ppb	23:53:50
3	Sc 361.383	818272.9	818272.9	111.66 %		23:55:08
3	Y 371.029	672935.5	672935.5	111.33 %		23:55:08
3	Ag 328.068†	227.3	51.4	0.2847 ug/L	0.2847 ppb	23:55:08
3	As 188.979†	-16.4	7.6	4.6133 ug/L	4.6133 ppb	23:55:28
3	B 249.677†	-11.7	324.5	9.7699 ug/L	9.7699 ppb	23:55:28
3	Ba 233.527†	14.9	10.8	0.1141 ug/L	0.1141 ppb	23:55:28
3	Be 313.107†	-3875.6	420.8	0.1971 ug/L	0.1971 ppb	23:55:08
3	Cd 226.502†	-160.5	27.4	0.4490 ug/L	0.4490 ppb	23:55:28
3	Co 228.616†	-41.6	9.5	0.2728 ug/L	0.2728 ppb	23:55:28
3	Cr 267.716†	127.0	18.7	0.2837 ug/L	0.2837 ppb	23:55:28
3	Cu 324.752†	6365.8	-16.1	-0.0600 ug/L	-0.0600 ppb	23:55:08
3	Mn 257.610†	575.2	89.6	0.1311 ug/L	0.1311 ppb	23:55:28
3	Mo 202.031†	18.5	-0.2	-0.0227 ug/L	-0.0227 ppb	23:55:28
3	Ni 231.604†	86.9	-4.8	-0.1709 ug/L	-0.1709 ppb	23:55:28
3	P 214.914†	180.5	-26.8	-21.650 ug/L	-21.650 ppb	23:55:28
3	Pb 220.353†	-51.6	2.9	0.5040 ug/L	0.5040 ppb	23:55:28
3	S 181.975 Axial†	33.8	3.2	6.1843 ug/L	6.1843 ppb	23:55:28
3	Sb 206.836†	36.3	6.9	3.1811 ug/L	3.1811 ppb	23:55:28
3	Se 196.026†	-18.4	5.3	4.6612 ug/L	4.6612 ppb	23:55:28
3	Si 251.611†	12319.1	10576.6	436.95 ug/L	436.95 ppb	23:55:08
3	Sn 189.927†	9.9	-4.8	-1.2117 ug/L	-1.2117 ppb	23:55:28
3	Ti 334.940†	-997.3	151.2	0.2978 ug/L	0.2978 ppb	23:55:08
3	Tl 190.801†	-16.8	7.2	3.1240 ug/L	3.1240 ppb	23:55:28
3	U 409.014†	-1990.9	51.1	1.7392 ug/L	1.7392 ppb	23:55:08
3	V 292.402†	-1434.1	96.3	0.8697 ug/L	0.8697 ppb	23:55:08
3	Zn 213.857†	823.7	77.8	1.0451 ug/L	1.0451 ppb	23:55:28
3	SiO2†	12292.5	10544.6	928.06 ug/L	928.06 ppb	23:55:43

Mean Data: 1202056812|959089|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816002.9	111.35	%	0.308			0.28%
Sc Radial	4165.1	110	%	2.0			1.78%
Y 371.029	670297.6	110.90	%	0.428			0.39%
Y RADIAL	4521.9	110.8	%	3.81			3.44%
Ag 328.068†	7.7	0.0364	ug/L	0.35267	0.0364 ppb	0.35267	968.58%
Al 396.153Radial†	6.6	7.8963	ug/L	3.41800	7.8963 ppb	3.41800	43.29%
As 188.979†	5.0	3.0638	ug/L	1.34749	3.0638 ppb	1.34749	43.98%
B 249.677†	312.2	9.4000	ug/L	0.32180	9.4000 ppb	0.32180	3.42%
Ba 233.527†	13.7	0.1452	ug/L	0.09559	0.1452 ppb	0.09559	65.85%
Be 313.107†	363.2	0.1702	ug/L	0.02581	0.1702 ppb	0.02581	15.17%
Ca 317.933Radial†	7.4	16.598	ug/L	2.8251	16.598 ppb	2.8251	17.02%
Cd 226.502†	26.4	0.4319	ug/L	0.06427	0.4319 ppb	0.06427	14.88%
Co 228.616†	8.6	0.2461	ug/L	0.20055	0.2461 ppb	0.20055	81.48%
Cr 267.716†	14.4	0.2182	ug/L	0.06185	0.2182 ppb	0.06185	28.35%
Cu 324.752†	15.8	0.0523	ug/L	0.10078	0.0523 ppb	0.10078	192.85%
Fe 238.204 Radial†	-1.4	-18.849	ug/L	10.2513	-18.849 ppb	10.2513	54.39%
K 766.490 Radial†	82.5	18.218	ug/L	8.4365	18.218 ppb	8.4365	46.31%

Mg 279.077 IEC†	-1.4	-64.391 ug/L	26.7646	-64.391 ppb	26.7646	41.57%
Mn 257.610†	82.4	0.1210 ug/L	0.00960	0.1210 ppb	0.00960	7.94%
Mo 202.031†	-4.9	-0.4941 ug/L	0.52592	-0.4941 ppb	0.52592	106.45%
Na 589.592 Radial†	-82.5	-33.161 ug/L	5.6740	-33.161 ppb	5.6740	17.11%
Ni 231.604†	-5.2	-0.1861 ug/L	0.02551	-0.1861 ppb	0.02551	13.71%
P 214.914†	-18.5	-15.005 ug/L	5.9318	-15.005 ppb	5.9318	39.53%
Pb 220.353†	2.8	0.4887 ug/L	0.36173	0.4887 ppb	0.36173	74.02%
S 181.975 Axial†	6.2	12.008 ug/L	8.4102	12.008 ppb	8.4102	70.04%
Sb 206.836†	3.9	1.7774 ug/L	1.59713	1.7774 ppb	1.59713	89.86%
Se 196.026†	6.9	6.2037 ug/L	1.44126	6.2037 ppb	1.44126	23.23%
Si 251.611†	10665.3	440.62 ug/L	3.403	440.62 ppb	3.403	0.77%
Sn 189.927†	-7.8	-1.9856 ug/L	1.14479	-1.9856 ppb	1.14479	57.65%
Sr 421.552†	-8.3	-0.0757 ug/L	0.20264	-0.0757 ppb	0.20264	267.86%
Ti 334.940†	138.5	0.2699 ug/L	0.02415	0.2699 ppb	0.02415	8.95%
Tl 190.801†	7.0	3.0302 ug/L	2.09368	3.0302 ppb	2.09368	69.09%
U 409.014†	158.5	5.3925 ug/L	3.19314	5.3925 ppb	3.19314	59.21%
V 292.402†	88.0	0.7946 ug/L	0.22369	0.7946 ppb	0.22369	28.15%
Zn 213.857†	76.8	1.0300 ug/L	0.05454	1.0300 ppb	0.05454	5.30%
SiO2†	10646.4	937.04 ug/L	11.320	937.04 ppb	11.320	1.21%

Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/27/2010 00:04:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4205.2	4205.2	111 %			00:06:53
1	Y RADIAL	4653.7	4653.7	114.0 %			00:06:33
1	Al 396.153Radial†	4789.3	4387.0	5195.4 ug/L	5195.4 ppb	5195.4 ppb	00:06:33
1	Ca 317.933Radial†	2576.0	2298.5	5149.6 ug/L	5149.6 ppb	5149.6 ppb	00:06:53
1	Fe 238.204 Radial†	422.1	371.8	4929.9 ug/L	4929.9 ppb	4929.9 ppb	00:06:53
1	K 766.490 Radial†	27113.0	21944.5	4838.8 ug/L	4838.8 ppb	4838.8 ppb	00:06:33
1	Mg 279.077 IEC†	122.2	107.2	5071.4 ug/L	5071.4 ppb	5071.4 ppb	00:06:53
1	Na 589.592 Radial†	25164.1	23053.8	9270.6 ug/L	9270.6 ppb	9270.6 ppb	00:06:33
1	Sr 421.552†	58287.3	52465.2	476.27 ug/L	476.27 ppb	476.27 ppb	00:06:33
1	Sc 361.383	838515.4	838515.4	114.43 %			00:07:51
1	Y 371.029	683287.2	683287.2	113.05 %			00:07:51
1	Ag 328.068†	103243.2	90075.4	515.57 ug/L	515.57 ppb	515.57 ppb	00:07:56
1	As 188.979†	942.9	846.3	518.11 ug/L	518.11 ppb	518.11 ppb	00:08:16
1	B 249.677†	18855.4	16813.3	503.78 ug/L	503.78 ppb	503.78 ppb	00:07:56
1	Ba 233.527†	55576.1	48567.2	510.31 ug/L	510.31 ppb	510.31 ppb	00:07:56
1	Be 313.107†	1240187.1	1087730.7	508.98 ug/L	508.98 ppb	508.98 ppb	00:07:51
1	Cd 226.502†	35742.0	31407.2	510.24 ug/L	510.24 ppb	510.24 ppb	00:07:56
1	Co 228.616†	20605.1	18054.1	518.88 ug/L	518.88 ppb	518.88 ppb	00:07:56
1	Cr 267.716†	38245.5	33328.9	511.31 ug/L	511.31 ppb	511.31 ppb	00:07:56
1	Cu 324.752†	169241.6	142188.6	507.55 ug/L	507.55 ppb	507.55 ppb	00:07:56
1	Mn 257.610†	392552.1	342638.3	500.37 ug/L	500.37 ppb	500.37 ppb	00:07:51
1	Mo 202.031†	5824.4	5073.4	512.76 ug/L	512.76 ppb	512.76 ppb	00:08:16
1	Ni 231.604†	16714.7	14525.0	520.82 ug/L	520.82 ppb	520.82 ppb	00:07:56
1	P 214.914†	3811.1	3142.2	2441.1 ug/L	2441.1 ppb	2441.1 ppb	00:08:16
1	Pb 220.353†	3297.4	2930.8	508.47 ug/L	508.47 ppb	508.47 ppb	00:08:16
1	S 181.975 Axial†	635.5	528.3	1026.3 ug/L	1026.3 ppb	1026.3 ppb	00:08:16
1	Sb 206.836†	1297.1	1107.9	532.23 ug/L	532.23 ppb	532.23 ppb	00:08:16
1	Se 196.026†	630.7	573.0	531.60 ug/L	531.60 ppb	531.60 ppb	00:08:16
1	Si 251.611†	71825.7	62315.1	2568.1 ug/L	2568.1 ppb	2568.1 ppb	00:07:56
1	Sn 189.927†	2310.0	2005.1	508.98 ug/L	508.98 ppb	508.98 ppb	00:08:16
1	Ti 334.940†	300764.1	263891.7	504.52 ug/L	504.52 ppb	504.52 ppb	00:07:56
1	Tl 190.801†	1329.7	1184.4	514.07 ug/L	514.07 ppb	514.07 ppb	00:08:16
1	U 409.014†	15429.6	15318.5	519.20 ug/L	519.20 ppb	519.20 ppb	00:07:56
1	V 292.402†	63483.1	56860.5	517.40 ug/L	517.40 ppb	517.40 ppb	00:07:56
1	Zn 213.857†	44725.0	38426.8	508.37 ug/L	508.37 ppb	508.37 ppb	00:07:56
1	SiO2†	70610.7	61245.0	5376.4 ug/L	5376.4 ppb	5376.4 ppb	00:09:23
2	Sc Radial	4195.5	4195.5	111 %			00:07:18
2	Y RADIAL	4633.0	4633.0	113.5 %			00:06:58
2	Al 396.153Radial†	4814.4	4419.6	5234.9 ug/L	5234.9 ppb	5234.9 ppb	00:06:58
2	Ca 317.933Radial†	2590.2	2316.7	5190.2 ug/L	5190.2 ppb	5190.2 ppb	00:07:18
2	Fe 238.204 Radial†	424.7	375.0	4972.2 ug/L	4972.2 ppb	4972.2 ppb	00:07:18
2	K 766.490 Radial†	27283.5	22154.9	4885.2 ug/L	4885.2 ppb	4885.2 ppb	00:06:58
2	Mg 279.077 IEC†	122.6	107.9	5101.6 ug/L	5101.6 ppb	5101.6 ppb	00:07:18
2	Na 589.592 Radial†	25222.8	23159.2	9313.0 ug/L	9313.0 ppb	9313.0 ppb	00:06:58
2	Sr 421.552†	58802.8	53051.9	481.60 ug/L	481.60 ppb	481.60 ppb	00:06:58
2	Sc 361.383	852862.4	852862.4	116.38 %			00:08:22
2	Y 371.029	694023.9	694023.9	114.82 %			00:08:22
2	Ag 328.068†	102823.8	88197.2	504.86 ug/L	504.86 ppb	504.86 ppb	00:08:27
2	As 188.979†	935.7	826.3	505.88 ug/L	505.88 ppb	505.88 ppb	00:08:47
2	B 249.677†	18923.9	16595.0	497.23 ug/L	497.23 ppb	497.23 ppb	00:08:27
2	Ba 233.527†	55239.6	47461.0	498.69 ug/L	498.69 ppb	498.69 ppb	00:08:27
2	Be 313.107†	1263462.1	1089496.9	509.78 ug/L	509.78 ppb	509.78 ppb	00:08:22
2	Cd 226.502†	35521.7	30692.5	498.61 ug/L	498.61 ppb	498.61 ppb	00:08:27
2	Co 228.616†	20455.7	17622.8	506.47 ug/L	506.47 ppb	506.47 ppb	00:08:27
2	Cr 267.716†	38041.7	32591.6	500.01 ug/L	500.01 ppb	500.01 ppb	00:08:27
2	Cu 324.752†	168625.2	139171.0	496.78 ug/L	496.78 ppb	496.78 ppb	00:08:27
2	Mn 257.610†	400803.3	343956.9	502.30 ug/L	502.30 ppb	502.30 ppb	00:08:22
2	Mo 202.031†	5756.3	4929.3	498.21 ug/L	498.21 ppb	498.21 ppb	00:08:47
2	Ni 231.604†	16585.9	14168.6	508.04 ug/L	508.04 ppb	508.04 ppb	00:08:27

2	P 214.914†	3780.0	3059.4	2376.3 ug/L	2376.3 ppb	00:08:47
2	Pb 220.353†	3281.8	2868.9	497.73 ug/L	497.73 ppb	00:08:47
2	S 181.975 Axial†	632.4	516.3	1003.0 ug/L	1003.0 ppb	00:08:47
2	Sb 206.836†	1278.8	1073.2	515.61 ug/L	515.61 ppb	00:08:47
2	Se 196.026†	620.1	554.5	515.12 ug/L	515.12 ppb	00:08:47
2	Si 251.611†	71594.6	61060.6	2516.5 ug/L	2516.5 ppb	00:08:27
2	Sn 189.927†	2291.7	1955.4	496.39 ug/L	496.39 ppb	00:08:47
2	Ti 334.940†	299185.9	258114.0	493.48 ug/L	493.48 ppb	00:08:27
2	Tl 190.801†	1305.8	1144.2	496.77 ug/L	496.77 ppb	00:08:47
2	U 409.014†	15257.9	14944.0	506.48 ug/L	506.48 ppb	00:08:27
2	V 292.402†	63097.1	55595.6	505.83 ug/L	505.83 ppb	00:08:27
2	Zn 213.857†	44540.9	37611.0	497.57 ug/L	497.57 ppb	00:08:27
2	SiO2†	69790.8	59502.4	5223.4 ug/L	5223.4 ppb	00:09:28
3	Sc Radial	4205.2	4205.2	111 %		00:07:44
3	Y RADIAL	4682.4	4682.4	114.7 %		00:07:24
3	Al 396.153Radial†	4880.1	4468.9	5293.3 ug/L	5293.3 ppb	00:07:24
3	Ca 317.933Radial†	2610.7	2329.8	5219.7 ug/L	5219.7 ppb	00:07:44
3	Fe 238.204 Radial†	428.9	377.9	5011.2 ug/L	5011.2 ppb	00:07:44
3	K 766.490 Radial†	27604.1	22387.3	4936.5 ug/L	4936.5 ppb	00:07:24
3	Mg 279.077 IEC†	123.5	108.4	5127.5 ug/L	5127.5 ppb	00:07:44
3	Na 589.592 Radial†	25314.0	23189.2	9325.1 ug/L	9325.1 ppb	00:07:24
3	Sr 421.552†	59377.3	53447.9	485.19 ug/L	485.19 ppb	00:07:24
3	Sc 361.383	842276.9	842276.9	114.94 %		00:08:53
3	Y 371.029	686076.6	686076.6	113.51 %		00:08:53
3	Ag 328.068†	101459.8	88120.8	504.43 ug/L	504.43 ppb	00:08:58
3	As 188.979†	930.4	831.8	509.20 ug/L	509.20 ppb	00:09:18
3	B 249.677†	18599.1	16516.7	494.87 ug/L	494.87 ppb	00:08:58
3	Ba 233.527†	54662.0	47555.0	499.67 ug/L	499.67 ppb	00:08:58
3	Be 313.107†	1247319.7	1089096.0	509.59 ug/L	509.59 ppb	00:08:53
3	Cd 226.502†	35169.8	30769.9	499.86 ug/L	499.86 ppb	00:08:58
3	Co 228.616†	20230.4	17647.8	507.20 ug/L	507.20 ppb	00:08:58
3	Cr 267.716†	37558.7	32582.1	499.87 ug/L	499.87 ppb	00:08:58
3	Cu 324.752†	165517.6	138288.1	493.64 ug/L	493.64 ppb	00:08:58
3	Mn 257.610†	396066.3	344163.6	502.61 ug/L	502.61 ppb	00:08:53
3	Mo 202.031†	5727.1	4966.0	501.92 ug/L	501.92 ppb	00:09:18
3	Ni 231.604†	16293.4	14093.2	505.33 ug/L	505.33 ppb	00:08:58
3	P 214.914†	3741.4	3066.7	2382.8 ug/L	2382.8 ppb	00:09:18
3	Pb 220.353†	3259.7	2885.1	500.56 ug/L	500.56 ppb	00:09:18
3	S 181.975 Axial†	626.6	518.0	1006.3 ug/L	1006.3 ppb	00:09:18
3	Sb 206.836†	1280.0	1088.0	522.59 ug/L	522.59 ppb	00:09:18
3	Se 196.026†	607.8	550.5	511.62 ug/L	511.62 ppb	00:09:18
3	Si 251.611†	70536.4	60913.0	2510.3 ug/L	2510.3 ppb	00:08:58
3	Sn 189.927†	2273.7	1964.5	498.69 ug/L	498.69 ppb	00:09:18
3	Ti 334.940†	294796.7	257526.0	492.36 ug/L	492.36 ppb	00:08:58
3	Tl 190.801†	1305.5	1158.1	502.73 ug/L	502.73 ppb	00:09:18
3	U 409.014†	14890.6	14789.2	501.22 ug/L	501.22 ppb	00:08:58
3	V 292.402†	62157.4	55459.3	504.64 ug/L	504.64 ppb	00:08:58
3	Zn 213.857†	43972.7	37597.7	497.40 ug/L	497.40 ppb	00:08:58
3	SiO2†	72009.6	62186.4	5459.6 ug/L	5459.6 ppb	00:09:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844551.6	115.25 %		1.015			0.88%
Sc Radial	4202.0	111 %		0.1			0.13%
Y 371.029	687795.9	113.79 %		0.922			0.81%
Y RADIAL	4656.4	114.1 %		0.61			0.53%
Ag 328.068†	88797.8	508.29 ug/L		6.309	508.29 ppb	6.309	1.24%
QC value within limits for Ag 328.068 Recovery = 101.66%							
Al 396.153Radial†	4425.2	5241.2 ug/L		49.30	5241.2 ppb	49.30	0.94%
QC value within limits for Al 396.153Radial Recovery = 104.82%							
As 188.979†	834.8	511.07 ug/L		6.324	511.07 ppb	6.324	1.24%
QC value within limits for As 188.979 Recovery = 102.21%							
B 249.677†	16641.7	498.63 ug/L		4.613	498.63 ppb	4.613	0.93%
QC value within limits for B 249.677 Recovery = 99.73%							
Ba 233.527†	47861.0	502.89 ug/L		6.442	502.89 ppb	6.442	1.28%
QC value within limits for Ba 233.527 Recovery = 100.58%							
Be 313.107†	1088774.5	509.45 ug/L		0.418	509.45 ppb	0.418	0.08%
QC value within limits for Be 313.107 Recovery = 101.89%							
Ca 317.933Radial†	2315.0	5186.5 ug/L		35.23	5186.5 ppb	35.23	0.68%

QC value within limits for Ca 317.933 Radial Recovery = 103.73%

Cd 226.502†	30956.5	502.90 ug/L	6.383	502.90 ppb	6.383	1.27%
QC value within limits for Cd 226.502 Recovery = 100.58%						
Co 228.616†	17774.9	510.85 ug/L	6.962	510.85 ppb	6.962	1.36%
QC value within limits for Co 228.616 Recovery = 102.17%						
Cr 267.716†	32834.2	503.73 ug/L	6.562	503.73 ppb	6.562	1.30%
QC value within limits for Cr 267.716 Recovery = 100.75%						
Cu 324.752†	139882.6	499.32 ug/L	7.294	499.32 ppb	7.294	1.46%
QC value within limits for Cu 324.752 Recovery = 99.86%						
Fe 238.204 Radial†	374.9	4971.1 ug/L	40.70	4971.1 ppb	40.70	0.82%
QC value within limits for Fe 238.204 Radial Recovery = 99.42%						
K 766.490 Radial†	22162.3	4886.8 ug/L	48.89	4886.8 ppb	48.89	1.00%
QC value within limits for K 766.490 Radial Recovery = 97.74%						
Mg 279.077 IEC†	107.8	5100.2 ug/L	28.09	5100.2 ppb	28.09	0.55%
QC value within limits for Mg 279.077 IEC Recovery = 102.00%						
Mn 257.610†	343586.3	501.76 ug/L	1.210	501.76 ppb	1.210	0.24%
QC value within limits for Mn 257.610 Recovery = 100.35%						
Mo 202.031†	4989.5	504.30 ug/L	7.562	504.30 ppb	7.562	1.50%
QC value within limits for Mo 202.031 Recovery = 100.86%						
Na 589.592 Radial†	23134.1	9302.9 ug/L	28.60	9302.9 ppb	28.60	0.31%
QC value within limits for Na 589.592 Radial Recovery = 93.03%						
Ni 231.604†	14262.3	511.40 ug/L	8.271	511.40 ppb	8.271	1.62%
QC value within limits for Ni 231.604 Recovery = 102.28%						
P 214.914†	3089.4	2400.1 ug/L	35.73	2400.1 ppb	35.73	1.49%
QC value within limits for P 214.914 Recovery = 96.00%						
Pb 220.353†	2894.9	502.25 ug/L	5.566	502.25 ppb	5.566	1.11%
QC value within limits for Pb 220.353 Recovery = 100.45%						
S 181.975 Axial†	520.9	1011.9 ug/L	12.60	1011.9 ppb	12.60	1.24%
QC value within limits for S 181.975 Axial Recovery = 101.19%						
Sb 206.836†	1089.7	523.47 ug/L	8.344	523.47 ppb	8.344	1.59%
QC value within limits for Sb 206.836 Recovery = 104.69%						
Se 196.026†	559.3	519.45 ug/L	10.674	519.45 ppb	10.674	2.05%
QC value within limits for Se 196.026 Recovery = 103.89%						
Si 251.611†	61429.5	2531.6 ug/L	31.74	2531.6 ppb	31.74	1.25%
QC value within limits for Si 251.611 Recovery = 101.27%						
Sn 189.927†	1975.0	501.35 ug/L	6.705	501.35 ppb	6.705	1.34%
QC value within limits for Sn 189.927 Recovery = 100.27%						
Sr 421.552†	52988.4	481.02 ug/L	4.489	481.02 ppb	4.489	0.93%
QC value within limits for Sr 421.552 Recovery = 96.20%						
Ti 334.940†	259843.9	496.79 ug/L	6.719	496.79 ppb	6.719	1.35%
QC value within limits for Ti 334.940 Recovery = 99.36%						
Tl 190.801†	1162.2	504.53 ug/L	8.789	504.53 ppb	8.789	1.74%
QC value within limits for Tl 190.801 Recovery = 100.91%						
U 409.014†	15017.2	508.97 ug/L	9.243	508.97 ppb	9.243	1.82%
QC value within limits for U 409.014 Recovery = 101.79%						
V 292.402†	55971.8	509.29 ug/L	7.051	509.29 ppb	7.051	1.38%
QC value within limits for V 292.402 Recovery = 101.86%						
Zn 213.857†	37878.5	501.11 ug/L	6.285	501.11 ppb	6.285	1.25%
QC value within limits for Zn 213.857 Recovery = 100.22%						
SiO2†	60977.9	5353.1 ug/L	119.77	5353.1 ppb	119.77	2.24%
QC value within limits for SiO2 Recovery = 100.11%						

All analyte(s) passed QC.

Sequence No.: 46
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/27/2010 00:11:43
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4234.9	4234.9	112 %			00:13:55
1	Y RADIAL	4547.8	4547.8	111.4 %			00:13:35
1	Al 396.153Radial†	-69.9	10.4	12.348 ug/L		12.348 ppb	00:13:55
1	Ca 317.933Radial†	26.4	1.7	3.8659 ug/L		3.8659 ppb	00:13:55
1	Fe 238.204 Radial†	4.8	-4.1	-54.792 ug/L		-54.792 ppb	00:13:55
1	K 766.490 Radial†	2601.1	-151.9	-33.518 ug/L		-33.518 ppb	00:13:35
1	Mg 279.077 IEC†	2.2	-0.8	-39.243 ug/L		-39.243 ppb	00:13:55
1	Na 589.592 Radial†	-582.4	-134.6	-54.143 ug/L		-54.143 ppb	00:13:35
1	Sr 421.552†	46.4	2.3	0.0205 ug/L		0.0205 ppb	00:13:35
1	Sc 361.383	823631.4	823631.4	112.39 %			00:14:52
1	Y 371.029	678592.1	678592.1	112.27 %			00:14:52
1	Ag 328.068†	232.1	54.4	0.2974 ug/L		0.2974 ppb	00:14:52
1	As 188.979†	-24.6	0.4	0.2236 ug/L		0.2236 ppb	00:15:12
1	B 249.677†	-194.5	161.9	4.8825 ug/L		4.8825 ppb	00:15:12
1	Ba 233.527†	19.1	14.4	0.1523 ug/L		0.1523 ppb	00:15:12
1	Be 313.107†	-3975.0	354.9	0.1660 ug/L		0.1660 ppb	00:14:52
1	Cd 226.502†	-175.9	14.6	0.2434 ug/L		0.2434 ppb	00:15:12
1	Co 228.616†	-44.9	6.8	0.1958 ug/L		0.1958 ppb	00:15:12
1	Cr 267.716†	106.5	-0.3	-0.0085 ug/L		-0.0085 ppb	00:15:12
1	Cu 324.752†	5898.3	-469.1	-1.6774 ug/L		-1.6774 ppb	00:14:52
1	Mn 257.610†	451.7	-23.6	-0.0383 ug/L		-0.0383 ppb	00:15:12
1	Mo 202.031†	19.3	0.5	0.0420 ug/L		0.0420 ppb	00:15:12
1	Ni 231.604†	92.1	-0.6	-0.0206 ug/L		-0.0206 ppb	00:15:12
1	P 214.914†	192.1	-17.5	-13.795 ug/L		-13.795 ppb	00:15:12
1	Pb 220.353†	-70.5	-13.7	-2.3540 ug/L		-2.3540 ppb	00:15:12
1	S 181.975 Axial†	30.4	-0.1	-0.1430 ug/L		-0.1430 ppb	00:15:12
1	Sb 206.836†	23.4	-4.8	-2.2279 ug/L		-2.2279 ppb	00:15:12
1	Se 196.026†	-15.6	7.9	6.9482 ug/L		6.9482 ppb	00:15:12
1	Si 251.611†	495.4	-14.9	-0.6170 ug/L		-0.6170 ppb	00:15:12
1	Sn 189.927†	9.0	-5.6	-1.4204 ug/L		-1.4204 ppb	00:15:12
1	Ti 334.940†	-1089.5	75.0	0.1472 ug/L		0.1472 ppb	00:14:52
1	Tl 190.801†	-32.1	-6.3	-2.7282 ug/L		-2.7282 ppb	00:15:12
1	U 409.014†	-2071.2	-8.8	-0.2915 ug/L		-0.2915 ppb	00:14:52
1	V 292.402†	-1400.2	134.8	1.2176 ug/L		1.2176 ppb	00:14:52
1	Zn 213.857†	598.5	-127.3	-1.6892 ug/L		-1.6892 ppb	00:15:12
1	SiO2†	482.1	-35.1	-3.0875 ug/L		-3.0875 ppb	00:16:23
2	Sc Radial	4240.8	4240.8	112 %			00:14:20
2	Y RADIAL	4660.6	4660.6	114.2 %			00:14:00
2	Al 396.153Radial†	-68.2	12.0	14.311 ug/L		14.311 ppb	00:14:20
2	Ca 317.933Radial†	27.5	2.6	5.8281 ug/L		5.8281 ppb	00:14:20
2	Fe 238.204 Radial†	6.9	-2.3	-30.312 ug/L		-30.312 ppb	00:14:20
2	K 766.490 Radial†	2707.9	-59.7	-13.164 ug/L		-13.164 ppb	00:14:00
2	Mg 279.077 IEC†	2.8	-0.3	-13.280 ug/L		-13.280 ppb	00:14:20
2	Na 589.592 Radial†	-621.2	-168.5	-67.764 ug/L		-67.764 ppb	00:14:00
2	Sr 421.552†	44.9	0.8	0.0075 ug/L		0.0075 ppb	00:14:00
2	Sc 361.383	821666.0	821666.0	112.13 %			00:15:17
2	Y 371.029	676773.7	676773.7	111.97 %			00:15:17
2	Ag 328.068†	217.8	42.1	0.2297 ug/L		0.2297 ppb	00:15:17
2	As 188.979†	-28.0	-2.7	-1.6467 ug/L		-1.6467 ppb	00:15:37
2	B 249.677†	-209.7	147.9	4.4563 ug/L		4.4563 ppb	00:15:37
2	Ba 233.527†	15.0	10.8	0.1141 ug/L		0.1141 ppb	00:15:37
2	Be 313.107†	-3950.6	368.2	0.1722 ug/L		0.1722 ppb	00:15:17
2	Cd 226.502†	-164.0	24.9	0.4085 ug/L		0.4085 ppb	00:15:37
2	Co 228.616†	-33.8	16.6	0.4745 ug/L		0.4745 ppb	00:15:37
2	Cr 267.716†	113.9	6.5	0.0955 ug/L		0.0955 ppb	00:15:37
2	Cu 324.752†	5938.1	-421.0	-1.5067 ug/L		-1.5067 ppb	00:15:17
2	Mn 257.610†	433.7	-38.8	-0.0590 ug/L		-0.0590 ppb	00:15:37
2	Mo 202.031†	3.9	-13.2	-1.3387 ug/L		-1.3387 ppb	00:15:37
2	Ni 231.604†	76.2	-14.6	-0.5244 ug/L		-0.5244 ppb	00:15:37

2	P 214.914†	190.5	-18.6	-14.716 ug/L	-14.716 ppb	00:15:37
2	Pb 220.353†	-57.8	-2.5	-0.4195 ug/L	-0.4195 ppb	00:15:37
2	S 181.975 Axial†	22.2	-7.3	-14.282 ug/L	-14.282 ppb	00:15:37
2	Sb 206.836†	32.5	3.4	1.5174 ug/L	1.5174 ppb	00:15:37
2	Se 196.026†	-5.7	16.6	14.883 ug/L	14.883 ppb	00:15:37
2	Si 251.611†	473.8	-33.1	-1.3527 ug/L	-1.3527 ppb	00:15:37
2	Sn 189.927†	5.7	-8.5	-2.1598 ug/L	-2.1598 ppb	00:15:37
2	Ti 334.940†	-1092.1	70.4	0.1348 ug/L	0.1348 ppb	00:15:17
2	Tl 190.801†	-30.8	-5.2	-2.2628 ug/L	-2.2628 ppb	00:15:37
2	U 409.014†	-1933.0	110.0	3.7444 ug/L	3.7444 ppb	00:15:17
2	V 292.402†	-1456.6	81.5	0.7243 ug/L	0.7243 ppb	00:15:17
2	Zn 213.857†	600.9	-123.9	-1.6445 ug/L	-1.6445 ppb	00:15:37
2	SiO2†	507.9	-11.0	-0.9353 ug/L	-0.9353 ppb	00:16:43
3	Sc Radial	4273.5	4273.5	113 %		00:14:45
3	Y RADIAL	4585.1	4585.1	112.3 %		00:14:25
3	Al 396.153Radial†	-68.8	11.9	14.161 ug/L	14.161 ppb	00:14:45
3	Ca 317.933Radial†	28.0	2.9	6.5212 ug/L	6.5212 ppb	00:14:45
3	Fe 238.204 Radial†	9.0	-0.5	-6.2495 ug/L	-6.2495 ppb	00:14:45
3	K 766.490 Radial†	2618.4	-157.6	-34.777 ug/L	-34.777 ppb	00:14:25
3	Mg 279.077 IEC†	3.5	0.3	13.753 ug/L	13.753 ppb	00:14:45
3	Na 589.592 Radial†	-616.2	-159.9	-64.298 ug/L	-64.298 ppb	00:14:25
3	Sr 421.552†	42.1	-2.0	-0.0178 ug/L	-0.0178 ppb	00:14:25
3	Sc 361.383	804119.7	804119.7	109.73 %		00:15:43
3	Y 371.029	662186.8	662186.8	109.56 %		00:15:43
3	Ag 328.068†	196.4	26.8	0.1472 ug/L	0.1472 ppb	00:15:43
3	As 188.979†	-22.1	2.1	1.2995 ug/L	1.2995 ppb	00:16:03
3	B 249.677†	-191.5	160.5	4.8316 ug/L	4.8316 ppb	00:16:03
3	Ba 233.527†	13.9	10.1	0.1073 ug/L	0.1073 ppb	00:16:03
3	Be 313.107†	-3940.9	300.2	0.1405 ug/L	0.1405 ppb	00:15:43
3	Cd 226.502†	-171.1	15.2	0.2486 ug/L	0.2486 ppb	00:16:03
3	Co 228.616†	-49.9	1.3	0.0339 ug/L	0.0339 ppb	00:16:03
3	Cr 267.716†	102.4	-1.7	-0.0290 ug/L	-0.0290 ppb	00:16:03
3	Cu 324.752†	5850.6	-385.3	-1.3800 ug/L	-1.3800 ppb	00:15:43
3	Mn 257.610†	433.7	-30.4	-0.0455 ug/L	-0.0455 ppb	00:16:03
3	Mo 202.031†	8.2	-9.3	-0.9415 ug/L	-0.9415 ppb	00:16:03
3	Ni 231.604†	72.9	-16.2	-0.5796 ug/L	-0.5796 ppb	00:16:03
3	P 214.914†	192.8	-12.8	-10.072 ug/L	-10.072 ppb	00:16:03
3	Pb 220.353†	-56.5	-2.4	-0.4111 ug/L	-0.4111 ppb	00:16:03
3	S 181.975 Axial†	29.6	-0.1	-0.1697 ug/L	-0.1697 ppb	00:16:03
3	Sb 206.836†	24.1	-3.6	-1.7417 ug/L	-1.7417 ppb	00:16:03
3	Se 196.026†	-23.2	0.6	0.5056 ug/L	0.5056 ppb	00:16:03
3	Si 251.611†	489.7	-9.5	-0.3804 ug/L	-0.3804 ppb	00:16:03
3	Sn 189.927†	6.1	-8.1	-2.0585 ug/L	-2.0585 ppb	00:16:03
3	Ti 334.940†	-1052.4	85.3	0.1593 ug/L	0.1593 ppb	00:15:43
3	Tl 190.801†	-26.7	-2.1	-0.8998 ug/L	-0.8998 ppb	00:16:03
3	U 409.014†	-1756.8	233.0	7.9248 ug/L	7.9248 ppb	00:15:43
3	V 292.402†	-1418.9	87.5	0.7887 ug/L	0.7887 ppb	00:15:43
3	Zn 213.857†	606.4	-107.2	-1.4247 ug/L	-1.4247 ppb	00:16:03
3	SiO2†	499.0	-9.2	-0.7848 ug/L	-0.7848 ppb	00:17:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816472.4	111.42 %		1.466			1.32%
Sc Radial	4249.7	112 %		0.5			0.49%
Y 371.029	672517.5	111.27 %		1.488			1.34%
Y RADIAL	4597.8	112.6 %		1.41			1.25%
Ag 328.068†	41.1	0.2247 ug/L		0.07522	0.2247 ppb	0.07522	33.47%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	11.4	13.607 ug/L		1.0923	13.607 ppb	1.0923	8.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.1	-0.0412 ug/L		1.49081	-0.0412 ppb	1.49081	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	156.8	4.7235 ug/L		0.23278	4.7235 ppb	0.23278	4.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	11.8	0.1246 ug/L		0.02430	0.1246 ppb	0.02430	19.51%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	341.1	0.1596 ug/L		0.01680	0.1596 ppb	0.01680	10.53%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	2.4	5.4051 ug/L		1.37726	5.4051 ppb	1.37726	25.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	18.3	0.3002 ug/L	0.09387	0.3002 ppb	0.09387	31.27%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	8.2	0.2348 ug/L	0.22287	0.2348 ppb	0.22287	94.94%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	1.5	0.0193 ug/L	0.06676	0.0193 ppb	0.06676	345.06%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-425.1	-1.5214 ug/L	0.14926	-1.5214 ppb	0.14926	9.81%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-2.3	-30.451 ug/L	24.2716	-30.451 ppb	24.2716	79.71%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-123.1	-27.153 ug/L	12.1315	-27.153 ppb	12.1315	44.68%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.3	-12.923 ug/L	26.4998	-12.923 ppb	26.4998	205.06%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-30.9	-0.0476 ug/L	0.01052	-0.0476 ppb	0.01052	22.10%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-7.4	-0.7460 ug/L	0.71078	-0.7460 ppb	0.71078	95.28%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-154.3	-62.069 ug/L	7.0789	-62.069 ppb	7.0789	11.40%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-10.4	-0.3748 ug/L	0.30803	-0.3748 ppb	0.30803	82.17%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-16.3	-12.861 ug/L	2.4590	-12.861 ppb	2.4590	19.12%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-6.2	-1.0615 ug/L	1.11930	-1.0615 ppb	1.11930	105.44%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-2.5	-4.8649 ug/L	8.15542	-4.8649 ppb	8.15542	167.64%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-1.7	-0.8174 ug/L	2.03656	-0.8174 ppb	2.03656	249.15%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	8.4	7.4455 ug/L	7.20146	7.4455 ppb	7.20146	96.72%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-19.2	-0.7834 ug/L	0.50705	-0.7834 ppb	0.50705	64.73%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-7.4	-1.8795 ug/L	0.40086	-1.8795 ppb	0.40086	21.33%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	0.4	0.0034 ug/L	0.01945	0.0034 ppb	0.01945	572.22%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	76.9	0.1471 ug/L	0.01228	0.1471 ppb	0.01228	8.34%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-4.5	-1.9636 ug/L	0.95019	-1.9636 ppb	0.95019	48.39%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	111.4	3.7926 ug/L	4.10834	3.7926 ppb	4.10834	108.33%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	101.3	0.9102 ug/L	0.26818	0.9102 ppb	0.26818	29.46%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	-119.5	-1.5861 ug/L	0.14158	-1.5861 ppb	0.14158	8.93%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-18.4	-1.6025 ug/L	1.28823	-1.6025 ppb	1.28823	80.39%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Sunday, April 11, 2010 14:25:07

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.718

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

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

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	1476.9	1476.876	69.851	4.7
Mg	24.0	20563.4	20563.391	243.887	1.2
Co	58.9	60201.8	60201.792	593.479	1.0
Rh	102.9	118302.4	118302.431	575.695	0.5
In	114.9	144990.3	144990.303	1225.130	0.8
Pb	208.0	62594.6	62594.639	440.991	0.7
[> Ba	137.9	132866.7	132866.686	904.406	0.7
[Ba++	69.0	2162.0	0.016	0.001	4.8
[> Ce	139.9	160176.6	160176.628	1412.329	0.9
[CeO	155.9	3192.0	0.020	0.000	1.4
Bkgd	220.0	7.3	7.300	1.789	24.5

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
4.25	Lens Voltage
1000.00	ICP RF Power
-1750.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
50.00	Discriminator Threshold
-2.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.5	1447.7
Co	59	13	6.0	52914.8
In	115	13	6.8	126833.9

ICPMS #4 TUNING REPORT

File Name: 100411.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	602	2085	0.624
Be	9.0	9.0	2054	2075	0.628
Mg	24.0	24.0	5659	2110	0.557
Mg	25.0	25.0	5959	2125	0.584
Mg	26.0	26.0	6140	2110	0.602
Co	58.9	58.9	14170	2165	0.603
Rh	102.9	102.9	24875	2255	0.608
In	114.9	114.8	27768	2285	0.615
Ce	139.9	139.9	33849	2320	0.631
Pb	206.0	206.0	49939	2485	0.628
Pb	207.0	207.0	50101	2400	0.596
Pb	208.0	208.0	50448	2480	0.675
U	238.1	238.0	57686	2500	0.623

ICPMS#4 - Summary Report

Sample ID: Blank
 Sample Date/Time: Sunday, April 11, 2010 23:26:06
 Sample Type:
 Sample Description:
 Number of Replicates: 3
 Batch ID:
 Method File: c:\elandata\Method\6020.mth
 Dataset File: c:\elandata\Dataset\100408\Blank.518

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	ug/L		30	
Be	9	ug/L		6	
B	11	ug/L		98	
Na	23	ug/L		7336	
Mg	24	ug/L		2334	
Al	27	ug/L		2000	
P	31	ug/L		3895	
K	39	ug/L		374171	
Ca	43	ug/L		159	
> Sc	45	ug/L		637214	
Ti	47	ug/L		174	
V	51	ug/L		17195	
Cr	52	ug/L		-12415	
Cr	53	ug/L		123321	
Mn	55	ug/L		725	
Fe	57	ug/L		5525	
Co	59	ug/L		139	
Ni	60	ug/L		78	
Cu	63	ug/L		6175	
Cu	65	ug/L		3029	
Zn	66	ug/L		4008	
Zn	67	ug/L		7467	
Zn	68	ug/L		3465	
> Ge	74	ug/L		257622	
As	75	ug/L		227	
Se	77	ug/L		4111	
Se	82	ug/L		27	
Kr	83	ug/L		52	
Sr	88	ug/L		163	
Y	89	ug/L		21	
Zr	90	ug/L		498	
Mo	98	ug/L		974	
Ag	107	ug/L		299	
Cd	111	ug/L		12	
Cd	114	ug/L		28	
> In	115	ug/L		164544	
Sn	120	ug/L		1178	
Sb	121	ug/L		786	
Sb	123	ug/L		632	
Ba	135	ug/L		21	
Ba	137	ug/L		30	
Ho	165	ug/L		8	
> Lu	175	ug/L		194680	
Tl	205	ug/L		457	
Pb	208	ug/L		6246	
Th	232	ug/L		1048	
U	238	ug/L		1281	

Sample ID: Blank
 Report Date/Time: Sunday, April 11, 2010 23:28:51
 Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	0.9963
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9999
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Blank

Report Date/Time: Sunday, April 11, 2010 23:28:51

Page 2

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, April 11, 2010 23:32:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 1.519

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	0.617	5656	0.009
Be	9	10.000	ug/L	2.217	1474	0.002
B	11	20.000	ug/L	5.522	2754	0.004
Na	23	1000.000	ug/L	6.766	1771326	2.724
Mg	24	1000.000	ug/L	4.787	1134024	1.747
Al	27	1000.000	ug/L	6.548	1693691	2.612
P	31	1000.000	ug/L	2.169	102415	0.152
K	39	1000.000	ug/L	3.875	3508351	4.831
Ca	43	1000.000	ug/L	1.298	6217	0.009
> Sc	45		ug/L		647601	647601.313
Ti	47	10.000	ug/L	1.476	3450	0.005
V	51	10.000	ug/L	13.224	59247	0.065
Cr	52	10.000	ug/L	1.435	17978	0.047
Cr	53		ug/L		127317	0.003
Mn	55	10.000	ug/L	1.444	51356	0.078
Fe	57	1000.000	ug/L	2.094	110377	0.162
Co	59	10.000	ug/L	0.682	39833	0.061
Ni	60	10.000	ug/L	1.159	8527	0.013
Cu	63		ug/L		24802	0.029
Cu	65	10.000	ug/L	0.518	12222	0.014
Zn	66	10.000	ug/L	2.198	9022	0.019
Zn	67		ug/L		8335	0.003
Zn	68		ug/L		7102	0.014
> Ge	74		ug/L		260427	260426.780
As	75	10.000	ug/L	7.715	6458	0.024
Se	77		ug/L		4437	0.001
Se	82	10.000	ug/L	9.763	515	0.002
Kr	83		ug/L		71	0.000
Sr	88	10.000	ug/L	2.015	90247	0.538
Y	89		ug/L		33	0.000
Zr	90	10.000	ug/L	0.976	48540	0.287
Mo	98	10.000	ug/L	3.210	22197	0.127
Ag	107	10.000	ug/L	1.065	35293	0.209
Cd	111	10.000	ug/L	2.765	8084	0.048
Cd	114		ug/L		19054	0.114
> In	115		ug/L		167435	167435.373
Sn	120	10.000	ug/L	1.400	37542	0.217
Sb	121	10.000	ug/L	14.123	20883	0.120
Sb	123		ug/L		15932	0.091
Ba	135		ug/L		8771	0.045
Ba	137	10.000	ug/L	2.099	15207	0.078
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		195483	195482.758
Tl	205	10.000	ug/L	2.030	54039	0.274
Pb	208	10.000	ug/L	0.352	109562	0.528
Th	232	10.000	ug/L	3.063	99432	0.503
U	238	10.000	ug/L	2.442	102217	0.516

Sample ID: Standard 1

Report Date/Time: Sunday, April 11, 2010 23:34:57

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>|	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>|	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>|	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>|	Lu	175				
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Sunday, April 11, 2010 23:34:57

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ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, April 11, 2010 23:38:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\Standard 2.520

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.022	ug/L	1.654	56685	0.089
Be	9	100.025	ug/L	2.207	14848	0.023
B	11	200.001	ug/L	2.596	26263	0.041
Na	23	10006.646	ug/L	3.118	18631244	29.199
Mg	24	10010.812	ug/L	7.360	12526874	19.613
Al	27	10002.568	ug/L	1.583	17115880	26.817
P	31	10002.600	ug/L	2.616	999898	1.561
K	39	9997.334	ug/L	4.556	30372710	47.039
Ca	43	10004.272	ug/L	2.676	62496	0.098
> Sc	45		ug/L		638051	638050.886
Ti	47	100.008	ug/L	0.859	32694	0.051
V	51	100.007	ug/L	1.766	431637	0.650
Cr	52	100.014	ug/L	1.454	293302	0.479
Cr	53		ug/L		138045	0.023
Mn	55	100.019	ug/L	3.817	508908	0.797
Fe	57	10000.799	ug/L	3.573	1045687	1.631
Co	59	100.011	ug/L	3.314	395568	0.620
Ni	60	100.019	ug/L	2.660	84937	0.133
Cu	63		ug/L		198518	0.302
Cu	65	100.019	ug/L	2.689	94809	0.144
Zn	66	100.078	ug/L	1.071	58006	0.207
Zn	67		ug/L		15052	0.029
Zn	68		ug/L		42305	0.149
> Ge	74		ug/L		260512	260511.829
As	75	100.048	ug/L	1.699	65689	0.251
Se	77		ug/L		7708	0.014
Se	82	100.189	ug/L	2.279	6059	0.023
Kr	83		ug/L		69	0.000
Sr	88	100.025	ug/L	0.555	899319	5.522
Y	89		ug/L		100	0.000
Zr	90	100.062	ug/L	0.754	498987	3.061
Mo	98	100.067	ug/L	1.804	222152	1.358
Ag	107	100.003	ug/L	1.027	341585	2.096
Cd	111	100.047	ug/L	0.963	82378	0.506
Cd	114		ug/L		190949	1.173
> In	115		ug/L		162834	162834.445
Sn	120	100.030	ug/L	1.798	365593	2.238
Sb	121	100.223	ug/L	11.289	252626	1.547
Sb	123		ug/L		194841	1.193
Ba	135		ug/L		88293	0.460
Ba	137	100.031	ug/L	1.582	153884	0.802
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		191958	191958.191
Tl	205	100.005	ug/L	1.246	529159	2.755
Pb	208	100.000	ug/L	1.426	1020718	5.286
Th	232	100.052	ug/L	1.441	1020346	5.311
U	238	99.993	ug/L	1.188	985623	5.129

Sample ID: Standard 2

Report Date/Time: Sunday, April 11, 2010 23:41:03

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Sunday, April 11, 2010 23:41:03

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ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, April 11, 2010 23:44:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 1.521

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.029	ug/L	1.262	29761	0.046
Be	9	51.344	ug/L	2.324	7691	0.012
B	11	103.995	ug/L	1.650	13826	0.021
Na	23	4997.812	ug/L	6.727	9390382	14.584
Mg	24	5307.531	ug/L	8.251	6691854	10.398
Al	27	5402.464	ug/L	8.634	9319373	14.484
P	31	4918.163	ug/L	1.196	498035	0.768
K	39	4958.027	ug/L	1.168	15393071	23.328
Ca	43	4785.618	ug/L	1.069	30248	0.047
> Sc	45		ug/L		643616	643615.763
Ti	47	50.468	ug/L	2.909	16727	0.026
V	51	51.180	ug/L	1.524	231335	0.332
Cr	52	52.544	ug/L	1.713	149503	0.252
Cr	53		ug/L		123687	-0.001
Mn	55	52.710	ug/L	2.194	270964	0.420
Fe	57	4918.064	ug/L	0.954	521742	0.802
Co	59	49.957	ug/L	1.102	199453	0.310
Ni	60	51.939	ug/L	1.811	44539	0.069
Cu	63		ug/L		105887	0.155
Cu	65	52.316	ug/L	2.158	51492	0.075
Zn	66	51.884	ug/L	1.460	31903	0.107
Zn	67		ug/L		10944	0.013
Zn	68		ug/L		23591	0.077
> Ge	74		ug/L		259536	259535.738
As	75	51.416	ug/L	2.084	33738	0.129
Se	77		ug/L		5896	0.007
Se	82	53.150	ug/L	2.349	3214	0.012
Kr	83		ug/L		57	0.000
Sr	88	52.620	ug/L	1.312	475877	2.905
Y	89		ug/L		44	0.000
Zr	90	49.695	ug/L	1.506	249486	1.520
Mo	98	49.919	ug/L	1.582	111948	0.678
Ag	107	53.002	ug/L	0.521	182224	1.111
Cd	111	51.786	ug/L	0.515	42893	0.262
Cd	114		ug/L		102194	0.624
> In	115		ug/L		163777	163776.812
Sn	120	50.890	ug/L	0.697	187660	1.139
Sb	121	62.693	ug/L	0.478	159229	0.967
Sb	123		ug/L		123183	0.748
Ba	135		ug/L		45098	0.233
Ba	137	50.015	ug/L	2.868	77586	0.401
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		193558	193558.282
Tl	205	50.956	ug/L	1.747	272078	1.404
Pb	208	51.956	ug/L	1.317	537721	2.746
Th	232	51.789	ug/L	0.688	533109	2.749
U	238	53.455	ug/L	0.774	531900	2.742

Sample ID: QC Std 1

Report Date/Time: Sunday, April 11, 2010 23:47:10

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 1

Report Date/Time: Sunday, April 11, 2010 23:47:10

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	104.059				
Be	9	102.689				
B	11	103.995				
Na	23	99.956				
Mg	24	106.151				
Al	27	106.979				
P	31	98.363				
K	39	99.161				
Ca	43	95.712				
> Sc	45		101.0			
Ti	47	100.935				
V	51	102.361				
Cr	52	105.088				
Cr	53					
Mn	55	105.419				
Fe	57	98.361				
Co	59	99.914				
Ni	60	103.878				
Cu	63					
Cu	65	104.632				
Zn	66	103.768				
Zn	67					
Zn	68					
> Ge	74		100.7			
As	75	102.831				
Se	77					
Se	82	106.300				
Kr	83					
Sr	88	105.240				
Y	89					
Zr	90	99.390				
Mo	98	99.839				
Ag	107	106.003				
Cd	111	103.571				
Cd	114					
> In	115		99.5			
Sn	120	101.780				
Sb	121	125.386				
Sb	123					
Ba	135					
Ba	137	100.030				
Ho	165					
> Lu	175		99.4			
Tl	205	101.911				
Pb	208	103.912				
Th	232	103.578				
U	238	106.909				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
QC Std 1	Sb	121ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, April 11, 2010 23:50:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 2.522

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.025	ug/L	52.243	45	0.000
Be	9	0.013	ug/L	126.902	8	0.000
B	11	1.860	ug/L	14.899	342	0.000
Na	23	1.599	ug/L	153.275	10338	0.005
Mg	24	-0.812	ug/L	148.275	1333	-0.002
Al	27	0.978	ug/L	151.938	3667	0.003
P	31	3.579	ug/L	27.763	4268	0.001
K	39	4.422	ug/L	43.511	388890	0.021
Ca	43	1.806	ug/L	215.456	171	0.000
Sc	45		ug/L		639641	639640.858
Ti	47	0.050	ug/L	37.255	191	0.000
V	51	-0.569	ug/L	116.282	14879	-0.004
Cr	52	0.021	ug/L	167.814	-12397	0.000
Cr	53		ug/L		125525	0.003
Mn	55	0.007	ug/L	125.827	765	0.000
Fe	57	2.747	ug/L	64.839	5834	0.000
Co	59	0.012	ug/L	33.777	189	0.000
Ni	60	0.007	ug/L	299.524	84	0.000
Cu	63		ug/L		5323	-0.001
Cu	65	-0.539	ug/L	5.155	2545	-0.001
Zn	66	-1.307	ug/L	10.019	3291	-0.003
Zn	67		ug/L		7524	0.000
Zn	68		ug/L		3138	-0.001
Ge	74		ug/L		256053	256052.707
As	75	0.154	ug/L	214.806	323	0.000
Se	77		ug/L		4554	0.002
Se	82	1.482	ug/L	10.442	114	0.000
Kr	83		ug/L		63	0.000
Sr	88	0.008	ug/L	13.690	234	0.000
Y	89		ug/L		20	-0.000
Zr	90	0.216	ug/L	23.823	1574	0.007
Mo	98	0.366	ug/L	19.894	1780	0.005
Ag	107	0.047	ug/L	29.738	459	0.001
Cd	111	0.016	ug/L	71.222	25	0.000
Cd	114		ug/L		62	0.000
In	115		ug/L		163620	163620.458
Sn	120	0.115	ug/L	34.885	1593	0.003
Sb	121	2.281	ug/L	22.865	6540	0.035
Sb	123		ug/L		5170	0.028
Ba	135		ug/L		31	0.000
Ba	137	0.011	ug/L	21.877	46	0.000
Ho	165		ug/L		9	0.000
Lu	175		ug/L		192618	192618.156
Tl	205	0.153	ug/L	26.723	1266	0.004
Pb	208	0.001	ug/L	1327.782	6193	0.000
Th	232	0.356	ug/L	23.660	4679	0.019
U	238	-0.001	ug/L	3603.512	1260	-0.000

Sample ID: QC Std 2

Report Date/Time: Sunday, April 11, 2010 23:53:21

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	100.4			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	99.4			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	99.4			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	98.9			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Sunday, April 11, 2010 23:53:21

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ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, April 11, 2010 23:56:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 3.523

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	12.504	ug/L	1.318	6936	0.011
Be	9	0.653	ug/L	6.785	100	0.000
B	11	18.538	ug/L	1.795	2461	0.004
Na	23	268.828	ug/L	10.432	494803	0.784
Mg	24	17.312	ug/L	20.705	23353	0.034
Al	27	36.672	ug/L	13.879	63141	0.098
P	31	50.309	ug/L	3.665	8688	0.008
K	39	345.909	ug/L	6.201	1378210	1.628
Ca	43	235.253	ug/L	2.398	1585	0.002
> Sc	45		ug/L		622093	622093.484
Ti	47	9.580	ug/L	0.811	3207	0.005
V	51	11.717	ug/L	4.612	64121	0.076
Cr	52	12.522	ug/L	1.711	25206	0.060
Cr	53		ug/L		104117	-0.026
Mn	55	6.135	ug/L	0.780	31117	0.049
Fe	57	118.336	ug/L	1.894	17397	0.019
Co	59	1.174	ug/L	1.786	4663	0.007
Ni	60	2.333	ug/L	4.241	2006	0.003
Cu	63		ug/L		5757	-0.000
Cu	65	-0.051	ug/L	29.935	2911	-0.000
Zn	66	10.989	ug/L	2.582	9617	0.023
Zn	67		ug/L		6840	-0.002
Zn	68		ug/L		7323	0.016
> Ge	74		ug/L		251148	251147.981
As	75	4.911	ug/L	22.221	3324	0.012
Se	77		ug/L		3531	-0.002
Se	82	4.375	ug/L	8.607	280	0.001
Kr	83		ug/L		57	0.000
Sr	88	12.036	ug/L	1.086	106609	0.664
Y	89		ug/L		18	-0.000
Zr	90	2.126	ug/L	3.677	10900	0.065
Mo	98	0.481	ug/L	9.696	1993	0.007
Ag	107	1.021	ug/L	1.050	3720	0.021
Cd	111	1.183	ug/L	3.871	970	0.006
Cd	114		ug/L		2243	0.014
> In	115		ug/L		160224	160223.669
Sn	120	5.523	ug/L	5.079	20934	0.124
Sb	121	2.631	ug/L	11.969	7267	0.041
Sb	123		ug/L		5598	0.031
Ba	135		ug/L		2043	0.011
Ba	137	2.300	ug/L	2.540	3472	0.018
Ho	165		ug/L		13	0.000
> Lu	175		ug/L		186869	186869.491
Tl	205	1.194	ug/L	0.271	6582	0.033
Pb	208	2.253	ug/L	1.679	28246	0.119
Th	232	1.181	ug/L	3.288	12722	0.063
U	238	0.280	ug/L	10.106	3912	0.014

Sample ID: QC Std 3

Report Date/Time: Sunday, April 11, 2010 23:59:28

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	125.043				
Be	9	130.643				
B	11	123.584				
Na	23	107.531				
Mg	24	115.416				
Al	27	122.239				
P	31	100.619				
K	39	115.303				
Ca	43	117.627				
> Sc	45		97.6			
Ti	47	95.799				
V	51	117.168				
Cr	52	125.221				
Cr	53					
Mn	55	122.710				
Fe	57	118.336				
Co	59	117.396				
Ni	60	116.635				
Cu	63					
Cu	65	-5.118				
Zn	66	109.891				
Zn	67					
Zn	68					
> Ge	74		97.5			
As	75	98.223				
Se	77					
Se	82	87.504				
Kr	83					
Sr	88	120.364				
Y	89					
Zr	90	106.277				
Mo	98	96.115				
Ag	107	102.119				
Cd	111	118.307				
Cd	114					
> In	115		97.4			
Sn	120	110.451				
Sb	121	87.714				
Sb	123					
Ba	135					
Ba	137	114.986				
Ho	165					
> Lu	175		96.0			
Tl	205	119.350				
Pb	208	112.634				
Th	232	118.099				
U	238	139.988				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	Be	9CRDL is out of limits
QC Std 3	Cu	65CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

QC Action

Sample ID: QC Std 3
Report Date/Time: Sunday, April 11, 2010 23:59:28
Page 3

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Monday, April 12, 2010 00:02:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 4.524

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.169	ug/L	49.015	127	0.000
Be	9	0.086	ug/L	14.439	19	0.000
B	11	1.159	ug/L	10.266	253	0.000
Na	23	91441.011	ug/L	6.013	172875200	266.823
Mg	24	92590.954	ug/L	7.507	117362368	181.401
Al	27	91561.336	ug/L	4.238	159038489	245.479
P	31	91900.584	ug/L	3.112	9289498	14.345
K	39	94063.917	ug/L	3.093	286956887	442.588
Ca	43	92164.693	ug/L	2.040	582937	0.900
> Sc	45		ug/L		647528	647527.874
Ti	47	1557.634	ug/L	2.337	514071	0.794
V	51	-0.125	ug/L	204.565	16937	-0.001
Cr	52	2.681	ug/L	2.580	-4299	0.013
Cr	53		ug/L		123667	-0.003
Mn	55	5.790	ug/L	4.535	30589	0.046
Fe	57	97922.365	ug/L	4.126	10340966	15.969
Co	59	0.236	ug/L	6.668	1087	0.001
Ni	60	3.264	ug/L	0.828	2890	0.004
Cu	63		ug/L		11024	0.007
Cu	65	3.007	ug/L	2.303	5879	0.004
Zn	66	4.632	ug/L	8.372	6558	0.010
Zn	67		ug/L		8883	0.005
Zn	68		ug/L		4088	0.002
> Ge	74		ug/L		260864	260864.175
As	75	0.032	ug/L	1714.357	250	0.000
Se	77		ug/L		6320	0.008
Se	82	0.907	ug/L	54.051	82	0.000
Kr	83		ug/L		134	0.000
Sr	88	2.922	ug/L	1.675	26432	0.161
Y	89		ug/L		253	0.001
Zr	90	0.795	ug/L	46.307	4452	0.024
Mo	98	2088.043	ug/L	1.782	4617128	28.345
Ag	107	0.093	ug/L	9.722	613	0.002
Cd	111	0.214	ug/L	96.194	189	0.001
Cd	114		ug/L		5544	0.034
> In	115		ug/L		162870	162869.842
Sn	120	1.678	ug/L	12.061	7278	0.038
Sb	121	1.581	ug/L	31.941	4750	0.024
Sb	123		ug/L		3653	0.019
Ba	135		ug/L		675	0.003
Ba	137	0.704	ug/L	4.174	1119	0.006
Ho	165		ug/L		4021	0.021
> Lu	175		ug/L		192909	192908.793
Tl	205	0.027	ug/L	16.531	598	0.001
Pb	208	0.220	ug/L	16.491	8426	0.012
Th	232	0.357	ug/L	35.720	4700	0.019
U	238	-0.036	ug/L	60.001	912	-0.002

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 00:05:36

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 4

Report Date/Time: Monday, April 12, 2010 00:05:36

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23	91.441				
|	Mg	24	92.591				
|	Al	27	91.561				
|	P	31	91.901				
|	K	39	94.064				
|	Ca	43	92.165				
>	Sc	45		101.6			
|	Ti	47	77.882				
|	V	51					
|	Cr	52	81.231				
|	Cr	53					
|	Mn	55	99.827				
|	Fe	57	97.922				
|	Co	59	100.275				
|	Ni	60	98.607				
|	Cu	63					
|	Cu	65	90.040				
|	Zn	66	123.199				
|	Zn	67					
|	Zn	68					
>	Ge	74		101.3			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88	98.718				
|	Y	89					
|	Zr	90					
|	Mo	98	104.402				
|	Ag	107					
|	Cd	111	48.147				
|	Cd	114					
>	In	115		99.0			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137	88.271				
|	Ho	165					
>	Lu	175		99.1			
|	Tl	205					
|	Pb	208	116.210				
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 4	Ti	47ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Monday, April 12, 2010 00:09:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 5.525

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	18.803	ug/L	1.787	10852	0.017
Be	9	18.269	ug/L	2.846	2761	0.004
B	11	18.200	ug/L	1.534	2519	0.004
Na	23	87169.616	ug/L	4.761	164874624	254.359
Mg	24	88514.851	ug/L	0.677	112408207	173.415
Al	27	94251.243	ug/L	3.567	163775031	252.690
P	31	92336.730	ug/L	1.021	9346567	14.414
K	39	96429.163	ug/L	11.152	294596649	453.717
Ca	43	92936.246	ug/L	1.136	588553	0.908
> Sc	45		ug/L		648204	648203.621
Ti	47	1558.970	ug/L	0.069	515199	0.795
V	51	19.036	ug/L	4.938	97633	0.124
Cr	52	22.112	ug/L	1.755	56049	0.106
Cr	53		ug/L		127794	0.004
Mn	55	25.512	ug/L	1.580	132489	0.203
Fe	57	100096.900	ug/L	0.917	10586127	16.323
Co	59	19.034	ug/L	2.778	76620	0.118
Ni	60	21.744	ug/L	2.629	18824	0.029
Cu	63		ug/L		47236	0.063
Cu	65	22.028	ug/L	0.528	23622	0.032
Zn	66	21.393	ug/L	2.143	15751	0.044
Zn	67		ug/L		10445	0.011
Zn	68		ug/L		10987	0.028
> Ge	74		ug/L		263290	263290.105
As	75	20.605	ug/L	5.586	13851	0.052
Se	77		ug/L		7293	0.012
Se	82	20.578	ug/L	4.866	1279	0.005
Kr	83		ug/L		139	0.000
Sr	88	23.485	ug/L	1.401	211429	1.296
Y	89		ug/L		271	0.002
Zr	90	20.449	ug/L	1.504	102423	0.626
Mo	98	2113.533	ug/L	2.646	4674372	28.691
Ag	107	19.298	ug/L	2.190	66182	0.404
Cd	111	18.900	ug/L	2.441	15578	0.096
Cd	114		ug/L		41625	0.255
> In	115		ug/L		162949	162949.484
Sn	120	20.154	ug/L	2.846	74642	0.451
Sb	121	21.808	ug/L	2.232	55628	0.337
Sb	123		ug/L		42903	0.259
Ba	135		ug/L		17781	0.091
Ba	137	19.444	ug/L	0.858	30565	0.156
Ho	165		ug/L		4043	0.021
> Lu	175		ug/L		195973	195973.100
Tl	205	17.643	ug/L	0.678	95699	0.486
Pb	208	18.661	ug/L	2.456	199571	0.986
Th	232	19.358	ug/L	0.704	202428	1.028
U	238	20.155	ug/L	0.365	203873	1.034

Sample ID: QC Std 5

Report Date/Time: Monday, April 12, 2010 00:11:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	94.014				
Be	9	91.346				
B	11	91.001				
Na	23	87.170				
Mg	24	88.515				
Al	27	94.251				
P	31	92.337				
K	39	96.429				
Ca	43	92.936				
> Sc	45		101.7			
Ti	47	77.948				
V	51	95.181				
Cr	52	94.903				
Cr	53					
Mn	55	98.886				
Fe	57	100.097				
Co	59	94.067				
Ni	60	93.280				
Cu	63					
Cu	65	94.379				
Zn	66	90.040				
Zn	67					
Zn	68					
> Ge	74		102.2			
As	75	103.023				
Se	77					
Se	82	102.889				
Kr	83					
Sr	88	102.285				
Y	89					
Zr	90	102.247				
Mo	98	105.677				
Ag	107	96.490				
Cd	111	92.446				
Cd	114					
> In	115		99.0			
Sn	120	100.770				
Sb	121	109.040				
Sb	123					
Ba	135					
Ba	137	93.489				
Ho	165					
> Lu	175		100.7			
Tl	205	88.213				
Pb	208	92.434				
Th	232	96.790				
U	238	100.773				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
QC Std 5	Ti	47ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 00:15:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.526

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.367	ug/L	1.246	29804	0.046
Be	9	51.131	ug/L	0.847	7770	0.012
B	11	100.040	ug/L	2.810	13494	0.021
Na	23	4830.645	ug/L	6.593	9206546	14.096
Mg	24	4912.183	ug/L	5.203	6283456	9.624
Al	27	5265.238	ug/L	2.810	9216900	14.116
P	31	4879.270	ug/L	1.329	501192	0.762
K	39	4977.805	ug/L	3.253	15675486	23.421
Ca	43	4868.414	ug/L	0.688	31207	0.048
> Sc	45		ug/L		652836	652835.672
Ti	47	51.730	ug/L	0.824	17390	0.026
V	51	52.287	ug/L	0.736	239345	0.340
Cr	52	53.153	ug/L	0.727	153551	0.255
Cr	53		ug/L		122668	-0.006
Mn	55	53.562	ug/L	1.502	279297	0.427
Fe	57	5040.468	ug/L	2.366	542208	0.822
Co	59	51.862	ug/L	2.042	210009	0.322
Ni	60	53.357	ug/L	0.510	46413	0.071
Cu	63		ug/L		111121	0.161
Cu	65	54.248	ug/L	1.229	54046	0.078
Zn	66	52.373	ug/L	0.958	33132	0.108
Zn	67		ug/L		11094	0.013
Zn	68		ug/L		24450	0.078
> Ge	74		ug/L		267316	267315.857
As	75	51.499	ug/L	3.105	34805	0.129
Se	77		ug/L		6274	0.008
Se	82	50.602	ug/L	2.662	3153	0.012
Kr	83		ug/L		55	0.000
Sr	88	51.979	ug/L	0.891	481915	2.869
Y	89		ug/L		53	0.000
Zr	90	49.514	ug/L	0.394	254832	1.515
Mo	98	50.777	ug/L	1.531	116709	0.689
Ag	107	52.135	ug/L	1.045	183745	1.093
Cd	111	51.065	ug/L	1.376	43358	0.258
Cd	114		ug/L		102143	0.608
> In	115		ug/L		167884	167884.251
Sn	120	49.734	ug/L	2.105	188017	1.113
Sb	121	56.995	ug/L	3.539	148447	0.880
Sb	123		ug/L		113662	0.673
Ba	135		ug/L		45058	0.231
Ba	137	49.883	ug/L	2.218	78138	0.400
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		195401	195400.941
Tl	205	50.645	ug/L	1.493	273026	1.395
Pb	208	51.667	ug/L	1.612	539906	2.731
Th	232	51.054	ug/L	1.095	530584	2.710
U	238	54.568	ug/L	1.072	548139	2.799

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 00:17:54

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	102.734				
|	Be	9	102.262				
|	B	11	100.040				
|	Na	23	96.613				
|	Mg	24	98.244				
|	Al	27	104.262				
|	P	31	97.585				
|	K	39	99.556				
|	Ca	43	97.368				
>	Sc	45		102.5			
|	Ti	47	103.460				
|	V	51	104.573				
|	Cr	52	106.306				
|	Cr	53					
|	Mn	55	107.125				
|	Fe	57	100.809				
|	Co	59	103.724				
|	Ni	60	106.714				
|	Cu	63					
|	Cu	65	108.495				
|	Zn	66	104.747				
|	Zn	67					
|	Zn	68					
>	Ge	74		103.8			
|	As	75	102.999				
|	Se	77					
|	Se	82	101.204				
|	Kr	83					
|	Sr	88	103.958				
|	Y	89					
|	Zr	90	99.029				
|	Mo	98	101.554				
|	Ag	107	104.271				
|	Cd	111	102.131				
|	Cd	114					
>	In	115		102.0			
|	Sn	120	99.469				
|	Sb	121	113.991				
|	Sb	123					
|	Ba	135					
|	Ba	137	99.767				
|	Ho	165					
>	Lu	175		100.4			
|	Tl	205	101.291				
|	Pb	208	103.335				
|	Th	232	102.107				
|	U	238	109.136				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
QC Std 6	Sb	121	CCV	is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 00:21:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.527

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.085	ug/L	22.845	81	0.000
Be	9	0.001	ug/L	2041.921	6	0.000
B	11	1.063	ug/L	24.635	245	0.000
Na	23	6.985	ug/L	31.387	21016	0.020
Mg	24	4.591	ug/L	43.527	8336	0.009
Al	27	4.119	ug/L	30.252	9336	0.011
P	31	0.432	ug/L	462.821	4077	0.000
K	39	2.825	ug/L	506.078	395771	0.013
Ca	43	13.746	ug/L	39.061	254	0.000
> Sc	45		ug/L		660006	660005.544
Ti	47	0.575	ug/L	15.604	373	0.000
V	51	0.032	ug/L	1837.112	17936	0.000
Cr	52	0.418	ug/L	25.296	-11532	0.002
Cr	53		ug/L		126208	-0.002
Mn	55	0.003	ug/L	312.739	766	0.000
Fe	57	7.145	ug/L	30.935	6489	0.001
Co	59	0.005	ug/L	106.056	166	0.000
Ni	60	0.003	ug/L	286.120	83	0.000
Cu	63		ug/L		5286	-0.002
Cu	65	-0.712	ug/L	13.021	2460	-0.001
Zn	66	-2.739	ug/L	6.760	2674	-0.006
Zn	67		ug/L		7451	-0.001
Zn	68		ug/L		2418	-0.005
> Ge	74		ug/L		270383	270382.605
As	75	0.215	ug/L	377.865	389	0.001
Se	77		ug/L		5464	0.004
Se	82	1.009	ug/L	16.226	91	0.000
Kr	83		ug/L		52	-0.000
Sr	88	0.007	ug/L	33.618	234	0.000
Y	89		ug/L		21	-0.000
Zr	90	0.141	ug/L	35.144	1221	0.004
Mo	98	0.531	ug/L	26.259	2190	0.007
Ag	107	0.017	ug/L	85.397	364	0.000
Cd	111	0.018	ug/L	83.532	27	0.000
Cd	114		ug/L		57	0.000
> In	115		ug/L		167116	167116.344
Sn	120	0.140	ug/L	35.284	1719	0.003
Sb	121	1.289	ug/L	32.883	4106	0.020
Sb	123		ug/L		3112	0.015
Ba	135		ug/L		28	0.000
Ba	137	0.010	ug/L	107.374	44	0.000
Ho	165		ug/L		8	0.000
> Lu	175		ug/L		192711	192711.016
Tl	205	0.149	ug/L	29.712	1240	0.004
Pb	208	0.037	ug/L	72.261	6551	0.002
Th	232	0.225	ug/L	32.576	3323	0.012
U	238	0.008	ug/L	599.748	1338	0.000

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 00:24:05

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 00:24:05

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		103.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		105.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		101.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.0			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Mo	98CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 7
 Report Date/Time: Monday, April 12, 2010 00:24:05
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ICPMS#4 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Monday, April 12, 2010 00:27:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 10.528

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	955.847	ug/L	2.047	552253	0.849
Be	9	934.488	ug/L	0.451	141450	0.217
B	11	0.454	ug/L	30.599	160	0.000
Na	23	47663.735	ug/L	3.613	90516325	139.082
Mg	24	46091.059	ug/L	3.780	58766600	90.300
Al	27	49699.402	ug/L	4.809	86715144	133.246
P	31	23362.557	ug/L	3.012	2377132	3.647
K	39	48311.724	ug/L	6.342	148323170	227.315
Ca	43	47063.198	ug/L	0.781	299291	0.460
> Sc	45		ug/L		650711	650711.039
Ti	47	38.568	ug/L	3.201	12967	0.020
V	51	978.279	ug/L	0.570	4152807	6.355
Cr	52	977.604	ug/L	0.972	3035638	4.685
Cr	53		ug/L		479579	0.543
Mn	55	985.121	ug/L	1.710	5107544	7.848
Fe	57	49983.322	ug/L	1.605	5309532	8.151
Co	59	952.932	ug/L	2.697	3844194	5.907
Ni	60	920.711	ug/L	1.227	796995	1.225
Cu	63		ug/L		1774283	2.717
Cu	65	927.285	ug/L	0.679	871110	1.334
Zn	66	2204.337	ug/L	1.950	1221377	4.562
Zn	67		ug/L		201975	0.728
Zn	68		ug/L		886010	3.307
> Ge	74		ug/L		266901	266901.419
As	75	931.420	ug/L	1.185	624436	2.339
Se	77		ug/L		27889	0.089
Se	82	491.638	ug/L	3.417	30344	0.114
Kr	83		ug/L		82	0.000
Sr	88	1039.913	ug/L	1.812	9231126	57.408
Y	89		ug/L		271	0.002
Zr	90	520.091	ug/L	2.230	2559117	15.912
Mo	98	1035.836	ug/L	1.866	2261978	14.061
Ag	107	254.201	ug/L	0.932	856943	5.328
Cd	111	958.081	ug/L	0.449	778912	4.844
Cd	114		ug/L		1792988	11.150
> In	115		ug/L		160794	160794.376
Sn	120	1006.335	ug/L	2.020	3621797	22.517
Sb	121	317.652	ug/L	1.333	788986	4.902
Sb	123		ug/L		613101	3.809
Ba	135		ug/L		856139	4.261
Ba	137	896.314	ug/L	1.780	1443060	7.183
Ho	165		ug/L		105	0.000
> Lu	175		ug/L		200941	200941.382
Tl	205	460.026	ug/L	1.249	2546200	12.671
Pb	208	4777.215	ug/L	1.719	50737939	252.524
Th	232	2422.699	ug/L	0.482	25842427	128.599
U	238	5163.035	ug/L	0.772	53206975	264.809

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 00:30:11

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 00:30:11

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	95.585				
Be	9	93.449				
B	11					
Na	23	95.327				
Mg	24	92.182				
Al	27	99.399				
P	31	93.450				
K	39	96.623				
Ca	43	94.126				
> Sc	45		102.1			
Ti	47					
V	51	97.828				
Cr	52	97.760				
Cr	53					
Mn	55	98.512				
Fe	57	99.967				
Co	59	95.293				
Ni	60	92.071				
Cu	63					
Cu	65	92.729				
Zn	66	88.173				
Zn	67					
Zn	68					
> Ge	74		103.6			
As	75	93.142				
Se	77					
Se	82	98.328				
Kr	83					
Sr	88	103.991				
Y	89					
Zr	90	104.018				
Mo	98	103.584				
Ag	107	101.680				
Cd	111	95.808				
Cd	114					
> In	115		97.7			
Sn	120	100.634				
Sb	121	127.061				
Sb	123					
Ba	135					
Ba	137	89.631				
Ho	165					
> Lu	175		103.2			
Tl	205	92.005				
Pb	208	95.544				
Th	232	96.908				
U	238	103.261				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 10	Zn	66LRS is out of limits (+/- 10%)
QC Std 10	Sb	121LRS is out of limits (+/- 10%)
QC Std 10	Ba	137LRS is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 10
Report Date/Time: Monday, April 12, 2010 00:30:11
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QC Action Line: Continue

Sample ID: QC Std 10

Report Date/Time: Monday, April 12, 2010 00:30:11

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ICPMS#4 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Monday, April 12, 2010 00:33:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 11.529

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	52.085 ug/L	0.806	30803	0.046
|	Be	9	51.045 ug/L	1.504	7907	0.012
|	B	11	100.801 ug/L	0.680	13859	0.021
|	Na	23	4821.975 ug/L	1.458	9370773	14.070
|	Mg	24	5092.400 ug/L	4.340	6641138	9.977
|	Al	27	5117.895 ug/L	6.597	9128659	13.721
|	P	31	4836.073 ug/L	0.921	506367	0.755
|	K	39	4931.744 ug/L	2.855	15829795	23.205
|	Ca	43	4856.600 ug/L	1.350	31732	0.047
>	Sc	45	ug/L		665402	665401.571
|	Ti	47	49.413 ug/L	1.149	16939	0.025
|	V	51	51.207 ug/L	1.462	239278	0.333
|	Cr	52	53.907 ug/L	1.711	158901	0.258
|	Cr	53	ug/L		123003	-0.009
|	Mn	55	53.493 ug/L	0.712	284328	0.426
|	Fe	57	5054.347 ug/L	1.484	554270	0.824
|	Co	59	51.833 ug/L	0.662	213961	0.321
|	Ni	60	53.369 ug/L	1.265	47315	0.071
|	Cu	63	ug/L		112210	0.159
|	Cu	65	53.204 ug/L	1.223	54089	0.077
[	Zn	66	50.855 ug/L	1.047	33056	0.105
|	Zn	67	ug/L		11261	0.012
|	Zn	68	ug/L		24709	0.077
>	Ge	74	ug/L		273631	273630.796
|	As	75	52.830 ug/L	1.241	36546	0.133
|	Se	77	ug/L		6405	0.007
|	Se	82	56.788 ug/L	1.174	3619	0.013
[	Kr	83	ug/L		60	0.000
[	Sr	88	52.595 ug/L	0.874	496629	2.903
|	Y	89	ug/L		45	0.000
|	Zr	90	51.718 ug/L	2.102	271045	1.582
|	Mo	98	51.488 ug/L	1.474	120518	0.699
|	Ag	107	52.629 ug/L	2.024	188896	1.103
|	Cd	111	51.754 ug/L	1.077	44754	0.262
|	Cd	114	ug/L		105433	0.616
>	In	115	ug/L		170993	170993.393
|	Sn	120	50.859 ug/L	1.685	195788	1.138
|	Sb	121	57.869 ug/L	2.417	153522	0.893
[	Sb	123	ug/L		116357	0.677
[	Ba	135	ug/L		45810	0.234
|	Ba	137	50.770 ug/L	2.958	79789	0.407
|	Ho	165	ug/L		12	0.000
>	Lu	175	ug/L		196123	196123.206
|	Tl	205	52.014 ug/L	0.928	281423	1.433
|	Pb	208	54.364 ug/L	2.357	569687	2.874
|	Th	232	55.481 ug/L	1.999	578461	2.945
[U	238	56.679 ug/L	1.242	571315	2.907

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 00:36:18

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Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 00:36:18

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7	104.171				
Be	9	102.089				
B	11	100.801				
Na	23	96.440				
Mg	24	101.848				
Al	27	101.344				
P	31	96.721				
K	39	98.635				
Ca	43	97.132				
> Sc	45		104.4			
Ti	47	98.825				
V	51	102.414				
Cr	52	107.814				
Cr	53					
Mn	55	106.986				
Fe	57	101.087				
Co	59	103.666				
Ni	60	106.737				
Cu	63					
Cu	65	106.407				
Zn	66	101.710				
Zn	67					
Zn	68					
> Ge	74		106.2			
As	75	105.661				
Se	77					
Se	82	113.576				
Kr	83					
Sr	88	105.190				
Y	89					
Zr	90	103.436				
Mo	98	102.976				
Ag	107	105.258				
Cd	111	103.508				
Cd	114					
> In	115		103.9			
Sn	120	101.717				
Sb	121	115.738				
Sb	123					
Ba	135					
Ba	137	101.539				
Ho	165					
> Lu	175		100.7			
Tl	205	104.027				
Pb	208	108.727				
Th	232	110.962				
U	238	113.358				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 11	Se	82CCV is out of limits (+/- 10%)
QC Std 11	Sb	121CCV is out of limits (+/- 10%)
QC Std 11	Th	232CCV is out of limits (+/- 10%)
QC Std 11	U	238CCV is out of limits (+/- 10%)

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 00:36:18

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QC Action

QC Action Line: Continue

Sample ID: QC Std 11

Report Date/Time: Monday, April 12, 2010 00:36:18

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ICPMS#4 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Monday, April 12, 2010 00:39:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 12.530

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li 7	0.128	ug/L	19.443	109	0.000
|	Be 9	0.027	ug/L	13.476	10	0.000
|	B 11	1.145	ug/L	28.218	263	0.000
|	Na 23	3.301	ug/L	47.157	14341	0.010
|	Mg 24	1.412	ug/L	174.475	4334	0.003
|	Al 27	1.210	ug/L	159.643	4334	0.003
|	P 31	-0.597	ug/L	88.681	4077	-0.000
|	K 39	16.143	ug/L	79.670	448977	0.076
|	Ca 43	8.271	ug/L	31.766	224	0.000
>	Sc 45		ug/L		677376	677375.669
|	Ti 47	0.154	ug/L	13.711	238	0.000
|	V 51	0.078	ug/L	1175.065	18613	0.001
|	Cr 52	0.646	ug/L	5.167	-11100	0.003
|	Cr 53		ug/L		125856	-0.008
|	Mn 55	0.025	ug/L	33.474	904	0.000
|	Fe 57	3.183	ug/L	28.922	6225	0.001
|	Co 59	0.037	ug/L	16.686	303	0.000
|	Ni 60	0.022	ug/L	17.346	103	0.000
|	Cu 63		ug/L		4813	-0.003
|	Cu 65	-0.963	ug/L	15.372	2282	-0.001
|	Zn 66	-3.161	ug/L	2.082	2470	-0.007
|	Zn 67		ug/L		7667	-0.001
|	Zn 68		ug/L		2427	-0.005
>	Ge 74		ug/L		274004	274004.219
|	As 75	0.659	ug/L	42.817	695	0.002
|	Se 77		ug/L		5291	0.003
|	Se 82	2.131	ug/L	17.330	163	0.000
|	Kr 83		ug/L		64	0.000
|	Sr 88	0.048	ug/L	12.865	619	0.003
|	Y 89		ug/L		21	-0.000
|	Zr 90	0.414	ug/L	10.704	2694	0.013
|	Mo 98	0.729	ug/L	10.750	2713	0.010
|	Ag 107	0.060	ug/L	30.106	529	0.001
|	Cd 111	0.062	ug/L	1.721	67	0.000
|	Cd 114		ug/L		168	0.001
>	In 115		ug/L		171495	171495.177
|	Sn 120	0.398	ug/L	6.060	2755	0.009
|	Sb 121	1.118	ug/L	20.947	3782	0.017
|	Sb 123		ug/L		2920	0.013
|	Ba 135		ug/L		60	0.000
|	Ba 137	0.045	ug/L	20.260	102	0.000
|	Ho 165		ug/L		9	0.000
>	Lu 175		ug/L		197876	197875.855
|	Tl 205	0.508	ug/L	15.301	3229	0.014
|	Pb 208	0.336	ug/L	8.508	9860	0.018
|	Th 232	0.822	ug/L	13.827	9686	0.044
	U 238	0.265	ug/L	11.449	3990	0.014

Sample ID: QC Std 12

Report Date/Time: Monday, April 12, 2010 00:42:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		106.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		106.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		104.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 12	Mo	98CCB is out of limits (+/- PQL)
QC Std 12	U	238CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 12
Report Date/Time: Monday, April 12, 2010 00:42:29
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ICPMS#4 - Summary Report

Sample ID: 1202056813
 Sample Date/Time: Monday, April 12, 2010 00:45:55
 Sample Type:
 Sample Description: LANL 6020 MB
 Number of Replicates: 3
 Batch ID: 959091|1|bcd1
 Method File: c:\elandata\Method\6020.mth
 Dataset File: c:\elandata\Dataset\100408\1202056813.531

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.155	ug/L	15.345	125	0.000
Be	9	0.023	ug/L	67.286	10	0.000
B	11	0.663	ug/L	10.159	195	0.000
Na	23	11.855	ug/L	40.087	31036	0.035
Mg	24	0.913	ug/L	98.392	3667	0.002
Al	27	4.914	ug/L	29.048	11004	0.013
P	31	-8.107	ug/L	13.471	3265	-0.001
K	39	6.398	ug/L	73.883	415975	0.030
Ca	43	37.720	ug/L	7.485	417	0.000
Sc	45		ug/L		673807	673806.501
Ti	47	0.490	ug/L	13.392	352	0.000
V	51	0.739	ug/L	351.636	21469	0.005
Cr	52	-5.292	ug/L	13.097	-30205	-0.025
Cr	53		ug/L		337127	0.307
Mn	55	0.322	ug/L	6.098	2494	0.003
Fe	57	21.928	ug/L	6.752	8251	0.004
Co	59	0.012	ug/L	14.584	199	0.000
Ni	60	0.062	ug/L	13.129	138	0.000
Cu	63		ug/L		7583	0.002
Cu	65	0.353	ug/L	16.811	3545	0.001
Zn	66	10.280	ug/L	46.446	10205	0.021
Zn	67		ug/L		29445	0.077
Zn	68		ug/L		8671	0.018
Ge	74		ug/L		277448	277447.574
As	75	0.412	ug/L	222.814	534	0.001
Se	77		ug/L		17595	0.047
Se	82	1.484	ug/L	14.902	124	0.000
Kr	83		ug/L		62	0.000
Sr	88	0.049	ug/L	14.929	640	0.003
Y	89		ug/L		30	0.000
Zr	90	0.402	ug/L	16.111	2660	0.012
Mo	98	0.434	ug/L	12.264	2052	0.006
Ag	107	0.022	ug/L	13.743	396	0.000
Cd	111	0.052	ug/L	27.084	59	0.000
Cd	114		ug/L		98	0.000
In	115		ug/L		173670	173670.067
Sn	120	1.467	ug/L	6.580	6943	0.033
Sb	121	0.694	ug/L	13.212	2689	0.011
Sb	123		ug/L		2084	0.008
Ba	135		ug/L		278	0.001
Ba	137	0.295	ug/L	3.003	495	0.002
Ho	165		ug/L		8	-0.000
Lu	175		ug/L		196945	196945.014
Tl	205	0.302	ug/L	9.696	2101	0.008
Pb	208	1.611	ug/L	2.400	23086	0.085
Th	232	0.512	ug/L	12.018	6415	0.027
U	238	0.005	ug/L	288.648	1343	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 1202056813

Report Date/Time: Monday, April 12, 2010 00:48:41

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QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	105.7			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	107.7			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	105.5			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	101.2			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056813

Report Date/Time: Monday, April 12, 2010 00:48:41

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ICPMS#4 - Summary Report

Sample ID: 1202056814

Sample Date/Time: Monday, April 12, 2010 00:52:08

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959091|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056814.532

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	46.840	ug/L	2.341	28310	0.042
Be	9	49.870	ug/L	1.330	7894	0.012
B	11	101.397	ug/L	2.049	14245	0.021
Na	23	1726.961	ug/L	11.280	3434071	5.039
Mg	24	1763.429	ug/L	2.154	2351625	3.455
Al	27	1747.678	ug/L	1.943	3188057	4.686
P	31	1775.636	ug/L	0.711	192618	0.277
K	39	1831.828	ug/L	2.729	6259713	8.619
Ca	43	1885.873	ug/L	1.863	12695	0.018
> Sc	45		ug/L		679946	679945.587
Ti	47	44.433	ug/L	3.194	15583	0.023
V	51	49.220	ug/L	3.312	235748	0.320
Cr	52	43.021	ug/L	3.035	126921	0.206
Cr	53		ug/L		368269	0.348
Mn	55	49.673	ug/L	0.396	269845	0.396
Fe	57	1940.527	ug/L	0.447	221067	0.316
Co	59	47.990	ug/L	2.495	202430	0.297
Ni	60	49.060	ug/L	2.685	44453	0.065
Cu	63		ug/L		109623	0.152
Cu	65	50.838	ug/L	2.388	52960	0.073
Zn	66	50.445	ug/L	0.453	34045	0.104
Zn	67		ug/L		35523	0.096
Zn	68		ug/L		26018	0.078
> Ge	74		ug/L		283816	283816.400
As	75	47.582	ug/L	2.184	34166	0.119
Se	77		ug/L		20020	0.055
Se	82	47.431	ug/L	1.754	3140	0.011
Kr	83		ug/L		72	0.000
Sr	88	49.003	ug/L	0.536	465288	2.705
Y	89		ug/L		57	0.000
Zr	90	49.967	ug/L	1.578	263330	1.529
Mo	98	50.259	ug/L	2.211	118298	0.682
Ag	107	52.667	ug/L	2.814	190050	1.104
Cd	111	46.917	ug/L	2.053	40792	0.237
Cd	114		ug/L		96216	0.559
> In	115		ug/L		171947	171946.823
Sn	120	50.247	ug/L	1.150	194524	1.124
Sb	121	62.218	ug/L	2.128	165878	0.960
Sb	123		ug/L		128860	0.746
Ba	135		ug/L		42526	0.212
Ba	137	45.703	ug/L	2.965	73427	0.366
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		200460	200460.278
Tl	205	44.969	ug/L	1.663	248754	1.239
Pb	208	50.021	ug/L	2.024	536346	2.644
Th	232	48.190	ug/L	2.520	513756	2.558
U	238	51.174	ug/L	2.777	527288	2.625

Sample ID: 1202056814

Report Date/Time: Monday, April 12, 2010 00:54:54

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45		106.7		
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74		110.2		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115		104.5		
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175		103.0		
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056814

Report Date/Time: Monday, April 12, 2010 00:54:54

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ICPMS#4 - Summary Report

Sample ID: 247997001

Sample Date/Time: Monday, April 12, 2010 00:58:21

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959091|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\247997001.533

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.376	ug/L	5.567	253	0.000
Be	9	0.005	ug/L	518.236	7	0.000
B	11	28.970	ug/L	2.979	4035	0.006
Na	23	123.222	ug/L	4.959	245767	0.360
Mg	24	5.596	ug/L	44.979	9670	0.011
Al	27	6.323	ug/L	53.335	13340	0.017
P	31	-6.300	ug/L	27.339	3395	-0.001
K	39	187.636	ug/L	9.540	973096	0.883
Ca	43	53.776	ug/L	4.884	513	0.001
> Sc	45		ug/L		662180	662179.542
Ti	47	0.577	ug/L	14.204	376	0.000
V	51	0.198	ug/L	1322.070	18768	0.001
Cr	52	-5.370	ug/L	0.944	-29940	-0.026
Cr	53		ug/L		352863	0.339
Mn	55	0.330	ug/L	2.942	2495	0.003
Fe	57	9.403	ug/L	12.814	6758	0.002
Co	59	0.012	ug/L	14.800	195	0.000
Ni	60	0.011	ug/L	43.568	91	0.000
Cu	63		ug/L		7449	0.002
Cu	65	0.391	ug/L	26.732	3520	0.001
Zn	66	1.905	ug/L	31.263	5398	0.004
Zn	67		ug/L		30423	0.081
Zn	68		ug/L		5311	0.006
> Ge	74		ug/L		276883	276883.191
As	75	0.130	ug/L	932.616	337	0.000
Se	77		ug/L		18811	0.052
Se	82	0.844	ug/L	30.296	82	0.000
Kr	83		ug/L		72	0.000
Sr	88	0.091	ug/L	9.602	1025	0.005
Y	89		ug/L		50	0.000
Zr	90	0.336	ug/L	23.058	2272	0.010
Mo	98	0.141	ug/L	17.819	1339	0.002
Ag	107	0.008	ug/L	90.851	341	0.000
Cd	111	0.034	ug/L	46.980	42	0.000
Cd	114		ug/L		79	0.000
> In	115		ug/L		170865	170864.814
Sn	120	0.889	ug/L	2.097	4619	0.020
Sb	121	0.189	ug/L	13.587	1314	0.003
Sb	123		ug/L		1012	0.002
Ba	135		ug/L		147	0.001
Ba	137	0.136	ug/L	5.468	241	0.001
Ho	165		ug/L		9	0.000
> Lu	175		ug/L		194300	194300.475
Tl	205	0.485	ug/L	19.508	3051	0.013
Pb	208	1.210	ug/L	4.812	18660	0.064
Th	232	0.568	ug/L	24.066	6900	0.030
U	238	-0.027	ug/L	71.856	1003	-0.001

Sample ID: 247997001

Report Date/Time: Monday, April 12, 2010 01:01:07

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: 247997001

Report Date/Time: Monday, April 12, 2010 01:01:07

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QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45		103.9		
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74		107.5		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115		103.8		
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175		99.8		
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247997001

Report Date/Time: Monday, April 12, 2010 01:01:07

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 01:41:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.540

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.288	ug/L	1.701	30272	0.046
Be	9	52.512	ug/L	2.249	7962	0.012
B	11	100.621	ug/L	0.937	13545	0.021
Na	23	4571.497	ug/L	5.154	8699156	13.340
Mg	24	4976.164	ug/L	7.195	6352857	9.749
Al	27	5216.604	ug/L	10.404	9120120	13.986
P	31	4844.122	ug/L	1.180	496630	0.756
K	39	4843.869	ug/L	3.133	15230027	22.791
Ca	43	4806.200	ug/L	0.906	30747	0.047
> Sc	45		ug/L		651477	651477.091
Ti	47	49.133	ug/L	2.574	16490	0.025
V	51	51.410	ug/L	2.006	235155	0.334
Cr	52	52.970	ug/L	0.582	152675	0.254
Cr	53		ug/L		137947	0.018
Mn	55	53.437	ug/L	2.171	278066	0.426
Fe	57	4991.258	ug/L	1.787	535868	0.814
Co	59	51.288	ug/L	2.065	207284	0.318
Ni	60	52.524	ug/L	0.983	45591	0.070
Cu	63		ug/L		109236	0.158
Cu	65	52.377	ug/L	2.714	52175	0.075
Zn	66	49.626	ug/L	2.938	31639	0.103
Zn	67		ug/L		12098	0.016
Zn	68		ug/L		23762	0.075
> Ge	74		ug/L		267603	267602.851
As	75	51.232	ug/L	2.535	34658	0.129
Se	77		ug/L		6573	0.009
Se	82	47.848	ug/L	9.648	2984	0.011
Kr	83		ug/L		62	0.000
Sr	88	52.819	ug/L	2.267	478627	2.916
Y	89		ug/L		43	0.000
Zr	90	50.039	ug/L	1.863	251729	1.531
Mo	98	49.205	ug/L	2.060	110601	0.668
Ag	107	52.594	ug/L	1.776	181179	1.102
Cd	111	51.524	ug/L	0.740	42763	0.261
Cd	114		ug/L		99913	0.609
> In	115		ug/L		164114	164114.050
Sn	120	50.794	ug/L	2.119	187685	1.137
Sb	121	56.277	ug/L	2.905	143325	0.868
Sb	123		ug/L		109729	0.665
Ba	135		ug/L		44831	0.231
Ba	137	50.023	ug/L	0.783	77695	0.401
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		193732	193732.409
Tl	205	48.642	ug/L	2.602	259992	1.340
Pb	208	51.545	ug/L	1.088	534052	2.725
Th	232	51.056	ug/L	4.285	525981	2.710
U	238	54.309	ug/L	2.331	540861	2.785

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 01:44:28

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 01:44:28

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7	104.575				
|	Be	9	105.025				
|	B	11	100.621				
|	Na	23	91.430				
|	Mg	24	99.523				
|	Al	27	103.299				
|	P	31	96.882				
|	K	39	96.877				
|	Ca	43	96.124				
>	Sc	45		102.2			
|	Ti	47	98.266				
|	V	51	102.820				
|	Cr	52	105.941				
|	Cr	53					
|	Mn	55	106.874				
|	Fe	57	99.825				
|	Co	59	102.576				
|	Ni	60	105.048				
|	Cu	63					
|	Cu	65	104.755				
|	Zn	66	99.252				
|	Zn	67					
|	Zn	68					
>	Ge	74		103.9			
|	As	75	102.465				
|	Se	77					
|	Se	82	95.696				
|	Kr	83					
|	Sr	88	105.638				
|	Y	89					
|	Zr	90	100.078				
|	Mo	98	98.409				
|	Ag	107	105.188				
|	Cd	111	103.048				
|	Cd	114					
>	In	115		99.7			
|	Sn	120	101.589				
|	Sb	121	112.554				
|	Sb	123					
|	Ba	135					
|	Ba	137	100.046				
|	Ho	165					
>	Lu	175		99.5			
|	Tl	205	97.285				
|	Pb	208	103.091				
|	Th	232	102.112				
|	U	238	108.618				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Sb	121CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 01:47:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.541

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.007	ug/L	115.824	36	0.000
Be	9	0.009	ug/L	228.060	7	0.000
B	11	1.175	ug/L	29.159	262	0.000
Na	23	2.775	ug/L	105.561	13007	0.008
Mg	24	-1.107	ug/L	68.344	1000	-0.002
Al	27	-0.233	ug/L	142.819	1667	-0.001
P	31	-7.544	ug/L	19.662	3282	-0.001
K	39	5.739	ug/L	483.628	408245	0.027
Ca	43	9.285	ug/L	13.374	227	0.000
> Sc	45		ug/L		665098	665098.256
Ti	47	-0.032	ug/L	62.065	171	-0.000
V	51	-0.475	ug/L	194.914	15882	-0.003
Cr	52	0.309	ug/L	20.945	-11974	0.001
Cr	53		ug/L		130228	0.002
Mn	55	-0.003	ug/L	114.846	740	-0.000
Fe	57	-2.111	ug/L	109.308	5537	-0.000
Co	59	0.004	ug/L	42.106	160	0.000
Ni	60	0.007	ug/L	169.595	87	0.000
Cu	63		ug/L		3313	-0.005
Cu	65	-1.687	ug/L	1.292	1547	-0.002
Zn	66	-4.789	ug/L	1.295	1518	-0.010
Zn	67		ug/L		7765	-0.000
Zn	68		ug/L		1696	-0.007
> Ge	74		ug/L		269033	269033.161
As	75	0.519	ug/L	57.717	586	0.001
Se	77		ug/L		5427	0.004
Se	82	1.455	ug/L	5.993	118	0.000
Kr	83		ug/L		58	0.000
Sr	88	0.008	ug/L	47.370	236	0.000
Y	89		ug/L		22	0.000
Zr	90	0.239	ug/L	12.523	1729	0.007
Mo	98	0.157	ug/L	31.217	1347	0.002
Ag	107	-0.002	ug/L	331.467	298	-0.000
Cd	111	0.012	ug/L	90.375	22	0.000
Cd	114		ug/L		57	0.000
> In	115		ug/L		167098	167098.478
Sn	120	0.067	ug/L	22.986	1446	0.001
Sb	121	1.156	ug/L	21.274	3782	0.018
Sb	123		ug/L		2998	0.014
Ba	135		ug/L		28	0.000
Ba	137	0.009	ug/L	35.292	44	0.000
Ho	165		ug/L		7	-0.000
> Lu	175		ug/L		196925	196924.607
Tl	205	0.463	ug/L	16.816	2973	0.013
Pb	208	-0.093	ug/L	15.849	5354	-0.005
Th	232	0.380	ug/L	23.971	5029	0.020
U	238	-0.031	ug/L	25.385	987	-0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 01:50:39

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45			104.4		
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74			104.4		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Zr	90					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115			101.6		
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175			101.2		
|	Tl	205					
|	Pb	208					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Cu	65CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: 1202056815

Sample Date/Time: Monday, April 12, 2010 02:00:19

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959091|1|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056815.543

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.387	ug/L	10.443	263	0.000
Be	9	0.002	ug/L	673.561	6	0.000
B	11	30.442	ug/L	0.477	4294	0.006
Na	23	177.208	ug/L	3.492	354684	0.517
Mg	24	7.506	ug/L	14.059	12339	0.015
Al	27	9.388	ug/L	19.787	19013	0.025
P	31	-6.958	ug/L	35.584	3372	-0.001
K	39	281.474	ug/L	13.004	1281900	1.324
Ca	43	84.734	ug/L	11.911	723	0.001
> Sc	45		ug/L		671183	671183.125
Ti	47	0.746	ug/L	20.034	438	0.000
V	51	-0.991	ug/L	277.301	13716	-0.006
Cr	52	-4.904	ug/L	5.625	-28843	-0.023
Cr	53		ug/L		401204	0.404
Mn	55	0.597	ug/L	1.306	3957	0.005
Fe	57	21.109	ug/L	7.735	8128	0.003
Co	59	0.005	ug/L	29.272	166	0.000
Ni	60	0.170	ug/L	16.517	234	0.000
Cu	63		ug/L		19183	0.019
Cu	65	6.224	ug/L	4.186	9198	0.009
Zn	66	3.255	ug/L	11.275	6252	0.007
Zn	67		ug/L		31954	0.085
Zn	68		ug/L		6124	0.008
> Ge	74		ug/L		280578	280577.781
As	75	-2.544	ug/L	22.540	-1540	-0.006
Se	77		ug/L		26543	0.079
Se	82	0.096	ug/L	124.435	35	0.000
Kr	83		ug/L		58	0.000
Sr	88	0.206	ug/L	3.005	2089	0.011
Y	89		ug/L		215	0.001
Zr	90	0.105	ug/L	9.767	1053	0.003
Mo	98	-0.106	ug/L	17.690	758	-0.001
Ag	107	-0.032	ug/L	14.037	194	-0.001
Cd	111	0.016	ug/L	80.846	26	0.000
Cd	114		ug/L		60	0.000
> In	115		ug/L		168984	168984.460
Sn	120	0.447	ug/L	8.816	2901	0.010
Sb	121	0.189	ug/L	13.854	1301	0.003
Sb	123		ug/L		1052	0.002
Ba	135		ug/L		374	0.002
Ba	137	0.405	ug/L	5.615	655	0.003
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		192635	192635.362
Tl	205	0.086	ug/L	4.318	910	0.002
Pb	208	0.771	ug/L	3.768	14030	0.041
Th	232	0.057	ug/L	12.097	1622	0.003
U	238	-0.100	ug/L	6.155	276	-0.005

Sample ID: 1202056815

Report Date/Time: Monday, April 12, 2010 02:03:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45	105.3			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74	108.9			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115	102.7			
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175	98.9			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056815

Report Date/Time: Monday, April 12, 2010 02:03:04

Page 3

ICPMS#4 - Summary Report

Sample ID: 1202056816
 Sample Date/Time: Monday, April 12, 2010 02:06:31
 Sample Type:
 Sample Description: LANL 6020 MS
 Number of Replicates: 3
 Batch ID: 959091|1|bcd1
 Method File: c:\elandata\Method\6020.mth
 Dataset File: c:\elandata\Dataset\100408\1202056816.544

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	46.298 ug/L	1.274	28024	0.041
|	Be	9	48.173 ug/L	0.824	7637	0.011
|	B	11	130.225 ug/L	2.495	18289	0.027
|	Na	23	1874.191 ug/L	2.886	3733112	5.469
|	Mg	24	1794.960 ug/L	2.068	2397003	3.517
|	Al	27	1749.039 ug/L	6.508	3193750	4.689
|	P	31	1713.377 ug/L	2.852	186251	0.267
|	K	39	2164.894 ug/L	9.045	7336966	10.186
|	Ca	43	1905.505 ug/L	2.099	12842	0.019
>	Sc	45	ug/L		680982	680981.897
|	Ti	47	42.604 ug/L	1.713	14972	0.022
|	V	51	47.889 ug/L	6.765	230076	0.311
|	Cr	52	43.541 ug/L	2.302	128781	0.209
|	Cr	53	ug/L		383530	0.370
|	Mn	55	49.144 ug/L	1.084	267359	0.392
|	Fe	57	1952.469 ug/L	2.958	222665	0.318
|	Co	59	48.221 ug/L	2.429	203667	0.299
|	Ni	60	48.941 ug/L	2.876	44401	0.065
|	Cu	63	ug/L		121395	0.169
[	Cu	65	56.323 ug/L	0.517	58411	0.081
|	Zn	66	49.462 ug/L	0.838	33066	0.102
|	Zn	67	ug/L		35545	0.098
|	Zn	68	ug/L		25742	0.078
>	Ge	74	ug/L		280415	280414.514
|	As	75	71.943 ug/L	0.689	50911	0.181
|	Se	77	ug/L		21576	0.061
|	Se	82	18.846 ug/L	3.305	1250	0.004
[	Kr	83	ug/L		67	0.000
|	Sr	88	49.557 ug/L	2.166	466497	2.736
|	Y	89	ug/L		240	0.001
|	Zr	90	49.063 ug/L	2.029	256402	1.501
|	Mo	98	47.992 ug/L	1.729	112068	0.651
|	Ag	107	51.735 ug/L	0.750	185157	1.084
|	Cd	111	9.655 ug/L	2.165	8334	0.049
|	Cd	114	ug/L		19232	0.113
>	In	115	ug/L		170487	170487.383
|	Sn	120	48.881 ug/L	1.728	187657	1.094
|	Sb	121	239.672 ug/L	1.064	631315	3.699
[	Sb	123	ug/L		486179	2.848
|	Ba	135	ug/L		42314	0.215
|	Ba	137	46.680 ug/L	2.122	73620	0.374
|	Ho	165	ug/L		107	0.001
>	Lu	175	ug/L		196755	196755.477
|	Tl	205	88.155 ug/L	4.522	478021	2.428
|	Pb	208	40.235 ug/L	2.135	424700	2.127
|	Th	232	49.770 ug/L	4.091	520662	2.642
[	U	238	52.960 ug/L	2.384	535615	2.716

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45	106.9			
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74	108.8			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Zr	90				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115	103.6			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175	101.1			
|	Tl	205				
|	Pb	208				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056816

Report Date/Time: Monday, April 12, 2010 02:09:16

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ICPMS#4 - Summary Report

Sample ID: 1202056817

Sample Date/Time: Monday, April 12, 2010 02:12:43

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959091|5|bcd1

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\1202056817.545

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.074	ug/L	13.971	73	0.000
Be	9	0.044	ug/L	63.332	12	0.000
B	11	4.970	ug/L	0.885	759	0.001
Na	23	24.536	ug/L	15.721	53769	0.072
Mg	24	0.494	ug/L	156.871	3000	0.001
Al	27	4.187	ug/L	60.583	9337	0.011
P	31	-7.931	ug/L	26.921	3156	-0.001
K	39	43.820	ug/L	14.634	513750	0.206
Ca	43	21.835	ug/L	12.331	300	0.000
> Sc	45		ug/L		647592	647591.888
Ti	47	0.198	ug/L	31.903	242	0.000
V	51	1.041	ug/L	110.971	21814	0.007
Cr	52	-0.305	ug/L	23.212	-13564	-0.001
Cr	53		ug/L		175636	0.078
Mn	55	0.122	ug/L	4.199	1367	0.001
Fe	57	-0.000	ug/L	75007.894	5615	-0.000
Co	59	0.028	ug/L	13.300	254	0.000
Ni	60	0.046	ug/L	35.272	119	0.000
Cu	63		ug/L		4687	-0.002
Cu	65	-0.934	ug/L	10.586	2208	-0.001
Zn	66	-3.810	ug/L	2.501	2036	-0.008
Zn	67		ug/L		10003	0.009
Zn	68		ug/L		2164	-0.005
> Ge	74		ug/L		265492	265491.893
As	75	-0.163	ug/L	733.032	126	-0.000
Se	77		ug/L		9490	0.020
Se	82	0.184	ug/L	114.493	39	0.000
Kr	83		ug/L		52	-0.000
Sr	88	0.064	ug/L	9.807	746	0.004
Y	89		ug/L		46	0.000
Zr	90	0.029	ug/L	29.693	649	0.001
Mo	98	-0.162	ug/L	12.821	616	-0.002
Ag	107	-0.001	ug/L	390.807	297	-0.000
Cd	111	-0.005	ug/L	219.900	9	-0.000
Cd	114		ug/L		38	0.000
> In	115		ug/L		165841	165841.131
Sn	120	0.047	ug/L	66.651	1359	0.001
Sb	121	0.033	ug/L	107.626	877	0.001
Sb	123		ug/L		667	0.000
Ba	135		ug/L		110	0.000
Ba	137	0.113	ug/L	12.286	206	0.001
Ho	165		ug/L		10	0.000
> Lu	175		ug/L		193366	193366.467
Tl	205	1.365	ug/L	15.082	7724	0.038
Pb	208	-0.042	ug/L	15.186	5773	-0.002
Th	232	0.251	ug/L	14.187	3617	0.013
U	238	-0.040	ug/L	71.660	874	-0.002

Sample ID: 1202056817

Report Date/Time: Monday, April 12, 2010 02:15:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		103.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.3			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056817

Report Date/Time: Monday, April 12, 2010 02:15:29

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ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Monday, April 12, 2010 02:25:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.547

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.289	ug/L	1.274	30593	0.047
Be	9	53.035	ug/L	3.534	7973	0.012
B	11	102.923	ug/L	3.679	13731	0.021
Na	23	4606.262	ug/L	5.982	8684449	13.441
Mg	24	4775.979	ug/L	3.806	6045892	9.357
Al	27	4822.015	ug/L	10.851	8351570	12.928
P	31	4834.134	ug/L	3.319	491220	0.755
K	39	4673.714	ug/L	2.230	14583675	21.991
Ca	43	4747.743	ug/L	1.408	30118	0.046
> Sc	45		ug/L		646060	646060.109
Ti	47	48.971	ug/L	2.696	16295	0.025
V	51	50.907	ug/L	2.888	230987	0.331
Cr	52	52.268	ug/L	2.246	149169	0.250
Cr	53		ug/L		134666	0.015
Mn	55	52.277	ug/L	1.955	269722	0.416
Fe	57	4957.615	ug/L	2.824	527735	0.808
Co	59	50.590	ug/L	1.617	202714	0.314
Ni	60	52.949	ug/L	1.633	45569	0.070
Cu	63		ug/L		109166	0.159
Cu	65	52.658	ug/L	2.922	51991	0.076
Zn	66	48.498	ug/L	2.537	30732	0.100
Zn	67		ug/L		11521	0.014
Zn	68		ug/L		22580	0.072
> Ge	74		ug/L		265141	265140.729
As	75	50.683	ug/L	3.042	33982	0.127
Se	77		ug/L		6774	0.010
Se	82	48.227	ug/L	5.796	2982	0.011
Kr	83		ug/L		55	0.000
Sr	88	52.755	ug/L	1.156	473607	2.912
Y	89		ug/L		45	0.000
Zr	90	48.744	ug/L	1.433	242908	1.491
Mo	98	48.693	ug/L	1.228	108417	0.661
Ag	107	52.623	ug/L	2.272	179559	1.103
Cd	111	51.718	ug/L	2.499	42514	0.261
Cd	114		ug/L		99737	0.613
> In	115		ug/L		162573	162572.599
Sn	120	49.867	ug/L	2.892	182510	1.116
Sb	121	55.756	ug/L	0.958	140650	0.860
Sb	123		ug/L		108215	0.662
Ba	135		ug/L		43794	0.227
Ba	137	49.218	ug/L	1.321	76035	0.394
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		192721	192720.697
Tl	205	49.894	ug/L	2.489	265263	1.374
Pb	208	51.832	ug/L	2.766	534055	2.740
Th	232	50.799	ug/L	3.077	520679	2.696
U	238	54.551	ug/L	1.578	540392	2.798

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 02:27:51

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 6

Report Date/Time: Monday, April 12, 2010 02:27:51

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QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
|	Li	7		106.579								
|	Be	9		106.070								
|	B	11		102.923								
|	Na	23		92.125								
|	Mg	24		95.520								
|	Al	27		95.485								
|	P	31		96.683								
|	K	39		93.474								
|	Ca	43		94.955								
>	Sc	45				101.4						
|	Ti	47		97.942								
|	V	51		101.814								
|	Cr	52		104.535								
|	Cr	53										
|	Mn	55		104.554								
|	Fe	57		99.152								
|	Co	59		101.180								
|	Ni	60		105.898								
|	Cu	63										
|	Cu	65		105.317								
|	Zn	66		96.997								
|	Zn	67										
|	Zn	68										
>	Ge	74				102.9						
|	As	75		101.365								
|	Se	77										
|	Se	82		96.454								
|	Kr	83										
|	Sr	88		105.511								
|	Y	89										
|	Zr	90		97.487								
|	Mo	98		97.385								
|	Ag	107		105.245								
|	Cd	111		103.436								
|	Cd	114										
>	In	115				98.8						
|	Sn	120		99.735								
|	Sb	121		111.512								
|	Sb	123										
|	Ba	135										
|	Ba	137		98.437								
|	Ho	165										
>	Lu	175				99.0						
|	Tl	205		99.788								
|	Pb	208		103.664								
|	Th	232		101.598								
|	U	238		109.103								

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message
 QC Std 6 Sb 121CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Monday, April 12, 2010 02:31:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.548

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.009	ug/L	77.194	36	0.000
Be	9	0.015	ug/L	194.846	8	0.000
B	11	1.304	ug/L	24.531	273	0.000
Na	23	3.121	ug/L	62.867	13340	0.009
Mg	24	0.225	ug/L	1006.100	2667	0.000
Al	27	0.374	ug/L	327.515	2667	0.001
P	31	-4.652	ug/L	44.021	3492	-0.001
K	39	-2.050	ug/L	156.294	374513	-0.010
Ca	43	11.082	ug/L	59.173	232	0.000
> Sc	45		ug/L		648601	648601.256
Ti	47	0.019	ug/L	77.745	183	0.000
V	51	0.293	ug/L	160.607	18753	0.002
Cr	52	0.296	ug/L	10.513	-11717	0.001
Cr	53		ug/L		130121	0.007
Mn	55	0.005	ug/L	67.733	762	0.000
Fe	57	-0.146	ug/L	1108.011	5607	-0.000
Co	59	0.008	ug/L	10.752	173	0.000
Ni	60	-0.005	ug/L	360.063	75	-0.000
Cu	63		ug/L		2918	-0.005
Cu	65	-1.823	ug/L	2.381	1382	-0.003
Zn	66	-5.140	ug/L	3.648	1294	-0.011
Zn	67		ug/L		7644	0.000
Zn	68		ug/L		1538	-0.008
> Ge	74		ug/L		263064	263063.942
As	75	-0.214	ug/L	108.469	90	-0.001
Se	77		ug/L		5552	0.005
Se	82	1.619	ug/L	16.864	126	0.000
Kr	83		ug/L		55	0.000
Sr	88	0.008	ug/L	32.844	240	0.000
Y	89		ug/L		22	0.000
Zr	90	0.260	ug/L	22.749	1802	0.008
Mo	98	0.152	ug/L	57.279	1313	0.002
Ag	107	0.005	ug/L	125.644	317	0.000
Cd	111	0.015	ug/L	96.257	25	0.000
Cd	114		ug/L		60	0.000
> In	115		ug/L		164402	164402.130
Sn	120	0.052	ug/L	29.313	1367	0.001
Sb	121	1.186	ug/L	23.087	3795	0.018
Sb	123		ug/L		2931	0.014
Ba	135		ug/L		27	0.000
Ba	137	0.012	ug/L	44.210	49	0.000
Ho	165		ug/L		8	-0.000
> Lu	175		ug/L		193991	193990.904
Tl	205	0.456	ug/L	8.671	2891	0.013
Pb	208	-0.132	ug/L	6.805	4866	-0.007
Th	232	0.412	ug/L	18.741	5285	0.022
U	238	-0.043	ug/L	9.613	853	-0.002

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 02:34:02

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Zr	90Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: QC Std 7

Report Date/Time: Monday, April 12, 2010 02:34:02

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QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		101.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		102.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Zr	90					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		99.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		99.6			
Tl	205					
Pb	208					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 7	Cu	65CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, April 13, 2010 11:33:12

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.1054

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

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

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

	Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
	Be	9.0		1541.9		1541.883		43.705		2.8
	Mg	24.0		38738.9		38738.859		434.290		1.1
	Co	58.9		63185.8		63185.831		373.250		0.6
	Rh	102.9		123622.6		123622.601		766.014		0.6
	In	114.9		178721.4		178721.441		1254.626		0.7
	Pb	208.0		214246.1		214246.105		2038.893		1.0
[>	Ba	137.9		169586.4		169586.427		957.403		0.6
[	Ba++	69.0		1987.6		0.012		0.000		2.3
[>	Ce	139.9		205613.0		205612.974		1509.978		0.7
[	CeO	155.9		4192.2		0.020		0.000		2.1
	Bkgd	220.0		19.8		19.800		2.564		13.0

Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
6.75	Lens Voltage
1450.00	ICP RF Power
-1812.50	Analog Stage Voltage
1300.00	Pulse Stage Voltage
200.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	7.0	3372.1
Co	59	21	7.8	60333.1
In	115	21	9.5	172853.8

ICPMS #5 Instrument Tuning Report

File Name: 100413.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	606	2072	0.540
Be	9.0	9.0	2061	2088	0.543
Mg	24.0	24.0	5699	2085	0.562
Mg	25.0	25.0	5939	2085	0.540
Mg	26.0	26.0	6187	2100	0.545
Co	58.9	59.0	14193	2125	0.528
Rh	102.9	102.9	24880	2180	0.530
In	114.9	114.9	27796	2200	0.535
Ce	139.9	139.9	33878	2220	0.547
Pb	206.0	206.0	49948	2305	0.522
Pb	207.0	207.0	50171	2240	0.593
Pb	208.0	208.0	50451	2280	0.636
U	238.1	238.0	57731	2295	0.641

Report Date/Time: Tuesday, April 13, 2010 11:31:24

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ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, April 13, 2010 11:45:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Blank.001

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		185761	
|	Sn	120		ug/L		601	
|	Sb	121		ug/L		81	
|	Sb	123		ug/L		67	
[>	Lu	175		ug/L		392643	
|	U	238		ug/L		76	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Simple Linear	
Sn	120	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Lu	175	Simple Linear	
U	238	Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	In	115					
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175					
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 11:45:32

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ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, April 13, 2010 11:47:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.002

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		182036	182035.964
|	Sn	120	10.000	ug/L	2.014	53910	0.293
|	Sb	121	10.000	ug/L	2.863	41462	0.227
|	Sb	123		ug/L		32322	0.177
[>	Lu	175		ug/L		382362	382362.256
|	U	238	10.000	ug/L	3.365	459323	1.201

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115						
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175						
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Tuesday, April 13, 2010 11:47:57

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ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, April 13, 2010 11:49:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.003

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		184236	184236.210
| Sn	120	99.964	ug/L	2.074	521119	2.826
| Sb	121	100.049	ug/L	1.558	440889	2.393
| Sb	123		ug/L		342818	1.861
[> Lu	175		ug/L		399772	399771.738
| U	238	99.900	ug/L	1.081	4361704	10.910

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> In	115					
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Tuesday, April 13, 2010 11:50:23

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ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, April 13, 2010 11:52:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.004

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		184783	184782.938
| Sn	120	50.255	ug/L	2.353	263015	1.421
| Sb	121	53.137	ug/L	3.381	234778	1.271
| Sb	123		ug/L		182858	0.989
[> Lu	175		ug/L		396367	396366.712
| U	238	51.729	ug/L	1.463	2238990	5.649

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[> In	115		99.5				
| Sn	120	100.511					
| Sb	121	106.273					
| Sb	123						
[> Lu	175		100.9				
| U	238	103.458					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 11:52:49

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, April 13, 2010 11:54:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 2.005

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		186749	186749.324
|	Sn	120	-0.014	ug/L	83.102	532	-0.000
|	Sb	121	0.344	ug/L	3.857	1616	0.008
|	Sb	123		ug/L		1273	0.006
[>	Lu	175		ug/L		394533	394532.622
|	U	238	0.005	ug/L	10.622	275	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		100.5				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		100.5				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Tuesday, April 13, 2010 11:55:20

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, April 13, 2010 11:57:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.006

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		187234	187233.558
| Sn	120	5.598	ug/L	2.621	30227	0.158
| Sb	121	2.944	ug/L	1.367	13265	0.070
| Sb	123		ug/L		10433	0.055
[> Lu	175		ug/L		396608	396607.555
| U	238	0.301	ug/L	2.546	13096	0.033

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115			100.8			
| Sn	120	111.957					
| Sb	121	98.142					
| Sb	123						
[> Lu	175		101.0				
| U	238	150.304					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	U	238	CRDL is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 3

Report Date/Time: Tuesday, April 13, 2010 11:57:47

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, April 13, 2010 11:59:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.007

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		163099	163099.298
|	Sn	120	0.204	ug/L	2.717	1469	0.006
|	Sb	121	0.265	ug/L	3.152	1103	0.006
|	Sb	123		ug/L		895	0.005
[>	Lu	175		ug/L		355401	355400.625
|	U	238	0.002	ug/L	19.302	147	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		87.8				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		90.5				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, April 13, 2010 12:02:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 5.008

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		164246	164245.716
|	Sn	120	20.117	ug/L	2.678	93906	0.569
|	Sb	121	20.261	ug/L	2.170	79645	0.485
|	Sb	123		ug/L		62352	0.379
[>	Lu	175		ug/L		356670	356669.933
|	U	238	21.126	ug/L	0.769	822958	2.307

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		88.4				
|	Sn	120	100.587					
|	Sb	121	101.307					
|	Sb	123						
[>	Lu	175		90.8				
|	U	238	105.631					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Tuesday, April 13, 2010 12:02:42

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 12:04:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.009

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		180800	180799.988
|	Sn	120	49.813	ug/L	3.483	255017	1.408
|	Sb	121	52.557	ug/L	3.494	227209	1.257
|	Sb	123		ug/L		178584	0.988
[>	Lu	175		ug/L		384201	384200.999
|	U	238	52.168	ug/L	0.479	2188900	5.697

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		97.3				
|	Sn	120	99.627					
|	Sb	121	105.114					
|	Sb	123						
[>	Lu	175		97.8				
|	U	238	104.336					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Tuesday, April 13, 2010 12:05:10

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, April 13, 2010 12:07:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.010

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		178005	178004.541
| Sn	120	-0.027	ug/L	23.813	442	-0.001
| Sb	121	0.191	ug/L	2.212	892	0.005
| Sb	123		ug/L		687	0.004
[> Lu	175		ug/L		382061	382060.614
| U	238	0.003	ug/L	10.893	210	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> In	115		95.8			
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175		97.3			
| U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, April 13, 2010 12:07:40

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 12:31:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.020

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		179880	179879.590
|	Sn	120	50.183	ug/L	0.622	255755	1.419
|	Sb	121	52.882	ug/L	0.671	227587	1.265
|	Sb	123		ug/L		177328	0.985
[>	Lu	175		ug/L		385933	385933.317
|	U	238	51.782	ug/L	2.522	2181888	5.655

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			96.8			
|	Sn	120	100.367					
|	Sb	121	105.764					
|	Sb	123						
[>	Lu	175			98.3			
|	U	238	103.564					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 12:34:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.021

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		180084	180084.005
|	Sn	120	-0.039	ug/L	7.068	383	-0.001
|	Sb	121	0.142	ug/L	4.782	688	0.003
|	Sb	123		ug/L		548	0.003
[>	Lu	175		ug/L		382471	382471.262
|	U	238	0.004	ug/L	7.628	243	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		96.9				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		97.4				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 12:34:43

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056813

Sample Date/Time: Tuesday, April 13, 2010 12:36:42

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056813.022

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		182948	182947.575
|	Sn	120	0.147	ug/L	7.597	1351	0.004
|	Sb	121	0.097	ug/L	3.410	506	0.002
[	Sb	123		ug/L		404	0.002
[>	Lu	175		ug/L		384345	384344.903
[	U	238	0.016	ug/L	4.601	757	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	In	115			98.5			
|	Sn	120						
|	Sb	121						
[	Sb	123						
[>	Lu	175			97.9			
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056813

Report Date/Time: Tuesday, April 13, 2010 12:37:11

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056814

Sample Date/Time: Tuesday, April 13, 2010 12:39:09

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056814.023

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		184347	184347.192
|	Sn	120	53.014	ug/L	1.871	276836	1.499
|	Sb	121	56.017	ug/L	1.433	247049	1.340
|	Sb	123		ug/L		193795	1.051
[>	Lu	175		ug/L		388355	388354.632
|	U	238	47.093	ug/L	4.802	1996875	5.143

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	In	115		99.2			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175		98.9			
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247997001

Sample Date/Time: Tuesday, April 13, 2010 12:41:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\247997001.024

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		186391	186390.715
|	Sn	120	0.143	ug/L	8.104	1357	0.004
|	Sb	121	0.053	ug/L	11.175	316	0.001
|	Sb	123		ug/L		262	0.001
[>	Lu	175		ug/L		390711	390710.570
|	U	238	0.016	ug/L	7.498	770	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			100.3			
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175			99.5			
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 12:53:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.029

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		179439	179438.954
|	Sn	120	49.856	ug/L	1.546	253434	1.409
|	Sb	121	52.280	ug/L	2.701	224406	1.250
|	Sb	123		ug/L		175814	0.980
[>	Lu	175		ug/L		380571	380570.868
|	U	238	51.864	ug/L	1.091	2155752	5.664

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		96.6				
|	Sn	120	99.711					
|	Sb	121	104.560					
|	Sb	123						
[>	Lu	175		96.9				
|	U	238	103.728					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 12:56:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.030

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		178375	178374.506
| Sn	120	-0.037	ug/L	13.537	393	-0.001
| Sb	121	0.145	ug/L	3.498	696	0.003
| Sb	123		ug/L		550	0.003
[> Lu	175		ug/L		376824	376824.203
| U	238	0.004	ug/L	28.193	240	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115		96.0				
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		96.0				
| U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 12:56:55

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 13:21:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.039

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		181343	181343.112
| Sn	120	49.625	ug/L	1.270	254948	1.403
| Sb	121	51.369	ug/L	0.964	222861	1.229
| Sb	123		ug/L		175048	0.965
[> Lu	175		ug/L		380870	380870.172
| U	238	51.061	ug/L	0.982	2123878	5.576

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115		97.6				
| Sn	120	99.251					
| Sb	121	102.737					
| Sb	123						
[> Lu	175		97.0				
| U	238	102.121					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 13:22:24

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 13:24:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.040

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		182593	182593.360
|	Sn	120	-0.048	ug/L	9.118	341	-0.001
|	Sb	121	0.142	ug/L	3.687	700	0.003
|	Sb	123		ug/L		534	0.003
[>	Lu	175		ug/L		384056	384055.625
|	U	238	0.004	ug/L	3.626	253	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115		98.3				
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175		97.8				
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056815

Sample Date/Time: Tuesday, April 13, 2010 13:29:21

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056815.042

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		186636	186636.140
| Sn	120	0.016	ug/L	8.740	687	0.000
| Sb	121	0.045	ug/L	6.753	281	0.001
| Sb	123		ug/L		231	0.001
[> Lu	175		ug/L		381121	381120.525
| U	238	0.004	ug/L	15.025	254	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[> In	115			100.5		
| Sn	120					
| Sb	121					
| Sb	123					
[> Lu	175			97.1		
| U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056815

Report Date/Time: Tuesday, April 13, 2010 13:29:50

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056816

Sample Date/Time: Tuesday, April 13, 2010 13:31:49

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056816.043

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		182129	182128.936
| Sn	120	51.809	ug/L	0.531	267315	1.465
| Sb	121	213.423	ug/L	1.870	929701	5.105
| Sb	123		ug/L		732807	4.023
[> Lu	175		ug/L		377501	377500.781
| U	238	46.046	ug/L	0.561	1898346	5.029

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115			98.0			
| Sn	120						
| Sb	121						
| Sb	123						
[> Lu	175		96.1				
| U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056817

Sample Date/Time: Tuesday, April 13, 2010 13:34:17

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959091|5|prb

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\1202056817.044

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		180322	180322.483
|	Sn	120	-0.022	ug/L	13.652	474	-0.001
|	Sb	121	0.122	ug/L	7.610	604	0.003
|	Sb	123		ug/L		491	0.002
[>	Lu	175		ug/L		383535	383534.538
|	U	238	0.027	ug/L	3.994	1195	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	In	115			97.1			
|	Sn	120						
|	Sb	121						
|	Sb	123						
[>	Lu	175			97.7			
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056817

Report Date/Time: Tuesday, April 13, 2010 13:34:46

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 13:36:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.045

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> In	115		ug/L		169071	169071.440
| Sn	120	49.887	ug/L	2.022	238915	1.410
| Sb	121	52.708	ug/L	3.274	213128	1.261
| Sb	123		ug/L		164071	0.970
[> Lu	175		ug/L		364393	364393.398
| U	238	49.365	ug/L	2.181	1964182	5.391

Calibration

Analyte	MassCurve Type	Correlation Coefficient
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> In	115			91.0			
| Sn	120	99.775					
| Sb	121	105.416					
| Sb	123						
[> Lu	175		92.8				
| U	238	98.730					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, April 13, 2010 13:37:15

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 13:39:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\sb and u.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.046

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	In	115		ug/L		179196	179196.267
|	Sn	120	-0.042	ug/L	10.523	368	-0.001
|	Sb	121	0.141	ug/L	7.956	681	0.003
|	Sb	123		ug/L		547	0.003
[>	Lu	175		ug/L		383407	383407.402
|	U	238	0.006	ug/L	16.687	322	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
In	115	Linear Thru Zero	
Sn	120	Linear Thru Zero	1.0000
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	In	115			96.5		
|	Sn	120					
|	Sb	121					
|	Sb	123					
[>	Lu	175			97.6		
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, April 13, 2010 13:39:45

Page 1

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, April 13, 2010 15:12:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\Blank.090

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		350450	
[U	238		ug/L		325	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, April 13, 2010 15:13:04

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, April 13, 2010 15:14:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\Standard 1.091

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		357385	357385.496
[	U	238	10.000	ug/L	1.263	423309	1.183

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Tuesday, April 13, 2010 15:14:41

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, April 13, 2010 15:16:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\Standard 2.092

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		346400	346400.487
[	U	238	99.956	ug/L	0.528	3924964	11.330

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, April 13, 2010 15:17:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 1.093

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		349311	349311.125
[	U	238	49.627	ug/L	0.746	1965252	5.625

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			99.7			
[U	238	99.254					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, April 13, 2010 15:17:56

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, April 13, 2010 15:19:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 2.094

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		350872	350872.277
[	U	238	0.012	ug/L	5.508	815	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		100.1			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, April 13, 2010 15:21:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 3.095

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		341237	341237.117
[U	238	0.216	ug/L	1.954	8686	0.025

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175			97.4			
[U	238	108.183					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 3

Report Date/Time: Tuesday, April 13, 2010 15:21:17

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, April 13, 2010 15:22:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 4.096

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		321479	321479.366
[	U	238	-0.002	ug/L	2.476	214	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			91.7			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Tuesday, April 13, 2010 15:22:56

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, April 13, 2010 15:24:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 5.097

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		323412	323411.634
[	U	238	20.986	ug/L	1.639	769564	2.379

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			92.3			
[U	238	104.932					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, April 13, 2010 15:26:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 6.098

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		344845	344845.355
[	U	238	49.309	ug/L	1.762	1927882	5.589

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			98.4			
[U	238	98.617					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, April 13, 2010 15:27:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 7.099

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		345974	345974.197
[	U	238	0.010	ug/L	12.917	706	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			98.7		
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 15:44:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.109

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		341777	341777.190
[	U	238	50.362	ug/L	1.286	1951226	5.709

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			97.5			
[U	238	100.723					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 15:45:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.110

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		349790	349789.814
[	U	238	0.009	ug/L	2.899	693	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			99.8			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056813

Sample Date/Time: Tuesday, April 13, 2010 15:47:34

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056813.111

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		349509	349508.811
[	U	238	0.012		ug/L	2.771	800	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			99.7		
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056814

Sample Date/Time: Tuesday, April 13, 2010 15:49:13

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056814.112

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		358689	358688.810
[	U	238	45.301	ug/L	2.269	1841875	5.135

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			102.4			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247997001

Sample Date/Time: Tuesday, April 13, 2010 15:50:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\247997001.113

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		352127	352127.329
[	U	238	0.027	ug/L	6.669	1403	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			100.5			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 15:59:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.118

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		351399	351399.441
[	U	238	48.797	ug/L	2.328	1943686	5.531

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			100.3			
[U	238	97.594					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 16:00:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.119

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		348712	348712.118
[	U	238	0.009		ug/L	8.140	686	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			99.5			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202056815

Sample Date/Time: Tuesday, April 13, 2010 16:09:05

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\1202056815.124

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		353376	353376.063
[U	238	-0.002	ug/L	16.442	255	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu	175			100.8		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056815

Report Date/Time: Tuesday, April 13, 2010 16:09:16

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056816

Sample Date/Time: Tuesday, April 13, 2010 16:10:45

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959091|1|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056816.125

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		357811	357811.472
[	U	238	45.049	ug/L	1.992	1827432	5.106

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			102.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056816

Report Date/Time: Tuesday, April 13, 2010 16:10:56

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202056817

Sample Date/Time: Tuesday, April 13, 2010 16:12:24

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959091|5|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100413\1202056817.126

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		351505	351505.276
[U	238	0.030	ug/L	3.571	1540	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175		100.3				
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, April 13, 2010 16:14:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 8.127

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		343618	343618.256
[	U	238	50.399	ug/L	1.318	1963281	5.713

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			98.1			
[U	238	100.798					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, April 13, 2010 16:15:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100413\QC Std 9.128

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		351588	351587.835
[	U	238	0.011	ug/L	7.475	771	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			100.3		
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\030210W1.SIF

Batch ID:

Results Data Set: 030210W3

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: Calib Blank
Analyst:Autosampler Location: 1
Date Collected: 3/2/2010 08:26:33
Data Type: Original-----
Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0027	0.0006	08:27:33	Yes
2		[0.00]	0.0006	0.0025	0.0006	08:28:08	Yes
Mean:		[0.00]	0.0006				
SD:		0.00	0.0000				
%RSD:		0.00	8.04				

Auto-zero performed.=====
Sequence No.: 2
Sample ID: S0.2
Analyst:Autosampler Location: 2
Date Collected: 3/2/2010 08:28:26
Data Type: Original-----
Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0021	0.0131	0.0027	08:29:27	Yes
2		[0.2]	0.0021	0.0122	0.0028	08:30:02	Yes
Mean:		[0.2]	0.0021				
SD:		0.0	0.0000				
%RSD:		0.0	0.35				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01068 Intercept: 0.00000=====
Sequence No.: 3
Sample ID: S0.5
Analyst:Autosampler Location: 3
Date Collected: 3/2/2010 08:30:21
Data Type: Original-----
Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0054	0.0299	0.0060	08:31:22	Yes
2		[0.5]	0.0055	0.0282	0.0061	08:31:57	Yes
Mean:		[0.5]	0.0055				
SD:		0.0	0.0001				
%RSD:		0.0	1.42				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999936 Slope: 0.01097 Intercept: -0.00002=====
Sequence No.: 4
Sample ID: S2.0
Analyst:Autosampler Location: 4
Date Collected: 3/2/2010 08:32:17
Data Type: Original-----
Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
--------	-----------------	--------------	----------------	-----------	-------------	------	-------------

1	[2.0]	0.0209	0.1041	0.0215	08:33:18	Yes
2	[2.0]	0.0206	0.1004	0.0212	08:33:53	Yes
Mean:	[2.0]	0.0207				
SD:	0.0	0.0002				
%RSD:	0.0	0.90				
Standard number 3 applied. [2.0]						
Correlation Coef.: 0.999896 Slope: 0.01034 Intercept: 0.00011						

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 3/2/2010 08:34:13

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0520	0.2558	0.0526	08:35:15	Yes
2	[5.0]	[5.0]	0.0500	0.2379	0.0506	08:35:49	Yes
Mean:	[5.0]	[5.0]	0.0510				
SD:	0.0	0.0	0.0014				
%RSD:	0.0	0.0	2.77				
Standard number 4 applied. [5.0]							
Correlation Coef.: 0.999965 Slope: 0.01018 Intercept: 0.00020							

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

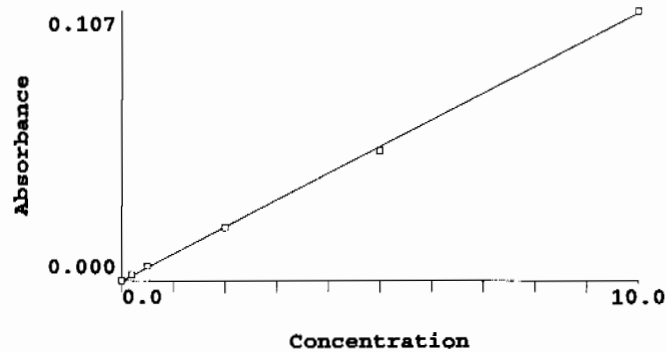
Date Collected: 3/2/2010 08:36:10

Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1058	0.5210	0.1064	08:37:10	Yes
2	[10.0]	[10.0]	0.1077	0.5459	0.1083	08:37:45	Yes
Mean:	[10.0]	[10.0]	0.1068				
SD:	0.0	0.0	0.0014				
%RSD:	0.0	0.0	1.27				
Standard number 5 applied. [10.0]							
Correlation Coef.: 0.999746 Slope: 0.01062 Intercept: -0.00030							



Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.028	0.00	8.0
S0.2	0.0021	0.2	0.229	0.00	0.4
S0.5	0.0055	0.5	0.544	0.00	1.4
S2.0	0.0207	2.0	1.982	0.00	0.9
S5.0	0.0510	5.0	4.832	0.00	2.8
S10.0	0.1068	10.0	10.085	0.00	1.3

Correlation Coef.: 0.999746 Slope: 0.01062 Intercept: -0.00030

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 3/2/2010 08:38:04
Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.221	5.221	0.0551	0.2819	0.0557	08:39:05	Yes
2	5.176	5.176	0.0547	0.2755	0.0553	08:39:40	Yes
Mean:	5.199	5.199	0.0549				
SD:	0.032	0.032	0.0003				
%RSD:	0.612	0.612	0.61				

QC value within limits for Hg 253.7 Recovery = 103.98%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 3/2/2010 08:40:00
Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	0.031	0.0000	0.0024	0.0006	08:41:01	Yes
2	0.039	0.039	0.0001	0.0036	0.0007	08:41:36	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	15.89	15.89	82.13				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRDL
Analyst:

Autosampler Location: 11
Date Collected: 3/2/2010 08:41:56
Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.234	0.234	0.0022	0.0142	0.0028	08:42:57	Yes
2	0.245	0.245	0.0023	0.0156	0.0029	08:43:32	Yes
Mean:	0.240	0.240	0.0022				
SD:	0.008	0.008	0.0001				
%RSD:	3.187	3.187	3.61				

QC value within limits for Hg 253.7 Recovery = 119.76%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 08:43:52
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.182	5.182	0.0547	0.2774	0.0553	08:44:52	Yes
2	5.128	5.128	0.0542	0.2734	0.0548	08:45:27	Yes
Mean:	5.155	5.155	0.0544				
SD:	0.038	0.038	0.0004				
%RSD:	0.738	0.738	0.74				

QC value within limits for Hg 253.7 Recovery = 103.11%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 08:45:46
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.012	0.012	-0.0002	-0.0000	0.0004	08:46:47	Yes
2	0.012	0.012	-0.0002	-0.0001	0.0004	08:47:22	Yes
Mean:	0.012	0.012	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.848	0.848	0.63				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 12
Sample ID: 1202055823|958575|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 3/2/2010 08:47:41
Data Type: Original

Replicate Data: 1202055823|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.012	0.012	-0.0002	-0.0000	0.0004	08:48:43	Yes
2	0.016	0.016	-0.0001	0.0004	0.0005	08:49:17	Yes
Mean:	0.014	0.014	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	18.17	18.17	19.03				

=====

Sequence No.: 13
Sample ID: 1202055824|958575|1
Analyst: JXL

Autosampler Location: 13
Date Collected: 3/2/2010 08:49:38
Data Type: Original

Replicate Data: 1202055824|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.127	2.127	0.0223	0.1129	0.0229	08:50:40	Yes
2	2.104	2.104	0.0220	0.1110	0.0227	08:51:14	Yes
Mean:	2.116	2.116	0.0222				
SD:	0.016	0.016	0.0002				
%RSD:	0.778	0.778	0.79				

=====

Sequence No.: 14
Sample ID: 247037001|958575|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 3/2/2010 08:51:35
Data Type: Original

Replicate Data: 247037001|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	-0.0000	0.0025	0.0006	08:52:35	Yes
2	0.045	0.045	0.0002	0.0048	0.0008	08:53:11	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.012	0.012	0.0001				
%RSD:	34.19	34.19	145.41				

=====

Sequence No.: 15
Sample ID: 1202055825|958575|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 3/2/2010 08:53:30
Data Type: Original

Replicate Data: 1202055825|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.019	0.019	-0.0001	0.0021	0.0005	08:54:30	Yes
2	0.028	0.028	-0.0000	0.0030	0.0006	08:55:05	Yes
Mean:	0.024	0.024	-0.0000				
SD:	0.006	0.006	0.0001				

1	0.032	0.032	0.0000	0.0035	0.0007	09:04:04	Yes
2	0.032	0.032	0.0000	0.0030	0.0007	09:04:39	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.786	0.786	6.22				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 247042004|958575|1

Date Collected: 3/2/2010 09:04:58

Analyst: JXL

Data Type: Original

Replicate Data: 247042004|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0031	0.0006	09:05:59	Yes
2	0.030	0.030	0.0000	0.0036	0.0006	09:06:34	Yes
Mean:	0.029	0.029	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.826	4.826	93.90				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 09:06:54

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.128	5.128	0.0541	0.2768	0.0548	09:07:54	Yes
2	5.127	5.127	0.0541	0.2755	0.0547	09:08:29	Yes
Mean:	5.128	5.128	0.0541				
SD:	0.001	0.001	0.0000				
%RSD:	0.015	0.015	0.02				

QC value within limits for Hg 253.7 Recovery = 102.55%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 09:08:48

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.032	0.032	0.0000	0.0035	0.0007	09:09:49	Yes
2	0.037	0.037	0.0001	0.0040	0.0007	09:10:24	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.44	10.44	53.94				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 247042005|958575|1

Date Collected: 3/2/2010 09:10:43

Analyst: JXL

Data Type: Original

Replicate Data: 247042005|958575|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0033	0.0006	09:11:44	Yes
2	0.033	0.033	0.0001	0.0036	0.0007	09:12:19	Yes
Mean:	0.031	0.031	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	8.235	8.235	83.29				

SD: 0.003 0.003 0.0000
%RSD: 9.252 9.252 154.88

Sequence No.: 30

Sample ID: 1202055830|958578|1

Analyst: JXL

Autosampler Location: 28

Date Collected: 3/2/2010 09:22:19

Data Type: Original

Replicate Data: 1202055830|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0034	0.0006	09:23:19	Yes
2	0.026	0.026	-0.0000	0.0025	0.0006	09:23:54	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	7.825	7.825	359.08				

Sequence No.: 31

Sample ID: 1202055831|958578|1

Analyst: JXL

Autosampler Location: 29

Date Collected: 3/2/2010 09:24:13

Data Type: Original

Replicate Data: 1202055831|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.105	2.105	0.0221	0.1147	0.0227	09:25:14	Yes
2	2.105	2.105	0.0221	0.1146	0.0227	09:25:49	Yes
Mean:	2.105	2.105	0.0221				
SD:	0.000	0.000	0.0000				
%RSD:	0.010	0.010	0.01				

Sequence No.: 32

Sample ID: 1202055832|958278|5

Analyst: JXL

Autosampler Location: 30

Date Collected: 3/2/2010 09:26:08

Data Type: Original

Replicate Data: 1202055832|958278|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0028	0.0006	09:27:08	Yes
2	0.025	0.025	-0.0000	0.0026	0.0006	09:27:43	Yes
Mean:	0.025	0.025	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	3.125	3.125	27.93				

Sequence No.: 33

Sample ID: 247036002|958578|1

Analyst: JXL

Autosampler Location: 31

Date Collected: 3/2/2010 09:28:02

Data Type: Original

Replicate Data: 247036002|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0001	0.0026	0.0006	09:29:03	Yes
2	0.029	0.029	0.0000	0.0031	0.0006	09:29:38	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	16.58	16.58	246.20				

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 09:29:57

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.092	5.092	0.0538	0.2718	0.0544	09:30:58	Yes
2	5.019	5.019	0.0530	0.2655	0.0536	09:31:32	Yes
Mean:	5.056	5.056	0.0534				
SD:	0.051	0.051	0.0005				
%RSD:	1.013	1.013	1.02				

QC value within limits for Hg 253.7 Recovery = 101.11%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 09:31:51

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.048	0.048	0.0002	0.0039	0.0008	09:32:52	Yes
2	0.033	0.033	0.0001	0.0029	0.0007	09:33:27	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	25.10	25.10	81.63				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 247036003|958578|1

Date Collected: 3/2/2010 09:33:47

Analyst: JXL

Data Type: Original

Replicate Data: 247036003|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0027	0.0006	09:34:48	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	09:35:23	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	8.511	8.511	602.34				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 247036004|958578|1

Date Collected: 3/2/2010 09:35:42

Analyst: JXL

Data Type: Original

Replicate Data: 247036004|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0000	0.0024	0.0006	09:36:43	Yes
2	0.037	0.037	0.0001	0.0036	0.0007	09:37:18	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.009	0.009	0.0001				
%RSD:	31.23	31.23	437.06				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 247036005|958578|1

Date Collected: 3/2/2010 09:37:38

Analyst: JXL

Data Type: Original

Replicate Data: 247036005|958578|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0029	0.0006	09:38:39	Yes
2	0.025	0.025	-0.0000	0.0028	0.0006	09:39:14	Yes
Mean:	0.026	0.026	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.570	4.570	52.14				

Mean: 0.029 0.029 0.0000
SD: 0.004 0.004 0.0000
%RSD: 15.71 15.71 746.11

Sequence No.: 44

Sample ID: 1202055833|958581|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 3/2/2010 09:49:16

Data Type: Original

Replicate Data: 1202055833|958581|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.021	0.021	-0.0001	0.0024	0.0005	09:50:17	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	09:50:51	Yes
Mean:	0.025	0.025	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	21.51	21.51	171.71				

Sequence No.: 45

Sample ID: 1202055834|958581|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 3/2/2010 09:51:11

Data Type: Original

Replicate Data: 1202055834|958581|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.186	2.186	0.0229	0.1196	0.0235	09:52:12	Yes
2	2.183	2.183	0.0229	0.1194	0.0235	09:52:47	Yes
Mean:	2.184	2.184	0.0229				
SD:	0.003	0.003	0.0000				
%RSD:	0.123	0.123	0.12				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 09:53:06

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.016	5.016	0.0530	0.2735	0.0536	09:54:06	Yes
2	5.018	5.018	0.0530	0.2717	0.0536	09:54:41	Yes
Mean:	5.017	5.017	0.0530				
SD:	0.001	0.001	0.0000				
%RSD:	0.023	0.023	0.02				

QC value within limits for Hg 253.7 Recovery = 100.34%

All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 09:55:00

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.035	0.035	0.0001	0.0033	0.0007	09:56:01	Yes
2	0.032	0.032	0.0000	0.0031	0.0007	09:56:36	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.467	5.467	32.35				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 247817001|958581|1

Autosampler Location: 42

Date Collected: 3/2/2010 09:56:55

2	0.038	0.038	0.0001	0.0037	0.0007	10:15:55	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	4.045	4.045	16.44				

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 10:16:14

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.001	5.001	0.0528	0.2739	0.0534	10:17:15	Yes
2	4.992	4.992	0.0527	0.2715	0.0533	10:17:50	Yes
Mean:	4.997	4.997	0.0528				
SD:	0.006	0.006	0.0001				
%RSD:	0.126	0.126	0.13				

QC value within limits for Hg 253.7 Recovery = 99.93%

All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 10:18:09

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.031	0.031	0.0000	0.0030	0.0006	10:19:09	Yes
2	0.033	0.033	0.0001	0.0032	0.0007	10:19:45	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.084	5.084	37.73				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 60

Sample ID: 1202055843|958587|1

Analyst: JXL

Autosampler Location: 52

Date Collected: 3/2/2010 10:20:04

Data Type: Original

Replicate Data: 1202055843|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	-0.0000	0.0029	0.0006	10:21:05	Yes
2	0.032	0.032	0.0000	0.0035	0.0007	10:21:41	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	11.19	11.19	167.05				

Sequence No.: 61

Sample ID: 1202055844|958587|1

Analyst: JXL

Autosampler Location: 53

Date Collected: 3/2/2010 10:22:00

Data Type: Original

Replicate Data: 1202055844|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.176	2.176	0.0228	0.1196	0.0234	10:23:01	Yes
2	2.169	2.169	0.0227	0.1186	0.0233	10:23:36	Yes
Mean:	2.173	2.173	0.0228				
SD:	0.005	0.005	0.0001				
%RSD:	0.228	0.228	0.23				

Sequence No.: 62

Autosampler Location: 54

%RSD: 3.709 3.709 11.51

Sequence No.: 67

Sample ID: 248044003|958587|1

Analyst: JXL

Autosampler Location: 59

Date Collected: 3/2/2010 10:33:34

Data Type: Original

Replicate Data: 248044003|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.037	0.037	0.0001	0.0035	0.0007	10:34:36	Yes
2	0.042	0.042	0.0001	0.0036	0.0008	10:35:11	Yes
Mean:	0.039	0.039	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	8.563	8.563	29.80				

Sequence No.: 68

Sample ID: 248044004|958587|1

Analyst: JXL

Autosampler Location: 60

Date Collected: 3/2/2010 10:35:31

Data Type: Original

Replicate Data: 248044004|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.037	0.037	0.0001	0.0035	0.0007	10:36:32	Yes
2	0.037	0.037	0.0001	0.0031	0.0007	10:37:07	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	0.860	0.860	3.53				

Sequence No.: 69

Sample ID: 248044005|958587|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 3/2/2010 10:37:27

Data Type: Original

Replicate Data: 248044005|958587|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0028	0.0006	10:38:29	Yes
2	0.029	0.029	0.0000	0.0030	0.0006	10:39:04	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	7.669	7.669	260.52				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 3/2/2010 10:39:24

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.079	5.079	0.0536	0.2761	0.0542	10:40:25	Yes
2	5.044	5.044	0.0533	0.2727	0.0539	10:41:00	Yes
Mean:	5.061	5.061	0.0534				
SD:	0.025	0.025	0.0003				
%RSD:	0.487	0.487	0.49				

QC value within limits for Hg 253.7 Recovery = 101.22%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 3/2/2010 10:41:19

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.032	0.032	0.0000	0.0028	0.0006	10:42:20	Yes
2	0.037	0.037	0.0001	0.0037	0.0007	10:42:55	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.27	10.27	56.74				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Autosampler Location: 62

Sample ID: 248044006|958587|1

Date Collected: 3/2/2010 10:43:14

Analyst: JXL

Data Type: Original

Replicate Data: 248044006|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.035	0.035	0.0001	0.0032	0.0007	10:44:16	Yes
2	0.041	0.041	0.0001	0.0037	0.0007	10:44:51	Yes
Mean:	0.038	0.038	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.62	10.62	40.88				

Sequence No.: 73

Autosampler Location: 63

Sample ID: 248127002|958587|1

Date Collected: 3/2/2010 10:45:11

Analyst: JXL

Data Type: Original

Replicate Data: 248127002|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.049	0.049	0.0002	0.0042	0.0008	10:46:12	Yes
2	0.049	0.049	0.0002	0.0038	0.0008	10:46:47	Yes
Mean:	0.049	0.049	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.072	0.072	0.17				

Sequence No.: 74

Autosampler Location: 64

Sample ID: 248168006|958587|1

Date Collected: 3/2/2010 10:47:07

Analyst: JXL

Data Type: Original

Replicate Data: 248168006|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.032	0.032	0.0000	0.0032	0.0006	10:48:08	Yes
2	0.039	0.039	0.0001	0.0038	0.0007	10:48:43	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	15.15	15.15	72.49				

Sequence No.: 75

Autosampler Location: 65

Sample ID: 248169004|958587|1

Date Collected: 3/2/2010 10:49:03

Analyst: JXL

Data Type: Original

Replicate Data: 248169004|958587|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.039	0.039	0.0001	0.0037	0.0007	10:50:04	Yes
2	0.041	0.041	0.0001	0.0036	0.0008	10:50:39	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.561	3.561	11.62				

Replicate Data: 1202055863|958593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	26.95	26.95	0.2859	1.4918	0.2865	10:59:45	Yes
Sample concentration is greater than that of the highest standard.							
2	26.74	26.74	0.2836	1.4832	0.2842	11:00:20	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	26.85	26.85	0.2847				
SD:	0.150	0.150	0.0016				
%RSD:	0.559	0.559	0.56				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 81

Autosampler Location: 71

Sample ID: 1202055864|958593|5

Date Collected: 3/2/2010 11:00:40

Analyst: JXL

Data Type: Original

Replicate Data: 1202055864|958593|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.495	5.495	0.0580	0.2982	0.0586	11:01:41	Yes
2	5.466	5.466	0.0577	0.2966	0.0583	11:02:16	Yes
Mean:	5.480	5.480	0.0579				
SD:	0.020	0.020	0.0002				
%RSD:	0.371	0.371	0.37				

Sequence No.: 82

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 11:02:36

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.006	5.006	0.0528	0.2714	0.0535	11:03:37	Yes
2	5.022	5.022	0.0530	0.2712	0.0536	11:04:12	Yes
Mean:	5.014	5.014	0.0529				
SD:	0.011	0.011	0.0001				
%RSD:	0.227	0.227	0.23				

QC value within limits for Hg 253.7 Recovery = 100.27%
All analyte(s) passed QC.

Sequence No.: 83

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 11:04:31

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.033	0.033	0.0001	0.0031	0.0007	11:05:31	Yes
2	0.048	0.048	0.0002	0.0040	0.0008	11:06:06	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	26.02	26.02	85.60				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84

Autosampler Location: 72

Sample ID: 247958002|958593|1

Date Collected: 3/2/2010 11:06:25

Analyst: JXL

Data Type: Original

Replicate Data: 247958002|958593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.063	0.063	0.0004	0.0052	0.0010	11:07:27	Yes

2	0.068	0.068	0.0004	0.0049	0.0010	11:08:02	Yes
Mean:	0.066	0.066	0.0004				
SD:	0.004	0.004	0.0000				
%RSD:	5.695	5.695	9.90				

Sequence No.: 85

Sample ID: 247958003|958593|1

Analyst: JXL

Autosampler Location: 73

Date Collected: 3/2/2010 11:08:22

Data Type: Original

Replicate Data: 247958003|958593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	14.14	14.14	0.1498	0.7668	0.1504	11:09:24	Yes
Sample concentration is greater than that of the highest standard.							
2	14.18	14.18	0.1503	0.7699	0.1509	11:09:59	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	14.16	14.16	0.1501				
SD:	0.029	0.029	0.0003				
%RSD:	0.202	0.202	0.20				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 86

Sample ID: 247958004|958593|1

Analyst: JXL

Autosampler Location: 74

Date Collected: 3/2/2010 11:10:19

Data Type: Original

Replicate Data: 247958004|958593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.261	0.261	0.0025	0.0153	0.0031	11:11:21	Yes
2	0.275	0.275	0.0026	0.0162	0.0032	11:11:56	Yes
Mean:	0.268	0.268	0.0026				
SD:	0.010	0.010	0.0001				
%RSD:	3.710	3.710	4.14				

Sequence No.: 87

Sample ID: 247958005|958593|1

Analyst: JXL

Autosampler Location: 75

Date Collected: 3/2/2010 11:12:16

Data Type: Original

Replicate Data: 247958005|958593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.159	0.159	0.0014	0.0102	0.0020	11:13:17	Yes
2	0.170	0.170	0.0015	0.0105	0.0021	11:13:52	Yes
Mean:	0.165	0.165	0.0015				
SD:	0.007	0.007	0.0001				
%RSD:	4.420	4.420	5.32				

Sequence No.: 88

Sample ID: 1202056573|958951|1

Analyst: JXL

Autosampler Location: 76

Date Collected: 3/2/2010 11:14:12

Data Type: Original

Replicate Data: 1202056573|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.033	0.033	0.0000	0.0033	0.0007	11:15:13	Yes
2	0.046	0.046	0.0002	0.0042	0.0008	11:15:48	Yes
Mean:	0.040	0.040	0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	24.87	24.87	84.85				

Sequence No.: 89

Sample ID: 1202056574|958951|1

Autosampler Location: 77

Date Collected: 3/2/2010 11:16:08

Analyst: JXL

Data Type: Original

Replicate Data: 1202056574|958951|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.200	2.200	0.0231	0.1197	0.0237	11:17:10	Yes
2	2.209	2.209	0.0232	0.1196	0.0238	11:17:45	Yes
Mean:	2.205	2.205	0.0231				
SD:	0.006	0.006	0.0001				
%RSD:	0.267	0.267	0.27				

=====

Sequence No.: 90
Sample ID: 247997001|958951|1
Analyst: JXLAutosampler Location: 78
Date Collected: 3/2/2010 11:18:05
Data Type: Original-----
Replicate Data: 247997001|958951|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0001	0.0032	0.0007	11:19:06	Yes
2	0.041	0.041	0.0001	0.0035	0.0007	11:19:41	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	15.81	15.81	65.70				

=====

Sequence No.: 91
Sample ID: 248001001|958951|1
Analyst: JXLAutosampler Location: 79
Date Collected: 3/2/2010 11:20:01
Data Type: Original-----
Replicate Data: 248001001|958951|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0001	0.0032	0.0007	11:21:03	Yes
2	0.041	0.041	0.0001	0.0038	0.0008	11:21:38	Yes
Mean:	0.037	0.037	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	15.33	15.33	60.50				

=====

Sequence No.: 92
Sample ID: 248010001|958951|1
Analyst: JXLAutosampler Location: 80
Date Collected: 3/2/2010 11:21:58
Data Type: Original-----
Replicate Data: 248010001|958951|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.034	0.034	0.0001	0.0037	0.0007	11:22:59	Yes
2	0.035	0.035	0.0001	0.0034	0.0007	11:23:34	Yes
Mean:	0.035	0.035	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.747	3.747	19.55				

=====

Sequence No.: 93
Sample ID: 248010002|958951|1
Analyst: JXLAutosampler Location: 81
Date Collected: 3/2/2010 11:23:54
Data Type: Original-----
Replicate Data: 248010002|958951|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0001	0.0041	0.0007	11:24:55	Yes
2	0.036	0.036	0.0001	0.0033	0.0007	11:25:30	Yes
Mean:	0.038	0.038	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.841	5.841	22.77				

Sequence No.: 94
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 11:25:50
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.218	5.218	0.0551	0.2817	0.0557	11:26:50	Yes
2	5.211	5.211	0.0550	0.2791	0.0556	11:27:25	Yes
Mean:	5.214	5.214	0.0551				
SD:	0.005	0.005	0.0001				
%RSD:	0.095	0.095	0.10				

QC value within limits for Hg 253.7 Recovery = 104.29%
All analyte(s) passed QC.

Sequence No.: 95
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 11:27:44
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0027	0.0006	11:28:45	Yes
2	0.038	0.038	0.0001	0.0032	0.0007	11:29:20	Yes
Mean:	0.033	0.033	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	19.42	19.42	124.89				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96
Sample ID: 248026001|958951|1
Analyst: JXL

Autosampler Location: 82
Date Collected: 3/2/2010 11:29:40
Data Type: Original

Replicate Data: 248026001|958951|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.036	0.036	0.0001	0.0035	0.0007	11:30:41	Yes
2	0.037	0.037	0.0001	0.0031	0.0007	11:31:16	Yes
Mean:	0.036	0.036	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	1.939	1.939	8.63				

Sequence No.: 97
Sample ID: 248032001|958951|1
Analyst: JXL

Autosampler Location: 83
Date Collected: 3/2/2010 11:31:36
Data Type: Original

Replicate Data: 248032001|958951|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	-0.0000	0.0029	0.0006	11:32:37	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:33:12	Yes
Mean:	0.030	0.030	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	8.573	8.573	152.05				

Sequence No.: 98
Sample ID: 248034001|958951|1
Analyst: JXL

Autosampler Location: 84
Date Collected: 3/2/2010 11:33:32
Data Type: Original

Sample ID: 248046002|958951|1
Analyst: JXL

Date Collected: 3/2/2010 11:43:16
Data Type: Original

Replicate Data: 248046002|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.025	0.025	-0.0000	0.0028	0.0006	11:44:17	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:44:52	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	15.25	15.25	>999.9%				

Sequence No.: 104

Autosampler Location: 90

Sample ID: 248053001|958951|1

Date Collected: 3/2/2010 11:45:12

Analyst: JXL

Data Type: Original

Replicate Data: 248053001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.028	0.028	0.0000	0.0030	0.0006	11:46:14	Yes
2	0.031	0.031	0.0000	0.0030	0.0006	11:46:49	Yes
Mean:	0.029	0.029	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.471	5.471	107.18				

Sequence No.: 105

Autosampler Location: 91

Sample ID: 248053002|958951|1

Date Collected: 3/2/2010 11:47:10

Analyst: JXL

Data Type: Original

Replicate Data: 248053002|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0027	0.0006	11:48:11	Yes
2	0.028	0.028	0.0000	0.0029	0.0006	11:48:46	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.952	5.952	162.46				

Sequence No.: 106

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/2/2010 11:49:06

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.948	4.948	0.0522	0.2686	0.0529	11:50:06	Yes
2	4.918	4.918	0.0519	0.2653	0.0525	11:50:41	Yes
Mean:	4.933	4.933	0.0521				
SD:	0.021	0.021	0.0002				
%RSD:	0.435	0.435	0.44				

QC value within limits for Hg 253.7 Recovery = 98.67%
All analyte(s) passed QC.

Sequence No.: 107

Autosampler Location: 8

Sample ID: CCB

Date Collected: 3/2/2010 11:51:00

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0025	0.0006	11:52:01	Yes
2	0.032	0.032	0.0000	0.0029	0.0007	11:52:36	Yes

Mean: 0.028 0.028 -0.0000
SD: 0.006 0.006 0.0001
%RSD: 20.56 20.56 >999.9%

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 108

Sample ID: 248053003|958951|1

Analyst: JXL

Autosampler Location: 92

Date Collected: 3/2/2010 11:52:55

Data Type: Original

Replicate Data: 248053003|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0032	0.0006	11:53:57	Yes
2	0.035	0.035	0.0001	0.0036	0.0007	11:54:31	Yes
Mean:	0.032	0.032	0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	11.99	11.99	88.45				

Sequence No.: 109

Sample ID: 248108001|958951|1

Analyst: JXL

Autosampler Location: 93

Date Collected: 3/2/2010 11:54:52

Data Type: Original

Replicate Data: 248108001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.026	0.026	-0.0000	0.0030	0.0006	11:55:53	Yes
2	0.030	0.030	0.0000	0.0033	0.0006	11:56:28	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	9.111	9.111	>999.9%				

Sequence No.: 110

Sample ID: 248117001|958951|1

Analyst: JXL

Autosampler Location: 94

Date Collected: 3/2/2010 11:56:48

Data Type: Original

Replicate Data: 248117001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	-0.0000	0.0025	0.0006	11:57:50	Yes
2	0.031	0.031	0.0000	0.0032	0.0006	11:58:25	Yes
Mean:	0.027	0.027	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	19.43	19.43	681.10				

Sequence No.: 111

Sample ID: 248145001|958951|1

Analyst: JXL

Autosampler Location: 95

Date Collected: 3/2/2010 11:58:45

Data Type: Original

Replicate Data: 248145001|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.029	0.029	0.0000	0.0032	0.0006	11:59:46	Yes
2	0.027	0.027	-0.0000	0.0029	0.0006	12:00:21	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.334	4.334	287.89				

Sequence No.: 112

Sample ID: 1202056575|958951|1

Analyst: JXL

Autosampler Location: 96

Date Collected: 3/2/2010 12:00:41

Data Type: Original

Replicate Data: 1202056575|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0028	0.0006	12:01:43	Yes
2	0.032	0.032	0.0000	0.0030	0.0007	12:02:19	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	20.52	20.52	>999.9%				

=====

Sequence No.: 113
Sample ID: 1202056576|958951|1
Analyst: JXLAutosampler Location: 97
Date Collected: 3/2/2010 12:02:39
Data Type: Original-----
Replicate Data: 1202056576|958951|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.290	2.290	0.0240	0.1266	0.0246	12:03:41	Yes
2	2.255	2.255	0.0236	0.1250	0.0243	12:04:16	Yes
Mean:	2.273	2.273	0.0238				
SD:	0.024	0.024	0.0003				
%RSD:	1.063	1.063	1.08				

=====

Sequence No.: 114
Sample ID: 1202056577|958951|5
Analyst: JXLAutosampler Location: 98
Date Collected: 3/2/2010 12:04:36
Data Type: Original-----
Replicate Data: 1202056577|958951|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0032	0.0006	12:05:38	Yes
2	0.032	0.032	0.0000	0.0031	0.0006	12:06:13	Yes
Mean:	0.031	0.031	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.606	4.606	53.00				

=====

Sequence No.: 115
Sample ID: 1202056608|958969|1
Analyst: JXLAutosampler Location: 99
Date Collected: 3/2/2010 12:06:33
Data Type: Original-----
Replicate Data: 1202056608|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.025	0.025	-0.0000	0.0030	0.0006	12:07:35	Yes
2	0.023	0.023	-0.0000	0.0027	0.0006	12:08:10	Yes
Mean:	0.024	0.024	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	4.800	4.800	32.24				

=====

Sequence No.: 116
Sample ID: 1202056609|958969|1
Analyst: JXLAutosampler Location: 100
Date Collected: 3/2/2010 12:08:30
Data Type: Original-----
Replicate Data: 1202056609|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.265	2.265	0.0237	0.1245	0.0244	12:09:32	Yes
2	2.262	2.262	0.0237	0.1229	0.0243	12:10:08	Yes
Mean:	2.263	2.263	0.0237				
SD:	0.002	0.002	0.0000				
%RSD:	0.077	0.077	0.08				

Sequence No.: 117
Sample ID: 248162001|958969|1
Analyst: JXL

Autosampler Location: 101
Date Collected: 3/2/2010 12:10:28
Data Type: Original

Replicate Data: 248162001|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.027	0.027	-0.0000	0.0030	0.0006	12:11:30	Yes
2	0.030	0.030	0.0000	0.0030	0.0006	12:12:05	Yes
Mean:	0.028	0.028	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.485	5.485	294.70				

Sequence No.: 118
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 3/2/2010 12:12:25
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.004	5.004	0.0528	0.2717	0.0534	12:13:26	Yes
2	5.010	5.010	0.0529	0.2692	0.0535	12:14:01	Yes
Mean:	5.007	5.007	0.0529				
SD:	0.004	0.004	0.0000				
%RSD:	0.080	0.080	0.08				

QC value within limits for Hg 253.7 Recovery = 100.14%
All analyte(s) passed QC.

Sequence No.: 119
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 3/2/2010 12:14:20
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.030	0.030	0.0000	0.0031	0.0006	12:15:21	Yes
2	0.038	0.038	0.0001	0.0035	0.0007	12:15:56	Yes
Mean:	0.034	0.034	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	15.64	15.64	89.85				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120
Sample ID: 248162002|958969|1
Analyst: JXL

Autosampler Location: 102
Date Collected: 3/2/2010 12:16:15
Data Type: Original

Replicate Data: 248162002|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.024	0.024	-0.0000	0.0026	0.0006	12:17:17	Yes
2	0.032	0.032	0.0000	0.0031	0.0006	12:17:52	Yes
Mean:	0.028	0.028	-0.0000				
SD:	0.005	0.005	0.0001				
%RSD:	18.16	18.16	>999.9%				

Sequence No.: 121
Sample ID: 248162003|958969|1
Analyst: JXL

Autosampler Location: 103
Date Collected: 3/2/2010 12:18:12
Data Type: Original

Replicate Data: 248162003|958969|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
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Miscellaneous

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 959090.0
Analyst: Francena Armstrong
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Sartorius Balance B-001

Verified by:

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check	Description	Serial Number	Spike Amount	Spike Units
1202056813 MB	02-MAR-2010 14:30:00	Water	50	50	1	<2	ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).	U1100205-A	.5	mL
1202056814 LCS	02-MAR-2010 14:30:00	Water	50	50	1	<2	MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).	U1100205-B	.5	mL
247997001	02-MAR-2010 14:30:00	Water	50	50	1	<2	ICP-MS DOE liquid Spike Solution A	U1090930-A	.5	mL
248001001	02-MAR-2010 14:30:00	Water	50	50	1	<2	ICP-MS DOE Liquid Spike Solution B	U1090930-B	.5	mL
248010001	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248010002	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248032001	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248034001	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248039001	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248046001	02-MAR-2010 14:30:00	Water	50	50	1	<2				
248046002	02-MAR-2010 14:30:00	Water	50	50	1	<2				
1202056815 DUP (248046002)	02-MAR-2010 14:30:00	Water	50	50	1	<2				
1202056816 MS (248046002)	02-MAR-2010 14:30:00	Water	50	50	1	<2				
1202056817 SDILT (248046002)	02-MAR-2010 14:30:00	Water	50	50	1	<2				

Comments:

Reagent/Solvent	Lot ID	Description	Amount
1274969		Nitric Acid CONC.	1 mL
1274973		HYDROCHLORIC ACID	2.5 mL

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GEL Laboratories LLC

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958949.0
Analyst: Tara Griffin
Method: SW846 7470A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: No analytical instrument

Verified by: _____

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056574	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL
MS	1202056576	Mercury working intermediate standard for LCS/MS	WHG100301-13	.2	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056573 MB	01-MAR-2010 12:20:00	Water	20	20	1	<2
1202056574 LCS	01-MAR-2010 12:20:00	Water	20	20	1	<2
247997001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248001001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248010001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248010002	01-MAR-2010 12:20:00	Water	20	20	1	<2
248032001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248034001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248038001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248038002	01-MAR-2010 12:20:00	Water	20	20	1	<2
248039001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248046001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248046002	01-MAR-2010 12:20:00	Water	20	20	1	<2
248053001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248053002	01-MAR-2010 12:20:00	Water	20	20	1	<2
248053003	01-MAR-2010 12:20:00	Water	20	20	1	<2
248108001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248117001	01-MAR-2010 12:20:00	Water	20	20	1	<2
248145001	01-MAR-2010 12:20:00	Water	20	20	1	<2
1202056575 DUP (248145001)	01-MAR-2010 12:20:00	Water	20	20	1	<2
1202056576 MS (248145001)	01-MAR-2010 12:20:00	Water	20	20	1	<2
1202056577 SDIL T (248145001)	01-MAR-2010 12:20:00	Water	20	20	1	<2

Reagent/Solvent Lot ID	Description	Amount	Comments:
1176183	Sulfuric Acid, Concentrated	1 mL	Digestion Start Date: 01-MAR-10 12:20
1255532-C	Hg reducing agent	1 mL	Digestion End Date: 01-MAR-10 14:20
1274391-1	NITRIC ACID	.5 mL	

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GEL Laboratories LLC

Prep Logbook

Acid Digestion of Total Recoverable or Dissolved Metals in Surface and Groundwater Samples for Analysis by ICP or ICP-MS

Batch ID: 959088.0
Analyst: Louis Hall
Method: SW846 3005A
Lab SOP: GL-MA-E-006 REV# 9
Instrument: Metals Manual Instrument

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056809	Metals Spike Mix I	U1100205-01	.25	mL
LCS	1202056809	Metals Spike Mix II	U1100205-06	.25	mL
MS	1202056811	Metals Spike Mix I	U1100205-01	.25	mL
MS	1202056811	Metals Spike Mix II	U1100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202056808 MB	04-MAR-2010 09:20:00	Water	50	50	1	<2
1202056809 LCS	04-MAR-2010 09:20:00	Water	50	50	1	<2
247997001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248001001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248010001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248010002	04-MAR-2010 09:20:00	Water	50	50	1	<2
248032001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248034001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248039001	04-MAR-2010 09:20:00	Water	50	50	1	<2
248046001	04-MAR-2010 09:20:00	Water	50	50	1	<2
1202056810 DUP (248046001)	04-MAR-2010 09:20:00	Water	50	50	1	<2
1202056811 MS (248046001)	04-MAR-2010 09:20:00	Water	50	50	1	<2
1202056812 SDILT (248046001)	04-MAR-2010 09:20:00	Water	50	50	1	<2
248046002	04-MAR-2010 09:20:00	Water	50	50	1	<2

Comments:

Reagent/Solvent Lot ID	Description	Amount
1277916	HYDROCHLORIC ACID	2.5 mL
1277919	Nitric Acid CONC.	1 mL

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Standard Logbook

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Standard Logbook

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	4 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRONMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Standard Logbook

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100205-A **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI100205-B **Opened:** 05-FEB-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 05-FEB-10 **Lot Number :** 1018516
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 12-MAR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 19-MAR-11 **Lot Number :** 1019141
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: O2SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: O2SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-MAR-10 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019163
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100318-11 **Opened:** 18-MAR-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 18-MAR-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 15-APR-10 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Standard Logbook

Serial ID: UI100325-40 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100325-41 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100405-12 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 05-APR-10 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019466
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI100405-13 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 05-APR-10 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019467
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: O2SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI100405-60 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Standard Logbook

Serial ID: UI100405-61 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100301-01 **Opened:** 01-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 01-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 02-MAR-10 **Solvent :** 1mL HNO3 + TypeI H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100301-02 **Opened:** 01-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 02-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100301-01a **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.2/CRA
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100301-02 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100301-03 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100301-04 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100301-05 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 10.0
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100301-06 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100301-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100301-13 **Opened:** 01-MAR-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 01-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 08-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury working intermediate standard for LCS/MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100326-42 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expres:** 27-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100326-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100326-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100326-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100326-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100326-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100326-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100326-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100326-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100326-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100326-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100326-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100326-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100326-43 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 27-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100326-44 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 27-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1289705
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100326-45 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 27-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1289705
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100326-46 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 27-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1289705
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100326-47 **Opened:** 26-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 27-MAR-10 **Solvent :** 3%HCL & 1%HNO3-1289705
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100411-04 **Opened:** 11-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 11-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 12-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1296562
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100411-04A **Opened:** 11-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 11-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100411-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100411-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100411-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100411-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100411-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100411-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100411-05

Name: ICPMS ICV

Type: Working

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS ICV

Comments: None

Opened: 11-APR-10

Received: 11-APR-10

Expires: 12-APR-10

Balance Id : 40245216

Pipet Id : 3541598

Solvent : 2%HNO3/1%HCl - 1296562

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100411-06 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 11-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100411-07 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 11-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 12-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1296562
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100411-08 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 11-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L

Serial ID: WMS100411-70 **Opened:** 11-APR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 11-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 12-APR-10 **Solvent :** 2%HNO3/1%HCl - 1296562
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100405-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100413-04 Opened: 13-APR-10 Amount : 50 mL
 Name: ICPMS Cal Standard 100 Received: 13-APR-10 Balance Id : 4025216
 Type: Working Expires: 14-APR-10 Pipet Id : 3541598
 Employee: Paul Boyd Solvent : 2%HNO3/1%HCl-1300209
 Supplier: GEL
 Description: ICPMS Calibration Standard (100 ppb)
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100413-04A **Opened:** 13-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 13-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 14-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100413-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100413-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100413-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100413-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100413-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100413-05 **Opened:** 13-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 13-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 14-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100413-06

Name: ICPMS CRDL

Type: Working

Employee: Paul Boyd

Supplier: GEL

Description: ICPMS CRDL

Comments: None

Opened: 13-APR-10

Received: 13-APR-10

Expires: 14-APR-10

Balance Id : 40245216

Pipet Id : 3820544

Solvent : 2%HNO3/1%HCl - 1300209

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100413-07 **Opened:** 13-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 13-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 14-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1300209
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100413-08 **Opened:** 13-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 13-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 14-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100318-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100318-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100318-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100318-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 1176183 **Opened:** 24-AUG-09 **Lot Number :** H20001
Name: B-H2SO4-MER **Received:** 24-AUG-09
Type: Reagent/Solvent **Expires:** 24-AUG-10
Employee: Tara Griffin
Supplier: Mallinckrodt
Description: Sulfuric Acid, Concentrated
Comments: None

Serial ID: 1215906 **Opened:** 06-NOV-09 **Lot Number :** H44465
Name: B-K2S2O8S-MER **Received:** 06-NOV-09
Type: Reagent/Solvent **Expires:** 06-NOV-10
Employee: Tara Griffin
Supplier: J.T BAKER
Description: Potassium Persulfate Concentrate.
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1274397-C **Opened:** 24-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1274969 **Opened:** 24-FEB-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1274973 **Opened:** 24-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 24-FEB-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1276435-C **Opened:** 28-FEB-10 **Balance Id :** BAL-002
Name: B-K2S2O8-MER **Received:** 28-FEB-10
Type: Reagent/Solvent **Expires:** 28-AUG-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% Potassium Persulfate
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1277916 Opened: 02-MAR-10 Lot Number : J02039
 Name: I-HCL Received: 02-MAR-10 Preservative_Id : 5 none
 Type: Reagent/Solvent Expires: 02-MAR-11
 Employee: Francena Armstrong
 Supplier: J.T. BAKER
 Description: HYDROCHLORIC ACID
 Comments: None

Serial ID: 1277919 Opened: 02-MAR-10 Lot Number : J 04043 L
 Name: I-HNO3 Received: 02-MAR-10
 Type: Reagent/Solvent Expires: 02-MAR-11
 Employee: Francena Armstrong
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1289705 Opened: 22-MAR-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 12-MAR-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 28-MAR-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

Serial ID: 1291278 Opened: 25-MAR-10 Lot Number : J 08035 L
 Name: I-HNO3 Received: 25-MAR-10
 Type: Reagent/Solvent Expires: 25-MAR-11
 Employee: Anthony Green
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1296562 Opened: 05-APR-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCL-ICPMS Received: 05-APR-10
 Type: Reagent/Solvent Expires: 12-APR-10
 Employee: Paul Boyd
 Supplier: GEL
 Description: 2%HNO3/1%HCL Solution (Type I Water)
 Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A
1291278	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Serial ID: 1300209 Opened: 12-APR-10 Solvent : Type I Water

Name: B-2%HNO3/1%HCl-ICPMS Received: 12-APR-10

Type: Reagent/Solvent Expires: 19-APR-10

Employee: Paul Boyd

Supplier: GEL

Description: 2%HNO3/1%HCl Solution (Type I Water)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A
1291278	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2025-1**

Sample Analysis

Sample ID	Client ID
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463
1202056818	Method Blank (MB) ICP
1202056823	Laboratory Control Sample (LCS)
1202056820	248000001(RE36-10-8489L) Serial Dilution (SD)
1202056819	248000001(RE36-10-8489D) Sample Duplicate (DUP)
1202056821	248000001(RE36-10-8489S) Matrix Spike (MS)
1202056822	248000001(RE36-10-8489SD) Matrix Spike Duplicate (MSD)
1202056824	Method Blank (MB) ICP-MS
1202056829	Laboratory Control Sample (LCS)
1202056826	248000001(RE36-10-8489L) Serial Dilution (SD)
1202056825	248000001(RE36-10-8489D) Sample Duplicate (DUP)
1202056827	248000001(RE36-10-8489S) Matrix Spike (MS)
1202056828	248000001(RE36-10-8489SD) Matrix Spike Duplicate (MSD)
1202056127	Method Blank (MB) CVAA
1202056128	Laboratory Control Sample (LCS)
1202056131	247918001(RE46-10-13339L) Serial Dilution (SD)

1202056129	247918001(RE46-10-13339D) Sample Duplicate (DUP)
1202056130	247918001(RE46-10-13339S) Matrix Spike (MS)
1202056132	247918001(RE46-10-13339SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Method/Analysis Information

Analytical Batch:	959093, 959095 and 958731
Prep Batch :	959092, 959094 and 958730
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

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

System Configuration

The Metals analysis-ICP was performed on a P E 7300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Metals analysis-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction

through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standards met the advisory control limits with the exceptions of mercury and uranium, which recovered outside of the advisory limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verifications (CCV) bracketing this SDG met the acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The laboratory control sample (LCS) met the recommended acceptance criteria for percent recovery (%R) for all elements of interest, with the exception of antimony. Silver and/or antimony did not meet the recovery acceptance criteria for the LCS. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 248000001 (RE36-10-8489) and 247918001 (RE46-10-13339).

Matrix Spike (MS) Recovery Statement

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

Matrix Spike Duplicate (MSD) Recovery Statement

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

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is 5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the contract required detection limit (RL), a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements with the exceptions of barium, calcium, chromium, iron, lead, magnesium, manganese, vanadium and zinc, as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional

packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 814409 and 820611. A copy of each DER is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Kristen Panson Date: 4/24/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000001

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8489

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 95.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1560000	ug/Kg	N	6800	20000	20000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-36-0	Antimony	1000	ug/Kg	U	330	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-38-2	Arsenic	0.328	mg/kg	J	0.206	1.03	1.03	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-39-3	Barium	18400	ug/Kg	*	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-41-7	Beryllium	0.346	mg/kg		0.0206	0.103	0.103	2	MS	PRB	04/21/10 21:43	100421-2	959095
7440-43-9	Cadmium	500	ug/Kg	U	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-70-2	Calcium	389000	ug/Kg	*	8000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-47-3	Chromium	1410	ug/Kg	*	150	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-48-4	Cobalt	822	ug/Kg		150	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-50-8	Copper	1320	ug/Kg		300	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-89-6	Iron	7140000	ug/Kg	*	8000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-92-1	Lead	3560	ug/Kg	*	250	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-95-4	Magnesium	210000	ug/Kg	*	8500	30000	30000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-96-5	Manganese	396000	ug/Kg	*	200	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7439-97-6	Mercury	11.7	ug/kg	U	3.97	11.7	11.7	1	AV	JXL1	03/09/10 15:06	030910S1-7	958731
7440-02-0	Nickel	0.512	mg/kg		0.103	0.412	0.412	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-09-7	Potassium	553000	ug/Kg	N	6400	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7782-49-2	Selenium	0.557	mg/kg	JN	0.515	1.03	1.03	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-22-4	Silver	500	ug/Kg	U	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-23-5	Sodium	518000	ug/Kg	N	7000	25000	25000	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-28-0	Thallium	0.206	mg/kg	U	0.0618	0.206	0.206	2	MS	PRB	04/22/10 22:50	100422-3	959095
7440-61-1	Uranium	0.646	mg/kg		0.0136	0.0412	0.0412	2	MS	PRB	04/23/10 09:57	100422-6	959095
7440-62-2	Vanadium	2960	ug/Kg	*	100	500	500	1	P	HSC	04/01/10 06:37	033110B-1	959093
7440-66-6	Zinc	55000	ug/Kg	*N	330	1000	1000	1	P	HSC	04/01/10 06:37	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.54	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.525	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.51	g	50	mL	03/02/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000002

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8486

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 96.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1200000	ug/Kg	N	6510	19100	19100	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-36-0	Antimony	957	ug/Kg	U	316	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-38-2	Arsenic	0.333	mg/kg	J	0.198	0.99	0.99	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-39-3	Barium	11600	ug/Kg	*	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-41-7	Beryllium	0.268	mg/kg		0.0198	0.099	0.099	2	MS	PRB	04/21/10 21:54	100421-2	959095
7440-43-9	Cadmium	478	ug/Kg	U	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-70-2	Calcium	328000	ug/Kg	*	7650	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-47-3	Chromium	14500	ug/Kg	*	144	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-48-4	Cobalt	668	ug/Kg		144	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-50-8	Copper	1050	ug/Kg		287	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-89-6	Iron	5950000	ug/Kg	*	7650	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-92-1	Lead	3010	ug/Kg	*	239	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-95-4	Magnesium	132000	ug/Kg	*	8130	28700	28700	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-96-5	Manganese	271000	ug/Kg	*	191	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093
7439-97-6	Mercury	11.2	ug/kg	U	3.81	11.2	11.2	1	AV	JXL1	03/09/10 15:08	030910S1-7	958731
7440-02-0	Nickel	0.569	mg/kg		0.099	0.396	0.396	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-09-7	Potassium	586000	ug/Kg	N	6120	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7782-49-2	Selenium	0.990	mg/kg	UN	0.495	0.99	0.99	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-22-4	Silver	478	ug/Kg	U	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-23-5	Sodium	555000	ug/Kg	N	6700	23900	23900	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-28-0	Thallium	0.198	mg/kg	U	0.0594	0.198	0.198	2	MS	PRB	04/22/10 23:06	100422-3	959095
7440-61-1	Uranium	0.716	mg/kg		0.0131	0.0396	0.0396	2	MS	PRB	04/23/10 10:10	100422-6	959095
7440-62-2	Vanadium	1780	ug/Kg	*	95.7	478	478	1	P	HSC	04/01/10 06:45	033110B-1	959093
7440-66-6	Zinc	44400	ug/Kg	*N	316	957	957	1	P	HSC	04/01/10 06:45	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.555	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.541	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.523	g	50	mL	03/02/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000003

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8487

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 94.6

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1610000	ug/Kg	N	6870	20200	20200	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-36-0	Antimony	1010	ug/Kg	U	334	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-38-2	Arsenic	0.448	mg/kg	J	0.202	1.01	1.01	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-39-3	Barium	12800	ug/Kg	*	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-41-7	Beryllium	0.437	mg/kg		0.0202	0.101	0.101	2	MS	PRB	04/21/10 21:56	100421-2	959095
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-70-2	Calcium	349000	ug/Kg	*	8090	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-47-3	Chromium	1550	ug/Kg	*	152	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-48-4	Cobalt	644	ug/Kg		152	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-50-8	Copper	1110	ug/Kg		303	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-89-6	Iron	5720000	ug/Kg	*	8090	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-92-1	Lead	2750	ug/Kg	*	253	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-95-4	Magnesium	181000	ug/Kg	*	8590	30300	30300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-96-5	Manganese	250000	ug/Kg	*	202	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093
7439-97-6	Mercury	12.7	ug/kg	U	4.3	12.7	12.7	1	AV	JXL1	03/09/10 15:10	030910S1-7	958731
7440-02-0	Nickel	0.783	mg/kg		0.101	0.403	0.403	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-09-7	Potassium	516000	ug/Kg	N	6470	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7782-49-2	Selenium	1.01	mg/kg	UN	0.504	1.01	1.01	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-22-4	Silver	505	ug/Kg	U	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-23-5	Sodium	441000	ug/Kg	N	7070	25300	25300	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-28-0	Thallium	0.202	mg/kg	U	0.0605	0.202	0.202	2	MS	PRB	04/22/10 23:09	100422-3	959095
7440-61-1	Uranium	0.676	mg/kg		0.0133	0.0403	0.0403	2	MS	PRB	04/23/10 10:12	100422-6	959095
7440-62-2	Vanadium	2120	ug/Kg	*	101	505	505	1	P	HSC	04/01/10 06:48	033110B-1	959093
7440-66-6	Zinc	42800	ug/Kg	*N	334	1010	1010	1	P	HSC	04/01/10 06:48	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.501	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.523	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.524	g	50	mL	03/02/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000004

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8462

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 98.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1510000	ug/Kg	N	6420	18900	18900	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-36-0	Antimony	944	ug/Kg	U	311	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-38-2	Arsenic	0.321	mg/kg	J	0.201	1	1	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-39-3	Barium	14400	ug/Kg	*	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-41-7	Beryllium	0.406	mg/kg		0.0201	0.1	0.1	2	MS	PRB	04/21/10 22:02	100421-2	959095
7440-43-9	Cadmium	472	ug/Kg	U	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-70-2	Calcium	509000	ug/Kg	*	7550	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-47-3	Chromium	3630	ug/Kg	*	142	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-48-4	Cobalt	625	ug/Kg		142	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-50-8	Copper	1250	ug/Kg		283	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-89-6	Iron	5670000	ug/Kg	*	7550	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-92-1	Lead	2880	ug/Kg	*	236	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-95-4	Magnesium	167000	ug/Kg	*	8020	28300	28300	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-96-5	Manganese	259000	ug/Kg	*	189	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093
7439-97-6	Mercury	11.6	ug/kg	U	3.94	11.6	11.6	1	AV	JXL1	03/09/10 15:12	030910S1-7	958731
7440-02-0	Nickel	1.06	mg/kg		0.1	0.401	0.401	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-09-7	Potassium	488000	ug/Kg	N	6040	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7782-49-2	Selenium	1	mg/kg	UN	0.502	1	1	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-22-4	Silver	472	ug/Kg	U	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-23-5	Sodium	390000	ug/Kg	N	6610	23600	23600	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-28-0	Thallium	0.201	mg/kg	U	0.0602	0.201	0.201	2	MS	PRB	04/22/10 23:19	100422-3	959095
7440-61-1	Uranium	0.908	mg/kg		0.0132	0.0401	0.0401	2	MS	PRB	04/23/10 10:18	100422-6	959095
7440-62-2	Vanadium	2070	ug/Kg	*	94.4	472	472	1	P	HSC	04/01/10 06:55	033110B-1	959093
7440-66-6	Zinc	42300	ug/Kg	*N	311	944	944	1	P	HSC	04/01/10 06:55	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.526	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.538	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.506	g	50	mL	03/02/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2025-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248000005

BASIS: Dry Weight

DATE COLLECTED 19-FEB-10

CLIENT ID: RE36-10-8463

LEVEL: Low

DATE RECEIVED 25-FEB-10

MATRIX: SOIL

%SOLIDS: 97.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3170000	ug/Kg	N	6890	20300	20300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-36-0	Antimony	1010	ug/Kg	U	335	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-38-2	Arsenic	0.323	mg/kg	J	0.186	0.93	0.93	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-39-3	Barium	28200	ug/Kg	*	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-41-7	Beryllium	0.591	mg/kg		0.0186	0.093	0.093	2	MS	PRB	04/21/10 22:04	100421-2	959095
7440-43-9	Cadmium	507	ug/Kg	U	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-70-2	Calcium	525000	ug/Kg	*	8110	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-47-3	Chromium	6600	ug/Kg	*	152	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-48-4	Cobalt	810	ug/Kg		152	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-50-8	Copper	1550	ug/Kg		304	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-89-6	Iron	6380000	ug/Kg	*	8110	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-92-1	Lead	3180	ug/Kg	*	253	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-95-4	Magnesium	308000	ug/Kg	*	8620	30400	30400	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-96-5	Manganese	251000	ug/Kg	*	203	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093
7439-97-6	Mercury	10.7	ug/kg	U	3.63	10.7	10.7	1	AV	JXL1	03/09/10 15:14	030910S1-7	958731
7440-02-0	Nickel	2.06	mg/kg		0.093	0.372	0.372	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-09-7	Potassium	435000	ug/Kg	N	6490	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7782-49-2	Selenium	0.930	mg/kg	UN	0.465	0.93	0.93	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-22-4	Silver	507	ug/Kg	U	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-23-5	Sodium	293000	ug/Kg	N	7100	25300	25300	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-28-0	Thallium	0.186	mg/kg	U	0.0558	0.186	0.186	2	MS	PRB	04/22/10 23:22	100422-3	959095
7440-61-1	Uranium	0.676	mg/kg		0.0123	0.0372	0.0372	2	MS	PRB	04/23/10 10:20	100422-6	959095
7440-62-2	Vanadium	2940	ug/Kg	*	101	507	507	1	P	HSC	04/01/10 06:57	033110B-1	959093
7440-66-6	Zinc	43200	ug/Kg	*N	335	1010	1010	1	P	HSC	04/01/10 06:57	033110B-1	959093

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
958731	958730	SW846 7471A Prep	0.578	g	30	mL	03/09/10	LXH2
959093	959092	SW846 3050B	0.507	g	50	mL	03/02/10	FGA
959095	959094	SW846 3050B	0.553	g	50	mL	03/02/10	AXG2

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.15	ug/L	5	ug/L	103	90.0 – 110.0	AV	09-MAR-10 13:20	030910S1-7
	Aluminum	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Barium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Cadmium	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Chromium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Cobalt	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Copper	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Lead	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Magnesium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Manganese	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Potassium	2520	ug/L	2500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Silver	258	ug/L	250	ug/L	103.3	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Sodium	2510	ug/L	2500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 18:47	033110B-1
	Beryllium	51.1	ug/L	50	ug/L	102.2	90.0 – 110.0	MS	21-APR-10 20:41	100421-2
	Arsenic	53.7	ug/L	50	ug/L	107.4	90.0 – 110.0	MS	22-APR-10 22:21	100422-3
	Nickel	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	22-APR-10 22:21	100422-3
	Selenium	54.5	ug/L	50	ug/L	109	90.0 – 110.0	MS	22-APR-10 22:21	100422-3
	Thallium	50.8	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	22-APR-10 22:21	100422-3
	Uranium	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	23-APR-10 09:17	100422-6
CCV01										
	Mercury	5.16	ug/L	5	ug/L	103.2	80.0 – 120.0	AV	09-MAR-10 13:26	030910S1-7
	Aluminum	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Barium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Cadmium	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3.MER536.OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Chromium	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Cobalt	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Copper	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Iron	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Lead	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Manganese	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Potassium	5700	ug/L	5000	ug/L	113.9	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Vanadium	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Zinc	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 18:59	033110B-1
	Beryllium	53	ug/L	50	ug/L	106	90.0 – 110.0	MS	21-APR-10 20:51	100421-2
	Arsenic	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	22-APR-10 22:37	100422-3
	Nickel	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	22-APR-10 22:37	100422-3
	Selenium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	22-APR-10 22:37	100422-3
	Thallium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	22-APR-10 22:37	100422-3
	Uranium	45.5	ug/L	50	ug/L	91	90.0 – 110.0	MS	23-APR-10 09:27	100422-6
CCV02	Mercury	5.06	ug/L	5	ug/L	101.2	80.0 – 120.0	AV	09-MAR-10 13:50	030910S1-7
	Aluminum	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Antimony	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Barium	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Cadmium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Calcium	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Chromium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Cobalt	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Iron	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Manganese	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Silver	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Sodium	9880	ug/L	10000	ug/L	98.8	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Vanadium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Zinc	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:06	033110B-1
	Beryllium	52.3	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	21-APR-10 21:16	100421-2
	Arsenic	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	22-APR-10 23:12	100422-3
	Nickel	52.9	ug/L	50	ug/L	105.8	90.0 – 110.0	MS	22-APR-10 23:12	100422-3
	Selenium	49.1	ug/L	50	ug/L	98.2	90.0 – 110.0	MS	22-APR-10 23:12	100422-3
	Thallium	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	22-APR-10 23:12	100422-3
	Uranium	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	23-APR-10 09:47	100422-6
CCV03										
	Mercury	5.07	ug/L	5	ug/L	101.4	80.0 – 120.0	AV	09-MAR-10 14:14	030910S1-7
	Aluminum	4980	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Antimony	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Barium	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Cadmium	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Chromium	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Cobalt	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Copper	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Iron	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Lead	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Magnesium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Manganese	495	ug/L	500	ug/L	99	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Potassium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Silver	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Sodium	9810	ug/L	10000	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Vanadium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Zinc	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:27	033110B-1
	Beryllium	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	21-APR-10 21:35	100421-2
	Arsenic	52.4	ug/L	50	ug/L	104.8	90.0 – 110.0	MS	22-APR-10 23:52	100422-3
	Nickel	53.4	ug/L	50	ug/L	106.8	90.0 – 110.0	MS	22-APR-10 23:52	100422-3
	Selenium	48.9	ug/L	50	ug/L	97.7	90.0 – 110.0	MS	22-APR-10 23:52	100422-3
	Thallium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	22-APR-10 23:52	100422-3
	Uranium	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	23-APR-10 10:14	100422-6
CCV04										
	Mercury	5.07	ug/L	5	ug/L	101.5	80.0 – 120.0	AV	09-MAR-10 14:38	030910S1-7
	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Antimony	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Barium	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Cadmium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Chromium	485	ug/L	500	ug/L	97	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Cobalt	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Copper	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Iron	4880	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Magnesium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Manganese	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Potassium	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Silver	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Sodium	9730	ug/L	10000	ug/L	97.3	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Vanadium	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Zinc	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 19:48	033110B-1
	Beryllium	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	21-APR-10 21:58	100421-2
	Uranium	53.5	ug/L	50	ug/L	106.9	90.0 – 110.0	MS	23-APR-10 10:39	100422-6

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV05										
	Mercury	5.09	ug/L	5	ug/L	101.8	80.0 – 120.0	AV	09-MAR-10 15:02	030910S1-7
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Antimony	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Barium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Cadmium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Calcium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Chromium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Cobalt	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Copper	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Iron	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Lead	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Magnesium	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Manganese	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Silver	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Sodium	9760	ug/L	10000	ug/L	97.6	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Vanadium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Zinc	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 20:18	033110B-1
	Beryllium	51.4	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	21-APR-10 22:23	100421-2
CCV06										
	Mercury	5.31	ug/L	5	ug/L	106.3	80.0 – 120.0	AV	09-MAR-10 15:26	030910S1-7
	Aluminum	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Antimony	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Barium	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Cadmium	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Calcium	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Chromium	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Cobalt	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Copper	483	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1
	Iron	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	31-MAR-10 20:46	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Potassium	4860	ug/L	5000	ug/L	97.1	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Sodium	9750	ug/L	10000	ug/L	97.5	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
	Zinc	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	31-MAR-10 20:46	033110B-1
CCV07	Aluminum	4960	ug/L	5000	ug/L	99.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Antimony	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Barium	485	ug/L	500	ug/L	97	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Cadmium	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Calcium	4910	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Chromium	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Cobalt	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Copper	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Iron	4860	ug/L	5000	ug/L	97.1	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Potassium	4890	ug/L	5000	ug/L	97.9	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Silver	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Sodium	9770	ug/L	10000	ug/L	97.7	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Vanadium	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
	Zinc	480	ug/L	500	ug/L	96	90.0 - 110.0	P	31-MAR-10 21:16	033110B-1
CCV08	Aluminum	4980	ug/L	5000	ug/L	99.6	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Antimony	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1
	Barium	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	31-MAR-10 21:39	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	485	ug/L	500	ug/L	97.1	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Cobalt	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Copper	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Iron	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Lead	490	ug/L	500	ug/L	98	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Manganese	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Potassium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Sodium	9710	ug/L	10000	ug/L	97.1	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Vanadium	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
	Zinc	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 21:39	033110B-1
CCV09	Aluminum	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Antimony	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Barium	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Cadmium	479	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Calcium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Chromium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Iron	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Lead	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Magnesium	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Manganese	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Silver	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV10	Vanadium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Zinc	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 21:55	033110B-1
	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Calcium	4860	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Chromium	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Copper	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Manganese	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Silver	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Sodium	9610	ug/L	10000	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Vanadium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
	Zinc	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 22:12	033110B-1
CCV11	Aluminum	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Antimony	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Calcium	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Chromium	474	ug/L	500	ug/L	94.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Iron	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Magnesium	4890	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Manganese	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Potassium	4800	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Sodium	9560	ug/L	10000	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
	Zinc	472	ug/L	500	ug/L	94.5	90.0 – 110.0	P	31-MAR-10 22:35	033110B-1
CCV12	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Barium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Cadmium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Chromium	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Cobalt	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Copper	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Lead	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Manganese	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Sodium	9590	ug/L	10000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Vanadium	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
	Zinc	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 22:56	033110B-1
CCV13	Aluminum	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Antimony	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Calcium	4850	ug/L	5000	ug/L	97	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Chromium	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Lead	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Manganese	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Potassium	4800	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Silver	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Sodium	9620	ug/L	10000	ug/L	96.2	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
	Zinc	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	31-MAR-10 23:18	033110B-1
CCV14	Aluminum	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Barium	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Cadmium	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Chromium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Copper	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Lead	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Magnesium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Manganese	482	ug/L	500	ug/L	96.5	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Potassium	4790	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Silver	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1
	Sodium	9600	ug/L	10000	ug/L	96	90.0 – 110.0	P	31-MAR-10 23:44	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV15	Vanadium	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	31-MAR-10 23:44	033110B-1
	Zinc	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	31-MAR-10 23:44	033110B-1
	Aluminum	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Barium	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Cadmium	475	ug/L	500	ug/L	95.1	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.3	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Cobalt	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Iron	4800	ug/L	5000	ug/L	96	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Lead	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.7	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Manganese	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Potassium	4820	ug/L	5000	ug/L	96.4	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Sodium	9580	ug/L	10000	ug/L	95.8	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Vanadium	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	01-APR-10 00:02	033110B-1
CCV16	Aluminum	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Antimony	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Barium	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Chromium	476	ug/L	500	ug/L	95.1	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Copper	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 - 110.0	P	01-APR-10 00:18	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Manganese	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Potassium	4830	ug/L	5000	ug/L	96.5	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Silver	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
	Zinc	474	ug/L	500	ug/L	94.9	90.0 - 110.0	P	01-APR-10 00:18	033110B-1
CCV17	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Antimony	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Barium	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Calcium	4830	ug/L	5000	ug/L	96.6	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Copper	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Lead	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Manganese	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Potassium	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Silver	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Sodium	9630	ug/L	10000	ug/L	96.3	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Vanadium	480	ug/L	500	ug/L	96.1	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
	Zinc	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 00:42	033110B-1
CCV18	Aluminum	4960	ug/L	5000	ug/L	99.2	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Antimony	475	ug/L	500	ug/L	95.1	90.0 - 110.0	P	01-APR-10 01:06	033110B-1
	Barium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 01:06	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Chromium	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Cobalt	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Iron	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Lead	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Manganese	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Potassium	5110	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Silver	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
	Zinc	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 01:06	033110B-1
CCV19	Aluminum	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Antimony	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Cadmium	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Calcium	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Chromium	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Iron	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Magnesium	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Manganese	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Potassium	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Sodium	9650	ug/L	10000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 01:30	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV20	Vanadium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Zinc	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 01:30	033110B-1
	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Antimony	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Barium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Cadmium	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Chromium	475	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Lead	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Manganese	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Silver	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Sodium	9700	ug/L	10000	ug/L	97	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
	Zinc	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 01:53	033110B-1
CCV21	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Antimony	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Barium	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Cadmium	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Chromium	473	ug/L	500	ug/L	94.5	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 – 110.0	P	01-APR-10 02:19	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.6	90.0 – 110.0	P	01-APR-10 02:19	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV22	Lead	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.4	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Manganese	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Potassium	4970	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Silver	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
	Zinc	471	ug/L	500	ug/L	94.2	90.0 - 110.0	P	01-APR-10 02:19	033110B-1
CCV22	Aluminum	4900	ug/L	5000	ug/L	98	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Antimony	475	ug/L	500	ug/L	95	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Barium	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Cadmium	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Calcium	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Chromium	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Cobalt	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.5	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Lead	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Magnesium	4870	ug/L	5000	ug/L	97.5	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Manganese	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Potassium	5100	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Silver	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Sodium	11600	ug/L	10000	ug/L	115.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
	Zinc	470	ug/L	500	ug/L	94.1	90.0 - 110.0	P	01-APR-10 02:47	033110B-1
CCV23	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Antimony	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 03:13	033110B-1
	Barium	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	01-APR-10 03:13	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	474	ug/L	500	ug/L	94.9	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.8	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Chromium	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Iron	4780	ug/L	5000	ug/L	95.6	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Lead	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Magnesium	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Potassium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Silver	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Sodium	10300	ug/L	10000	ug/L	102.8	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
	Zinc	472	ug/L	500	ug/L	94.4	90.0 – 110.0	P	01-APR-10 03:13	033110B-1
CCV24	Aluminum	4900	ug/L	5000	ug/L	98.1	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Antimony	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Barium	477	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Cadmium	475	ug/L	500	ug/L	95	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Cobalt	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Copper	475	ug/L	500	ug/L	95	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Iron	4790	ug/L	5000	ug/L	95.8	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Lead	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.6	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Potassium	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Sodium	9880	ug/L	10000	ug/L	98.8	90.0 – 110.0	P	01-APR-10 04:39	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV25	Vanadium	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 04:39	033110B-1
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Antimony	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Barium	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Copper	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Iron	4800	ug/L	5000	ug/L	96	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Lead	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Magnesium	4920	ug/L	5000	ug/L	98.4	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Manganese	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Potassium	4880	ug/L	5000	ug/L	97.6	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Sodium	9800	ug/L	10000	ug/L	98	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Vanadium	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 05:03	033110B-1
CCV26	Aluminum	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Antimony	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Barium	477	ug/L	500	ug/L	95.5	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.1	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Calcium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Chromium	474	ug/L	500	ug/L	94.7	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 – 110.0	P	01-APR-10 05:25	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	01-APR-10 05:25	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	478	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Magnesium	4880	ug/L	5000	ug/L	97.6	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Manganese	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Potassium	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Silver	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Sodium	9780	ug/L	10000	ug/L	97.8	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	01-APR-10 05:25	033110B-1
CCV27	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Antimony	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Barium	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Cadmium	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Calcium	4810	ug/L	5000	ug/L	96.3	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Chromium	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Cobalt	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Copper	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Iron	4800	ug/L	5000	ug/L	96.1	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Lead	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Magnesium	4870	ug/L	5000	ug/L	97.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Potassium	4950	ug/L	5000	ug/L	98.9	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Silver	477	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Sodium	9740	ug/L	10000	ug/L	97.4	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Vanadium	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
	Zinc	473	ug/L	500	ug/L	94.6	90.0 - 110.0	P	01-APR-10 05:48	033110B-1
CCV28	Aluminum	4960	ug/L	5000	ug/L	99.1	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Antimony	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Barium	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	01-APR-10 06:04	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	477	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Calcium	4840	ug/L	5000	ug/L	96.7	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Chromium	475	ug/L	500	ug/L	94.9	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Cobalt	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Copper	476	ug/L	500	ug/L	95.2	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Iron	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Lead	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Magnesium	4930	ug/L	5000	ug/L	98.5	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Manganese	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Potassium	4950	ug/L	5000	ug/L	99	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Silver	476	ug/L	500	ug/L	95.3	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Sodium	9740	ug/L	10000	ug/L	97.4	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Vanadium	480	ug/L	500	ug/L	96	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
	Zinc	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	01-APR-10 06:04	033110B-1
CCV29	Aluminum	4810	ug/L	5000	ug/L	96.3	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Antimony	466	ug/L	500	ug/L	93.3	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Barium	467	ug/L	500	ug/L	93.4	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Cadmium	463	ug/L	500	ug/L	92.7	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Calcium	4700	ug/L	5000	ug/L	94.1	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Chromium	463	ug/L	500	ug/L	92.6	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Cobalt	468	ug/L	500	ug/L	93.6	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Copper	467	ug/L	500	ug/L	93.5	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Iron	4690	ug/L	5000	ug/L	93.7	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Lead	470	ug/L	500	ug/L	94	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Magnesium	4780	ug/L	5000	ug/L	95.5	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Manganese	469	ug/L	500	ug/L	93.8	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Potassium	4760	ug/L	5000	ug/L	95.3	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Silver	466	ug/L	500	ug/L	93.1	90.0 - 110.0	P	01-APR-10 06:27	033110B-1
	Sodium	9490	ug/L	10000	ug/L	94.9	90.0 - 110.0	P	01-APR-10 06:27	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Vanadium	470	ug/L	500	ug/L	94	90.0 – 110.0	P	01-APR-10 06:27	033110B-1
	Zinc	461	ug/L	500	ug/L	92.2	90.0 – 110.0	P	01-APR-10 06:27	033110B-1
CCV30										
	Aluminum	4860	ug/L	5000	ug/L	97.2	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Antimony	460	ug/L	500	ug/L	92.1	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Barium	468	ug/L	500	ug/L	93.6	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Cadmium	465	ug/L	500	ug/L	93	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Calcium	4730	ug/L	5000	ug/L	94.5	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Chromium	464	ug/L	500	ug/L	92.8	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Cobalt	470	ug/L	500	ug/L	94	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Copper	468	ug/L	500	ug/L	93.5	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Iron	4730	ug/L	5000	ug/L	94.5	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Lead	466	ug/L	500	ug/L	93.2	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Magnesium	4820	ug/L	5000	ug/L	96.3	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Manganese	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Potassium	4830	ug/L	5000	ug/L	96.5	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Silver	466	ug/L	500	ug/L	93.3	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Sodium	9560	ug/L	10000	ug/L	95.6	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Vanadium	471	ug/L	500	ug/L	94.2	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
	Zinc	461	ug/L	500	ug/L	92.3	90.0 – 110.0	P	01-APR-10 06:50	033110B-1
CCV31										
	Aluminum	4870	ug/L	5000	ug/L	97.3	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Antimony	458	ug/L	500	ug/L	91.6	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Barium	466	ug/L	500	ug/L	93.2	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Cadmium	462	ug/L	500	ug/L	92.4	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Calcium	4690	ug/L	5000	ug/L	93.9	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Chromium	462	ug/L	500	ug/L	92.4	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Cobalt	466	ug/L	500	ug/L	93.3	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Copper	466	ug/L	500	ug/L	93.2	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Iron	4710	ug/L	5000	ug/L	94.2	90.0 – 110.0	P	01-APR-10 07:15	033110B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	465	ug/L	500	ug/L	93	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Magnesium	4770	ug/L	5000	ug/L	95.4	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Manganese	468	ug/L	500	ug/L	93.7	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Potassium	4840	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Silver	464	ug/L	500	ug/L	92.9	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Sodium	9480	ug/L	10000	ug/L	94.8	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Vanadium	469	ug/L	500	ug/L	93.9	90.0 – 110.0	P	01-APR-10 07:15	033110B-1
	Zinc	459	ug/L	500	ug/L	91.7	90.0 – 110.0	P	01-APR-10 07:15	033110B-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS3,MER536,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.114	ug/L	.2	ug/L	57	70.0 - 130.0	AV	09-MAR-10 13:24	030910S1-7
	Beryllium	.524	ug/L	.5	ug/L	104.8	70.0 - 130.0	MS	21-APR-10 20:45	100421-2
	Nickel	2.32	ug/L	2	ug/L	115.8	70.0 - 130.0	MS	22-APR-10 22:27	100422-3
	Arsenic	5.51	ug/L	5	ug/L	110.1	70.0 - 130.0	MS	22-APR-10 22:27	100422-3
	Selenium	5.55	ug/L	5	ug/L	111	70.0 - 130.0	MS	22-APR-10 22:27	100422-3
	Thallium	1.21	ug/L	1	ug/L	120.6	70.0 - 130.0	MS	22-APR-10 22:27	100422-3
	Uranium	.339	ug/L	.2	ug/L	169.5	70.0 - 130.0	MS	23-APR-10 09:21	100422-6
PQL01										
	Aluminum	204	ug/L	200	ug/L	101.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Iron	102	ug/L	100	ug/L	102.4	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Lead	11.2	ug/L	10	ug/L	112	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Magnesium	311	ug/L	300	ug/L	103.7	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Manganese	10.3	ug/L	10	ug/L	103.1	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Potassium	150	ug/L	150	ug/L	99.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Silver	4.61	ug/L	5	ug/L	92.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Sodium	280	ug/L	300	ug/L	93.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Antimony	9.66	ug/L	10	ug/L	96.6	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Barium	4.99	ug/L	5	ug/L	99.9	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Cadmium	5.05	ug/L	5	ug/L	101	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Chromium	4.91	ug/L	5	ug/L	98.3	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Cobalt	5.18	ug/L	5	ug/L	103.6	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Copper	10	ug/L	10	ug/L	100	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Vanadium	4.74	ug/L	5	ug/L	94.8	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Zinc	10.1	ug/L	10	ug/L	101	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1
	Calcium	212	ug/L	200	ug/L	106.2	70.0 - 130.0	P	31-MAR-10 18:51	033110B-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	09-MAR-10 13:22	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 18:48	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 18:48	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 18:48	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 18:48	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 18:48	033110B-1
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	21-APR-10 20:43	100421-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	22-APR-10 22:24	100422-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	22-APR-10 22:24	100422-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	22-APR-10 22:24	100422-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	22-APR-10 22:24	100422-3
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	23-APR-10 09:19	100422-6
CCB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	09-MAR-10 13:28	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:01	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:01	033110B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:01	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Potassium	298.29	+/-250		64.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Sodium	140.13	+/-250	J	70.0	250	SOL	P	31-MAR-10 19:01	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:01	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:01	033110B-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	21-APR-10 20:53	100421-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	22-APR-10 22:40	100422-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	22-APR-10 22:40	100422-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	22-APR-10 22:40	100422-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	22-APR-10 22:40	100422-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	23-APR-10 09:29	100422-6
CCB02										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	09-MAR-10 13:52	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:08	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:08	033110B-1

SW846

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Potassium	98.66	+/-250	J	64.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:08	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:08	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:08	033110B-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	21-APR-10 21:18	100421-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	22-APR-10 23:16	100422-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	22-APR-10 23:16	100422-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	22-APR-10 23:16	100422-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	22-APR-10 23:16	100422-3
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	23-APR-10 09:49	100422-6
CCB03										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	09-MAR-10 14:16	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:29	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:29	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:29	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:29	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:29	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:29	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	21-APR-10 21:37	100421-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	22-APR-10 23:55	100422-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	22-APR-10 23:55	100422-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	22-APR-10 23:55	100422-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	22-APR-10 23:55	100422-3
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	23-APR-10 10:16	100422-6
CCB04	Mercury	-0.07	+/- .2	J	0.068	0.2	SOL	AV	09-MAR-10 14:40	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 19:50	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 19:50	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 19:50	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 19:50	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 19:50	033110B-1
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	21-APR-10 22:00	100421-2
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	23-APR-10 10:41	100422-6
CCB05	Mercury	-0.109	+/- .2	J	0.068	0.2	SOL	AV	09-MAR-10 15:04	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 20:21	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:21	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 20:21	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Silver	-1.07	+/-5	J	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 20:21	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:21	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:21	033110B-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	21-APR-10 22:25	100421-2
CCB06	Mercury	-0.149	+/-2	J	0.068	0.2	SOL	AV	09-MAR-10 15:28	030910S1-7
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 20:48	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 20:48	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 20:48	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB07	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 20:48	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 20:48	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 20:48	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:18	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:18	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:18	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:18	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:18	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:18	033110B-1
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:41	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:41	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:41	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:41	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:41	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:41	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:41	033110B-1
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 21:57	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 21:57	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 21:57	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 21:57	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 21:57	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 21:57	033110B-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:14	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:14	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:14	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:14	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:14	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:14	033110B-1
CCB11	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:37	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:37	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:37	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:37	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB12	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:37	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 22:58	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 22:58	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 22:58	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 22:58	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 22:58	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 22:58	033110B-1
CCB13	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 23:20	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 23:20	033110B-1

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Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB14	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 23:20	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:20	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:20	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 23:46	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 23:46	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 23:46	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 23:46	033110B-1
CCB15	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 23:46	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 23:46	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:04	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:04	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:04	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:04	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:04	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:04	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:04	033110B-1
CCB16	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:20	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:20	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:20	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:20	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:20	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:20	033110B-1
CCB17	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 00:45	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 00:45	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 00:45	033110B-1
	Potassium	130.01	+/-250	J	64.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 00:45	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 00:45	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 00:45	033110B-1
CCB18	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:09	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:09	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Potassium	195.24	+/-250	J	64.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB19	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:09	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:09	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:09	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:32	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:32	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:32	033110B-1
	Potassium	168.28	+/-250	J	64.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:32	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:32	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:32	033110B-1
CCB20	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 01:55	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 01:55	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB21	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 01:55	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 01:55	033110B-1
	Potassium	90.72	+/-250	J	64.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 01:55	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 01:55	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 01:55	033110B-1
CCB21	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 02:21	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 02:21	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 02:21	033110B-1
	Potassium	135.28	+/-250	J	64.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Sodium	101.82	+/-250	J	70.0	250	SOL	P	01-APR-10 02:21	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:21	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:21	033110B-1
CCB22	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 02:49	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 02:49	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 02:49	033110B-1
	Potassium	180.17	+/-250	J	64.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Sodium	1333.6	+/-250		70.0	250	SOL	P	01-APR-10 02:49	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 02:49	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 02:49	033110B-1
CCB23	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 03:15	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 03:15	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 03:15	033110B-1
	Potassium	79.28	+/-250	J	64.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Sodium	570.33	+/-250		70.0	250	SOL	P	01-APR-10 03:15	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 03:15	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 03:15	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB24										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 04:41	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 04:41	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 04:41	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Sodium	192.35	+/-250	J	70.0	250	SOL	P	01-APR-10 04:41	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 04:41	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 04:41	033110B-1
CCB25										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:05	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:05	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	01-APR-10 05:05	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB26	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Sodium	165.15	+/-250	J	70.0	250	SOL	P	01-APR-10 05:05	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:05	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:05	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:27	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:27	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:27	033110B-1
	Potassium	94.5	+/-250	J	64.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Sodium	132.11	+/-250	J	70.0	250	SOL	P	01-APR-10 05:27	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:27	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:27	033110B-1
CCB27	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 05:51	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 05:51	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB28	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 05:51	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Potassium	118.7	+/-250	J	64.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Sodium	102.83	+/-250	J	70.0	250	SOL	P	01-APR-10 05:51	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 05:51	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 05:51	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 06:06	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:06	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:06	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:06	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:06	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:06	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:06	033110B-1
CCB29	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 06:06	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:06	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 06:06	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 06:06	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 06:06	033110B-1
	Potassium	99.52	+/-250	J	64.0	250	SOL	P	01-APR-10 06:06	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:06	033110B-1
	Sodium	93.82	+/-250	J	70.0	250	SOL	P	01-APR-10 06:06	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:06	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:06	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 06:29	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:29	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:29	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:29	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:29	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:29	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:29	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 06:29	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:29	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 06:29	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 06:29	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 06:29	033110B-1
	Potassium	99.45	+/-250	J	64.0	250	SOL	P	01-APR-10 06:29	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:29	033110B-1
	Sodium	89.6	+/-250	J	70.0	250	SOL	P	01-APR-10 06:29	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:29	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:29	033110B-1
CCB30	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 06:52	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:52	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:52	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:52	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:52	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:52	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 06:52	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 06:52	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 06:52	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 06:52	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 06:52	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 06:52	033110B-1
	Potassium	95.07	+/-250	J	64.0	250	SOL	P	01-APR-10 06:52	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:52	033110B-1
	Sodium	72.63	+/-250	J	70.0	250	SOL	P	01-APR-10 06:52	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 06:52	033110B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB31	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 06:52	033110B-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	01-APR-10 07:17	033110B-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 07:17	033110B-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 07:17	033110B-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	01-APR-10 07:17	033110B-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	01-APR-10 07:17	033110B-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	01-APR-10 07:17	033110B-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	01-APR-10 07:17	033110B-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	01-APR-10 07:17	033110B-1
	Potassium	79.16	+/-250	J	64.0	250	SOL	P	01-APR-10 07:17	033110B-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	01-APR-10 07:17	033110B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	01-APR-10 07:17	033110B-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	01-APR-10 07:17	033110B-1

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-2025-1
Contract: LANL01004
Matrix: SOIL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202056127	Mercury	-9.11	ug/kg	+/-11.6	J	AV	3.95	11.6
1202056818	Magnesium	7960	ug/Kg	+/-28100	U	P	7960	28100
	Manganese	187	ug/Kg	+/-936	U	P	187	936
	Potassium	7180	ug/Kg	+/-23400	J	P	5990	23400
	Silver	93.6	ug/Kg	+/-468	U	P	93.6	468
	Sodium	7990	ug/Kg	+/-23400	J	P	6550	23400
	Vanadium	93.6	ug/Kg	+/-468	U	P	93.6	468
	Zinc	309	ug/Kg	+/-936	U	P	309	936
	Antimony	309	ug/Kg	+/-936	U	P	309	936
	Lead	234	ug/Kg	+/-936	U	P	234	936
	Iron	7490	ug/Kg	+/-23400	U	P	7490	23400
	Copper	281	ug/Kg	+/-936	U	P	281	936
	Cobalt	140	ug/Kg	+/-468	U	P	140	468
	Chromium	418	ug/Kg	+/-468	J	P	140	468
	Calcium	7490	ug/Kg	+/-23400	U	P	7490	23400
	Cadmium	93.6	ug/Kg	+/-468	U	P	93.6	468
	Barium	141	ug/Kg	+/-468	J	P	93.6	468
	Aluminum	6370	ug/Kg	+/-18700	U	P	6370	18700
1202056824	Arsenic	0.184	mg/kg	+/-0.921	U	MS	0.184	0.921
	Beryllium	0.0184	mg/kg	+/-0.0921	U	MS	0.0184	0.0921
	Nickel	0.0921	mg/kg	+/-0.368	U	MS	0.0921	0.368
	Selenium	0.46	mg/kg	+/-0.921	U	MS	0.46	0.921
	Thallium	0.0553	mg/kg	+/-0.184	U	MS	0.0553	0.184
	Uranium	0.0122	mg/kg	+/-0.0368	U	MS	0.0122	0.0368

METALS
-4-
Interference Check Sample

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	502000	ug/L	500000	ug/L	100	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Antimony	0.296	ug/L					31-MAR-10 18:53	033110B-1
	Barium	0.205	ug/L					31-MAR-10 18:53	033110B-1
	Cadmium	-1.97	ug/L					31-MAR-10 18:53	033110B-1
	Calcium	480000	ug/L	500000	ug/L	96	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Chromium	1.07	ug/L					31-MAR-10 18:53	033110B-1
	Cobalt	-6.06	ug/L					31-MAR-10 18:53	033110B-1
	Copper	4.63	ug/L					31-MAR-10 18:53	033110B-1
	Iron	190000	ug/L	200000	ug/L	95	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Lead	-4.1	ug/L					31-MAR-10 18:53	033110B-1
	Magnesium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	31-MAR-10 18:53	033110B-1
	Manganese	3.58	ug/L					31-MAR-10 18:53	033110B-1
	Potassium	-119.0	ug/L					31-MAR-10 18:53	033110B-1
	Silver	-2.44	ug/L					31-MAR-10 18:53	033110B-1
	Sodium	38.8	ug/L					31-MAR-10 18:53	033110B-1
	Vanadium	-0.082	ug/L					31-MAR-10 18:53	033110B-1
	Zinc	8.58	ug/L					31-MAR-10 18:53	033110B-1
ICSAB01									
	Aluminum	507000	ug/L	500000	ug/L	101	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Antimony	504	ug/L	500	ug/L	101	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Barium	499	ug/L	500	ug/L	99.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Cadmium	476	ug/L	500	ug/L	95.3	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Calcium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Chromium	484	ug/L	500	ug/L	96.7	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Cobalt	442	ug/L	500	ug/L	88.5	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Copper	542	ug/L	500	ug/L	108	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Iron	192000	ug/L	200000	ug/L	96	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Lead	464	ug/L	500	ug/L	92.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Magnesium	485000	ug/L	500000	ug/L	97	80.0 – 120.0	31-MAR-10 18:55	033110B-1

METALS
-4-
Interference Check Sample

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	486	ug/L	500	ug/L	97.2	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Potassium	5550	ug/L	5000	ug/L	111	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Silver	267	ug/L	250	ug/L	107	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Sodium	5330	ug/L	5000	ug/L	107	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Vanadium	513	ug/L	500	ug/L	103	80.0 – 120.0	31-MAR-10 18:55	033110B-1
	Zinc	494	ug/L	500	ug/L	98.8	80.0 – 120.0	31-MAR-10 18:55	033110B-1

METALS
-4-
Interference Check Sample

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.067	ug/L					21-APR-10 20:47	100421-2
ICSAB01	Beryllium	18.0	ug/L	20	ug/L	89.9	80.0 – 120.0	21-APR-10 20:49	100421-2

METALS
-4-
Interference Check Sample

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	1.39	ug/L					22-APR-10 22:30	100422-3
	Nickel	2.87	ug/L					22-APR-10 22:30	100422-3
	Selenium	1.78	ug/L					22-APR-10 22:30	100422-3
	Thallium	0.009	ug/L					22-APR-10 22:30	100422-3
ICSAB01									
	Arsenic	21.2	ug/L	20	ug/L	106	80.0 – 120.0	22-APR-10 22:33	100422-3
	Nickel	21.7	ug/L	23.31	ug/L	93	80.0 – 120.0	22-APR-10 22:33	100422-3
	Selenium	21.0	ug/L	20	ug/L	105	80.0 – 120.0	22-APR-10 22:33	100422-3
	Thallium	19.1	ug/L	20	ug/L	95.2	80.0 – 120.0	22-APR-10 22:33	100422-3

METALS

-4-

Interference Check Sample

SDG No: 10-2025-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	0.005	ug/L					23-APR-10 09:23	100422-6
ICSAB01	Uranium	21.6	ug/L	20	ug/L	108	80.0 - 120.0	23-APR-10 09:25	100422-6

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025-1 Client ID RE46-10-13339S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 83

Sample ID: 247918001 Spike ID: 1202056130

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	205		28		144	123		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2025-1 **Client ID** RE46-10-13339SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 83**Sample ID:** 247918001 **Spike ID:** 1202056132

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	190		28		137	118		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025-1 Client ID RE36-10-8489S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 95.2

Sample ID: 248000001 Spike ID: 1202056821

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	2830000		1560000		519000	245	N	P
Antimony	ug/Kg	75-125	45800		330	U	51900	88.2		P
Barium	ug/Kg	75-125	61900		18400		51900	83.8		P
Cadmium	ug/Kg	75-125	47900		100	U	51900	92.3		P
Calcium	ug/Kg	75-125	899000		389000		519000	98.3		P
Chromium	ug/Kg	75-125	48600		1410		51900	90.9		P
Cobalt	ug/Kg	75-125	47900		822		51900	90.7		P
Copper	ug/Kg	75-125	52200		1320		51900	97.9		P
Iron	ug/Kg		6160000		7140000		519000	-189	N/A	P
Lead	ug/Kg	75-125	50300		3560		51900	90.1		P
Magnesium	ug/Kg	75-125	737000		210000		519000	101		P
Manganese	ug/Kg		332000		396000		51900	-122	N/A	P
Potassium	ug/Kg	75-125	1430000		553000		519000	168	N	P
Silver	ug/Kg	75-125	47300		100	U	51900	91.2		P
Sodium	ug/Kg	75-125	1330000		518000		519000	156	N	P
Vanadium	ug/Kg	75-125	50100		2960		51900	90.9		P
Zinc	ug/Kg	75-125	91000		55000		51900	69.3	N	P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2025-1 Client ID RE36-10-8489SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 95.2

Sample ID: 248000001 Spike ID: 1202056822

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	2750000		1560000		515000	232	N	P
Antimony	ug/Kg	75-125	44800		330	U	51500	86.9		P
Barium	ug/Kg	75-125	62700		18400		51500	86.1		P
Cadmium	ug/Kg	75-125	47500		100	U	51500	92.3		P
Calcium	ug/Kg	75-125	881000		389000		515000	95.5		P
Chromium	ug/Kg	75-125	47900		1410		51500	90.3		P
Cobalt	ug/Kg	75-125	47000		822		51500	89.8		P
Copper	ug/Kg	75-125	51800		1320		51500	98.1		P
Iron	ug/Kg		6070000		7140000		515000	-209	N/A	P
Lead	ug/Kg	75-125	49400		3560		51500	89.1		P
Magnesium	ug/Kg	75-125	703000		210000		515000	95.7		P
Manganese	ug/Kg		317000		396000		51500	-153	N/A	P
Potassium	ug/Kg	75-125	1420000		553000		515000	168	N	P
Silver	ug/Kg	75-125	47100		100	U	51500	91.4		P
Sodium	ug/Kg	75-125	1310000		518000		515000	154	N	P
Vanadium	ug/Kg	75-125	49700		2960		51500	90.8		P
Zinc	ug/Kg	75-125	89700		55000		51500	67.4	N	P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2025-1 Client ID RE36-10-8489S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 95.2

Sample ID: 248000001 Spike ID: 1202056827

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.13		0.328	J	8.27	94.3		MS
Beryllium	mg/kg	75-125	5.19		0.346		5.17	93.7		MS
Nickel	mg/kg	75-125	5.66		0.512		5.17	99.7		MS
Selenium	mg/kg	75-125	2.1		0.557	J	2.07	74.8	N	MS
Thallium	mg/kg	75-125	9.4		0.0618	U	10.3	90.5		MS
Uranium	mg/kg	75-125	6.11		0.646		5.17	106		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2025-1 **Client ID** RE36-10-8489SD

Contract: LANL01004 **Level:** Low

Matrix: SOIL **% Solids:** 95.2

Sample ID: 248000001 **Spike ID:** 1202056828

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Arsenic	mg/kg	75-125	8.58		0.328	J	8.32	99.2		MS
Beryllium	mg/kg	75-125	5.39		0.346		5.2	97		MS
Nickel	mg/kg	75-125	5.92		0.512		5.2	104		MS
Selenium	mg/kg	75-125	2.05		0.557	J	2.08	71.9	N	MS
Thallium	mg/kg	75-125	9.91		0.0618	U	10.4	94.9		MS
Uranium	mg/kg	75-125	6.41		0.646		5.2	111		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-13339D

Sample ID: 247918001

Duplicate ID: 1202056129

Percent Solids for Dup: 83

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-13.1	28		38.2		30.7		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-13339SD

Sample ID: 1202056130

Duplicate ID: 1202056132

Percent Solids for Dup: 83

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	205		190		7.49		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8489D

Sample ID: 248000001

Duplicate ID: 1202056819

Percent Solids for Dup: 95.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	1560000		1460000		6.45		P
Antimony	ug/Kg		330 U		326 U				P
Barium	ug/Kg	+/-20%	18400		13400		31.2	*	P
Cadmium	ug/Kg		100 U		98.9 U				P
Calcium	ug/Kg	+/-20%	389000		310000		22.5	*	P
Chromium	ug/Kg	+/-495	1410		866		47.6	*	P
Cobalt	ug/Kg	+/-495	822		609		29.7		P
Copper	ug/Kg	+/-989	1320		970 J		30.3		P
Iron	ug/Kg	+/-20%	7140000		5250000		30.6	*	P
Lead	ug/Kg	+/-989	3560		2520		34.3	*	P
Magnesium	ug/Kg	+/-20%	210000		163000		24.9	*	P
Manganese	ug/Kg	+/-20%	396000		239000		49.5	*	P
Potassium	ug/Kg	+/-20%	553000		528000		4.48		P
Silver	ug/Kg		100 U		98.9 U				P
Sodium	ug/Kg	+/-20%	518000		464000		10.9		P
Vanadium	ug/Kg	+/-495	2960		1950		41.2	*	P
Zinc	ug/Kg	+/-20%	55000		40600		30	*	P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8489SD

Sample ID: 1202056821

Duplicate ID: 1202056822

Percent Solids for Dup: 95.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	2830000		2750000		2.89		P
Antimony	ug/Kg	+/-20	45800		44800		2.22		P
Barium	ug/Kg	+/-20	61900		62700		1.36		P
Cadmium	ug/Kg	+/-20	47900		47500		.777		P
Calcium	ug/Kg	+/-20	899000		881000		2.06		P
Chromium	ug/Kg	+/-20	48600		47900		1.42		P
Cobalt	ug/Kg	+/-20	47900		47000		1.79		P
Copper	ug/Kg	+/-20	52200		51800		.652		P
Iron	ug/Kg	+/-20	6160000		6070000		1.49		P
Lead	ug/Kg	+/-20	50300		49400		1.76		P
Magnesium	ug/Kg	+/-20	737000		703000		4.7		P
Manganese	ug/Kg	+/-20	332000		317000		4.75		P
Potassium	ug/Kg	+/-20	1430000		1420000		.468		P
Silver	ug/Kg	+/-20	47300		47100		.544		P
Sodium	ug/Kg	+/-20	1330000		1310000		1.27		P
Vanadium	ug/Kg	+/-20	50100		49700		.787		P
Zinc	ug/Kg	+/-20	91000		89700		1.42		P

Metals

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Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8489D

Sample ID: 248000001

Duplicate ID: 1202056825

Percent Solids for Dup: 95.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.04	0.328 J		0.287 J		13.3		MS
Beryllium	mg/kg	+/- .104	0.346		0.372		7.15		MS
Nickel	mg/kg	+/- .418	0.512		0.587		13.7		MS
Selenium	mg/kg		0.557 J		0.522 U		200		MS
Thallium	mg/kg		0.0618 U		0.0627 U				MS
Uranium	mg/kg	+/-20%	0.646		0.632		2.22		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-2025-1

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-8489SD

Sample ID: 1202056827

Duplicate ID: 1202056828

Percent Solids for Dup: 95.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	8.13		8.58		5.43		MS
Beryllium	mg/kg	+/-20	5.19		5.39		3.72		MS
Nickel	mg/kg	+/-20	5.66		5.92		4.5		MS
Selenium	mg/kg	+/-20	2.1		2.05		2.46		MS
Thallium	mg/kg	+/-20	9.4		9.91		5.35		MS
Uranium	mg/kg	+/-20	6.11		6.41		4.78		MS

METALS
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Laboratory Control Sample Summary

SDG NO. 10-2025-1
Contract: LANL01004

Aqueous LCS Source: Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056128	Mercury	ug/kg	5150	4980		96.8	71.6-128.3	AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2025-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056823								
	Antimony	ug/Kg	173000	98700		57.1	71-130	P
	Barium	ug/Kg	198000	180000		91.1	80-120	P
	Cadmium	ug/Kg	60700	56200		92.7	81-120	P
	Calcium	ug/Kg	9870000	9140000		92.6	83-117	P
	Chromium	ug/Kg	236000	227000		96.1	80-120	P
	Cobalt	ug/Kg	91200	87000		95.4	81-120	P
	Copper	ug/Kg	174000	174000		100	81-118	P
	Iron	ug/Kg	18000000	17300000		96.3	51-149	P
	Lead	ug/Kg	86000	75500		87.8	79-121	P
	Magnesium	ug/Kg	4000000	3680000		91.9	79-122	P
	Manganese	ug/Kg	558000	515000		92.3	81-119	P
	Potassium	ug/Kg	4300000	4010000		93.2	74-127	P
	Silver	ug/Kg	30100	28600		95	66-134	P
	Sodium	ug/Kg	1020000	1010000		99.4	74-127	P
	Vanadium	ug/Kg	115000	114000		99.5	79-121	P
	Zinc	ug/Kg	594000	550000		92.5	80-121	P
	Aluminum	ug/Kg	10500000	9190000		87.5	56-144	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-2025-1

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202056829	Arsenic	mg/kg	104	112		108	78-123	MS
	Beryllium	mg/kg	77.6	85.5		110	84-116	MS
	Nickel	mg/kg	134	152		114	78-123	MS
	Selenium	mg/kg	286	314		110	77-123	MS
	Thallium	mg/kg	121	128		106	78-122	MS
	Uranium	mg/kg	2.13	2.18		102	73-127	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2025-1 **Client ID** RE46-10-13339L**Contract:** LANL01004**Matrix:** SOLID **Level:** Low**Sample ID:** 247918001 **Serial Dilution ID:** 1202056131

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.453		.34	U	100			AV

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 10-2025-1 **Client ID** RE36-10-8489L

Contract: LANL01004

Matrix: SOLID **Level:** Low

Sample ID: 248000001 **Serial Dilution ID:** 1202056820

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	15500		16000		2.9		10	P
Antimony	3.3	U	16.5	U				P
Barium	184		187		1.36		10	P
Cadmium	1	U	5	U				P
Calcium	3890		3910		.386			P
Chromium	14.1		13.7	J	3.19			P
Cobalt	8.22		9.05	J	10.1			P
Copper	13.2		15	U	100			P
Iron	71400		72000		.84		10	P
Lead	35.6		33.8	J	5.2			P
Magnesium	2100		2100		.238			P
Manganese	3950		4050		2.53		10	P
Potassium	5520		5800		5.07		10	P
Silver	1	U	5	U				P
Sodium	5180		5450		5.21		10	P
Vanadium	29.6		26		12.3			P
Zinc	549		550		.182		10	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-2025-1 Client ID RE36-10-8489L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248000001 Serial Dilution ID: 1202056826

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	1.59	J	5	U	100			MS
Beryllium	1.68		1.46	J	13.1			MS
Nickel	2.49		2.96	J	18.9			MS
Selenium	2.7	J	12.5	U	100			MS
Thallium	.3	U	1.5	U				MS
Uranium	3.14		3.52		11.9			MS

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-2025-1

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	959092						
1202056818	MB for batch 959092	MB	S	02-MAR-10	.534g	50mL	
1202056823	LCS for batch 959092	LCS	S	02-MAR-10	.519g	50mL	
1202056821	RE36-10-8489S	MS	S	02-MAR-10	.506g	50mL	
1202056822	RE36-10-8489SD	MSD	S	02-MAR-10	.51g	50mL	
1202056819	RE36-10-8489D	DUP	S	02-MAR-10	.531g	50mL	
248000001	RE36-10-8489	SAMPLE	S	02-MAR-10	.525g	50mL	
248000002	RE36-10-8486	SAMPLE	S	02-MAR-10	.541g	50mL	
248000003	RE36-10-8487	SAMPLE	S	02-MAR-10	.523g	50mL	
248000004	RE36-10-8462	SAMPLE	S	02-MAR-10	.538g	50mL	
248000005	RE36-10-8463	SAMPLE	S	02-MAR-10	.507g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2025-1

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	959094						
1202056824	MB for batch 959094	MB	S	02-MAR-10	.543g	50mL	
1202056829	LCS for batch 959094	LCS	S	02-MAR-10	.506g	50mL	
1202056827	RE36-10-8489S	MS	S	02-MAR-10	.508g	50mL	
1202056828	RE36-10-8489SD	MSD	S	02-MAR-10	.505g	50mL	
1202056825	RE36-10-8489D	DUP	S	02-MAR-10	.503g	50mL	
248000001	RE36-10-8489	SAMPLE	S	02-MAR-10	.51g	50mL	
248000002	RE36-10-8486	SAMPLE	S	02-MAR-10	.523g	50mL	
248000003	RE36-10-8487	SAMPLE	S	02-MAR-10	.524g	50mL	
248000004	RE36-10-8462	SAMPLE	S	02-MAR-10	.506g	50mL	
248000005	RE36-10-8463	SAMPLE	S	02-MAR-10	.553g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2025-1

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 958730							
1202056127	MB for batch 958730	MB	S	09-MAR-10	.516g	30mL	
1202056128	LCS for batch 958730	LCS	S	09-MAR-10	.202g	30mL	
1202056130	RE46-10-13339S	MS	S	09-MAR-10	.501g	30mL	
1202056132	RE46-10-13339SD	MSD	S	09-MAR-10	.525g	30mL	
1202056129	RE46-10-13339D	DUP	S	09-MAR-10	.55g	30mL	
248000001	RE36-10-8489	SAMPLE	S	09-MAR-10	.54g	30mL	
248000002	RE36-10-8486	SAMPLE	S	09-MAR-10	.555g	30mL	
248000003	RE36-10-8487	SAMPLE	S	09-MAR-10	.501g	30mL	
248000004	RE36-10-8462	SAMPLE	S	09-MAR-10	.526g	30mL	
248000005	RE36-10-8463	SAMPLE	S	09-MAR-10	.578g	30mL	

SW846

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA4

Start Date: 31-MAR-10

End Date: 01-APR-10

Client Sdg: 10-2025-1

Method P

Data File: 033110B-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	18:36:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	18:39:00		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	18:41:00	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	18:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	18:45:00	X						X				X		X							X				
ICV01	1	18:47:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	18:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	18:51:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	18:53:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	18:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	18:56:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	18:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	18:59:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	19:01:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	19:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	19:08:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:11:00																								
ZZZZZZ	1	19:14:00																								
ZZZZZZ	1	19:16:00																								
ZZZZZZ	1	19:19:00																								
ZZZZZZ	1	19:22:00																								
ZZZZZZ	5	19:24:00																								
CCV03	1	19:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	19:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:32:00																								
ZZZZZZ	1	19:35:00																								
ZZZZZZ	1	19:38:00																								
ZZZZZZ	1	19:41:00																								
ZZZZZZ	1	19:44:00																								
CCV04	1	19:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	19:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:53:00																								
ZZZZZZ	1	19:56:00																								
ZZZZZZ	1	19:58:00																								
ZZZZZZ	1	20:01:00																								
ZZZZZZ	1	20:04:00																								
ZZZZZZ	1	20:06:00																								
ZZZZZZ	5	20:09:00																								
ZZZZZZ	1	20:12:00																								
ZZZZZZ	1	20:15:00																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																	
CCV05	1	20:18:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
CCB05	1	20:21:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ	1	20:23:00																	
ZZZZZZ	1	20:27:00																	
ZZZZZZ	1	20:29:00																	
ZZZZZZ	1	20:31:00																	
ZZZZZZ	1	20:33:00																	
ZZZZZZ	5	20:35:00																	
ZZZZZZ	1	20:37:00																	
ZZZZZZ	1	20:40:00																	
ZZZZZZ	1	20:43:00																	
CCV06	1	20:46:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
CCB06	1	20:48:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ	1	20:51:00																	
ZZZZZZ	1	20:54:00																	
ZZZZZZ	1	20:56:00																	
ZZZZZZ	1	20:59:00																	
ZZZZZZ	1	21:02:00																	
ZZZZZZ	1	21:04:00																	
ZZZZZZ	1	21:06:00																	
ZZZZZZ	1	21:08:00																	
ZZZZZZ	1	21:11:00																	
ZZZZZZ	1	21:13:00																	
CCV07	1	21:16:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
CCB07	1	21:18:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ	1	21:21:00																	
ZZZZZZ	1	21:24:00																	
ZZZZZZ	1	21:25:00																	
ZZZZZZ	1	21:27:00																	
ZZZZZZ	1	21:29:00																	
ZZZZZZ	1	21:31:00																	
ZZZZZZ	5	21:33:00																	
ZZZZZZ	1	21:36:00																	
ZZZZZZ	1	21:37:00																	
CCV08	1	21:39:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
CCB08	1	21:41:00	X	X		X		X	X	X	X	X	X	X	X		X	X	X
ZZZZZZ	1	21:45:00																	
ZZZZZZ	1	21:47:00																	
ZZZZZZ	1	21:49:00																	
ZZZZZZ	1	21:51:00																	

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
ZZZZZZ	1	21:53:00																								
CCV09	1	21:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB09	1	21:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:00:00																								
ZZZZZZ	1	22:03:00																								
ZZZZZZ	1	22:04:00																								
ZZZZZZ	1	22:06:00																								
ZZZZZZ	1	22:08:00																								
ZZZZZZ	1	22:09:00																								
ZZZZZZ	5	22:10:00																								
CCV10	1	22:12:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	22:14:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:17:00																								
ZZZZZZ	1	22:20:00																								
ZZZZZZ	1	22:22:00																								
ZZZZZZ	1	22:24:00																								
ZZZZZZ	1	22:26:00																								
ZZZZZZ	1	22:28:00																								
ZZZZZZ	1	22:31:00																								
ZZZZZZ	1	22:33:00																								
CCV11	1	22:35:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	22:37:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	22:40:00																								
ZZZZZZ	1	22:42:00																								
ZZZZZZ	1	22:45:00																								
ZZZZZZ	1	22:47:00																								
ZZZZZZ	1	22:49:00																								
ZZZZZZ	1	22:52:00																								
ZZZZZZ	1	22:54:00																								
CCV12	1	22:56:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	22:58:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	23:01:00																								
ZZZZZZ	1	23:04:00																								
ZZZZZZ	1	23:05:00																								
ZZZZZZ	1	23:07:00																								
ZZZZZZ	1	23:09:00																								
ZZZZZZ	1	23:10:00																								
ZZZZZZ	5	23:12:00																								
ZZZZZZ	1	23:14:00																								
ZZZZZZ	1	23:16:00																								

Metals
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Analysis Run Log

Samp No.	D/F	Run Time																		
CCV13	1	23:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB13	1	23:20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	23:23:00																		
ZZZZZZ	1	23:25:00																		
ZZZZZZ	1	23:27:00																		
ZZZZZZ	1	23:29:00																		
ZZZZZZ	1	23:32:00																		
ZZZZZZ	1	23:34:00																		
ZZZZZZ	1	23:35:00																		
ZZZZZZ	1	23:38:00																		
ZZZZZZ	1	23:40:00																		
ZZZZZZ	1	23:42:00																		
CCV14	1	23:44:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB14	1	23:46:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	23:49:00																		
ZZZZZZ	1	23:52:00																		
ZZZZZZ	1	23:53:00																		
ZZZZZZ	1	23:55:00																		
ZZZZZZ	1	23:57:00																		
ZZZZZZ	1	23:58:00																		
ZZZZZZ	5	00:00:00																		
CCV15	1	00:02:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB15	1	00:04:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	00:07:00																		
ZZZZZZ	1	00:09:00																		
ZZZZZZ	1	00:11:00																		
ZZZZZZ	1	00:14:00																		
ZZZZZZ	1	00:16:00																		
CCV16	1	00:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB16	1	00:20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	00:23:00																		
ZZZZZZ	1	00:25:00																		
ZZZZZZ	1	00:27:00																		
ZZZZZZ	1	00:29:00																		
ZZZZZZ	1	00:31:00																		
ZZZZZZ	1	00:32:00																		
ZZZZZZ	5	00:34:00																		
ZZZZZZ	1	00:36:00																		
ZZZZZZ	1	00:38:00																		
ZZZZZZ	1	00:40:00																		

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
CCV17	1	00:42:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB17	1	00:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	00:48:00																								
ZZZZZZ	1	00:50:00																								
ZZZZZZ	1	00:52:00																								
ZZZZZZ	1	00:54:00																								
ZZZZZZ	1	00:56:00																								
ZZZZZZ	1	00:58:00																								
ZZZZZZ	1	01:00:00																								
ZZZZZZ	1	01:02:00																								
ZZZZZZ	1	01:04:00																								
CCV18	1	01:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB18	1	01:09:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	01:12:00																								
ZZZZZZ	1	01:14:00																								
ZZZZZZ	1	01:16:00																								
ZZZZZZ	1	01:18:00																								
ZZZZZZ	1	01:20:00																								
ZZZZZZ	1	01:22:00																								
ZZZZZZ	1	01:24:00																								
ZZZZZZ	1	01:27:00																								
ZZZZZZ	1	01:29:00																								
CCV19	1	01:30:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB19	1	01:32:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	01:35:00																								
ZZZZZZ	1	01:38:00																								
ZZZZZZ	1	01:40:00																								
ZZZZZZ	1	01:43:00																								
ZZZZZZ	1	01:45:00																								
ZZZZZZ	1	01:48:00																								
ZZZZZZ	5	01:50:00																								
CCV20	1	01:53:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB20	1	01:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	01:58:00																								
ZZZZZZ	1	02:01:00																								
ZZZZZZ	1	02:03:00																								
ZZZZZZ	1	02:05:00																								
ZZZZZZ	1	02:08:00																								
ZZZZZZ	1	02:10:00																								
ZZZZZZ	5	02:12:00																								

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	05:21:00																								
ZZZZZZ	1	05:23:00																								
CCV26	1	05:25:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB26	1	05:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	05:30:00																								
ZZZZZZ	1	05:32:00																								
ZZZZZZ	1	05:34:00																								
ZZZZZZ	1	05:36:00																								
ZZZZZZ	1	05:38:00																								
ZZZZZZ	1	05:40:00																								
ZZZZZZ	1	05:42:00																								
ZZZZZZ	1	05:44:00																								
ZZZZZZ	1	05:46:00																								
CCV27	1	05:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB27	1	05:51:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	10	05:58:00																								
ZZZZZZ	10	06:00:00																								
ZZZZZZ	10	06:02:00																								
CCV28	1	06:04:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB28	1	06:06:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV29	1	06:27:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB29	1	06:29:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056818	1	06:32:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056823	1	06:35:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248000001	1	06:37:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056819	1	06:39:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056821	1	06:41:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056822	1	06:42:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202056820	5	06:43:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248000002	1	06:45:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248000003	1	06:48:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV30	1	06:50:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB30	1	06:52:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248000004	1	06:55:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
248000005	1	06:57:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	06:59:00																								
ZZZZZZ	1	07:01:00																								
ZZZZZZ	1	07:03:00																								
ZZZZZZ	1	07:05:00																								
ZZZZZZ	1	07:07:00																								

Samp No.	D/F	Run Time
ZZZZZZ	1	07:09:00
ZZZZZZ	1	07:11:00
ZZZZZZ	1	07:13:00
CCV31	1	07:15:00
CCB31	1	07:17:00

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 09-MAR-10

End Date: 09-MAR-10

Client Sdg: 10-2025-1

Method: AV

Data File: 030910S1-7

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	13:08:00															X									
S0.2	1	13:10:00															X									
S0.5	1	13:12:00															X									
S2.0	1	13:14:00															X									
S5.0	1	13:16:00															X									
S10	1	13:18:00															X									
ICV01	1	13:20:00															X									
ICB01	1	13:22:00															X									
CRDL01	1	13:24:00															X									
CCV01	1	13:26:00															X									
CCB01	1	13:28:00															X									
ZZZZZZ	1	13:30:00																								
ZZZZZZ	10	13:32:00																								
ZZZZZZ	1	13:34:00																								
ZZZZZZ	1	13:36:00																								
ZZZZZZ	1	13:38:00																								
ZZZZZZ	1	13:40:00																								
ZZZZZZ	5	13:42:00																								
ZZZZZZ	1	13:44:00																								
ZZZZZZ	1	13:46:00																								
ZZZZZZ	1	13:48:00																								
CCV02	1	13:50:00															X									
CCB02	1	13:52:00															X									
ZZZZZZ	1	13:54:00																								
ZZZZZZ	1	13:56:00																								
ZZZZZZ	1	13:58:00																								
ZZZZZZ	1	14:00:00																								
ZZZZZZ	1	14:02:00																								
ZZZZZZ	1	14:04:00																								
ZZZZZZ	1	14:06:00																								
ZZZZZZ	1	14:08:00																								
ZZZZZZ	1	14:10:00																								
ZZZZZZ	1	14:12:00																								
CCV03	1	14:14:00															X									
CCB03	1	14:16:00															X									
ZZZZZZ	1	14:18:00																								
ZZZZZZ	1	14:20:00																								
ZZZZZZ	1	14:22:00																								
ZZZZZZ	1	14:24:00																								
ZZZZZZ	1	14:26:00																								

Samp No.	D/F	Run Time
ZZZZZZ	1	14:28:00
1202056127	1	14:30:00
1202056128	10	14:32:00
ZZZZZZ	1	14:34:00
1202056129	1	14:36:00
CCV04	1	14:38:00
CCB04	1	14:40:00
1202056130	1	14:42:00
1202056132	1	14:44:00
1202056131	5	14:46:00
ZZZZZZ	1	14:48:00
ZZZZZZ	1	14:50:00
ZZZZZZ	1	14:52:00
ZZZZZZ	1	14:54:00
ZZZZZZ	1	14:56:00
ZZZZZZ	1	14:58:00
ZZZZZZ	1	15:00:00
CCV05	1	15:02:00
CCB05	1	15:04:00
248000001	1	15:06:00
248000002	1	15:08:00
248000003	1	15:10:00
248000004	1	15:12:00
248000005	1	15:14:00
ZZZZZZ	1	15:15:00
ZZZZZZ	1	15:17:00
ZZZZZZ	1	15:19:00
ZZZZZZ	1	15:21:00
ZZZZZZ	1	15:23:00
CCV06	1	15:26:00
CCB06	1	15:28:00

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 21-APR-10

End Date: 21-APR-10

Client Sdg: 10-2025-1

Method MS

Data File: 100421-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	20:35:00					X																			
S10	1	20:37:00					X																			
S100	1	20:39:00					X																			
ICV01	1	20:41:00					X																			
ICB01	1	20:43:00					X																			
CRDL01	1	20:45:00					X																			
ICSA01	1	20:47:00					X																			
ICSAB01	1	20:49:00					X																			
CCV01	1	20:51:00					X																			
CCB01	1	20:53:00					X																			
ZZZZZZ	1	20:55:00																								
ZZZZZZ	1	20:57:00																								
ZZZZZZ	1	21:00:00																								
ZZZZZZ	1	21:02:00																								
ZZZZZZ	1	21:04:00																								
ZZZZZZ	1	21:06:00																								
ZZZZZZ	1	21:08:00																								
ZZZZZZ	1	21:10:00																								
ZZZZZZ	5	21:12:00																								
ZZZZZZ	1	21:14:00																								
CCV02	1	21:16:00					X																			
CCB02	1	21:18:00					X																			
ZZZZZZ	1	21:20:00																								
ZZZZZZ	1	21:22:00																								
ZZZZZZ	1	21:24:00																								
ZZZZZZ	1	21:27:00																								
ZZZZZZ	1	21:29:00																								
ZZZZZZ	5	21:31:00																								
ZZZZZZ	1	21:33:00																								
CCV03	1	21:35:00					X																			
CCB03	1	21:37:00					X																			
1202056824	2	21:39:00					X																			
1202056829	40	21:41:00					X																			
248000001	2	21:43:00					X																			
1202056825	2	21:45:00					X																			
1202056827	2	21:47:00					X																			
1202056828	2	21:49:00					X																			
1202056826	10	21:51:00					X																			
248000002	2	21:54:00					X																			
248000003	2	21:56:00					X																			

Samp No.	D/F	Run Time
CCV04	1	21:58:00
CCB04	1	22:00:00
248000004	2	22:02:00
248000005	2	22:04:00
ZZZZZZ	2	22:06:00
ZZZZZZ	2	22:08:00
ZZZZZZ	2	22:10:00
ZZZZZZ	2	22:12:00
ZZZZZZ	2	22:15:00
ZZZZZZ	2	22:17:00
ZZZZZZ	2	22:19:00
ZZZZZZ	2	22:21:00
CCV05	1	22:23:00
CCB05	1	22:25:00

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: JCPMS3

Start Date: 22-APR-10

End Date: 23-APR-10

Client Sdg: 10-2025-1

Method MS

Data File: 100422-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	22:11:00			X													X		X			X			
S10	1	22:14:00			X													X		X			X			
S100	1	22:17:00			X													X		X			X			
ICV01	1	22:21:00			X													X		X			X			
ICB01	1	22:24:00			X													X		X			X			
CRDL01	1	22:27:00			X													X		X			X			
ICSA01	1	22:30:00			X													X		X			X			
ICSAB01	1	22:33:00			X													X		X			X			
CCV01	1	22:37:00			X													X		X			X			
CCB01	1	22:40:00			X													X		X			X			
1202056824	2	22:43:00			X													X		X			X			
1202056829	40	22:46:00			X													X		X			X			
248000001	2	22:50:00			X													X		X			X			
1202056825	2	22:53:00			X													X		X			X			
1202056827	2	22:56:00			X													X		X			X			
1202056828	2	22:59:00			X													X		X			X			
1202056826	10	23:03:00			X													X		X			X			
248000002	2	23:06:00			X													X		X			X			
248000003	2	23:09:00			X													X		X			X			
CCV02	1	23:12:00			X													X		X			X			
CCB02	1	23:16:00			X													X		X			X			
248000004	2	23:19:00			X													X		X			X			
248000005	2	23:22:00			X													X		X			X			
ZZZZZZ	2	23:25:00																								
ZZZZZZ	2	23:29:00																								
ZZZZZZ	2	23:32:00																								
ZZZZZZ	2	23:35:00																								
ZZZZZZ	2	23:39:00																								
ZZZZZZ	2	23:42:00																								
ZZZZZZ	2	23:45:00																								
ZZZZZZ	2	23:48:00																								
CCV03	1	23:52:00			X													X		X			X			
CCB03	1	23:55:00			X													X		X			X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 22-APR-10

End Date: 23-APR-10

Client Sdg: 10-2025-1

Method MS

Data File: 100422-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:11:00																						X		
S10	1	09:13:00																						X		
S100	1	09:15:00																						X		
ICV01	1	09:17:00																						X		
ICB01	1	09:19:00																						X		
CRDL01	1	09:21:00																						X		
ICSA01	1	09:23:00																						X		
ICSAB01	1	09:25:00																						X		
CCV01	1	09:27:00																						X		
CCB01	1	09:29:00																						X		
ZZZZZZ	2	09:31:00																								
ZZZZZZ	2	09:33:00																								
ZZZZZZ	2	09:37:00																								
ZZZZZZ	2	09:39:00																								
ZZZZZZ	2	09:41:00																								
ZZZZZZ	2	09:43:00																								
ZZZZZZ	10	09:45:00																								
CCV02	1	09:47:00																						X		
CCB02	1	09:49:00																						X		
1202056824	2	09:52:00																						X		
1202056829	40	09:54:00																						X		
248000001	2	09:57:00																						X		
1202056825	2	09:59:00																						X		
1202056827	2	10:02:00																						X		
1202056828	2	10:05:00																						X		
1202056826	10	10:07:00																						X		
248000002	2	10:10:00																						X		
248000003	2	10:12:00																						X		
CCV03	1	10:14:00																						X		
CCB03	1	10:16:00																						X		
248000004	2	10:18:00																						X		
248000005	2	10:20:00																						X		
ZZZZZZ	2	10:22:00																								
ZZZZZZ	2	10:25:00																								
ZZZZZZ	2	10:27:00																								
ZZZZZZ	2	10:29:00																								
ZZZZZZ	2	10:31:00																								
ZZZZZZ	2	10:33:00																								
ZZZZZZ	2	10:35:00																								
ZZZZZZ	2	10:37:00																								

Samp No.	D/F	Run Time
CCV04	1	10:39:00
CCB04	1	10:41:00

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength (nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2025-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.3	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	80.0	250
	Chromium	267.716	1.5	5
	Cobalt	228.616	1.5	5
	Copper	324.752	3.0	10
	Iron	238.204	80.0	250
	Lead	220.353	2.5	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	64.0	250
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	70.0	250
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2025-1**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00676	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.98369	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.06206	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.22134	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.22220	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	-0.01674	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	14.9992	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	-9.49960	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	3.47778	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	-0.18390	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	-0.60088	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.04741	0.32747
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	10.9289
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	-0.07359	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	5.02864	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.33675	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	1.18768	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-4.30004	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.03286	0.12442	0.79397

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Lead	Magnesium	Manganese	Molybdenum	Phosphorous
Aluminum	396.153	0.00000	0.00000	0.00000	46.4438	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-14.0269	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	-2.84596	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-0.32136	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.01216	0.24903	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	-0.02702	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	-2.77286	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	-24.4630	0.00000
Manganese	257.61	0.00000	0.03966	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.01826	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	10.3832	0.00000
Potassium	766.49	0.00000	0.07568	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	13.3443	0.00000
Silver	328.068	0.00000	0.00000	0.28019	-0.03095	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	-8.43314	0.00000
Thallium	190.801	0.00000	0.00000	-2.58065	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.08144	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	-6.48399	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-10.3466	0.00000
Zinc	213.857	0.00000	0.00000	0.06887	-0.04597	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Potassium	Selenium	Silicon	Silver	Sodium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.16274
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.88937	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Strontium	Sulfur	Thallium	Tin	Titanium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-1.82716	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	-1.32991
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	-8.61809	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	6.59640	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	-10.0432
Tin	189.927	0.00000	0.00000	0.00000	0.00000	-3.37234
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.92753
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	-0.56798

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2025-1

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-1.62578	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.63442	0.00000
Beryllium	313.107	-0.30229	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000
Chromium	267.716	0.78601	-0.47146	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.752	-0.82619	0.00000	0.00000
Lead	220.353	0.74521	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.33953	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000
Selenium	196.026	-0.96499	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000
Silver	328.068	-1.22996	-11.9401	0.00000
Sodium	589.592	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-7.37871	0.00000
Tin	189.927	0.00000	0.00000	0.00000
Titanium	334.94	0.40930	0.00000	0.00000
Uranium	409.014	0.00000	-57.5852	0.00000
Vanadium	292.402	-0.67226	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-2025-1

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA4

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Aluminum	20	500000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2025-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

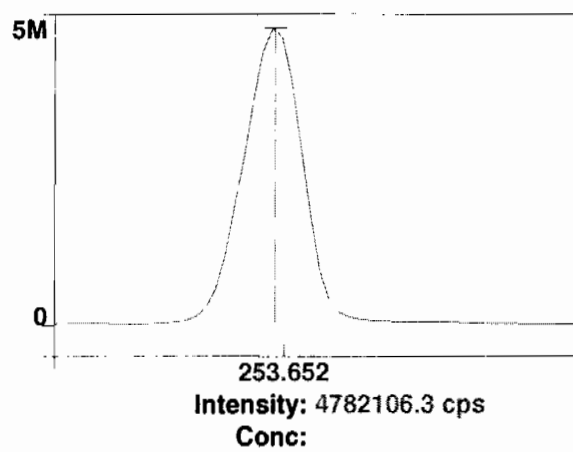
Raw Data

Method: Hg_ReAlign
Result: 042310

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

===== Analysis Begun

Start Time: 3/31/2010 18:36:27

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/31/2010 18:36:30

Analyst:

Data Type: Original

Initial Sample Wt: .

Initial Sample Vol:

Dilution:

Sample Prep Vol:

----- Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	146983.1	146983.1	101 %	18:37:03
1	Al 396.153Radial†	-46.6	-46.3	[0.00] µg/L	18:37:23
1	Ca 317.933Radial†	562.9	558.9	[0.00] µg/L	18:37:23
1	Fe 238.204 Radial†	148.8	147.8	[0.00] µg/L	18:37:23
1	K 766.490 Radial†	1565.6	1554.3	[0.00] µg/L	18:37:03
1	Mg 279.077 IEC†	207.4	205.9	[0.00] µg/L	18:37:23
1	Na 589.592 Radial†	1216.0	1207.3	[0.00] µg/L	18:37:03
1	Sr 421.552†	-110.9	-110.1	[0.00] µg/L	18:37:03
1	Sc 361.383	1704607.6	1704607.6	99.208 %	18:38:25
1	Y 371.029	1018376.3	1018376.3	99.190 %	18:38:25
1	Ag 328.068†	3963.8	3995.4	[0.00] µg/L	18:38:27
1	As 188.979†	-17.7	-17.9	[0.00] µg/L	18:38:48
1	B 249.677†	3489.7	3517.5	[0.00] µg/L	18:38:27
1	Ba 233.527†	-145.9	-147.0	[0.00] µg/L	18:38:48
1	Be 313.107†	-965.4	-973.1	[0.00] µg/L	18:38:27
1	Cd 226.502†	-106.0	-106.8	[0.00] µg/L	18:38:48
1	Co 228.616†	-174.9	-176.3	[0.00] µg/L	18:38:48
1	Cr 267.716†	129.8	130.8	[0.00] µg/L	18:38:48
1	Cu 324.752†	2846.5	2869.3	[0.00] µg/L	18:38:27
1	Mn 257.610†	253.9	255.9	[0.00] µg/L	18:38:48
1	Mo 202.031†	-24.9	-25.1	[0.00] µg/L	18:38:48
1	Ni 231.604†	-72.6	-73.1	[0.00] µg/L	18:38:48
1	P 214.914†	-29.6	-29.8	[0.00] µg/L	18:38:48
1	Pb 220.353†	106.5	107.4	[0.00] µg/L	18:38:48
1	S 181.975 Axial†	102.6	103.4	[0.00] µg/L	18:38:48
1	Sb 206.836†	81.9	82.6	[0.00] µg/L	18:38:48
1	Se 196.026†	14.5	14.6	[0.00] µg/L	18:38:48
1	SiO2†	1812.7	1827.1	[0.00] µg/L	18:38:27
1	Si 251.611†	747.0	752.9	[0.00] µg/L	18:38:27
1	Sn 189.927†	-6.9	-6.9	[0.00] µg/L	18:38:48
1	Ti 334.940†	920.6	928.0	[0.00] µg/L	18:38:27
1	Tl 190.801†	-108.2	-109.0	[0.00] µg/L	18:38:48
1	U 409.014†	-161.2	-162.4	[0.00] µg/L	18:38:27
1	V 292.402†	343.5	346.2	[0.00] µg/L	18:38:27
1	Zn 213.857†	560.7	565.2	[0.00] µg/L	18:38:48
2	Sc RADIAL	145077.9	145077.9	99.4 %	18:37:25
2	Al 396.153Radial†	-80.7	-81.2	[0.00] µg/L	18:37:45
2	Ca 317.933Radial†	555.7	559.0	[0.00] µg/L	18:37:45
2	Fe 238.204 Radial†	152.0	152.9	[0.00] µg/L	18:37:45
2	K 766.490 Radial†	1581.8	1591.1	[0.00] µg/L	18:37:25
2	Mg 279.077 IEC†	207.4	208.6	[0.00] µg/L	18:37:45
2	Na 589.592 Radial†	1309.5	1317.2	[0.00] µg/L	18:37:25
2	Sr 421.552†	-50.0	-50.3	[0.00] µg/L	18:37:25
2	Sc 361.383	1730517.4	1730517.4	100.72 %	18:38:50
2	Y 371.029	1034150.1	1034150.1	100.73 %	18:38:50
2	Ag 328.068†	4314.8	4284.1	[0.00] µg/L	18:38:52
2	As 188.979†	-23.3	-23.2	[0.00] µg/L	18:39:12

2	B 249.677†	3487.4	3462.6	[0.00]	µg/L	18:38:52
2	Ba 233.527†	-138.3	-137.3	[0.00]	µg/L	18:39:12
2	Be 313.107†	-1181.9	-1173.5	[0.00]	µg/L	18:38:52
2	Cd 226.502†	-128.3	-127.3	[0.00]	µg/L	18:39:12
2	Co 228.616†	-207.1	-205.6	[0.00]	µg/L	18:39:12
2	Cr 267.716†	187.0	185.7	[0.00]	µg/L	18:39:12
2	Cu 324.752†	3037.7	3016.1	[0.00]	µg/L	18:38:52
2	Mn 257.610†	235.4	233.7	[0.00]	µg/L	18:39:12
2	Mo 202.031†	-14.8	-14.7	[0.00]	µg/L	18:39:12
2	Ni 231.604†	-77.5	-77.0	[0.00]	µg/L	18:39:12
2	P 214.914†	-7.1	-7.0	[0.00]	µg/L	18:39:12
2	Pb 220.353†	82.7	82.1	[0.00]	µg/L	18:39:12
2	S 181.975 Axial†	101.1	100.4	[0.00]	µg/L	18:39:12
2	Sb 206.836†	84.6	84.0	[0.00]	µg/L	18:39:12
2	Se 196.026†	9.6	9.5	[0.00]	µg/L	18:39:12
2	SiO2†	1764.6	1752.0	[0.00]	µg/L	18:38:52
2	Si 251.611†	909.0	902.5	[0.00]	µg/L	18:38:52
2	Sn 189.927†	4.1	4.0	[0.00]	µg/L	18:39:12
2	Ti 334.940†	1042.4	1035.0	[0.00]	µg/L	18:38:52
2	Tl 190.801†	-124.1	-123.3	[0.00]	µg/L	18:39:12
2	U 409.014†	-390.5	-387.7	[0.00]	µg/L	18:38:52
2	V 292.402†	355.1	352.6	[0.00]	µg/L	18:38:52
2	Zn 213.857†	564.8	560.8	[0.00]	µg/L	18:39:12
3	Sc RADIAL	145728.3	145728.3	99.9	%	18:37:47
3	Al 396.153Radial†	-62.0	-62.1	[0.00]	µg/L	18:38:07
3	Ca 317.933Radial†	563.1	563.9	[0.00]	µg/L	18:38:07
3	Fe 238.204 Radial†	143.5	143.7	[0.00]	µg/L	18:38:07
3	K 766.490 Radial†	1486.8	1488.8	[0.00]	µg/L	18:37:47
3	Mg 279.077 IEC†	157.4	157.6	[0.00]	µg/L	18:38:07
3	Na 589.592 Radial†	1346.0	1347.9	[0.00]	µg/L	18:37:47
3	Sr 421.552†	-245.1	-245.5	[0.00]	µg/L	18:37:47
3	Sc 361.383	1719527.8	1719527.8	100.08	%	18:39:14
3	Y 371.029	1027539.8	1027539.8	100.08	%	18:39:14
3	Ag 328.068†	3997.7	3994.6	[0.00]	µg/L	18:39:16
3	As 188.979†	-20.0	-20.0	[0.00]	µg/L	18:39:36
3	B 249.677†	3540.3	3537.6	[0.00]	µg/L	18:39:16
3	Ba 233.527†	-123.3	-123.2	[0.00]	µg/L	18:39:36
3	Be 313.107†	-1048.2	-1047.4	[0.00]	µg/L	18:39:16
3	Cd 226.502†	-120.5	-120.4	[0.00]	µg/L	18:39:36
3	Co 228.616†	-189.2	-189.0	[0.00]	µg/L	18:39:36
3	Cr 267.716†	219.3	219.2	[0.00]	µg/L	18:39:36
3	Cu 324.752†	3033.6	3031.3	[0.00]	µg/L	18:39:16
3	Mn 257.610†	222.3	222.2	[0.00]	µg/L	18:39:36
3	Mo 202.031†	-20.4	-20.4	[0.00]	µg/L	18:39:36
3	Ni 231.604†	-79.5	-79.4	[0.00]	µg/L	18:39:36
3	P 214.914†	-17.1	-17.1	[0.00]	µg/L	18:39:36
3	Pb 220.353†	69.7	69.7	[0.00]	µg/L	18:39:36
3	S 181.975 Axial†	111.4	111.3	[0.00]	µg/L	18:39:36
3	Sb 206.836†	76.0	76.0	[0.00]	µg/L	18:39:36
3	Se 196.026†	21.7	21.7	[0.00]	µg/L	18:39:36
3	SiO2†	1748.3	1747.0	[0.00]	µg/L	18:39:16
3	Si 251.611†	854.9	854.3	[0.00]	µg/L	18:39:16
3	Sn 189.927†	-0.5	-0.5	[0.00]	µg/L	18:39:36
3	Ti 334.940†	895.3	894.7	[0.00]	µg/L	18:39:16
3	Tl 190.801†	-117.8	-117.8	[0.00]	µg/L	18:39:36
3	U 409.014†	-259.7	-259.5	[0.00]	µg/L	18:39:16
3	V 292.402†	512.9	512.6	[0.00]	µg/L	18:39:16
3	Zn 213.857†	567.7	567.3	[0.00]	µg/L	18:39:36

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1718217.6	13004.50	0.76%	100.00	%
Sc RADIAL	145929.8	968.46	0.66%	100	%
Y 371.029	1026688.7	7921.26	0.77%	100.000	%
Ag 328.068†	4091.4	166.92	4.08%	[0.00]	µg/L
Al 396.153Radial†	-63.2	17.46	27.63%	[0.00]	µg/L
As 188.979†	-20.4	2.68	13.16%	[0.00]	µg/L
B 249.677†	3505.9	38.80	1.11%	[0.00]	µg/L
Ba 233.527†	-135.9	11.99	8.83%	[0.00]	µg/L

Be 313.107†	-1064.7	101.30	9.51%	[0.00]	µg/L
Ca 317.933Radial†	560.6	2.89	0.52%	[0.00]	µg/L
Cd 226.502†	-118.2	10.43	8.83%	[0.00]	µg/L
Co 228.616†	-190.3	14.72	7.73%	[0.00]	µg/L
Cr 267.716†	178.6	44.62	24.99%	[0.00]	µg/L
Cu 324.752†	2972.2	89.48	3.01%	[0.00]	µg/L
Fe 238.204 Radial†	148.1	4.61	3.11%	[0.00]	µg/L
K 766.490 Radial†	1544.8	51.81	3.35%	[0.00]	µg/L
Mg 279.077 IEC†	190.7	28.69	15.04%	[0.00]	µg/L
Mn 257.610†	237.3	17.14	7.23%	[0.00]	µg/L
Mo 202.031†	-20.1	5.18	25.80%	[0.00]	µg/L
Na 589.592 Radial†	1290.8	73.89	5.72%	[0.00]	µg/L
Ni 231.604†	-76.5	3.18	4.16%	[0.00]	µg/L
P 214.914†	-18.0	11.42	63.61%	[0.00]	µg/L
Pb 220.353†	86.4	19.23	22.27%	[0.00]	µg/L
S 181.975 Axial†	105.1	5.63	5.36%	[0.00]	µg/L
Sb 206.836†	80.8	4.27	5.29%	[0.00]	µg/L
Se 196.026†	15.3	6.14	40.18%	[0.00]	µg/L
SiO2†	1775.4	44.90	2.53%	[0.00]	µg/L
Si 251.611†	836.6	76.33	9.12%	[0.00]	µg/L
Sn 189.927†	-1.1	5.51	492.60%	[0.00]	µg/L
Sr 421.552†	-135.3	99.98	73.90%	[0.00]	µg/L
Ti 334.940†	952.5	73.33	7.70%	[0.00]	µg/L
Tl 190.801†	-116.7	7.17	6.15%	[0.00]	µg/L
U 409.014†	-269.9	113.01	41.87%	[0.00]	µg/L
V 292.402†	403.8	94.24	23.34%	[0.00]	µg/L
Zn 213.857†	564.4	3.32	0.59%	[0.00]	µg/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/31/2010 18:39:45
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc RADIAL	144945.8	144945.8	99.3 %	18:40:16
1	K 766.490 Radial†	4177.9	2661.5	[1000] µg/L	18:40:16
1	Sr 421.552†	48790.2	49256.8	[100] µg/L	18:40:16
1	Sc 361.383	1738207.5	1738207.5	101.16 %	18:40:38
1	Y 371.029	1035658.2	1035658.2	100.87 %	18:40:38
1	Ag 328.068†	31505.9	27052.2	[100] µg/L	18:40:40
1	As 188.979†	319.4	336.1	[100] µg/L	18:41:00
1	B 249.677†	10182.7	6559.7	[100] µg/L	18:40:40
1	Ba 233.527†	25238.0	25083.6	[100] µg/L	18:40:40
1	Be 313.107†	372065.7	368851.5	[100] µg/L	18:40:38
1	Cd 226.502†	16206.1	16137.9	[100] µg/L	18:40:40
1	Co 228.616†	8180.0	8276.3	[100] µg/L	18:41:00
1	Cr 267.716†	13182.1	12852.0	[100] µg/L	18:40:40
1	Cu 324.752†	28766.5	25463.5	[100] µg/L	18:40:40
1	Mn 257.610†	84629.1	83418.6	[100] µg/L	18:40:40
1	Mo 202.031†	3388.6	3369.7	[100] µg/L	18:41:00
1	Ni 231.604†	8784.7	8760.2	[100] µg/L	18:40:40
1	P 214.914†	2330.2	2321.4	[500] µg/L	18:41:00
1	Pb 220.353†	1931.7	1823.1	[100] µg/L	18:41:00
1	S 181.975 Axial†	386.6	277.1	[200] µg/L	18:41:00
1	Sb 206.836†	932.6	841.0	[100] µg/L	18:41:00
1	Se 196.026†	288.8	270.2	[100] µg/L	18:41:00
1	SiO2†	12629.3	10708.7	[1069.5] µg/L	18:40:40
1	Si 251.611†	34601.6	33367.1	[500] µg/L	18:40:40
1	Sn 189.927†	1637.3	1619.6	[100] µg/L	18:41:00
1	Ti 334.940†	108213.7	106016.7	[100] µg/L	18:40:40
1	Tl 190.801†	724.1	832.5	[100] µg/L	18:41:00
1	U 409.014†	1714.9	1965.0	[100] µg/L	18:40:40
1	V 292.402†	20866.1	20222.4	[100] µg/L	18:40:40
1	Zn 213.857†	18689.8	17910.4	[100] µg/L	18:40:40
2	Sc RADIAL	144384.1	144384.1	98.9 %	18:40:18
2	K 766.490 Radial†	4099.7	2598.8	[1000] µg/L	18:40:18
2	Sr 421.552†	48913.4	49572.3	[100] µg/L	18:40:18
2	Sc 361.383	1718136.8	1718136.8	99.995 %	18:41:02
2	Y 371.029	1023615.0	1023615.0	99.701 %	18:41:02
2	Ag 328.068†	31474.0	27384.1	[100] µg/L	18:41:04
2	As 188.979†	316.2	336.6	[100] µg/L	18:41:24
2	B 249.677†	10249.3	6743.9	[100] µg/L	18:41:04
2	Ba 233.527†	25403.3	25540.3	[100] µg/L	18:41:04
2	Be 313.107†	368011.0	369093.1	[100] µg/L	18:41:02
2	Cd 226.502†	16403.0	16522.0	[100] µg/L	18:41:04
2	Co 228.616†	8194.1	8384.8	[100] µg/L	18:41:24
2	Cr 267.716†	13299.6	13121.6	[100] µg/L	18:41:04
2	Cu 324.752†	29042.8	26072.0	[100] µg/L	18:41:04
2	Mn 257.610†	85481.9	85248.7	[100] µg/L	18:41:04
2	Mo 202.031†	3415.9	3436.2	[100] µg/L	18:41:24
2	Ni 231.604†	9104.3	9181.2	[100] µg/L	18:41:04
2	P 214.914†	2327.9	2346.0	[500] µg/L	18:41:24
2	Pb 220.353†	1943.3	1857.0	[100] µg/L	18:41:24
2	S 181.975 Axial†	382.9	277.8	[200] µg/L	18:41:24
2	Sb 206.836†	933.1	852.4	[100] µg/L	18:41:24
2	Se 196.026†	282.7	267.4	[100] µg/L	18:41:24
2	SiO2†	12728.6	10953.9	[1069.5] µg/L	18:41:04
2	Si 251.611†	35105.7	34270.8	[500] µg/L	18:41:04
2	Sn 189.927†	1643.4	1644.6	[100] µg/L	18:41:24
2	Ti 334.940†	109258.0	108310.6	[100] µg/L	18:41:04
2	Tl 190.801†	742.2	858.9	[100] µg/L	18:41:24
2	U 409.014†	1747.4	2017.4	[100] µg/L	18:41:04
2	V 292.402†	20863.1	20460.2	[100] µg/L	18:41:04

2	Zn 213.857†	18913.1	18349.6	[100]	µg/L	18:41:04
3	Sc RADIAL	144888.2	144888.2	99.3	%	18:40:20
3	K 766.490 Radial†	4194.1	2679.5	[1000]	µg/L	18:40:20
3	Sr 421.552†	48878.7	49365.4	[100]	µg/L	18:40:20
3	Sc 361.383	1720712.1	1720712.1	100.15	%	18:41:26
3	Y 371.029	1025149.2	1025149.2	99.850	%	18:41:26
3	Ag 328.068†	30653.6	26517.7	[100]	µg/L	18:41:28
3	As 188.979†	311.4	331.3	[100]	µg/L	18:41:48
3	B 249.677†	10032.3	6511.9	[100]	µg/L	18:41:28
3	Ba 233.527†	24571.6	24671.8	[100]	µg/L	18:41:28
3	Be 313.107†	369363.0	369892.2	[100]	µg/L	18:41:26
3	Cd 226.502†	15800.2	15895.5	[100]	µg/L	18:41:28
3	Co 228.616†	7941.4	8120.2	[100]	µg/L	18:41:48
3	Cr 267.716†	12878.6	12681.3	[100]	µg/L	18:41:28
3	Cu 324.752†	28237.0	25223.9	[100]	µg/L	18:41:28
3	Mn 257.610†	82709.3	82352.2	[100]	µg/L	18:41:28
3	Mo 202.031†	3317.5	3332.8	[100]	µg/L	18:41:48
3	Ni 231.604†	8579.1	8643.1	[100]	µg/L	18:41:28
3	P 214.914†	2246.6	2261.3	[500]	µg/L	18:41:48
3	Pb 220.353†	1888.8	1799.7	[100]	µg/L	18:41:48
3	S 181.975 Axial†	370.3	264.7	[200]	µg/L	18:41:48
3	Sb 206.836†	914.8	832.6	[100]	µg/L	18:41:48
3	Se 196.026†	294.0	278.3	[100]	µg/L	18:41:48
3	SiO2†	12365.6	10572.3	[1069.5]	µg/L	18:41:28
3	Si 251.611†	33612.6	32727.3	[500]	µg/L	18:41:28
3	Sn 189.927†	1589.9	1588.8	[100]	µg/L	18:41:48
3	Ti 334.940†	106005.7	104899.5	[100]	µg/L	18:41:28
3	Tl 190.801†	699.9	815.6	[100]	µg/L	18:41:48
3	U 409.014†	1493.0	1760.7	[100]	µg/L	18:41:28
3	V 292.402†	20303.9	19870.7	[100]	µg/L	18:41:28
3	Zn 213.857†	18249.8	17659.0	[100]	µg/L	18:41:28

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1725685.5	10920.55	0.63%	100.43	%
Sc RADIAL	144739.3	309.02	0.21%	99.2	%
Y 371.029	1028140.8	6555.30	0.64%	100.14	%
Ag 328.068†	26984.7	437.11	1.62%	[100]	µg/L
As 188.979†	334.7	2.93	0.88%	[100]	µg/L
B 249.677†	6605.2	122.52	1.85%	[100]	µg/L
Ba 233.527†	25098.6	434.45	1.73%	[100]	µg/L
Be 313.107†	369278.9	544.69	0.15%	[100]	µg/L
Cd 226.502†	16185.1	315.91	1.95%	[100]	µg/L
Co 228.616†	8260.4	133.02	1.61%	[100]	µg/L
Cr 267.716†	12885.0	222.00	1.72%	[100]	µg/L
Cu 324.752†	25586.4	437.23	1.71%	[100]	µg/L
K 766.490 Radial†	2646.6	42.33	1.60%	[1000]	µg/L
Mn 257.610†	83673.1	1464.94	1.75%	[100]	µg/L
Mo 202.031†	3379.6	52.39	1.55%	[100]	µg/L
Ni 231.604†	8861.5	282.97	3.19%	[100]	µg/L
P 214.914†	2309.6	43.55	1.89%	[500]	µg/L
Pb 220.353†	1826.6	28.83	1.58%	[100]	µg/L
S 181.975 Axial†	273.2	7.39	2.70%	[200]	µg/L
Sb 206.836†	842.0	9.91	1.18%	[100]	µg/L
Se 196.026†	272.0	5.61	2.06%	[100]	µg/L
SiO2†	10744.9	193.37	1.80%	[1069.5]	µg/L
Si 251.611†	33455.1	775.50	2.32%	[500]	µg/L
Sn 189.927†	1617.7	27.99	1.73%	[100]	µg/L
Sr 421.552†	49398.1	160.32	0.32%	[100]	µg/L
Ti 334.940†	106408.9	1739.07	1.63%	[100]	µg/L
Tl 190.801†	835.7	21.85	2.61%	[100]	µg/L
U 409.014†	1914.4	135.63	7.09%	[100]	µg/L
V 292.402†	20184.4	296.62	1.47%	[100]	µg/L
Zn 213.857†	17973.0	349.52	1.94%	[100]	µg/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/31/2010 18:41:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Rep#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	139976.0	139976.0	95.9 %		18:42:27
1	Al 396.153Radial†	25919.4	27085.0	[5000] µg/L		18:42:27
1	Ca 317.933Radial†	87385.1	90541.3	[5000] µg/L		18:42:27
1	K 766.490 Radial†	14430.7	13499.7	[5000] µg/L		18:42:27
1	Mg 279.077 IEC†	13338.9	13715.6	[5000] µg/L		18:42:27
1	Sr 421.552†	229015.2	238891.4	[500] µg/L		18:42:25
1	Sc 361.383	1645400.7	1645400.7	95.762 %		18:42:40
1	Y 371.029	975342.9	975342.9	94.999 %		18:42:40
1	Ag 328.068†	131294.3	133013.3	[500] µg/L		18:42:40
1	As 188.979†	1571.6	1661.5	[500] µg/L		18:43:00
1	B 249.677†	35172.1	33222.7	[500] µg/L		18:42:40
1	Ba 233.527†	117348.5	122677.6	[500] µg/L		18:42:40
1	Be 313.107†	1744827.1	1823108.9	[500] µg/L		18:42:40
1	Cd 226.502†	75312.3	78763.4	[500] µg/L		18:42:40
1	Co 228.616†	38245.0	40127.8	[500] µg/L		18:42:40
1	Cr 267.716†	60545.4	63046.3	[500] µg/L		18:42:40
1	Cu 324.752†	123884.9	126395.2	[500] µg/L		18:42:40
1	Mn 257.610†	385575.1	402401.4	[500] µg/L		18:42:40
1	Mo 202.031†	16410.2	17156.5	[500] µg/L		18:43:00
1	Ni 231.604†	41126.2	43022.7	[500] µg/L		18:42:40
1	P 214.914†	11303.9	11822.1	[2500] µg/L		18:43:00
1	Pb 220.353†	8787.6	9090.2	[500] µg/L		18:43:00
1	S 181.975 Axial†	1381.6	1337.7	[1000] µg/L		18:43:00
1	Sb 206.836†	4130.5	4232.5	[500] µg/L		18:43:00
1	Se 196.026†	1340.7	1384.8	[500] µg/L		18:43:00
1	SiO2†	54250.1	54875.6	[5347.5] µg/L		18:42:40
1	Si 251.611†	163679.1	170086.1	[2500] µg/L		18:42:40
1	Sn 189.927†	7746.5	8090.4	[500] µg/L		18:43:00
1	Ti 334.940†	510093.6	531715.2	[500] µg/L		18:42:40
1	Tl 190.801†	3808.0	4093.2	[500] µg/L		18:43:00
1	U 409.014†	6985.6	7564.6	[500] µg/L		18:42:40
1	V 292.402†	96986.0	100874.3	[500] µg/L		18:42:40
1	Zn 213.857†	84527.8	87704.2	[500] µg/L		18:42:40
2	Sc RADIAL	141210.3	141210.3	96.8 %		18:42:31
2	Al 396.153Radial†	26176.8	27114.9	[5000] µg/L		18:42:31
2	Ca 317.933Radial†	88277.8	90667.6	[5000] µg/L		18:42:31
2	K 766.490 Radial†	14658.6	13603.8	[5000] µg/L		18:42:31
2	Mg 279.077 IEC†	13508.7	13769.5	[5000] µg/L		18:42:31
2	Sr 421.552†	232944.0	240864.6	[500] µg/L		18:42:29
2	Sc 361.383	1687203.1	1687203.1	98.195 %		18:43:03
2	Y 371.029	998510.1	998510.1	97.255 %		18:43:03
2	Ag 328.068†	134607.0	132990.0	[500] µg/L		18:43:03
2	As 188.979†	1586.5	1636.0	[500] µg/L		18:43:23
2	B 249.677†	36433.6	33597.5	[500] µg/L		18:43:03
2	Ba 233.527†	121232.8	123597.1	[500] µg/L		18:43:03
2	Be 313.107†	1799842.1	1833991.9	[500] µg/L		18:43:03
2	Cd 226.502†	78158.8	79713.7	[500] µg/L		18:43:03
2	Co 228.616†	39721.5	40642.0	[500] µg/L		18:43:03
2	Cr 267.716†	62227.1	63192.4	[500] µg/L		18:43:03
2	Cu 324.752†	127576.9	126949.9	[500] µg/L		18:43:03
2	Mn 257.610†	397913.1	404990.4	[500] µg/L		18:43:03
2	Mo 202.031†	16475.5	16798.5	[500] µg/L		18:43:23
2	Ni 231.604†	42320.9	43175.4	[500] µg/L		18:43:03
2	P 214.914†	11321.5	11547.6	[2500] µg/L		18:43:23
2	Pb 220.353†	8841.9	8918.0	[500] µg/L		18:43:23
2	S 181.975 Axial†	1404.5	1325.2	[1000] µg/L		18:43:23
2	Sb 206.836†	4150.6	4146.1	[500] µg/L		18:43:23
2	Se 196.026†	1352.6	1362.2	[500] µg/L		18:43:23
2	SiO2†	55913.1	55165.5	[5347.5] µg/L		18:43:03

2	Si 251.611†	169027.8	171298.3	[2500] µg/L	18:43:03
2	Sn 189.927†	7793.7	7938.1	[500] µg/L	18:43:23
2	Ti 334.940†	524282.8	532967.8	[500] µg/L	18:43:03
2	Tl 190.801†	3829.1	4016.1	[500] µg/L	18:43:23
2	U 409.014†	7204.4	7606.8	[500] µg/L	18:43:03
2	V 292.402†	99476.3	100901.1	[500] µg/L	18:43:03
2	Zn 213.857†	87574.3	88619.7	[500] µg/L	18:43:03
3	Sc RADIAL	139845.9	139845.9	95.8 %	18:42:35
3	Al 396.153Radial†	25970.7	27163.8	[5000] µg/L	18:42:35
3	Ca 317.933Radial†	87048.7	90275.0	[5000] µg/L	18:42:35
3	K 766.490 Radial†	14322.7	13401.0	[5000] µg/L	18:42:35
3	Mg 279.077 IEC†	13177.9	13560.5	[5000] µg/L	18:42:35
3	Sr 421.552†	232490.3	242739.9	[500] µg/L	18:42:33
3	Sc 361.383	1671427.9	1671427.9	97.277 %	18:43:26
3	Y 371.029	990579.4	990579.4	96.483 %	18:43:26
3	Ag 328.068†	132744.3	132368.9	[500] µg/L	18:43:26
3	As 188.979†	1563.8	1627.9	[500] µg/L	18:43:46
3	B 249.677†	35824.9	33321.9	[500] µg/L	18:43:26
3	Ba 233.527†	119283.9	122759.0	[500] µg/L	18:43:26
3	Be 313.107†	1775117.0	1825874.0	[500] µg/L	18:43:26
3	Cd 226.502†	77044.3	79319.2	[500] µg/L	18:43:26
3	Co 228.616†	39106.1	40391.2	[500] µg/L	18:43:26
3	Cr 267.716†	61510.3	63053.6	[500] µg/L	18:43:26
3	Cu 324.752†	125724.5	126271.8	[500] µg/L	18:43:26
3	Mn 257.610†	391730.1	402458.9	[500] µg/L	18:43:26
3	Mo 202.031†	16447.7	16928.2	[500] µg/L	18:43:46
3	Ni 231.604†	41833.4	43081.0	[500] µg/L	18:43:26
3	P 214.914†	11306.9	11641.3	[2500] µg/L	18:43:46
3	Pb 220.353†	8817.9	8978.4	[500] µg/L	18:43:46
3	S 181.975 Axial†	1403.6	1337.8	[1000] µg/L	18:43:46
3	Sb 206.836†	4107.1	4141.3	[500] µg/L	18:43:46
3	Se 196.026†	1356.4	1379.1	[500] µg/L	18:43:46
3	SiO2†	55098.9	54865.9	[5347.5] µg/L	18:43:26
3	Si 251.611†	166541.0	170366.5	[2500] µg/L	18:43:26
3	Sn 189.927†	7776.3	7995.1	[500] µg/L	18:43:46
3	Ti 334.940†	517688.6	531228.1	[500] µg/L	18:43:26
3	Tl 190.801†	3841.1	4065.3	[500] µg/L	18:43:46
3	U 409.014†	7259.9	7733.0	[500] µg/L	18:43:26
3	V 292.402†	98243.7	100590.2	[500] µg/L	18:43:26
3	Zn 213.857†	86383.4	88237.2	[500] µg/L	18:43:26

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1668010.6	21109.69	1.27%	97.078 %	
Sc RADIAL	140344.1	753.01	0.54%	96.2 %	
Y 371.029	988144.1	11774.03	1.19%	96.246 %	
Ag 328.068†	132790.8	365.49	0.28%	[500] µg/L	
Al 396.153Radial†	27121.2	39.74	0.15%	[5000] µg/L	
As 188.979†	1641.8	17.55	1.07%	[500] µg/L	
B 249.677†	33380.7	194.18	0.58%	[500] µg/L	
Ba 233.527†	123011.2	509.04	0.41%	[500] µg/L	
Be 313.107†	1827658.3	5656.67	0.31%	[500] µg/L	
Ca 317.933Radial†	90494.7	200.40	0.22%	[5000] µg/L	
Cd 226.502†	79265.5	477.42	0.60%	[500] µg/L	
Co 228.616†	40387.0	257.10	0.64%	[500] µg/L	
Cr 267.716†	63097.4	82.35	0.13%	[500] µg/L	
Cu 324.752†	126538.9	361.18	0.29%	[500] µg/L	
K 766.490 Radial†	13501.5	101.39	0.75%	[5000] µg/L	
Mg 279.077 IEC†	13681.9	108.49	0.79%	[5000] µg/L	
Mn 257.610†	403283.6	1478.44	0.37%	[500] µg/L	
Mo 202.031†	16961.0	181.25	1.07%	[500] µg/L	
Ni 231.604†	43093.0	77.04	0.18%	[500] µg/L	
P 214.914†	11670.4	139.54	1.20%	[2500] µg/L	
Pb 220.353†	8995.5	87.32	0.97%	[500] µg/L	
S 181.975 Axial†	1333.6	7.24	0.54%	[1000] µg/L	
Sb 206.836†	4173.3	51.32	1.23%	[500] µg/L	
Se 196.026†	1375.4	11.73	0.85%	[500] µg/L	
SiO2†	54969.0	170.25	0.31%	[5347.5] µg/L	
Si 251.611†	170583.6	634.61	0.37%	[2500] µg/L	

Sn 189.927†	8007.9	76.96	0.96%	[500] µg/L
Sr 421.552†	240832.0	1924.44	0.80%	[500] µg/L
Ti 334.940†	531970.4	897.45	0.17%	[500] µg/L
Tl 190.801†	4058.2	39.03	0.96%	[500] µg/L
U 409.014†	7634.8	87.65	1.15%	[500] µg/L
V 292.402†	100788.5	172.29	0.17%	[500] µg/L
Zn 213.857†	88187.0	459.83	0.52%	[500] µg/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/31/2010 18:43:55
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc RADIAL	140246.3	140246.3	96.1	%	18:44:26
1	Al 396.153Radial†	52689.3	54887.7	[10000]	µg/L	18:44:26
1	Ca 317.933Radial†	176157.7	182735.9	[10000]	µg/L	18:44:26
1	Fe 238.204 Radial†	157034.9	163250.7	[10000]	µg/L	18:44:26
1	K 766.490 Radial†	27864.8	27449.2	[10000]	µg/L	18:44:26
1	Mg 279.077 IEC†	26628.7	27517.1	[10000]	µg/L	18:44:26
1	Na 589.592 Radial†	71367.5	72968.9	[10000]	µg/L	18:44:26
1	Sr 421.552†	465887.4	484902.9	[1000]	µg/L	18:44:24
1	Sc 361.383	1660058.9	1660058.9	96.615	%	18:44:39
1	Y 371.029	978012.9	978012.9	95.259	%	18:44:39
1	Ag 328.068†	268618.1	273937.5	[1000]	µg/L	18:44:41
1	As 188.979†	3193.8	3326.1	[1000]	µg/L	18:45:01
1	B 249.677†	69762.5	68700.7	[1000]	µg/L	18:44:41
1	Ba 233.527†	242316.3	250941.5	[1000]	µg/L	18:44:41
1	Be 313.107†	3555578.2	3681209.5	[1000]	µg/L	18:44:39
1	Cd 226.502†	156604.8	162209.5	[1000]	µg/L	18:44:41
1	Co 228.616†	78951.1	81907.4	[1000]	µg/L	18:44:41
1	Cr 267.716†	125005.7	129206.6	[1000]	µg/L	18:44:41
1	Cu 324.752†	255303.1	261275.2	[1000]	µg/L	18:44:41
1	Mn 257.610†	781879.7	809034.9	[1000]	µg/L	18:44:39
1	Mo 202.031†	33228.9	34413.1	[1000]	µg/L	18:44:41
1	Ni 231.604†	84765.4	87811.6	[1000]	µg/L	18:44:41
1	P 214.914†	22636.2	23447.2	[5000]	µg/L	18:45:01
1	Pb 220.353†	17407.6	17931.0	[1000]	µg/L	18:45:01
1	S 181.975 Axial†	2706.2	2696.0	[2000]	µg/L	18:45:01
1	Sb 206.836†	8264.7	8473.4	[1000]	µg/L	18:45:01
1	Se 196.026†	2709.4	2789.0	[1000]	µg/L	18:45:01
1	SiO2†	108329.2	110349.0	[10695]	µg/L	18:44:41
1	Si 251.611†	331285.5	342055.2	[5000]	µg/L	18:44:41
1	Sn 189.927†	15541.6	16087.2	[1000]	µg/L	18:45:01
1	Ti 334.940†	1037686.9	1073088.8	[1000]	µg/L	18:44:39
1	Tl 190.801†	7778.7	8167.9	[1000]	µg/L	18:45:01
1	U 409.014†	16858.3	17718.8	[1000]	µg/L	18:44:41
1	V 292.402†	201478.5	208133.3	[1000]	µg/L	18:44:41
1	Zn 213.857†	174510.7	180060.2	[1000]	µg/L	18:44:41
2	Sc RADIAL	138844.4	138844.4	95.1	%	18:44:30
2	Al 396.153Radial†	52161.3	54886.4	[10000]	µg/L	18:44:30
2	Ca 317.933Radial†	173493.6	181786.6	[10000]	µg/L	18:44:30
2	Fe 238.204 Radial†	154887.4	162643.3	[10000]	µg/L	18:44:30
2	K 766.490 Radial†	27455.0	27311.3	[10000]	µg/L	18:44:30
2	Mg 279.077 IEC†	26420.5	27578.1	[10000]	µg/L	18:44:30
2	Na 589.592 Radial†	70508.9	72816.3	[10000]	µg/L	18:44:30
2	Sr 421.552†	460810.9	484461.8	[1000]	µg/L	18:44:28
2	Sc 361.383	1689699.6	1689699.6	98.340	%	18:45:04
2	Y 371.029	993860.1	993860.1	96.802	%	18:45:04
2	Ag 328.068†	266910.5	267323.9	[1000]	µg/L	18:45:06
2	As 188.979†	3218.4	3293.1	[1000]	µg/L	18:45:26
2	B 249.677†	69508.7	67175.9	[1000]	µg/L	18:45:06
2	Ba 233.527†	241134.5	245340.1	[1000]	µg/L	18:45:06
2	Be 313.107†	3627090.7	3689371.8	[1000]	µg/L	18:45:04
2	Cd 226.502†	155509.2	158252.0	[1000]	µg/L	18:45:06
2	Co 228.616†	78490.7	80005.8	[1000]	µg/L	18:45:06
2	Cr 267.716†	124369.4	126289.8	[1000]	µg/L	18:45:06
2	Cu 324.752†	253180.3	254481.2	[1000]	µg/L	18:45:06
2	Mn 257.610†	797903.6	811133.0	[1000]	µg/L	18:45:04
2	Mo 202.031†	33052.4	33630.3	[1000]	µg/L	18:45:06
2	Ni 231.604†	84350.1	85850.2	[1000]	µg/L	18:45:06
2	P 214.914†	22849.9	23253.5	[5000]	µg/L	18:45:26
2	Pb 220.353†	17581.2	17791.6	[1000]	µg/L	18:45:26

2	S 181.975 Axial†	2749.5	2690.8	[2000]	µg/L	18:45:26
2	Sb 206.836†	8294.0	8353.2	[1000]	µg/L	18:45:26
2	Se 196.026†	2710.1	2740.6	[1000]	µg/L	18:45:26
2	SiO2†	107785.0	107828.8	[10695]	µg/L	18:45:06
2	Si 251.611†	329317.5	334039.0	[5000]	µg/L	18:45:06
2	Sn 189.927†	15680.3	15946.1	[1000]	µg/L	18:45:26
2	Ti 334.940†	1057357.1	1074250.2	[1000]	µg/L	18:45:04
2	Tl 190.801†	7829.0	8077.8	[1000]	µg/L	18:45:26
2	U 409.014†	16641.8	17192.5	[1000]	µg/L	18:45:06
2	V 292.402†	200063.6	203036.4	[1000]	µg/L	18:45:06
2	Zn 213.857†	173774.1	176142.5	[1000]	µg/L	18:45:06
3	Sc RADIAL	142431.7	142431.7	97.6	%	18:44:34
3	Al 396.153Radial†	53146.2	54514.7	[10000]	µg/L	18:44:34
3	Ca 317.933Radial†	178392.5	182213.1	[10000]	µg/L	18:44:34
3	Fe 238.204 Radial†	159216.9	162979.1	[10000]	µg/L	18:44:34
3	K 766.490 Radial†	28289.6	27439.6	[10000]	µg/L	18:44:34
3	Mg 279.077 IEC†	27285.4	27764.8	[10000]	µg/L	18:44:34
3	Na 589.592 Radial†	72542.7	73033.5	[10000]	µg/L	18:44:34
3	Sr 421.552†	461335.7	472801.1	[1000]	µg/L	18:44:32
3	Sc 361.383	1671450.9	1671450.9	97.278	%	18:45:29
3	Y 371.029	984698.6	984698.6	95.910	%	18:45:29
3	Ag 328.068†	268839.9	272270.6	[1000]	µg/L	18:45:31
3	As 188.979†	3207.1	3317.1	[1000]	µg/L	18:45:51
3	B 249.677†	69920.1	68370.5	[1000]	µg/L	18:45:31
3	Ba 233.527†	242785.5	249714.4	[1000]	µg/L	18:45:31
3	Be 313.107†	3559181.4	3659831.0	[1000]	µg/L	18:45:29
3	Cd 226.502†	156473.3	160969.5	[1000]	µg/L	18:45:31
3	Co 228.616†	79020.9	81422.2	[1000]	µg/L	18:45:31
3	Cr 267.716†	125294.1	128621.2	[1000]	µg/L	18:45:31
3	Cu 324.752†	255275.0	259445.3	[1000]	µg/L	18:45:31
3	Mn 257.610†	783171.7	804847.3	[1000]	µg/L	18:45:29
3	Mo 202.031†	33174.1	34122.4	[1000]	µg/L	18:45:31
3	Ni 231.604†	84877.1	87328.4	[1000]	µg/L	18:45:31
3	P 214.914†	22811.2	23467.5	[5000]	µg/L	18:45:51
3	Pb 220.353†	17557.7	17962.6	[1000]	µg/L	18:45:51
3	S 181.975 Axial†	2739.9	2711.5	[2000]	µg/L	18:45:51
3	Sb 206.836†	8307.3	8458.9	[1000]	µg/L	18:45:51
3	Se 196.026†	2720.6	2781.4	[1000]	µg/L	18:45:51
3	SiO2†	108495.7	109756.0	[10695]	µg/L	18:45:31
3	Si 251.611†	331529.5	339969.0	[5000]	µg/L	18:45:31
3	Sn 189.927†	15666.1	16105.6	[1000]	µg/L	18:45:51
3	Ti 334.940†	1040566.4	1068728.6	[1000]	µg/L	18:45:29
3	Tl 190.801†	7842.2	8178.3	[1000]	µg/L	18:45:51
3	U 409.014†	16964.7	17709.3	[1000]	µg/L	18:45:31
3	V 292.402†	201223.5	206449.9	[1000]	µg/L	18:45:31
3	Zn 213.857†	174624.2	178945.7	[1000]	µg/L	18:45:31

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1673736.5	14951.98	0.89%	97.411 %
Sc RADIAL	140507.5	1807.88	1.29%	96.3 %
Y 371.029	985523.8	7955.77	0.81%	95.991 %
Ag 328.068†	271177.3	3439.65	1.27%	[1000] µg/L
Al 396.153Radial†	54762.9	214.99	0.39%	[10000] µg/L
As 188.979†	3312.1	17.04	0.51%	[1000] µg/L
B 249.677†	68082.4	802.18	1.18%	[1000] µg/L
Ba 233.527†	248665.4	2944.35	1.18%	[1000] µg/L
Be 313.107†	3676804.1	15255.21	0.41%	[1000] µg/L
Ca 317.933Radial†	182245.2	475.46	0.26%	[10000] µg/L
Cd 226.502†	160477.0	2024.24	1.26%	[1000] µg/L
Co 228.616†	81111.8	988.08	1.22%	[1000] µg/L
Cr 267.716†	128039.2	1543.01	1.21%	[1000] µg/L
Cu 324.752†	258400.5	3515.45	1.36%	[1000] µg/L
Fe 238.204 Radial†	162957.7	304.26	0.19%	[10000] µg/L
K 766.490 Radial†	27400.1	77.00	0.28%	[10000] µg/L
Mg 279.077 IEC†	27620.0	129.06	0.47%	[10000] µg/L
Mn 257.610†	808338.4	3200.20	0.40%	[1000] µg/L
Mo 202.031†	34055.3	395.69	1.16%	[1000] µg/L
Na 589.592 Radial†	72939.6	111.55	0.15%	[10000] µg/L

Ni 231.604†	86996.7	1021.87	1.17%	[1000]	µg/L
P 214.914†	23389.4	118.12	0.51%	[5000]	µg/L
Pb 220.353†	17895.1	91.02	0.51%	[1000]	µg/L
S 181.975 Axial†	2699.4	10.77	0.40%	[2000]	µg/L
Sb 206.836†	8428.5	65.64	0.78%	[1000]	µg/L
Se 196.026†	2770.3	26.05	0.94%	[1000]	µg/L
SiO2†	109311.3	1317.66	1.21%	[10695]	µg/L
Si 251.611†	338687.7	4158.85	1.23%	[5000]	µg/L
Sn 189.927†	16046.3	87.25	0.54%	[1000]	µg/L
Sr 421.552†	480721.9	6863.20	1.43%	[1000]	µg/L
Ti 334.940†	1072022.5	2911.16	0.27%	[1000]	µg/L
Tl 190.801†	8141.3	55.30	0.68%	[1000]	µg/L
U 409.014†	17540.2	301.14	1.72%	[1000]	µg/L
V 292.402†	205873.2	2596.95	1.26%	[1000]	µg/L
Zn 213.857†	178382.8	2018.56	1.13%	[1000]	µg/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 3/31/2010 18:45:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	139343.3	139343.3	95.5 %		18:46:28
1	Al 396.153Radial†	256543.2	268732.8	[50000] µg/L		18:46:28
1	Ca 317.933Radial†	856588.9	896517.6	[50000] µg/L		18:46:28
1	Fe 238.204 Radial†	309603.0	324089.2	[20000] µg/L		18:46:28
1	Mg 279.077 IEC†	128261.6	134133.6	[50000] µg/L		18:46:28
1	Na 589.592 Radial†	141053.4	146429.9	[20000] µg/L		18:46:28
1	Sc 361.383	1636602.8	1636602.8	95.250 %		18:46:50
1	Y 371.029	965973.5	965973.5	94.086 %		18:46:50
2	Sc RADIAL	137624.0	137624.0	94.3 %		18:46:30
2	Al 396.153Radial†	254363.4	269777.6	[50000] µg/L		18:46:30
2	Ca 317.933Radial†	846244.8	896755.8	[50000] µg/L		18:46:30
2	Fe 238.204 Radial†	305781.9	324087.9	[20000] µg/L		18:46:30
2	Mg 279.077 IEC†	126264.9	133694.4	[50000] µg/L		18:46:30
2	Na 589.592 Radial†	139489.2	146616.7	[20000] µg/L		18:46:30
2	Sc 361.383	1622381.6	1622381.6	94.422 %		18:46:53
2	Y 371.029	956849.7	956849.7	93.198 %		18:46:53
3	Sc RADIAL	137980.0	137980.0	94.6 %		18:46:32
3	Al 396.153Radial†	255245.7	270015.0	[50000] µg/L		18:46:32
3	Ca 317.933Radial†	849307.2	897679.9	[50000] µg/L		18:46:32
3	Fe 238.204 Radial†	306725.7	324249.8	[20000] µg/L		18:46:32
3	Mg 279.077 IEC†	127087.0	134218.4	[50000] µg/L		18:46:32
3	Na 589.592 Radial†	139780.8	146543.6	[20000] µg/L		18:46:32
3	Sc 361.383	1649813.3	1649813.3	96.019 %		18:46:56
3	Y 371.029	972430.3	972430.3	94.715 %		18:46:56

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	1636265.9	13718.97	0.84%	95.230 %	
Sc RADIAL	138315.8	907.47	0.66%	94.8 %	
Y 371.029	965084.5	7828.26	0.81%	94.000 %	
Al 396.153Radial†	269508.5	682.17	0.25%	[50000] µg/L	
Ca 317.933Radial†	896984.4	613.95	0.07%	[50000] µg/L	
Fe 238.204 Radial†	324142.3	93.07	0.03%	[20000] µg/L	
Mg 279.077 IEC†	134015.5	281.29	0.21%	[50000] µg/L	
Na 589.592 Radial†	146530.1	94.09	0.06%	[20000] µg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	270.1	0.00000	0.999966	
Al 396.153Radial	3	Lin Thru 0	0.0	5.394	0.00000	0.999995	
As 188.979	3	Lin Thru 0	0.0	3.307	0.00000	0.999994	
B 249.677	3	Lin Thru 0	0.0	67.80	0.00000	0.999967	
Ba 233.527	3	Lin Thru 0	0.0	248.2	0.00000	0.999990	
Be 313.107	3	Lin Thru 0	0.0	3673	0.00000	0.999997	
Ca 317.933Radial	3	Lin Thru 0	0.0	17.95	0.00000	0.999995	
Cd 226.502	3	Lin Thru 0	0.0	160.1	0.00000	0.999988	
Co 228.616	3	Lin Thru 0	0.0	81.06	0.00000	0.999997	
Cr 267.716	3	Lin Thru 0	0.0	127.7	0.00000	0.999983	
Cu 324.752	3	Lin Thru 0	0.0	257.3	0.00000	0.999966	
Fe 238.204 Radia	2	Lin Thru 0	0.0	16.22	0.00000	0.999998	
K 766.490 Radial	3	Lin Thru 0	0.0	2.731	0.00000	0.999979	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.684	0.00000	0.999981	
Mn 257.610	3	Lin Thru 0	0.0	808.2	0.00000	0.999995	
Mo 202.031	3	Lin Thru 0	0.0	34.03	0.00000	0.999999	
Na 589.592 Radia	2	Lin Thru 0	0.0	7.320	0.00000	0.999998	

Ni 231.604	3	Lin Thru 0	0.0	86.85	0.00000	0.999991
P 214.914	3	Lin Thru 0	0.0	4.675	0.00000	0.999999
Pb 220.353	3	Lin Thru 0	0.0	17.92	0.00000	0.999996
S 181.975 Axial	3	Lin Thru 0	0.0	1.347	0.00000	0.999988
Sb 206.836	3	Lin Thru 0	0.0	8.412	0.00000	0.999992
Se 196.026	3	Lin Thru 0	0.0	2.766	0.00000	0.999995
SiO2	3	Lin Thru 0	0.0	10.23	0.00000	0.999996
Si 251.611	3	Lin Thru 0	0.0	67.83	0.00000	0.999995
Sn 189.927	3	Lin Thru 0	0.0	16.04	0.00000	0.999999
Sr 421.552	3	Lin Thru 0	0.0	481.0	0.00000	0.999997
Ti 334.940	3	Lin Thru 0	0.0	1070	0.00000	0.999995
Tl 190.801	3	Lin Thru 0	0.0	8.138	0.00000	0.999996
U 409.014	3	Lin Thru 0	0.0	17.10	0.00000	0.998547
V 292.402	3	Lin Thru 0	0.0	205.0	0.00000	0.999964
Zn 213.857	3	Lin Thru 0	0.0	178.0	0.00000	0.999990

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/31/2010 18:47:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142728.0	142728.0	97.8 %		18:47:35
1	Al 396.153Radial†	27196.1	27869.4	5141.6 µg/L	5141.6 ppb	18:47:35
1	Ca 317.933Radial†	89393.1	90837.9	5060.0 µg/L	5060.0 ppb	18:47:35
1	Fe 238.204 Radial†	80412.9	82068.7	5058.2 µg/L	5058.2 ppb	18:47:35
1	K 766.490 Radial†	8352.4	6995.0	2558.1 µg/L	2558.1 ppb	18:47:35
1	Mg 279.077 IEC†	14148.2	14274.9	5327.6 µg/L	5327.6 ppb	18:47:35
1	Na 589.592 Radial†	19150.9	18289.7	2496.3 µg/L	2496.3 ppb	18:47:35
1	Sr 421.552†	250356.1	256107.6	532.39 µg/L	532.39 ppb	18:47:33
1	Sc 361.383	1677195.1	1677195.1	97.612 %		18:47:48
1	Y 371.029	995806.6	995806.6	96.992 %		18:47:48
1	Ag 328.068†	70215.3	67841.3	257.54 µg/L	257.54 ppb	18:47:48
1	As 188.979†	1526.8	1584.5	486.58 µg/L	486.58 ppb	18:47:50
1	B 249.677†	37075.8	34476.8	506.67 µg/L	506.67 ppb	18:47:48
1	Ba 233.527†	122696.8	125833.7	507.50 µg/L	507.50 ppb	18:47:48
1	Be 313.107†	933729.3	957632.1	260.88 µg/L	260.88 ppb	18:47:48
1	Cd 226.502†	77657.9	79675.5	497.37 µg/L	497.37 ppb	18:47:48
1	Co 228.616†	40998.4	42191.5	520.85 µg/L	520.85 ppb	18:47:50
1	Cr 267.716†	62225.7	63569.1	497.75 µg/L	497.75 ppb	18:47:50
1	Cu 324.752†	130541.7	130762.4	509.73 µg/L	509.73 ppb	18:47:48
1	Mn 257.610†	407677.2	417411.4	516.24 µg/L	516.24 ppb	18:47:48
1	Mo 202.031†	18097.1	18559.8	545.92 µg/L	545.92 ppb	18:47:50
1	Ni 231.604†	43663.1	44807.6	515.93 µg/L	515.93 ppb	18:47:50
1	P 214.914†	11760.6	12066.2	2571.9 µg/L	2571.9 ppb	18:47:50
1	Pb 220.353†	9089.2	9225.1	516.68 µg/L	516.68 ppb	18:47:50
1	S 181.975 Axial†	3477.6	3457.6	2572.2 µg/L	2572.2 ppb	18:47:50
1	Sb 206.836†	4253.6	4276.8	510.30 µg/L	510.30 ppb	18:47:50
1	Se 196.026†	6905.2	7058.8	2550 µg/L	2550 ppb	18:47:50
1	SiO2†	106599.4	107431.3	10477 µg/L	10477 ppb	18:47:48
1	Si 251.611†	325209.4	332327.1	4888.6 µg/L	4888.6 ppb	18:47:48
1	Sn 189.927†	8509.6	8718.8	545.19 µg/L	545.19 ppb	18:47:50
1	Ti 334.940†	517306.5	529006.8	493.58 µg/L	493.58 ppb	18:47:48
1	Tl 190.801†	4208.4	4428.0	551.50 µg/L	551.50 ppb	18:47:50
1	U 409.014†	7246.7	7693.8	480.75 µg/L	480.75 ppb	18:47:48
1	V 292.402†	101371.8	103447.4	511.74 µg/L	511.74 ppb	18:47:48
1	Zn 213.857†	89039.6	90653.0	505.19 µg/L	505.19 ppb	18:47:48
2	Sc RADIAL	141472.3	141472.3	96.9 %		18:47:39
2	Al 396.153Radial†	26888.4	27798.8	5129.2 µg/L	5129.2 ppb	18:47:39
2	Ca 317.933Radial†	88063.7	90277.8	5028.8 µg/L	5028.8 ppb	18:47:39
2	Fe 238.204 Radial†	79583.4	81942.8	5050.5 µg/L	5050.5 ppb	18:47:39
2	K 766.490 Radial†	8113.5	6824.4	2495.6 µg/L	2495.6 ppb	18:47:39
2	Mg 279.077 IEC†	13969.8	14219.3	5306.5 µg/L	5306.5 ppb	18:47:39
2	Na 589.592 Radial†	19176.1	18489.5	2523.7 µg/L	2523.7 ppb	18:47:39
2	Sr 421.552†	244831.9	252681.3	525.27 µg/L	525.27 ppb	18:47:37
2	Sc 361.383	1698788.6	1698788.6	98.869 %		18:47:53
2	Y 371.029	1007373.3	1007373.3	98.119 %		18:47:53
2	Ag 328.068†	71291.0	68014.9	258.16 µg/L	258.16 ppb	18:47:53
2	As 188.979†	1532.9	1570.8	482.29 µg/L	482.29 ppb	18:47:55
2	B 249.677†	37726.0	34651.6	509.29 µg/L	509.29 ppb	18:47:53
2	Ba 233.527†	124221.9	125778.5	507.27 µg/L	507.27 ppb	18:47:53
2	Be 313.107†	946768.4	958661.3	261.16 µg/L	261.16 ppb	18:47:53
2	Cd 226.502†	78878.8	79899.1	498.76 µg/L	498.76 ppb	18:47:53
2	Co 228.616†	40427.2	41079.9	507.13 µg/L	507.13 ppb	18:47:55
2	Cr 267.716†	61613.4	62139.5	486.55 µg/L	486.55 ppb	18:47:55
2	Cu 324.752†	131991.8	130529.2	508.81 µg/L	508.81 ppb	18:47:53
2	Mn 257.610†	413215.3	417704.0	516.60 µg/L	516.60 ppb	18:47:53
2	Mo 202.031†	17824.6	18048.5	530.89 µg/L	530.89 ppb	18:47:55
2	Ni 231.604†	43042.2	43611.0	502.15 µg/L	502.15 ppb	18:47:55
2	P 214.914†	11581.1	11731.5	2500.3 µg/L	2500.3 ppb	18:47:55
2	Pb 220.353†	8959.4	8975.5	502.70 µg/L	502.70 ppb	18:47:55

2	S 181.975 Axial†	3387.2	3320.9	2470.5 µg/L	2470.5 ppb	18:47:55
2	Sb 206.836†	4183.4	4150.4	495.20 µg/L	495.20 ppb	18:47:55
2	Se 196.026†	6756.5	6818.5	2470 µg/L	2470 ppb	18:47:55
2	SiO2†	108026.4	107486.5	10483 µg/L	10483 ppb	18:47:53
2	Si 251.611†	330001.8	332939.4	4897.9 µg/L	4897.9 ppb	18:47:53
2	Sn 189.927†	8332.5	8429.0	527.12 µg/L	527.12 ppb	18:47:55
2	Ti 334.940†	523598.9	528634.8	493.24 µg/L	493.24 ppb	18:47:53
2	Tl 190.801†	4130.1	4294.0	535.11 µg/L	535.11 ppb	18:47:55
2	U 409.014†	7323.1	7676.7	479.70 µg/L	479.70 ppb	18:47:53
2	V 292.402†	102428.7	103196.4	510.32 µg/L	510.32 ppb	18:47:53
2	Zn 213.857†	90500.4	90971.0	507.07 µg/L	507.07 ppb	18:47:53
3	Sc RADIAL	141074.5	141074.5	96.7 %		18:47:43
3	Al 396.153Radial†	27024.0	28017.2	5169.9 µg/L	5169.9 ppb	18:47:43
3	Ca 317.933Radial†	88402.3	90884.2	5062.6 µg/L	5062.6 ppb	18:47:43
3	Fe 238.204 Radial†	79763.1	82360.1	5076.2 µg/L	5076.2 ppb	18:47:43
3	K 766.490 Radial†	8103.8	6838.0	2500.5 µg/L	2500.5 ppb	18:47:43
3	Mg 279.077 IEC†	14069.6	14363.2	5360.0 µg/L	5360.0 ppb	18:47:43
3	Na 589.592 Radial†	19066.5	18431.9	2515.8 µg/L	2515.8 ppb	18:47:43
3	Sr 421.552†	247012.7	255649.2	531.44 µg/L	531.44 ppb	18:47:41
3	Sc 361.383	1692022.5	1692022.5	98.475 %		18:47:58
3	Y 371.029	1004104.0	1004104.0	97.800 %		18:47:58
3	Ag 328.068†	71156.1	68166.3	258.74 µg/L	258.74 ppb	18:47:58
3	As 188.979†	1530.4	1574.5	483.34 µg/L	483.34 ppb	18:48:00
3	B 249.677†	37553.2	34628.7	508.97 µg/L	508.97 ppb	18:47:58
3	Ba 233.527†	123711.5	125762.6	507.21 µg/L	507.21 ppb	18:47:58
3	Be 313.107†	941930.7	957578.0	260.87 µg/L	260.87 ppb	18:47:58
3	Cd 226.502†	78415.4	79747.6	497.81 µg/L	497.81 ppb	18:47:58
3	Co 228.616†	39781.6	40587.8	501.06 µg/L	501.06 ppb	18:48:00
3	Cr 267.716†	60612.6	61372.4	480.54 µg/L	480.54 ppb	18:48:00
3	Cu 324.752†	131599.2	130664.3	509.34 µg/L	509.34 ppb	18:47:58
3	Mn 257.610†	411605.2	417740.2	516.64 µg/L	516.64 ppb	18:47:58
3	Mo 202.031†	17622.4	17915.3	526.98 µg/L	526.98 ppb	18:48:00
3	Ni 231.604†	42378.9	43111.5	496.40 µg/L	496.40 ppb	18:48:00
3	P 214.914†	11404.8	11599.3	2472.0 µg/L	2472.0 ppb	18:48:00
3	Pb 220.353†	8867.2	8918.1	499.49 µg/L	499.49 ppb	18:48:00
3	S 181.975 Axial†	3288.2	3234.1	2406.0 µg/L	2406.0 ppb	18:48:00
3	Sb 206.836†	4104.8	4087.6	487.75 µg/L	487.75 ppb	18:48:00
3	Se 196.026†	6722.3	6811.1	2460 µg/L	2460 ppb	18:48:00
3	SiO2†	107577.1	107467.2	10482 µg/L	10482 ppb	18:47:58
3	Si 251.611†	328691.1	332943.1	4898.1 µg/L	4898.1 ppb	18:47:58
3	Sn 189.927†	8196.6	8324.7	520.62 µg/L	520.62 ppb	18:48:00
3	Ti 334.940†	522557.7	529695.2	494.23 µg/L	494.23 ppb	18:47:58
3	Tl 190.801†	3987.3	4165.7	519.39 µg/L	519.39 ppb	18:48:00
3	U 409.014†	7372.3	7756.3	484.40 µg/L	484.40 ppb	18:47:58
3	V 292.402†	102179.3	103357.4	511.03 µg/L	511.03 ppb	18:47:58
3	Zn 213.857†	89790.3	90616.0	505.12 µg/L	505.12 ppb	18:47:58

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689335.4	98.319 %	0.6428			0.65%
Sc RADIAL	141758.3	97.1 %	0.59			0.61%
Y 371.029	1002428.0	97.637 %	0.5808			0.59%
Ag 328.068†	68007.5	258.15 µg/L	0.601	258.15 ppb	0.601	0.23%
QC value within limits for Ag 328.068 Recovery = 103.26%						
Al 396.153Radial†	27895.2	5146.9 µg/L	20.85	5146.9 ppb	20.85	0.41%
QC value within limits for Al 396.153Radial Recovery = 102.94%						
As 188.979†	1576.6	484.07 µg/L	2.239	484.07 ppb	2.239	0.46%
QC value within limits for As 188.979 Recovery = 96.81%						
B 249.677†	34585.7	508.31 µg/L	1.434	508.31 ppb	1.434	0.28%
QC value within limits for B 249.677 Recovery = 101.66%						
Ba 233.527†	125791.6	507.32 µg/L	0.154	507.32 ppb	0.154	0.03%
QC value within limits for Ba 233.527 Recovery = 101.46%						
Be 313.107†	957957.1	260.97 µg/L	0.166	260.97 ppb	0.166	0.06%
QC value within limits for Be 313.107 Recovery = 104.39%						
Ca 317.933Radial†	90666.6	5050.5 µg/L	18.80	5050.5 ppb	18.80	0.37%
QC value within limits for Ca 317.933Radial Recovery = 101.01%						
Cd 226.502†	79774.1	497.98 µg/L	0.711	497.98 ppb	0.711	0.14%
QC value within limits for Cd 226.502 Recovery = 99.60%						
Co 228.616†	41286.4	509.68 µg/L	10.138	509.68 ppb	10.138	1.99%

QC value within limits for Co 228.616 Recovery = 101.94%							
Cr 267.716†	62360.3	488.28 µg/L	8.733	488.28 ppb	8.733	1.79%	
QC value within limits for Cr 267.716 Recovery = 97.66%							
Cu 324.752†	130652.0	509.29 µg/L	0.460	509.29 ppb	0.460	0.09%	
QC value within limits for Cu 324.752 Recovery = 101.86%							
Fe 238.204 Radial†	82123.9	5061.6 µg/L	13.19	5061.6 ppb	13.19	0.26%	
QC value within limits for Fe 238.204 Radial Recovery = 101.23%							
K 766.490 Radial†	6885.8	2518.1 µg/L	34.72	2518.1 ppb	34.72	1.38%	
QC value within limits for K 766.490 Radial Recovery = 100.72%							
Mg 279.077 IEC†	14285.8	5331.4 µg/L	26.95	5331.4 ppb	26.95	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 106.63%							
Mn 257.610†	417618.5	516.49 µg/L	0.223	516.49 ppb	0.223	0.04%	
QC value within limits for Mn 257.610 Recovery = 103.30%							
Mo 202.031†	18174.5	534.59 µg/L	9.999	534.59 ppb	9.999	1.87%	
QC value within limits for Mo 202.031 Recovery = 106.92%							
Na 589.592 Radial†	18403.7	2511.9 µg/L	14.08	2511.9 ppb	14.08	0.56%	
QC value within limits for Na 589.592 Radial Recovery = 100.48%							
Ni 231.604†	43843.4	504.82 µg/L	10.036	504.82 ppb	10.036	1.99%	
QC value within limits for Ni 231.604 Recovery = 100.96%							
P 214.914†	11799.0	2514.8 µg/L	51.47	2514.8 ppb	51.47	2.05%	
QC value within limits for P 214.914 Recovery = 100.59%							
Pb 220.353†	9039.6	506.29 µg/L	9.140	506.29 ppb	9.140	1.81%	
QC value within limits for Pb 220.353 Recovery = 101.26%							
S 181.975 Axial†	3337.5	2482.9 µg/L	83.76	2482.9 ppb	83.76	3.37%	
QC value within limits for S 181.975 Axial Recovery = 99.32%							
Sb 206.836†	4171.6	497.75 µg/L	11.489	497.75 ppb	11.489	2.31%	
QC value within limits for Sb 206.836 Recovery = 99.55%							
Se 196.026†	6896.1	2500 µg/L	50.9	2500 ppb	50.9	2.04%	
QC value within limits for Se 196.026 Recovery = 99.81%							
SiO2†	107461.7	10481 µg/L	3.1	10481 ppb	3.1	0.03%	
QC value within limits for SiO2 Recovery = 98.00%							
Si 251.611†	332736.6	4894.9 µg/L	5.44	4894.9 ppb	5.44	0.11%	
QC value within limits for Si 251.611 Recovery = 97.90%							
Sn 189.927†	8490.8	530.98 µg/L	12.731	530.98 ppb	12.731	2.40%	
QC value within limits for Sn 189.927 Recovery = 106.20%							
Sr 421.552†	254812.7	529.70 µg/L	3.867	529.70 ppb	3.867	0.73%	
QC value within limits for Sr 421.552 Recovery = 105.94%							
Ti 334.940†	529112.2	493.68 µg/L	0.501	493.68 ppb	0.501	0.10%	
QC value within limits for Ti 334.940 Recovery = 98.74%							
Tl 190.801†	4295.9	535.33 µg/L	16.060	535.33 ppb	16.060	3.00%	
QC value within limits for Tl 190.801 Recovery = 107.07%							
U 409.014†	7709.0	481.62 µg/L	2.468	481.62 ppb	2.468	0.51%	
QC value within limits for U 409.014 Recovery = 96.32%							
V 292.402†	103333.7	511.03 µg/L	0.714	511.03 ppb	0.714	0.14%	
QC value within limits for V 292.402 Recovery = 102.21%							
Zn 213.857†	90746.7	505.79 µg/L	1.109	505.79 ppb	1.109	0.22%	
QC value within limits for Zn 213.857 Recovery = 101.16%							
All analyte(s) passed QC.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/31/2010 18:48:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141820.7	141820.7	97.2 %		18:48:38
1	Al 396.153Radial†	-23.3	39.2	7.2759 µg/L	7.2759 ppb	18:48:58
1	Ca 317.933Radial†	601.1	58.0	3.2284 µg/L	3.2284 ppb	18:48:58
1	Fe 238.204 Radial†	172.3	29.2	1.7975 µg/L	1.7975 ppb	18:48:58
1	K 766.490 Radial†	1651.6	154.7	56.635 µg/L	56.635 ppb	18:48:38
1	Mg 279.077 IEC†	178.4	-7.1	-2.6584 µg/L	-2.6584 ppb	18:48:58
1	Na 589.592 Radial†	1421.8	172.2	23.470 µg/L	23.470 ppb	18:48:38
1	Sr 421.552†	-137.1	-5.8	-0.0120 µg/L	-0.0120 ppb	18:48:38
1	Sc 361.383	1683915.8	1683915.8	98.004 %		18:50:00
1	Y 371.029	1008438.2	1008438.2	98.222 %		18:50:00
1	Ag 328.068†	3988.4	-21.8	-0.0966 µg/L	-0.0966 ppb	18:50:02
1	As 188.979†	-16.6	3.4	1.0196 µg/L	1.0196 ppb	18:50:22
1	B 249.677†	3689.5	258.8	3.8157 µg/L	3.8157 ppb	18:50:02
1	Ba 233.527†	-144.6	-11.7	-0.0475 µg/L	-0.0475 ppb	18:50:22
1	Be 313.107†	-835.0	212.7	0.0556 µg/L	0.0556 ppb	18:50:02
1	Cd 226.502†	-86.3	30.1	0.1877 µg/L	0.1877 ppb	18:50:22
1	Co 228.616†	-156.6	30.5	0.3761 µg/L	0.3761 ppb	18:50:22
1	Cr 267.716†	188.6	13.8	0.1142 µg/L	0.1142 ppb	18:50:22
1	Cu 324.752†	2866.9	-46.9	-0.1882 µg/L	-0.1882 ppb	18:50:02
1	Mn 257.610†	237.6	5.2	0.0065 µg/L	0.0065 ppb	18:50:22
1	Mo 202.031†	-20.5	-0.8	-0.0238 µg/L	-0.0238 ppb	18:50:22
1	Ni 231.604†	-85.2	-10.4	-0.1202 µg/L	-0.1202 ppb	18:50:22
1	P 214.914†	-19.5	-2.0	-0.4133 µg/L	-0.4133 ppb	18:50:22
1	Pb 220.353†	104.1	19.8	1.1130 µg/L	1.1130 ppb	18:50:22
1	S 181.975 Axial†	94.9	-8.2	-6.0991 µg/L	-6.0991 ppb	18:50:22
1	Sb 206.836†	83.0	3.9	0.4581 µg/L	0.4581 ppb	18:50:22
1	Se 196.026†	16.9	2.0	0.709 µg/L	0.709 ppb	18:50:22
1	SiO2†	1750.1	10.4	1.0001 µg/L	1.0001 ppb	18:50:22
1	Si 251.611†	692.5	-130.0	-1.9216 µg/L	-1.9216 ppb	18:50:02
1	Sn 189.927†	12.8	14.2	0.8842 µg/L	0.8842 ppb	18:50:22
1	Ti 334.940†	967.2	34.4	0.0355 µg/L	0.0355 ppb	18:50:02
1	Tl 190.801†	-113.3	1.1	0.1286 µg/L	0.1286 ppb	18:50:22
1	U 409.014†	-392.4	-130.5	-7.6641 µg/L	-7.6641 ppb	18:50:02
1	V 292.402†	288.2	-109.7	-0.5404 µg/L	-0.5404 ppb	18:50:02
1	Zn 213.857†	580.6	28.0	0.1584 µg/L	0.1584 ppb	18:50:22
2	Sc RADIAL	141475.5	141475.5	96.9 %		18:49:00
2	Al 396.153Radial†	-59.5	1.9	0.3293 µg/L	0.3293 ppb	18:49:20
2	Ca 317.933Radial†	582.6	40.4	2.2485 µg/L	2.2485 ppb	18:49:20
2	Fe 238.204 Radial†	177.4	34.9	2.1506 µg/L	2.1506 ppb	18:49:20
2	K 766.490 Radial†	1678.4	186.4	68.259 µg/L	68.259 ppb	18:49:00
2	Mg 279.077 IEC†	195.6	11.1	4.1266 µg/L	4.1266 ppb	18:49:20
2	Na 589.592 Radial†	1313.4	64.0	8.6800 µg/L	8.6800 ppb	18:49:00
2	Sr 421.552†	-263.2	-136.2	-0.2832 µg/L	-0.2832 ppb	18:49:00
2	Sc 361.383	1681105.0	1681105.0	97.840 %		18:50:24
2	Y 371.029	1006809.9	1006809.9	98.064 %		18:50:24
2	Ag 328.068†	3899.5	-105.8	-0.4010 µg/L	-0.4010 ppb	18:50:26
2	As 188.979†	-14.2	5.9	1.7810 µg/L	1.7810 ppb	18:50:47
2	B 249.677†	3479.7	50.7	0.7461 µg/L	0.7461 ppb	18:50:26
2	Ba 233.527†	-126.1	7.0	0.0284 µg/L	0.0284 ppb	18:50:47
2	Be 313.107†	-932.6	111.6	0.0281 µg/L	0.0281 ppb	18:50:26
2	Cd 226.502†	-94.6	21.5	0.1342 µg/L	0.1342 ppb	18:50:47
2	Co 228.616†	-159.1	27.7	0.3416 µg/L	0.3416 ppb	18:50:47
2	Cr 267.716†	205.7	31.7	0.2541 µg/L	0.2541 ppb	18:50:47
2	Cu 324.752†	2760.4	-150.9	-0.5921 µg/L	-0.5921 ppb	18:50:26
2	Mn 257.610†	248.9	17.1	0.0210 µg/L	0.0210 ppb	18:50:47
2	Mo 202.031†	-6.8	13.1	0.3848 µg/L	0.3848 ppb	18:50:47
2	Ni 231.604†	-77.1	-2.3	-0.0264 µg/L	-0.0264 ppb	18:50:47
2	P 214.914†	-8.5	9.3	1.9937 µg/L	1.9937 ppb	18:50:47
2	Pb 220.353†	88.9	4.5	0.2582 µg/L	0.2582 ppb	18:50:47

2	S 181.975 Axial†	97.2	-5.7	-4.2111 µg/L	-4.2111 ppb	18:50:47
2	Sb 206.836†	84.7	5.7	0.6836 µg/L	0.6836 ppb	18:50:47
2	Se 196.026†	31.5	16.9	6.11 µg/L	6.11 ppb	18:50:47
2	SiO2†	1754.7	18.0	1.7515 µg/L	1.7515 ppb	18:50:47
2	Si 251.611†	708.6	-112.3	-1.6605 µg/L	-1.6605 ppb	18:50:26
2	Sn 189.927†	-0.8	0.3	0.0171 µg/L	0.0171 ppb	18:50:47
2	Ti 334.940†	917.4	-14.9	-0.0112 µg/L	-0.0112 ppb	18:50:26
2	Tl 190.801†	-109.7	4.5	0.5537 µg/L	0.5537 ppb	18:50:47
2	U 409.014†	-392.0	-130.8	-7.6468 µg/L	-7.6468 ppb	18:50:26
2	V 292.402†	396.5	1.4	0.0068 µg/L	0.0068 ppb	18:50:26
2	Zn 213.857†	557.8	5.7	0.0323 µg/L	0.0323 ppb	18:50:47
3	Sc RADIAL	140788.0	140788.0	96.5 %		18:49:22
3	Al 396.153Radial†	-53.3	8.0	1.4950 µg/L	1.4950 ppb	18:49:42
3	Ca 317.933Radial†	570.5	30.7	1.7106 µg/L	1.7106 ppb	18:49:42
3	Fe 238.204 Radial†	153.8	11.4	0.7002 µg/L	0.7002 ppb	18:49:42
3	K 766.490 Radial†	1509.3	19.7	7.1988 µg/L	7.1988 ppb	18:49:22
3	Mg 279.077 IEC†	187.5	3.6	1.3339 µg/L	1.3339 ppb	18:49:42
3	Na 589.592 Radial†	1241.2	-4.3	-0.5891 µg/L	-0.5891 ppb	18:49:22
3	Sr 421.552†	-62.3	70.7	0.1469 µg/L	0.1469 ppb	18:49:22
3	Sc 361.383	1702475.2	1702475.2	99.084 %		18:50:49
3	Y 371.029	1019278.2	1019278.2	99.278 %		18:50:49
3	Ag 328.068†	3893.2	-162.2	-0.6047 µg/L	-0.6047 ppb	18:50:51
3	As 188.979†	-11.0	9.3	2.8073 µg/L	2.8073 ppb	18:51:11
3	B 249.677†	3493.6	20.0	0.2957 µg/L	0.2957 ppb	18:50:51
3	Ba 233.527†	-155.1	-20.7	-0.0837 µg/L	-0.0837 ppb	18:51:11
3	Be 313.107†	-918.7	137.5	0.0367 µg/L	0.0367 ppb	18:50:51
3	Cd 226.502†	-90.2	27.2	0.1697 µg/L	0.1697 ppb	18:51:11
3	Co 228.616†	-191.5	-3.0	-0.0369 µg/L	-0.0369 ppb	18:51:11
3	Cr 267.716†	192.8	16.1	0.1277 µg/L	0.1277 ppb	18:51:11
3	Cu 324.752†	2902.8	-42.6	-0.1675 µg/L	-0.1675 ppb	18:50:51
3	Mn 257.610†	221.1	-14.1	-0.0175 µg/L	-0.0175 ppb	18:51:11
3	Mo 202.031†	-27.6	-7.7	-0.2274 µg/L	-0.2274 ppb	18:51:11
3	Ni 231.604†	-80.3	-4.5	-0.0519 µg/L	-0.0519 ppb	18:51:11
3	P 214.914†	-10.6	7.3	1.5639 µg/L	1.5639 ppb	18:51:11
3	Pb 220.353†	87.5	1.9	0.1068 µg/L	0.1068 ppb	18:51:11
3	S 181.975 Axial†	108.2	4.2	3.0845 µg/L	3.0845 ppb	18:51:11
3	Sb 206.836†	65.7	-14.5	-1.7326 µg/L	-1.7326 ppb	18:51:11
3	Se 196.026†	1.4	-13.8	-5.00 µg/L	-5.00 ppb	18:51:11
3	SiO2†	1771.9	13.0	1.2622 µg/L	1.2622 ppb	18:51:11
3	Si 251.611†	804.4	-24.7	-0.3658 µg/L	-0.3658 ppb	18:50:51
3	Sn 189.927†	10.9	12.2	0.7583 µg/L	0.7583 ppb	18:51:11
3	Ti 334.940†	1048.8	105.9	0.0999 µg/L	0.0999 ppb	18:50:51
3	Tl 190.801†	-119.3	-3.7	-0.4558 µg/L	-0.4558 ppb	18:51:11
3	U 409.014†	-309.5	-42.5	-2.4891 µg/L	-2.4891 ppb	18:50:51
3	V 292.402†	382.0	-18.2	-0.0926 µg/L	-0.0926 ppb	18:50:51
3	Zn 213.857†	566.8	7.7	0.0435 µg/L	0.0435 ppb	18:51:11

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689165.4	98.309 %	0.6758			0.69%
Sc RADIAL	141361.4	96.9 %	0.36			0.37%
Y 371.029	1011508.8	98.521 %	0.6601			0.67%
Ag 328.068†	-96.6	-0.3674 µg/L	0.25571	-0.3674 ppb	0.25571	69.60%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	16.4	3.0334 µg/L	3.72004	3.0334 ppb	3.72004	122.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.2	1.8693 µg/L	0.89713	1.8693 ppb	0.89713	47.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	109.8	1.6192 µg/L	1.91554	1.6192 ppb	1.91554	118.30%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.5	-0.0343 µg/L	0.05718	-0.0343 ppb	0.05718	166.90%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	153.9	0.0401 µg/L	0.01409	0.0401 ppb	0.01409	35.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	43.0	2.3958 µg/L	0.76955	2.3958 ppb	0.76955	32.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	26.3	0.1639 µg/L	0.02723	0.1639 ppb	0.02723	16.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.4	0.2269 µg/L	0.22917	0.2269 ppb	0.22917	100.99%

QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	20.5	0.1654 µg/L	0.07718	0.1654 ppb	0.07718 46.67%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-80.1	-0.3159 µg/L	0.23936	-0.3159 ppb	0.23936 75.77%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	25.1	1.5494 µg/L	0.75637	1.5494 ppb	0.75637 48.82%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	120.3	44.031 µg/L	32.4227	44.031 ppb	32.4227 73.64%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	2.5	0.9341 µg/L	3.41013	0.9341 ppb	3.41013 365.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	2.7	0.0033 µg/L	0.01944	0.0033 ppb	0.01944 582.64%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	1.5	0.0446 µg/L	0.31176	0.0446 ppb	0.31176 699.61%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	77.3	10.520 µg/L	12.1345	10.520 ppb	12.1345 115.35%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-5.7	-0.0661 µg/L	0.04849	-0.0661 ppb	0.04849 73.31%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	4.9	1.0481 µg/L	1.28372	1.0481 ppb	1.28372 122.48%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	8.7	0.4927 µg/L	0.54252	0.4927 ppb	0.54252 110.12%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-3.2	-2.4085 µg/L	4.84991	-2.4085 ppb	4.84991 201.36%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-1.6	-0.1970 µg/L	1.33468	-0.1970 ppb	1.33468 677.58%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	1.7	0.603 µg/L	5.5558	0.603 ppb	5.5558 920.66%
QC value within limits for Se 196.026 Recovery = Not calculated					
SiO2†	13.8	1.3380 µg/L	0.38138	1.3380 ppb	0.38138 28.50%
QC value within limits for SiO2 Recovery = Not calculated					
Si 251.611†	-89.0	-1.3160 µg/L	0.83316	-1.3160 ppb	0.83316 63.31%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	8.9	0.5532 µg/L	0.46851	0.5532 ppb	0.46851 84.69%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-23.8	-0.0494 µg/L	0.21749	-0.0494 ppb	0.21749 439.99%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	41.8	0.0414 µg/L	0.05575	0.0414 ppb	0.05575 134.62%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	0.6	0.0755 µg/L	0.50686	0.0755 ppb	0.50686 671.21%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-101.3	-5.9334 µg/L	2.98281	-5.9334 ppb	2.98281 50.27%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-42.2	-0.2088 µg/L	0.29151	-0.2088 ppb	0.29151 139.64%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	13.8	0.0780 µg/L	0.06978	0.0780 ppb	0.06978 89.41%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/31/2010 18:51:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	140861.4	140861.4	96.5 %		18:51:48
1	Al 396.153Radial†	987.6	1086.3	200.96 µg/L	200.96 ppb	18:51:50
1	Ca 317.933Radial†	4191.0	3781.2	210.63 µg/L	210.63 ppb	18:51:50
1	Fe 238.204 Radial†	1792.5	1708.9	105.32 µg/L	105.32 ppb	18:51:50
1	K 766.490 Radial†	1849.3	371.1	135.70 µg/L	135.70 ppb	18:51:48
1	Mg 279.077 IEC†	1004.6	850.0	316.85 µg/L	316.85 ppb	18:51:50
1	Na 589.592 Radial†	3218.7	2043.7	279.07 µg/L	279.07 ppb	18:51:50
1	Sr 421.552†	2356.1	2576.2	5.3541 µg/L	5.3541 ppb	18:51:50
1	Sc 361.383	1696993.3	1696993.3	98.765 %		18:52:02
1	Y 371.029	1016566.5	1016566.5	99.014 %		18:52:02
1	Ag 328.068†	5094.4	1066.7	4.0516 µg/L	4.0516 ppb	18:52:04
1	As 188.979†	82.8	104.2	31.603 µg/L	31.603 ppb	18:52:24
1	B 249.677†	6532.0	3107.8	45.816 µg/L	45.816 ppb	18:52:04
1	Ba 233.527†	1080.9	1230.2	4.9619 µg/L	4.9619 ppb	18:52:24
1	Be 313.107†	16638.5	17911.3	4.8913 µg/L	4.8913 ppb	18:52:04
1	Cd 226.502†	682.8	809.6	5.0479 µg/L	5.0479 ppb	18:52:24
1	Co 228.616†	230.9	424.1	5.2325 µg/L	5.2325 ppb	18:52:24
1	Cr 267.716†	759.8	590.7	4.5885 µg/L	4.5885 ppb	18:52:24
1	Cu 324.752†	5375.4	2470.4	9.6665 µg/L	9.6665 ppb	18:52:04
1	Mn 257.610†	8461.3	8329.9	10.294 µg/L	10.294 ppb	18:52:04
1	Mo 202.031†	297.2	321.0	9.4457 µg/L	9.4457 ppb	18:52:24
1	Ni 231.604†	359.2	440.2	5.0686 µg/L	5.0686 ppb	18:52:24
1	P 214.914†	662.2	688.4	147.09 µg/L	147.09 ppb	18:52:24
1	Pb 220.353†	275.6	192.6	10.753 µg/L	10.753 ppb	18:52:24
1	S 181.975 Axial†	231.8	129.7	96.360 µg/L	96.360 ppb	18:52:24
1	Sb 206.836†	150.3	71.3	8.5656 µg/L	8.5656 ppb	18:52:24
1	Se 196.026†	92.5	78.4	28.4 µg/L	28.4 ppb	18:52:24
1	SiO2†	3882.7	2155.9	210.31 µg/L	210.31 ppb	18:52:04
1	Si 251.611†	7564.5	6822.6	100.39 µg/L	100.39 ppb	18:52:04
1	Sn 189.927†	162.8	165.9	10.360 µg/L	10.360 ppb	18:52:24
1	Ti 334.940†	6150.6	5275.0	4.8870 µg/L	4.8870 ppb	18:52:04
1	Tl 190.801†	46.5	163.8	20.204 µg/L	20.204 ppb	18:52:24
1	U 409.014†	536.3	812.9	47.827 µg/L	47.827 ppb	18:52:04
1	V 292.402†	1270.3	882.4	4.4384 µg/L	4.4384 ppb	18:52:04
1	Zn 213.857†	2321.2	1785.9	9.9841 µg/L	9.9841 ppb	18:52:24
2	Sc RADIAL	140936.7	140936.7	96.6 %		18:51:52
2	Al 396.153Radial†	972.6	1070.3	198.01 µg/L	198.01 ppb	18:51:54
2	Ca 317.933Radial†	4253.2	3843.3	214.09 µg/L	214.09 ppb	18:51:54
2	Fe 238.204 Radial†	1742.6	1656.2	102.08 µg/L	102.08 ppb	18:51:54
2	K 766.490 Radial†	1908.6	431.4	157.79 µg/L	157.79 ppb	18:51:52
2	Mg 279.077 IEC†	969.9	813.6	303.26 µg/L	303.26 ppb	18:51:54
2	Na 589.592 Radial†	3291.7	2117.5	289.13 µg/L	289.13 ppb	18:51:54
2	Sr 421.552†	2245.5	2460.3	5.1132 µg/L	5.1132 ppb	18:51:54
2	Sc 361.383	1687966.3	1687966.3	98.239 %		18:52:26
2	Y 371.029	1011019.5	1011019.5	98.474 %		18:52:26
2	Ag 328.068†	5292.9	1296.4	4.8998 µg/L	4.8998 ppb	18:52:28
2	As 188.979†	83.0	104.8	31.803 µg/L	31.803 ppb	18:52:48
2	B 249.677†	6698.9	3313.0	48.843 µg/L	48.843 ppb	18:52:28
2	Ba 233.527†	1087.4	1242.7	5.0120 µg/L	5.0120 ppb	18:52:48
2	Be 313.107†	16507.3	17867.9	4.8796 µg/L	4.8796 ppb	18:52:28
2	Cd 226.502†	680.2	810.6	5.0545 µg/L	5.0545 ppb	18:52:48
2	Co 228.616†	236.4	430.9	5.3167 µg/L	5.3167 ppb	18:52:48
2	Cr 267.716†	835.7	672.2	5.2260 µg/L	5.2260 ppb	18:52:48
2	Cu 324.752†	5528.6	2655.4	10.385 µg/L	10.385 ppb	18:52:28
2	Mn 257.610†	8398.7	8312.0	10.272 µg/L	10.272 ppb	18:52:28
2	Mo 202.031†	283.2	308.3	9.0728 µg/L	9.0728 ppb	18:52:48
2	Ni 231.604†	357.6	440.5	5.0722 µg/L	5.0722 ppb	18:52:48
2	P 214.914†	662.1	691.9	147.84 µg/L	147.84 ppb	18:52:48
2	Pb 220.353†	294.5	213.4	11.913 µg/L	11.913 ppb	18:52:48

2	S 181.975 Axial†	239.0	138.2	102.73 µg/L	102.73 ppb	18:52:48
2	Sb 206.836†	162.6	84.7	10.140 µg/L	10.140 ppb	18:52:48
2	Se 196.026†	98.4	84.9	30.8 µg/L	30.8 ppb	18:52:48
2	SiO2†	3912.9	2207.6	215.37 µg/L	215.37 ppb	18:52:28
2	Si 251.611†	7475.2	6772.6	99.658 µg/L	99.658 ppb	18:52:28
2	Sn 189.927†	165.0	169.0	10.554 µg/L	10.554 ppb	18:52:48
2	Ti 334.940†	5906.4	5059.7	4.6867 µg/L	4.6867 ppb	18:52:28
2	Tl 190.801†	41.0	158.5	19.548 µg/L	19.548 ppb	18:52:48
2	U 409.014†	539.0	818.5	48.142 µg/L	48.142 ppb	18:52:28
2	V 292.402†	1219.4	837.5	4.2189 µg/L	4.2189 ppb	18:52:28
2	Zn 213.857†	2338.9	1816.4	10.155 µg/L	10.155 ppb	18:52:48
3	Sc RADIAL	141853.7	141853.7	97.2 %		18:51:56
3	Al 396.153Radial†	1054.0	1147.5	212.32 µg/L	212.32 ppb	18:51:58
3	Ca 317.933Radial†	4255.4	3817.1	212.63 µg/L	212.63 ppb	18:51:58
3	Fe 238.204 Radial†	1716.2	1617.5	99.690 µg/L	99.690 ppb	18:51:58
3	K 766.490 Radial†	1916.0	426.3	155.92 µg/L	155.92 ppb	18:51:56
3	Mg 279.077 IEC†	1001.3	839.3	312.86 µg/L	312.86 ppb	18:51:58
3	Na 589.592 Radial†	3186.5	1987.3	271.34 µg/L	271.34 ppb	18:51:58
3	Sr 421.552†	2248.0	2447.8	5.0873 µg/L	5.0873 ppb	18:51:58
3	Sc 361.383	1703589.6	1703589.6	99.149 %		18:52:50
3	Y 371.029	1020076.1	1020076.1	99.356 %		18:52:50
3	Ag 328.068†	5329.5	1283.9	4.8863 µg/L	4.8863 ppb	18:52:52
3	As 188.979†	68.9	89.8	27.263 µg/L	27.263 ppb	18:53:13
3	B 249.677†	6826.1	3378.8	49.814 µg/L	49.814 ppb	18:52:52
3	Ba 233.527†	1095.4	1240.7	5.0047 µg/L	5.0047 ppb	18:53:13
3	Be 313.107†	16765.5	17974.2	4.9127 µg/L	4.9127 ppb	18:52:52
3	Cd 226.502†	685.3	809.4	5.0473 µg/L	5.0473 ppb	18:53:13
3	Co 228.616†	212.4	404.5	4.9910 µg/L	4.9910 ppb	18:53:13
3	Cr 267.716†	807.3	635.7	4.9297 µg/L	4.9297 ppb	18:53:13
3	Cu 324.752†	5461.8	2536.5	9.9340 µg/L	9.9340 ppb	18:52:52
3	Mn 257.610†	8558.8	8395.0	10.374 µg/L	10.374 ppb	18:52:52
3	Mo 202.031†	286.1	308.6	9.0804 µg/L	9.0804 ppb	18:53:13
3	Ni 231.604†	341.2	420.7	4.8437 µg/L	4.8437 ppb	18:53:13
3	P 214.914†	668.0	691.7	147.81 µg/L	147.81 ppb	18:53:13
3	Pb 220.353†	280.1	196.2	10.941 µg/L	10.941 ppb	18:53:13
3	S 181.975 Axial†	229.3	126.2	93.811 µg/L	93.811 ppb	18:53:13
3	Sb 206.836†	165.2	85.8	10.280 µg/L	10.280 ppb	18:53:13
3	Se 196.026†	109.6	95.3	34.5 µg/L	34.5 ppb	18:53:13
3	SiO2†	3891.1	2149.2	209.66 µg/L	209.66 ppb	18:52:52
3	Si 251.611†	7576.0	6804.5	100.13 µg/L	100.13 ppb	18:52:52
3	Sn 189.927†	163.2	165.7	10.345 µg/L	10.345 ppb	18:53:13
3	Ti 334.940†	6177.6	5278.1	4.8843 µg/L	4.8843 ppb	18:52:52
3	Tl 190.801†	27.8	144.7	17.868 µg/L	17.868 ppb	18:53:13
3	U 409.014†	779.2	1055.8	62.094 µg/L	62.094 ppb	18:52:52
3	V 292.402†	1501.4	1110.5	5.5591 µg/L	5.5591 ppb	18:52:52
3	Zn 213.857†	2359.0	1814.8	10.149 µg/L	10.149 ppb	18:53:13

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696183.1	98.718 %	0.4565			0.46%
Sc RADIAL	141217.3	96.8 %	0.38			0.39%
Y 371.029	1015887.4	98.948 %	0.4448			0.45%
Ag 328.068†	1215.7	4.6126 µg/L	0.48588	4.6126 ppb	0.48588	10.53%
QC value within limits for Ag 328.068 Recovery = 92.25%						
Al 396.153Radial†	1101.4	203.76 µg/L	7.553	203.76 ppb	7.553	3.71%
QC value within limits for Al 396.153Radial Recovery = 101.88%						
As 188.979†	99.6	30.223 µg/L	2.5657	30.223 ppb	2.5657	8.49%
QC value within limits for As 188.979 Recovery = 100.74%						
B 249.677†	3266.5	48.158 µg/L	2.0851	48.158 ppb	2.0851	4.33%
QC value within limits for B 249.677 Recovery = 96.32%						
Ba 233.527†	1237.9	4.9928 µg/L	0.02706	4.9928 ppb	0.02706	0.54%
QC value within limits for Ba 233.527 Recovery = 99.86%						
Be 313.107†	17917.8	4.8945 µg/L	0.01680	4.8945 ppb	0.01680	0.34%
QC value within limits for Be 313.107 Recovery = 97.89%						
Ca 317.933Radial†	3813.9	212.45 µg/L	1.736	212.45 ppb	1.736	0.82%
QC value within limits for Ca 317.933Radial Recovery = 106.22%						
Cd 226.502†	809.8	5.0499 µg/L	0.00397	5.0499 ppb	0.00397	0.08%
QC value within limits for Cd 226.502 Recovery = 101.00%						
Co 228.616†	419.8	5.1801 µg/L	0.16905	5.1801 ppb	0.16905	3.26%

QC value within limits for Co 228.616 Recovery = 103.60%							
Cr 267.716†	632.8	4.9147 µg/L	0.31903	4.9147 ppb	0.31903	6.49%	
QC value within limits for Cr 267.716 Recovery = 98.29%							
Cu 324.752†	2554.1	9.9952 µg/L	0.36319	9.9952 ppb	0.36319	3.63%	
QC value within limits for Cu 324.752 Recovery = 99.95%							
Fe 238.204 Radial†	1660.8	102.36 µg/L	2.828	102.36 ppb	2.828	2.76%	
QC value within limits for Fe 238.204 Radial Recovery = 102.36%							
K 766.490 Radial†	409.6	149.80 µg/L	12.246	149.80 ppb	12.246	8.17%	
QC value within limits for K 766.490 Radial Recovery = 99.87%							
Mg 279.077 IEC†	834.3	310.99 µg/L	6.984	310.99 ppb	6.984	2.25%	
QC value within limits for Mg 279.077 IEC Recovery = 103.66%							
Mn 257.610†	8345.6	10.313 µg/L	0.0539	10.313 ppb	0.0539	0.52%	
QC value within limits for Mn 257.610 Recovery = 103.13%							
Mo 202.031†	312.7	9.1996 µg/L	0.21314	9.1996 ppb	0.21314	2.32%	
QC value within limits for Mo 202.031 Recovery = 92.00%							
Na 589.592 Radial†	2049.5	279.85 µg/L	8.919	279.85 ppb	8.919	3.19%	
QC value within limits for Na 589.592 Radial Recovery = 93.28%							
Ni 231.604†	433.8	4.9948 µg/L	0.13089	4.9948 ppb	0.13089	2.62%	
QC value within limits for Ni 231.604 Recovery = 99.90%							
P 214.914†	690.7	147.58 µg/L	0.423	147.58 ppb	0.423	0.29%	
QC value within limits for P 214.914 Recovery = 98.39%							
Pb 220.353†	200.7	11.202 µg/L	0.6223	11.202 ppb	0.6223	5.56%	
QC value within limits for Pb 220.353 Recovery = 112.02%							
S 181.975 Axial†	131.4	97.634 µg/L	4.5940	97.634 ppb	4.5940	4.71%	
QC value within limits for S 181.975 Axial Recovery = 97.63%							
Sb 206.836†	80.6	9.6618 µg/L	0.95194	9.6618 ppb	0.95194	9.85%	
QC value within limits for Sb 206.836 Recovery = 96.62%							
Se 196.026†	86.2	31.2 µg/L	3.09	31.2 ppb	3.09	9.88%	
QC value within limits for Se 196.026 Recovery = 104.17%							
SiO2†	2170.9	211.78 µg/L	3.127	211.78 ppb	3.127	1.48%	
QC value within limits for SiO2 Recovery = 99.43%							
Si 251.611†	6799.9	100.06 µg/L	0.371	100.06 ppb	0.371	0.37%	
QC value within limits for Si 251.611 Recovery = 100.06%							
Sn 189.927†	166.9	10.420 µg/L	0.1167	10.420 ppb	0.1167	1.12%	
QC value within limits for Sn 189.927 Recovery = 104.20%							
Sr 421.552†	2494.8	5.1849 µg/L	0.14714	5.1849 ppb	0.14714	2.84%	
QC value within limits for Sr 421.552 Recovery = 103.70%							
Ti 334.940†	5204.3	4.8193 µg/L	0.11489	4.8193 ppb	0.11489	2.38%	
QC value within limits for Ti 334.940 Recovery = 96.39%							
Tl 190.801†	155.6	19.207 µg/L	1.2048	19.207 ppb	1.2048	6.27%	
QC value within limits for Tl 190.801 Recovery = 96.03%							
U 409.014†	895.8	52.688 µg/L	8.1477	52.688 ppb	8.1477	15.46%	
QC value within limits for U 409.014 Recovery = 105.38%							
V 292.402†	943.5	4.7388 µg/L	0.71883	4.7388 ppb	0.71883	15.17%	
QC value within limits for V 292.402 Recovery = 94.78%							
Zn 213.857†	1805.7	10.096 µg/L	0.0971	10.096 ppb	0.0971	0.96%	
QC value within limits for Zn 213.857 Recovery = 100.96%							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/31/2010 18:53:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	132242.6	132242.6	90.6 %			18:53:53
1	Al 396.153Radial†	2422897.8	2673731.8	495710 µg/L	495710 ppb	495710 ppb	18:53:51
1	Ca 317.933Radial†	7691621.4	8487146.3	472770 µg/L	472770 ppb	472770 ppb	18:53:51
1	Fe 238.204 Radial†	2755313.8	3040341.6	187390 µg/L	187390 ppb	187390 ppb	18:53:51
1	K 766.490 Radial†	1640.2	265.2	-138.93 µg/L	-138.93 ppb	-138.93 ppb	18:53:53
1	Mg 279.077 IEC†	1160629.2	1280564.0	476960 µg/L	476960 ppb	476960 ppb	18:53:51
1	Na 589.592 Radial†	1484.0	346.8	47.294 µg/L	47.294 ppb	47.294 ppb	18:53:53
1	Sr 421.552†	1473.7	1761.6	-0.0382 µg/L	-0.0382 ppb	-0.0382 ppb	18:53:53
1	Sc 361.383	1517022.4	1517022.4	88.290 %			18:54:06
1	Y 371.029	894868.4	894868.4	87.161 %			18:54:06
1	Ag 328.068†	6255.0	2993.2	-1.9729 µg/L	-1.9729 ppb	-1.9729 ppb	18:54:06
1	As 188.979†	-100.1	-93.0	13.877 µg/L	13.877 ppb	13.877 ppb	18:54:26
1	B 249.677†	3380.9	323.4	4.7554 µg/L	4.7554 ppb	4.7554 ppb	18:54:06
1	Ba 233.527†	434.1	627.6	0.1345 µg/L	0.1345 ppb	0.1345 ppb	18:54:26
1	Be 313.107†	-1147.6	-235.1	-0.0621 µg/L	-0.0621 ppb	-0.0621 ppb	18:54:06
1	Cd 226.502†	2412.4	2850.5	-1.8998 µg/L	-1.8998 ppb	-1.8998 ppb	18:54:26
1	Co 228.616†	123.8	330.6	-5.6944 µg/L	-5.6944 ppb	-5.6944 ppb	18:54:26
1	Cr 267.716†	198.7	46.5	1.0479 µg/L	1.0479 ppb	1.0479 ppb	18:54:26
1	Cu 324.752†	-5619.3	-9336.8	3.9046 µg/L	3.9046 ppb	3.9046 ppb	18:54:06
1	Mn 257.610†	16860.5	18859.4	3.9217 µg/L	3.9217 ppb	3.9217 ppb	18:54:06
1	Mo 202.031†	-556.1	-609.8	-1.7911 µg/L	-1.7911 ppb	-1.7911 ppb	18:54:26
1	Ni 231.604†	185.4	286.5	3.2984 µg/L	3.2984 ppb	3.2984 ppb	18:54:26
1	P 214.914†	178.3	219.9	29.959 µg/L	29.959 ppb	29.959 ppb	18:54:26
1	Pb 220.353†	-392.3	-530.7	-4.9340 µg/L	-4.9340 ppb	-4.9340 ppb	18:54:26
1	S 181.975 Axial†	184.5	103.9	77.024 µg/L	77.024 ppb	77.024 ppb	18:54:26
1	Sb 206.836†	109.1	42.8	-0.8364 µg/L	-0.8364 ppb	-0.8364 ppb	18:54:26
1	Se 196.026†	-143.5	-177.8	0.756 µg/L	0.756 ppb	0.756 ppb	18:54:26
1	SiO2†	1661.3	106.3	10.857 µg/L	10.857 ppb	10.857 ppb	18:54:26
1	Si 251.611†	457.4	-318.5	-4.4771 µg/L	-4.4771 ppb	-4.4771 ppb	18:54:26
1	Sn 189.927†	41.8	48.5	3.1002 µg/L	3.1002 ppb	3.1002 ppb	18:54:26
1	Ti 334.940†	22402.5	24421.1	-3.7208 µg/L	-3.7208 ppb	-3.7208 ppb	18:54:06
1	Tl 190.801†	-159.3	-63.8	-7.4175 µg/L	-7.4175 ppb	-7.4175 ppb	18:54:26
1	U 409.014†	-141.4	109.7	-14.558 µg/L	-14.558 ppb	-14.558 ppb	18:54:06
1	V 292.402†	4081.9	4219.5	0.6141 µg/L	0.6141 ppb	0.6141 ppb	18:54:06
1	Zn 213.857†	4369.0	4384.0	8.5615 µg/L	8.5615 ppb	8.5615 ppb	18:54:26
2	Sc RADIAL	132040.0	132040.0	90.5 %			18:53:58
2	Al 396.153Radial†	2444947.4	2702202.7	500990 µg/L	500990 ppb	500990 ppb	18:53:56
2	Ca 317.933Radial†	7800125.3	8620085.6	480170 µg/L	480170 ppb	480170 ppb	18:53:56
2	Fe 238.204 Radial†	2791790.4	3085319.9	190160 µg/L	190160 ppb	190160 ppb	18:53:56
2	K 766.490 Radial†	1740.8	379.1	-100.42 µg/L	-100.42 ppb	-100.42 ppb	18:53:58
2	Mg 279.077 IEC†	1178560.0	1302345.9	485070 µg/L	485070 ppb	485070 ppb	18:53:56
2	Na 589.592 Radial†	1410.4	267.9	36.479 µg/L	36.479 ppb	36.479 ppb	18:53:58
2	Sr 421.552†	1434.5	1720.7	-0.1811 µg/L	-0.1811 ppb	-0.1811 ppb	18:53:58
2	Sc 361.383	1500109.7	1500109.7	87.306 %			18:54:29
2	Y 371.029	884042.0	884042.0	86.106 %			18:54:29
2	Ag 328.068†	6203.9	3014.6	-2.1211 µg/L	-2.1211 ppb	-2.1211 ppb	18:54:29
2	As 188.979†	-119.9	-117.0	7.2444 µg/L	7.2444 ppb	7.2444 ppb	18:54:49
2	B 249.677†	3505.1	508.8	7.4908 µg/L	7.4908 ppb	7.4908 ppb	18:54:29
2	Ba 233.527†	482.5	688.5	0.3435 µg/L	0.3435 ppb	0.3435 ppb	18:54:49
2	Be 313.107†	-1215.4	-327.4	-0.0902 µg/L	-0.0902 ppb	-0.0902 ppb	18:54:29
2	Cd 226.502†	2441.6	2914.8	-1.7901 µg/L	-1.7901 ppb	-1.7901 ppb	18:54:49
2	Co 228.616†	105.8	311.5	-6.0736 µg/L	-6.0736 ppb	-6.0736 ppb	18:54:49
2	Cr 267.716†	217.8	70.9	1.2432 µg/L	1.2432 ppb	1.2432 ppb	18:54:49
2	Cu 324.752†	-5483.5	-9253.0	4.8451 µg/L	4.8451 ppb	4.8451 ppb	18:54:29
2	Mn 257.610†	16639.0	18821.0	3.5450 µg/L	3.5450 ppb	3.5450 ppb	18:54:29
2	Mo 202.031†	-590.4	-656.1	-2.8945 µg/L	-2.8945 ppb	-2.8945 ppb	18:54:49
2	Ni 231.604†	122.0	216.3	2.4904 µg/L	2.4904 ppb	2.4904 ppb	18:54:49
2	P 214.914†	170.4	213.2	27.815 µg/L	27.815 ppb	27.815 ppb	18:54:49
2	Pb 220.353†	-391.2	-534.5	-4.9028 µg/L	-4.9028 ppb	-4.9028 ppb	18:54:49

2	S 181.975 Axial†	176.5	97.2	71.982 µg/L	71.982 ppb	18:54:49
2	Sb 206.836†	116.0	52.0	0.1714 µg/L	0.1714 ppb	18:54:49
2	Se 196.026†	-172.4	-212.7	-10.9 µg/L	-10.9 ppb	18:54:49
2	SiO2†	1633.2	95.3	9.7946 µg/L	9.7946 ppb	18:54:49
2	Si 251.611†	508.3	-254.3	-3.5215 µg/L	-3.5215 ppb	18:54:49
2	Sn 189.927†	60.8	70.8	4.4873 µg/L	4.4873 ppb	18:54:49
2	Ti 334.940†	21754.3	23964.7	-4.6112 µg/L	-4.6112 ppb	18:54:29
2	Tl 190.801†	-183.8	-93.9	-11.124 µg/L	-11.124 ppb	18:54:49
2	U 409.014†	-286.0	-57.7	-24.699 µg/L	-24.699 ppb	18:54:29
2	V 292.402†	3918.7	4084.7	-0.3553 µg/L	-0.3553 ppb	18:54:29
2	Zn 213.857†	4368.9	4439.7	8.6032 µg/L	8.6032 ppb	18:54:49
3	Sc RADIAL	128528.5	128528.5	88.1 %		18:54:02
3	Al 396.153Radial†	2425420.2	2753857.9	510560 µg/L	510560 ppb	18:54:00
3	Ca 317.933Radial†	7690261.2	8730875.1	486340 µg/L	486340 ppb	18:54:00
3	Fe 238.204 Radial†	2749581.2	3121695.4	192400 µg/L	192400 ppb	18:54:00
3	K 766.490 Radial†	1659.5	339.4	-118.61 µg/L	-118.61 ppb	18:54:02
3	Mg 279.077 IEC†	1158065.5	1314663.8	489660 µg/L	489660 ppb	18:54:00
3	Na 589.592 Radial†	1347.0	238.6	32.485 µg/L	32.485 ppb	18:54:02
3	Sr 421.552†	1492.5	1829.9	-0.0025 µg/L	-0.0025 ppb	18:54:02
3	Sc 361.383	1514195.4	1514195.4	88.126 %		18:54:52
3	Y 371.029	891947.3	891947.3	86.876 %		18:54:52
3	Ag 328.068†	6032.7	2754.1	-3.2379 µg/L	-3.2379 ppb	18:54:52
3	As 188.979†	-108.0	-102.2	12.211 µg/L	12.211 ppb	18:55:12
3	B 249.677†	3436.5	393.7	5.7936 µg/L	5.7936 ppb	18:54:52
3	Ba 233.527†	448.2	644.5	0.1380 µg/L	0.1380 ppb	18:55:12
3	Be 313.107†	-1158.8	-250.2	-0.0644 µg/L	-0.0644 ppb	18:54:52
3	Cd 226.502†	2438.6	2885.4	-2.2095 µg/L	-2.2095 ppb	18:55:12
3	Co 228.616†	90.0	292.5	-6.4255 µg/L	-6.4255 ppb	18:55:12
3	Cr 267.716†	181.2	27.0	0.9095 µg/L	0.9095 ppb	18:55:12
3	Cu 324.752†	-5570.7	-9293.5	5.1506 µg/L	5.1506 ppb	18:54:52
3	Mn 257.610†	16733.6	18751.0	3.2706 µg/L	3.2706 ppb	18:54:52
3	Mo 202.031†	-556.7	-611.6	-1.4146 µg/L	-1.4146 ppb	18:55:12
3	Ni 231.604†	136.4	231.3	2.6634 µg/L	2.6634 ppb	18:55:12
3	P 214.914†	188.3	231.6	32.331 µg/L	32.331 ppb	18:55:12
3	Pb 220.353†	-364.7	-500.2	-2.4766 µg/L	-2.4766 ppb	18:55:12
3	S 181.975 Axial†	176.2	94.9	70.345 µg/L	70.345 ppb	18:55:12
3	Sb 206.836†	127.8	64.2	1.5521 µg/L	1.5521 ppb	18:55:12
3	Se 196.026†	-157.0	-193.4	-3.16 µg/L	-3.16 ppb	18:55:12
3	SiO2†	1710.0	165.0	16.582 µg/L	16.582 ppb	18:55:12
3	Si 251.611†	438.9	-338.5	-4.7759 µg/L	-4.7759 ppb	18:55:12
3	Sn 189.927†	52.5	60.6	3.8554 µg/L	3.8554 ppb	18:55:12
3	Ti 334.940†	21892.4	23889.7	-4.9005 µg/L	-4.9005 ppb	18:54:52
3	Tl 190.801†	-161.6	-66.7	-7.7840 µg/L	-7.7840 ppb	18:55:12
3	U 409.014†	-54.1	208.5	-9.3710 µg/L	-9.3710 ppb	18:54:52
3	V 292.402†	3967.3	4098.1	-0.5042 µg/L	-0.5042 ppb	18:54:52
3	Zn 213.857†	4428.1	4460.3	8.5816 µg/L	8.5816 ppb	18:55:12

Mean Data: ICSEA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1510442.5	87.908 %	0.5273			0.60%
Sc RADIAL	130937.0	89.7 %	1.43			1.59%
Y 371.029	890285.9	86.714 %	0.5456			0.63%
Ag 328.068†	2920.6	-2.4440 µg/L	0.69159	-2.4440 ppb	0.69159	28.30%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2709930.8	502420 µg/L	7530.6	502420 ppb	7530.6	1.50%
QC value within limits for Al 396.153Radial Recovery = 100.48%						
As 188.979†	-104.0	11.111 µg/L	3.4505	11.111 ppb	3.4505	31.06%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	408.6	6.0133 µg/L	1.38084	6.0133 ppb	1.38084	22.96%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	653.5	0.2053 µg/L	0.11966	0.2053 ppb	0.11966	58.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-270.9	-0.0722 µg/L	0.01558	-0.0722 ppb	0.01558	21.57%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8612702.4	479760 µg/L	6797.7	479760 ppb	6797.7	1.42%
QC value within limits for Ca 317.933Radial Recovery = 95.95%						
Cd 226.502†	2883.6	-1.9665 µg/L	0.21751	-1.9665 ppb	0.21751	11.06%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	311.5	-6.0645 µg/L	0.36562	-6.0645 ppb	0.36562	6.03%

QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	48.1	1.0668 µg/L	0.16765	1.0668 ppb	0.16765	15.71%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	-9294.4	4.6334 µg/L	0.64943	4.6334 ppb	0.64943	14.02%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	3082452.3	189980 µg/L	2511.7	189980 ppb	2511.7	1.32%			
QC value within limits for Fe 238.204 Radial Recovery = 94.99%									
K 766.490 Radial†	327.9	-119.32 µg/L	19.263	-119.32 ppb	19.263	16.14%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1299191.2	483900 µg/L	6431.4	483900 ppb	6431.4	1.33%			
QC value within limits for Mg 279.077 IEC Recovery = 96.78%									
Mn 257.610†	18810.4	3.5791 µg/L	0.32691	3.5791 ppb	0.32691	9.13%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	-625.9	-2.0334 µg/L	0.76912	-2.0334 ppb	0.76912	37.82%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	284.5	38.753 µg/L	7.6619	38.753 ppb	7.6619	19.77%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	244.7	2.8174 µg/L	0.42544	2.8174 ppb	0.42544	15.10%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	221.6	30.035 µg/L	2.2592	30.035 ppb	2.2592	7.52%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-521.8	-4.1045 µg/L	1.40989	-4.1045 ppb	1.40989	34.35%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	98.7	73.117 µg/L	3.4814	73.117 ppb	3.4814	4.76%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	53.0	0.2957 µg/L	1.19909	0.2957 ppb	1.19909	405.55%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-194.6	-4.44 µg/L	5.948	-4.44 ppb	5.948	133.85%			
QC value within limits for Se 196.026 Recovery = Not calculated									
SiO2†	122.2	12.411 µg/L	3.6511	12.411 ppb	3.6511	29.42%			
QC value within limits for SiO2 Recovery = Not calculated									
Si 251.611†	-303.8	-4.2582 µg/L	0.65524	-4.2582 ppb	0.65524	15.39%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	60.0	3.8143 µg/L	0.69446	3.8143 ppb	0.69446	18.21%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	1770.7	-0.0740 µg/L	0.09453	-0.0740 ppb	0.09453	127.80%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	24091.8	-4.4108 µg/L	0.61484	-4.4108 ppb	0.61484	13.94%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	-74.8	-8.7751 µg/L	2.04236	-8.7751 ppb	2.04236	23.27%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	86.8	-16.209 µg/L	7.7964	-16.209 ppb	7.7964	48.10%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	4134.1	-0.0818 µg/L	0.60724	-0.0818 ppb	0.60724	742.33%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	4428.0	8.5821 µg/L	0.02081	8.5821 ppb	0.02081	0.24%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/31/2010 18:55:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSAB

Rep#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	128923.7	128923.7	88.3	%		18:55:52
1	Al 396.153Radial†	2441585.6	2763714.4	512370	µg/L	512370 ppb	18:55:50
1	Ca 317.933Radial†	7758514.8	8781367.4	489160	µg/L	489160 ppb	18:55:50
1	Fe 238.204 Radial†	2782554.2	3149448.4	194110	µg/L	194110 ppb	18:55:50
1	K 766.490 Radial†	15194.3	15653.8	5486.8	µg/L	5486.8 ppb	18:55:52
1	Mg 279.077 IEC†	1148118.0	1299373.7	483970	µg/L	483970 ppb	18:55:52
1	Na 589.592 Radial†	35618.0	39025.6	5326.3	µg/L	5326.3 ppb	18:55:52
1	Sr 421.552†	218553.1	247517.3	510.75	µg/L	510.75 ppb	18:55:52
1	Sc 361.383	1501848.4	1501848.4	87.407	%		18:56:05
1	Y 371.029	885934.6	885934.6	86.290	%		18:56:05
1	Ag 328.068†	68208.1	73943.4	266.87	µg/L	266.87 ppb	18:56:05
1	As 188.979†	1287.3	1493.1	500.98	µg/L	500.98 ppb	18:56:07
1	B 249.677†	33851.7	35222.8	517.92	µg/L	517.92 ppb	18:56:05
1	Ba 233.527†	108371.1	124119.8	498.16	µg/L	498.16 ppb	18:56:05
1	Be 313.107†	784555.4	898650.0	244.84	µg/L	244.84 ppb	18:56:05
1	Cd 226.502†	69032.6	79096.3	473.84	µg/L	473.84 ppb	18:56:05
1	Co 228.616†	31520.5	36252.0	437.70	µg/L	437.70 ppb	18:56:07
1	Cr 267.716†	53782.3	61352.1	481.07	µg/L	481.07 ppb	18:56:07
1	Cu 324.752†	114717.9	128272.9	540.53	µg/L	540.53 ppb	18:56:05
1	Mn 257.610†	356699.6	407851.6	484.93	µg/L	484.93 ppb	18:56:05
1	Mo 202.031†	13953.9	15984.3	486.45	µg/L	486.45 ppb	18:56:07
1	Ni 231.604†	34191.5	39194.0	451.29	µg/L	451.29 ppb	18:56:07
1	P 214.914†	10448.2	11971.4	2535.7	µg/L	2535.7 ppb	18:56:07
1	Pb 220.353†	6755.9	7642.9	453.53	µg/L	453.53 ppb	18:56:07
1	S 181.975 Axial†	3250.1	3613.3	2687.1	µg/L	2687.1 ppb	18:56:07
1	Sb 206.836†	3785.3	4249.8	500.40	µg/L	500.40 ppb	18:56:07
1	Se 196.026†	5624.0	6419.0	2390	µg/L	2390 ppb	18:56:07
1	SiO2†	99846.0	112455.3	10971	µg/L	10971 ppb	18:56:05
1	Si 251.611†	306352.4	349651.7	5145.5	µg/L	5145.5 ppb	18:56:05
1	Sn 189.927†	6636.1	7593.3	475.14	µg/L	475.14 ppb	18:56:07
1	Ti 334.940†	496139.0	566664.5	502.37	µg/L	502.37 ppb	18:56:05
1	Tl 190.801†	3058.5	3615.8	452.56	µg/L	452.56 ppb	18:56:07
1	U 409.014†	7410.9	8748.5	521.43	µg/L	521.43 ppb	18:56:05
1	V 292.402†	94726.2	107969.5	513.01	µg/L	513.01 ppb	18:56:05
1	Zn 213.857†	80178.7	91165.5	492.35	µg/L	492.35 ppb	18:56:05
2	Sc RADIAL	130306.5	130306.5	89.3	%		18:55:57
2	Al 396.153Radial†	2425762.3	2716664.8	503640	µg/L	503640 ppb	18:55:54
2	Ca 317.933Radial†	7696197.0	8618379.7	480080	µg/L	480080 ppb	18:55:54
2	Fe 238.204 Radial†	2760250.1	3091044.9	190510	µg/L	190510 ppb	18:55:54
2	K 766.490 Radial†	15576.4	15899.2	5580.2	µg/L	5580.2 ppb	18:55:57
2	Mg 279.077 IEC†	1163916.5	1303274.7	485430	µg/L	485430 ppb	18:55:57
2	Na 589.592 Radial†	35962.5	38983.4	5320.4	µg/L	5320.4 ppb	18:55:57
2	Sr 421.552†	221063.2	247703.0	511.20	µg/L	511.20 ppb	18:55:57
2	Sc 361.383	1503774.7	1503774.7	87.519	%		18:56:10
2	Y 371.029	887039.9	887039.9	86.398	%		18:56:10
2	Ag 328.068†	68293.1	73940.5	267.10	µg/L	267.10 ppb	18:56:10
2	As 188.979†	1349.3	1562.1	521.08	µg/L	521.08 ppb	18:56:12
2	B 249.677†	33920.1	35251.3	518.32	µg/L	518.32 ppb	18:56:10
2	Ba 233.527†	108643.6	124272.4	498.82	µg/L	498.82 ppb	18:56:10
2	Be 313.107†	786963.6	900251.8	245.27	µg/L	245.27 ppb	18:56:10
2	Cd 226.502†	69426.5	79445.1	476.40	µg/L	476.40 ppb	18:56:10
2	Co 228.616†	32044.4	36804.3	444.70	µg/L	444.70 ppb	18:56:12
2	Cr 267.716†	54375.8	61951.4	485.63	µg/L	485.63 ppb	18:56:12
2	Cu 324.752†	115372.1	128852.4	542.29	µg/L	542.29 ppb	18:56:10
2	Mn 257.610†	357810.4	408598.0	485.80	µg/L	485.80 ppb	18:56:10
2	Mo 202.031†	14059.7	16084.7	489.29	µg/L	489.29 ppb	18:56:12
2	Ni 231.604†	34695.4	39719.6	457.34	µg/L	457.34 ppb	18:56:12
2	P 214.914†	10657.1	12194.8	2584.0	µg/L	2584.0 ppb	18:56:12
2	Pb 220.353†	7007.7	7920.6	468.62	µg/L	468.62 ppb	18:56:12

2	S 181.975 Axial†	3226.8	3581.8	2663.8 µg/L	2663.8 ppb	18:56:12
2	Sb 206.836†	3801.0	4262.2	501.96 µg/L	501.96 ppb	18:56:12
2	Se 196.026†	5730.0	6531.8	2430 µg/L	2430 ppb	18:56:12
2	SiO2†	100449.1	112998.1	11024 µg/L	11024 ppb	18:56:10
2	Si 251.611†	307929.3	351004.4	5165.3 µg/L	5165.3 ppb	18:56:10
2	Sn 189.927†	6796.2	7766.5	485.94 µg/L	485.94 ppb	18:56:12
2	Ti 334.940†	498020.9	568087.6	503.35 µg/L	503.35 ppb	18:56:10
2	Tl 190.801†	3159.1	3726.2	466.12 µg/L	466.12 ppb	18:56:12
2	U 409.014†	7207.8	8505.6	507.68 µg/L	507.68 ppb	18:56:10
2	V 292.402†	94912.3	108043.3	513.79 µg/L	513.79 ppb	18:56:10
2	Zn 213.857†	80541.8	91462.8	494.31 µg/L	494.31 ppb	18:56:10
3	Sc RADIAL	130048.3	130048.3	89.1 %		18:56:01
3	Al 396.153Radial†	2433855.1	2731140.9	506330 µg/L	506330 ppb	18:55:59
3	Ca 317.933Radial†	7718645.4	8660686.5	482430 µg/L	482430 ppb	18:55:59
3	Fe 238.204 Radial†	2766938.5	3104689.2	191350 µg/L	191350 ppb	18:55:59
3	K 766.490 Radial†	15537.1	15889.7	5575.7 µg/L	5575.7 ppb	18:56:01
3	Mg 279.077 IEC†	1162812.5	1304624.6	485930 µg/L	485930 ppb	18:56:01
3	Na 589.592 Radial†	36095.8	39213.0	5351.8 µg/L	5351.8 ppb	18:56:01
3	Sr 421.552†	220343.8	247387.5	510.53 µg/L	510.53 ppb	18:56:01
3	Sc 361.383	1505253.1	1505253.1	87.605 %		18:56:15
3	Y 371.029	887796.9	887796.9	86.472 %		18:56:15
3	Ag 328.068†	68315.0	73888.9	266.85 µg/L	266.85 ppb	18:56:15
3	As 188.979†	1427.8	1650.2	547.91 µg/L	547.91 ppb	18:56:17
3	B 249.677†	34091.4	35408.8	520.64 µg/L	520.64 ppb	18:56:15
3	Ba 233.527†	108923.3	124469.7	499.60 µg/L	499.60 ppb	18:56:15
3	Be 313.107†	788697.2	901347.5	245.57 µg/L	245.57 ppb	18:56:15
3	Cd 226.502†	69816.9	79812.9	478.61 µg/L	478.61 ppb	18:56:15
3	Co 228.616†	32104.8	36837.3	445.06 µg/L	445.06 ppb	18:56:17
3	Cr 267.716†	54241.6	61737.2	483.97 µg/L	483.97 ppb	18:56:17
3	Cu 324.752†	115315.5	128658.2	541.67 µg/L	541.67 ppb	18:56:15
3	Mn 257.610†	358650.2	409155.1	486.47 µg/L	486.47 ppb	18:56:15
3	Mo 202.031†	13985.2	15983.9	486.37 µg/L	486.37 ppb	18:56:17
3	Ni 231.604†	34565.9	39532.8	455.19 µg/L	455.19 ppb	18:56:17
3	P 214.914†	10680.3	12209.4	2587.2 µg/L	2587.2 ppb	18:56:17
3	Pb 220.353†	7037.5	7946.8	470.21 µg/L	470.21 ppb	18:56:17
3	S 181.975 Axial†	3275.8	3634.2	2702.6 µg/L	2702.6 ppb	18:56:17
3	Sb 206.836†	3858.4	4323.5	509.22 µg/L	509.22 ppb	18:56:17
3	Se 196.026†	5760.2	6559.9	2440 µg/L	2440 ppb	18:56:17
3	SiO2†	100355.9	112779.0	11003 µg/L	11003 ppb	18:56:15
3	Si 251.611†	307749.7	350453.9	5157.2 µg/L	5157.2 ppb	18:56:15
3	Sn 189.927†	6900.6	7878.0	492.90 µg/L	492.90 ppb	18:56:17
3	Ti 334.940†	498757.3	568369.4	503.63 µg/L	503.63 ppb	18:56:15
3	Tl 190.801†	3121.0	3679.2	460.34 µg/L	460.34 ppb	18:56:17
3	U 409.014†	7255.1	8551.4	510.28 µg/L	510.28 ppb	18:56:15
3	V 292.402†	95008.3	108046.4	513.68 µg/L	513.68 ppb	18:56:15
3	Zn 213.857†	80688.3	91539.7	494.68 µg/L	494.68 ppb	18:56:15

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1503625.4	87.511 %	0.0994			0.11%
Sc RADIAL	129759.5	88.9 %	0.50			0.57%
Y 371.029	886923.8	86.387 %	0.0912			0.11%
Ag 328.068†	73924.3	266.94 µg/L	0.141	266.94 ppb	0.141	0.05%
QC value within limits for Ag 328.068 Recovery = 106.78%						
Al 396.153Radial†	2737173.4	507450 µg/L	4467.8	507450 ppb	4467.8	0.88%
QC value within limits for Al 396.153Radial Recovery = 101.49%						
As 188.979†	1568.5	523.32 µg/L	23.543	523.32 ppb	23.543	4.50%
QC value within limits for As 188.979 Recovery = 104.66%						
B 249.677†	35294.3	518.96 µg/L	1.468	518.96 ppb	1.468	0.28%
QC value within limits for B 249.677 Recovery = 103.79%						
Ba 233.527†	124287.3	498.86 µg/L	0.724	498.86 ppb	0.724	0.15%
QC value within limits for Ba 233.527 Recovery = 99.77%						
Be 313.107†	900083.1	245.23 µg/L	0.367	245.23 ppb	0.367	0.15%
QC value within limits for Be 313.107 Recovery = 98.09%						
Ca 317.933Radial†	8686811.2	483890 µg/L	4711.2	483890 ppb	4711.2	0.97%
QC value within limits for Ca 317.933Radial Recovery = 96.78%						
Cd 226.502†	79451.4	476.29 µg/L	2.386	476.29 ppb	2.386	0.50%
QC value within limits for Cd 226.502 Recovery = 95.26%						
Co 228.616†	36631.2	442.49 µg/L	4.152	442.49 ppb	4.152	0.94%

Cr	267.716†	61680.2	483.56 µg/L	2.310	483.56 ppb	2.310	0.48%
Cu	324.752†	128594.5	541.50 µg/L	0.893	541.50 ppb	0.893	0.16%
Fe	238.204 Radial†	3115060.8	191990 µg/L	1883.0	191990 ppb	1883.0	0.98%
K	766.490 Radial†	15814.2	5547.6 µg/L	52.66	5547.6 ppb	52.66	0.95%
Mg	279.077 IEC†	1302424.3	485110 µg/L	1017.4	485110 ppb	1017.4	0.21%
Mn	257.610†	408534.9	485.73 µg/L	0.774	485.73 ppb	0.774	0.16%
Mo	202.031†	16017.6	487.37 µg/L	1.662	487.37 ppb	1.662	0.34%
Na	589.592 Radial†	39074.0	5332.8 µg/L	16.68	5332.8 ppb	16.68	0.31%
Ni	231.604†	39482.1	454.61 µg/L	3.068	454.61 ppb	3.068	0.67%
P	214.914†	12125.2	2569.0 µg/L	28.88	2569.0 ppb	28.88	1.12%
Pb	220.353†	7836.8	464.12 µg/L	9.210	464.12 ppb	9.210	1.98%
S	181.975 Axial†	3609.8	2684.5 µg/L	19.56	2684.5 ppb	19.56	0.73%
Sb	206.836†	4278.5	503.86 µg/L	4.707	503.86 ppb	4.707	0.93%
Se	196.026†	6503.6	2420 µg/L	26.4	2420 ppb	26.4	1.09%
SiO2†		112744.1	10999 µg/L	26.6	10999 ppb	26.6	0.24%
Si	251.611†	350370.0	5156.0 µg/L	9.97	5156.0 ppb	9.97	0.19%
Sn	189.927†	7745.9	484.66 µg/L	8.948	484.66 ppb	8.948	1.85%
Sr	421.552†	247536.0	510.83 µg/L	0.344	510.83 ppb	0.344	0.07%
Ti	334.940†	567707.2	503.12 µg/L	0.662	503.12 ppb	0.662	0.13%
Tl	190.801†	3673.7	459.67 µg/L	6.804	459.67 ppb	6.804	1.48%
U	409.014†	8601.8	513.13 µg/L	7.307	513.13 ppb	7.307	1.42%
V	292.402†	108019.7	513.49 µg/L	0.422	513.49 ppb	0.422	0.08%
Zn	213.857†	91389.3	493.78 µg/L	1.251	493.78 ppb	1.251	0.25%

QC value within limits for Co 228.616 Recovery = 88.50%

QC value within limits for Cr 267.716 Recovery = 96.71%

QC value within limits for Cu 324.752 Recovery = 108.30%

QC value within limits for Fe 238.204 Radial Recovery = 96.00%

QC value within limits for K 766.490 Radial Recovery = 110.95%

QC value within limits for Mg 279.077 IEC Recovery = 97.02%

QC value within limits for Mn 257.610 Recovery = 97.15%

QC value within limits for Mo 202.031 Recovery = 97.47%

QC value within limits for Na 589.592 Radial Recovery = 106.66%

QC value within limits for Ni 231.604 Recovery = 90.92%

QC value within limits for P 214.914 Recovery = 102.76%

QC value within limits for Pb 220.353 Recovery = 92.82%

QC value within limits for S 181.975 Axial Recovery = 107.38%

QC value within limits for Sb 206.836 Recovery = 100.77%

QC value within limits for Se 196.026 Recovery = 96.73%

QC value within limits for SiO2 Recovery = 102.85%

QC value within limits for Si 251.611 Recovery = 103.12%

QC value within limits for Sn 189.927 Recovery = 96.93%

QC value within limits for Sr 421.552 Recovery = 102.17%

QC value within limits for Ti 334.940 Recovery = 100.62%

QC value within limits for Tl 190.801 Recovery = 91.93%

QC value within limits for U 409.014 Recovery = 102.63%

QC value within limits for V 292.402 Recovery = 102.70%

QC value within limits for Zn 213.857 Recovery = 98.76%

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/31/2010 18:56:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	128043.7	128043.7	87.7 %		18:56:58
1	Al 396.153Radial†	2381304.8	2714005.3	503180 µg/L	503180 ppb	18:56:56
1	Ca 317.933Radial†	7611014.0	8673613.0	483150 µg/L	483150 ppb	18:56:56
1	Fe 238.204 Radial†	6523125.5	7434173.2	458200 µg/L	458200 ppb	18:56:56
1	K 766.490 Radial†	2256.7	1027.2	53.040 µg/L	53.040 ppb	18:56:58
1	Mg 279.077 IEC†	1139739.5	1298755.6	483500 µg/L	483500 ppb	18:56:56
1	Na 589.592 Radial†	3271680.6	3727401.1	509210 µg/L	509210 ppb	18:56:56
1	Sr 421.552†	5079.9	5924.8	8.5355 µg/L	8.5355 ppb	18:56:58
1	Sc 361.383	1451583.4	1451583.4	84.482 %		18:57:26
1	Y 371.029	852879.4	852879.4	83.071 %		18:57:26
1	Ag 328.068†	2264.1	-1411.5	-0.2309 µg/L	-0.2309 ppb	18:57:26
1	As 188.979†	-305.1	-340.8	-0.3436 µg/L	-0.3436 ppb	18:57:28
1	B 249.677†	4415.2	1720.3	25.330 µg/L	25.330 ppb	18:57:26
1	Ba 233.527†	738.1	1009.5	-1.7895 µg/L	-1.7895 ppb	18:57:28
1	Be 313.107†	-15542.1	-17332.3	0.1527 µg/L	0.1527 ppb	18:57:26
1	Cd 226.502†	6136.8	7382.3	-2.0728 µg/L	-2.0728 ppb	18:57:28
1	Co 228.616†	663.9	976.1	-11.855 µg/L	-11.855 ppb	18:57:28
1	Cr 267.716†	326.4	207.8	-1.0531 µg/L	-1.0531 ppb	18:57:28
1	Cu 324.752†	-15976.1	-21882.9	8.0863 µg/L	8.0863 ppb	18:57:26
1	Mn 257.610†	18213.2	21321.4	5.9920 µg/L	5.9920 ppb	18:57:26
1	Mo 202.031†	-937.6	-1089.8	-5.0578 µg/L	-5.0578 ppb	18:57:26
1	Ni 231.604†	147.8	251.5	2.8954 µg/L	2.8954 ppb	18:57:28
1	P 214.914†	945.2	1136.8	44.272 µg/L	44.272 ppb	18:57:28
1	Pb 220.353†	-112.1	-219.1	-7.8626 µg/L	-7.8626 ppb	18:57:28
1	S 181.975 Axial†	176.1	103.3	76.471 µg/L	76.471 ppb	18:57:28
1	Sb 206.836†	186.9	140.4	7.1485 µg/L	7.1485 ppb	18:57:28
1	Se 196.026†	-404.8	-494.4	-4.21 µg/L	-4.21 ppb	18:57:28
1	SiO2†	1963.2	548.4	54.447 µg/L	54.447 ppb	18:57:28
1	Si 251.611†	-2032.7	-3242.6	-47.410 µg/L	-47.410 ppb	18:57:28
1	Sn 189.927†	64.2	77.1	4.9002 µg/L	4.9002 ppb	18:57:28
1	Ti 334.940†	26623.1	30560.8	-4.8606 µg/L	-4.8606 ppb	18:57:26
1	Tl 190.801†	-158.4	-70.8	-8.1165 µg/L	-8.1165 ppb	18:57:28
1	U 409.014†	232638.7	275640.9	16036 µg/L	16036 ppb	18:57:26
1	V 292.402†	7227.0	8150.7	1.9065 µg/L	1.9065 ppb	18:57:28
1	Zn 213.857†	8608.4	9625.2	9.4603 µg/L	9.4603 ppb	18:57:28
2	Sc RADIAL	127587.1	127587.1	87.4 %		18:57:03
2	Al 396.153Radial†	2344707.9	2681859.2	497220 µg/L	497220 ppb	18:57:01
2	Ca 317.933Radial†	7463583.8	8536029.3	475490 µg/L	475490 ppb	18:57:01
2	Fe 238.204 Radial†	6391908.1	7310696.0	450590 µg/L	450590 ppb	18:57:01
2	K 766.490 Radial†	2390.9	1189.8	117.32 µg/L	117.32 ppb	18:57:03
2	Mg 279.077 IEC†	1114206.6	1274200.4	474360 µg/L	474360 ppb	18:57:01
2	Na 589.592 Radial†	3209939.6	3670127.4	501380 µg/L	501380 ppb	18:57:01
2	Sr 421.552†	5135.8	6009.4	8.7715 µg/L	8.7715 ppb	18:57:03
2	Sc 361.383	1456448.3	1456448.3	84.765 %		18:57:30
2	Y 371.029	856251.9	856251.9	83.399 %		18:57:30
2	Ag 328.068†	2013.8	-1715.7	-1.0926 µg/L	-1.0926 ppb	18:57:30
2	As 188.979†	-237.9	-260.3	22.297 µg/L	22.297 ppb	18:57:32
2	B 249.677†	4229.1	1483.4	21.834 µg/L	21.834 ppb	18:57:30
2	Ba 233.527†	835.0	1121.0	-1.2428 µg/L	-1.2428 ppb	18:57:32
2	Be 313.107†	-15397.0	-17099.7	0.2214 µg/L	0.2214 ppb	18:57:30
2	Cd 226.502†	6036.4	7239.5	-2.1644 µg/L	-2.1644 ppb	18:57:32
2	Co 228.616†	696.8	1012.4	-11.010 µg/L	-11.010 ppb	18:57:32
2	Cr 267.716†	355.9	241.2	-0.9572 µg/L	-0.9572 ppb	18:57:32
2	Cu 324.752†	-16236.3	-22126.7	5.7984 µg/L	5.7984 ppb	18:57:30
2	Mn 257.610†	18248.7	21291.3	6.3374 µg/L	6.3374 ppb	18:57:30
2	Mo 202.031†	-933.0	-1080.6	-5.2559 µg/L	-5.2559 ppb	18:57:30
2	Ni 231.604†	134.2	234.9	2.7046 µg/L	2.7046 ppb	18:57:32
2	P 214.914†	1061.2	1269.9	76.619 µg/L	76.619 ppb	18:57:32
2	Pb 220.353†	-99.7	-204.1	-7.1629 µg/L	-7.1629 ppb	18:57:32

2	S 181.975 Axial†	67.9	-24.9	-18.790 µg/L	-18.790 ppb	18:57:32
2	Sb 206.836†	102.8	40.5	-4.5964 µg/L	-4.5964 ppb	18:57:32
2	Se 196.026†	-406.6	-495.0	-7.05 µg/L	-7.05 ppb	18:57:32
2	SiO2†	1830.8	384.5	38.395 µg/L	38.395 ppb	18:57:32
2	Si 251.611†	-1934.6	-3118.9	-45.598 µg/L	-45.598 ppb	18:57:32
2	Sn 189.927†	82.4	98.3	6.2185 µg/L	6.2185 ppb	18:57:32
2	Ti 334.940†	25364.2	28970.4	-5.8085 µg/L	-5.8085 ppb	18:57:30
2	Tl 190.801†	-211.8	-133.2	-15.794 µg/L	-15.794 ppb	18:57:32
2	U 409.014†	233675.5	275944.1	16055 µg/L	16055 ppb	18:57:30
2	V 292.402†	7224.5	8119.2	2.5727 µg/L	2.5727 ppb	18:57:32
2	Zn 213.857†	8699.2	9698.3	10.651 µg/L	10.651 ppb	18:57:32
3	Sc RADIAL	127845.5	127845.5	87.6 %		18:57:07
3	Al 396.153Radial†	2359012.1	2692767.9	499240 µg/L	499240 ppb	18:57:05
3	Ca 317.933Radial†	7510342.6	8572152.9	477500 µg/L	477500 ppb	18:57:05
3	Fe 238.204 Radial†	6434548.4	7344595.4	452680 µg/L	452680 ppb	18:57:05
3	K 766.490 Radial†	2440.5	1241.0	134.70 µg/L	134.70 ppb	18:57:07
3	Mg 279.077 IEC†	1121897.2	1280403.8	476670 µg/L	476670 ppb	18:57:05
3	Na 589.592 Radial†	3229732.0	3685301.0	503460 µg/L	503460 ppb	18:57:05
3	Sr 421.552†	4859.4	5682.0	8.0751 µg/L	8.0751 ppb	18:57:07
3	Sc 361.383	1472435.6	1472435.6	85.696 %		18:57:35
3	Y 371.029	865581.1	865581.1	84.308 %		18:57:35
3	Ag 328.068†	2006.5	-1749.9	-1.2878 µg/L	-1.2878 ppb	18:57:35
3	As 188.979†	-242.4	-262.5	22.088 µg/L	22.088 ppb	18:57:37
3	B 249.677†	4311.3	1525.1	22.443 µg/L	22.443 ppb	18:57:35
3	Ba 233.527†	597.3	832.8	-2.4315 µg/L	-2.4315 ppb	18:57:37
3	Be 313.107†	-15503.1	-17026.2	0.2432 µg/L	0.2432 ppb	18:57:35
3	Cd 226.502†	5998.3	7117.7	-3.1440 µg/L	-3.1440 ppb	18:57:37
3	Co 228.616†	825.0	1153.0	-9.3850 µg/L	-9.3850 ppb	18:57:37
3	Cr 267.716†	265.1	130.8	-1.7837 µg/L	-1.7837 ppb	18:57:37
3	Cu 324.752†	-16427.6	-22141.9	6.1120 µg/L	6.1120 ppb	18:57:35
3	Mn 257.610†	18616.4	21486.6	6.4820 µg/L	6.4820 ppb	18:57:35
3	Mo 202.031†	-951.0	-1089.6	-5.3968 µg/L	-5.3968 ppb	18:57:35
3	Ni 231.604†	238.5	354.9	4.0862 µg/L	4.0862 ppb	18:57:37
3	P 214.914†	1053.2	1246.9	70.775 µg/L	70.775 ppb	18:57:37
3	Pb 220.353†	-34.4	-126.5	-2.7794 µg/L	-2.7794 ppb	18:57:37
3	S 181.975 Axial†	188.2	114.6	84.800 µg/L	84.800 ppb	18:57:37
3	Sb 206.836†	165.1	111.8	3.8601 µg/L	3.8601 ppb	18:57:37
3	Se 196.026†	-442.3	-531.4	-19.5 µg/L	-19.5 ppb	18:57:37
3	SiO2†	1893.1	433.7	43.156 µg/L	43.156 ppb	18:57:37
3	Si 251.611†	-1908.7	-3063.9	-44.810 µg/L	-44.810 ppb	18:57:37
3	Sn 189.927†	139.3	163.7	10.296 µg/L	10.296 ppb	18:57:37
3	Ti 334.940†	26025.3	29416.9	-5.5292 µg/L	-5.5292 ppb	18:57:35
3	Tl 190.801†	-218.6	-138.4	-16.446 µg/L	-16.446 ppb	18:57:37
3	U 409.014†	236329.7	276048.2	16061 µg/L	16061 ppb	18:57:35
3	V 292.402†	7144.2	7933.0	1.4413 µg/L	1.4413 ppb	18:57:37
3	Zn 213.857†	8714.2	9604.4	9.9077 µg/L	9.9077 ppb	18:57:37

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1460155.8	84.981 %	0.6349			0.75%
Sc RADIAL	127825.4	87.6 %	0.16			0.18%
Y 371.029	858237.5	83.593 %	0.6409			0.77%
Ag 328.068†	-1625.7	-0.8704 µg/L	0.56237	-0.8704 ppb	0.56237	64.61%
Al 396.153Radial†	2696210.8	499880 µg/L	3030.8	499880 ppb	3030.8	0.61%
QC value within limits for Al 396.153Radial Recovery = 99.98%						
As 188.979†	-287.9	14.680 µg/L	13.0115	14.680 ppb	13.0115	88.63%
B 249.677†	1576.2	23.202 µg/L	1.8679	23.202 ppb	1.8679	8.05%
Ba 233.527†	987.8	-1.8213 µg/L	0.59497	-1.8213 ppb	0.59497	32.67%
Be 313.107†	-17152.7	0.2058 µg/L	0.04725	0.2058 ppb	0.04725	22.96%
Ca 317.933Radial†	8593931.8	478720 µg/L	3973.4	478720 ppb	3973.4	0.83%
QC value within limits for Ca 317.933Radial Recovery = 95.74%						
Cd 226.502†	7246.5	-2.4604 µg/L	0.59380	-2.4604 ppb	0.59380	24.13%
Co 228.616†	1047.2	-10.750 µg/L	1.2554	-10.750 ppb	1.2554	11.68%
Cr 267.716†	193.3	-1.2647 µg/L	0.45201	-1.2647 ppb	0.45201	35.74%
Cu 324.752†	-22050.5	6.6655 µg/L	1.24035	6.6655 ppb	1.24035	18.61%
Fe 238.204 Radial†	7363154.9	453820 µg/L	3932.0	453820 ppb	3932.0	0.87%
QC value within limits for Fe 238.204 Radial Recovery = 90.76%						
K 766.490 Radial†	1152.7	101.69 µg/L	43.017	101.69 ppb	43.017	42.30%
Mg 279.077 IEC†	1284453.2	478180 µg/L	4754.0	478180 ppb	4754.0	0.99%

QC value within limits for Mg 279.077 IEC Recovery = 95.64%

Mn 257.610†	21366.4	6.2705 µg/L	0.25177	6.2705 ppb	0.25177	4.02%
Mo 202.031†	-1086.7	-5.2368 µg/L	0.17026	-5.2368 ppb	0.17026	3.25%
Na 589.592 Radial†	3694276.5	504680 µg/L	4053.7	504680 ppb	4053.7	0.80%

QC value within limits for Na 589.592 Radial Recovery = 100.94%

Ni 231.604†	280.4	3.2287 µg/L	0.74869	3.2287 ppb	0.74869	23.19%
P 214.914†	1217.9	63.889 µg/L	17.2380	63.889 ppb	17.2380	26.98%
Pb 220.353†	-183.2	-5.9350 µg/L	2.75510	-5.9350 ppb	2.75510	46.42%
S 181.975 Axial†	64.3	47.494 µg/L	57.5543	47.494 ppb	57.5543	121.18%
Sb 206.836†	97.6	2.1374 µg/L	6.05903	2.1374 ppb	6.05903	283.48%
Se 196.026†	-506.9	-10.3 µg/L	8.13	-10.3 ppb	8.13	79.29%
SiO2†	455.6	45.333 µg/L	8.2442	45.333 ppb	8.2442	18.19%
Si 251.611†	-3141.8	-45.939 µg/L	1.3330	-45.939 ppb	1.3330	2.90%
Sn 189.927†	113.0	7.1383 µg/L	2.81321	7.1383 ppb	2.81321	39.41%
Sr 421.552†	5872.1	8.4607 µg/L	0.35414	8.4607 ppb	0.35414	4.19%
Ti 334.940†	29649.4	-5.3994 µg/L	0.48710	-5.3994 ppb	0.48710	9.02%
Tl 190.801†	-114.1	-13.452 µg/L	4.6323	-13.452 ppb	4.6323	34.44%
U 409.014†	275877.8	16051 µg/L	13.0	16051 ppb	13.0	0.08%

QC value within limits for U 409.014 Recovery = 107.00%

V 292.402†	8067.6	1.9735 µg/L	0.56868	1.9735 ppb	0.56868	28.82%
Zn 213.857†	9642.6	10.006 µg/L	0.6012	10.006 ppb	0.6012	6.01%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/31/2010 18:57:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	138428.5	138428.5	94.9 %		18:58:18
1	Al 396.153Radial†	2589.6	2793.1	65.979 µg/L	65.979 ppb	18:58:20
1	Ca 317.933Radial†	2182.0	1739.6	96.903 µg/L	96.903 ppb	18:58:20
1	Fe 238.204 Radial†	-202.3	-361.4	-22.274 µg/L	-22.274 ppb	18:58:20
1	K 766.490 Radial†	763320.3	803139.1	294040 µg/L	294040 ppb	18:58:18
1	Mg 279.077 IEC†	-318.7	-526.7	41.787 µg/L	41.787 ppb	18:58:20
1	Na 589.592 Radial†	4722.3	3687.4	242.24 µg/L	242.24 ppb	18:58:18
1	Sr 421.552†	4464241.5	4706289.3	9784.1 µg/L	9784.1 ppb	18:58:15
1	Sc 361.383	1644054.1	1644054.1	95.684 %		18:58:42
1	Y 371.029	958940.9	958940.9	93.401 %		18:58:42
1	Ag 328.068†	-28181.7	-33544.4	-7.2060 µg/L	-7.2060 ppb	18:58:44
1	As 188.979†	32117.0	33586.2	10409 µg/L	10409 ppb	18:58:44
1	B 249.677†	322787.1	333842.2	4891.3 µg/L	4891.3 ppb	18:58:42
1	Ba 233.527†	3263599.9	3410957.3	13754 µg/L	13754 ppb	18:58:42
1	Be 313.107†	10059777.2	10514640.1	2862.8 µg/L	2862.8 ppb	18:58:38
1	Cd 226.502†	1463937.1	1530093.7	9561.7 µg/L	9561.7 ppb	18:58:42
1	Co 228.616†	720309.4	752993.0	9307.6 µg/L	9307.6 ppb	18:58:42
1	Cr 267.716†	2891693.7	3021959.9	23671 µg/L	23671 ppb	18:58:42
1	Cu 324.752†	4894436.4	5112253.1	19872 µg/L	19872 ppb	18:58:42
1	Mn 257.610†	7191165.6	7515323.1	9298.7 µg/L	9298.7 ppb	18:58:42
1	Mo 202.031†	316742.4	331050.8	9732.5 µg/L	9732.5 ppb	18:58:44
1	Ni 231.604†	799875.1	836034.2	9626.3 µg/L	9626.3 ppb	18:58:42
1	P 214.914†	68547.5	71657.7	15093 µg/L	15093 ppb	18:58:44
1	Pb 220.353†	401154.4	419164.2	23428 µg/L	23428 ppb	18:58:42
1	S 181.975 Axial†	67316.5	70248.1	52247 µg/L	52247 ppb	18:58:44
1	Sb 206.836†	80773.2	84336.1	9841.1 µg/L	9841.1 ppb	18:58:44
1	Se 196.026†	26033.9	27193.0	9830 µg/L	9830 ppb	18:58:44
1	SiO2†	974638.1	1016828.8	98967 µg/L	98967 ppb	18:58:42
1	Si 251.611†	3010622.9	3145596.0	46180 µg/L	46180 ppb	18:58:42
1	Sn 189.927†	151635.6	158477.0	9912.7 µg/L	9912.7 ppb	18:58:44
1	Ti 334.940†	10132846.9	10588988.8	9885.3 µg/L	9885.3 ppb	18:58:38
1	Tl 190.801†	74051.0	77508.1	9673.9 µg/L	9673.9 ppb	18:58:44
1	U 409.014†	-10469.2	-10671.6	-21.061 µg/L	-21.061 ppb	18:58:44
1	V 292.402†	1944343.2	2031649.1	10104 µg/L	10104 ppb	18:58:42
1	Zn 213.857†	2422227.0	2530929.6	14143 µg/L	14143 ppb	18:58:42
2	Sc RADIAL	138489.8	138489.8	94.9 %		18:58:24
2	Al 396.153Radial†	2632.4	2837.1	80.052 µg/L	80.052 ppb	18:58:26
2	Ca 317.933Radial†	2111.9	1664.8	92.734 µg/L	92.734 ppb	18:58:26
2	Fe 238.204 Radial†	-168.1	-325.2	-20.046 µg/L	-20.046 ppb	18:58:26
2	K 766.490 Radial†	768501.7	808242.3	295910 µg/L	295910 ppb	18:58:24
2	Mg 279.077 IEC†	-343.1	-552.3	29.128 µg/L	29.128 ppb	18:58:26
2	Na 589.592 Radial†	4657.2	3616.6	230.89 µg/L	230.89 ppb	18:58:24
2	Sr 421.552†	4443237.9	4682072.2	9733.8 µg/L	9733.8 ppb	18:58:22
2	Sc 361.383	1654174.4	1654174.4	96.273 %		18:58:52
2	Y 371.029	964160.7	964160.7	93.910 %		18:58:52
2	Ag 328.068†	-27980.3	-33155.0	-5.4230 µg/L	-5.4230 ppb	18:58:54
2	As 188.979†	31657.2	32903.2	10204 µg/L	10204 ppb	18:58:54
2	B 249.677†	326358.6	335488.1	4915.4 µg/L	4915.4 ppb	18:58:52
2	Ba 233.527†	3296633.7	3424402.5	13809 µg/L	13809 ppb	18:58:52
2	Be 313.107†	10113068.4	10505672.2	2860.3 µg/L	2860.3 ppb	18:58:48
2	Cd 226.502†	1483425.3	1540976.0	9629.7 µg/L	9629.7 ppb	18:58:52
2	Co 228.616†	729085.8	757503.5	9363.3 µg/L	9363.3 ppb	18:58:52
2	Cr 267.716†	2922280.8	3035241.6	23775 µg/L	23775 ppb	18:58:52
2	Cu 324.752†	4934401.1	5122469.9	19912 µg/L	19912 ppb	18:58:52
2	Mn 257.610†	7264987.1	7546022.1	9336.7 µg/L	9336.7 ppb	18:58:52
2	Mo 202.031†	314514.5	326711.4	9605.0 µg/L	9605.0 ppb	18:58:54
2	Ni 231.604†	809217.8	840624.1	9679.2 µg/L	9679.2 ppb	18:58:52
2	P 214.914†	67979.1	70628.9	14873 µg/L	14873 ppb	18:58:54
2	Pb 220.353†	406432.6	422081.8	23591 µg/L	23591 ppb	18:58:52

2	S 181.975 Axial†	66600.5	69074.0	51374 µg/L	51374 ppb	18:58:54
2	Sb 206.836†	80074.2	83093.5	9689.8 µg/L	9689.8 ppb	18:58:54
2	Se 196.026†	25686.7	26665.9	9640 µg/L	9640 ppb	18:58:54
2	SiO2†	986400.6	1022814.9	99557 µg/L	99557 ppb	18:58:52
2	Si 251.611†	3046941.6	3164070.8	46455 µg/L	46455 ppb	18:58:52
2	Sn 189.927†	150469.1	156295.8	9776.7 µg/L	9776.7 ppb	18:58:54
2	Ti 334.940†	10189195.0	10582728.8	9879.4 µg/L	9879.4 ppb	18:58:48
2	Tl 190.801†	73611.8	76578.5	9559.6 µg/L	9559.6 ppb	18:58:54
2	U 409.014†	-10364.3	-10495.7	-9.0352 µg/L	-9.0352 ppb	18:58:54
2	V 292.402†	1961854.5	2037406.1	10131 µg/L	10131 ppb	18:58:52
2	Zn 213.857†	2448683.7	2542922.9	14210 µg/L	14210 ppb	18:58:52
3	Sc RADIAL	137437.4	137437.4	94.2 %		18:58:31
3	Al 396.153Radial†	2618.6	2843.6	77.986 µg/L	77.986 ppb	18:58:33
3	Ca 317.933Radial†	2227.5	1804.6	100.52 µg/L	100.52 ppb	18:58:33
3	Fe 238.204 Radial†	-164.9	-323.2	-19.923 µg/L	-19.923 ppb	18:58:33
3	K 766.490 Radial†	765491.4	811247.2	297010 µg/L	297010 ppb	18:58:31
3	Mg 279.077 IEC†	-295.0	-503.9	48.881 µg/L	48.881 ppb	18:58:33
3	Na 589.592 Radial†	4456.0	3440.6	205.87 µg/L	205.87 ppb	18:58:31
3	Sr 421.552†	4441067.4	4715621.3	9803.5 µg/L	9803.5 ppb	18:58:29
3	Sc 361.383	1660837.4	1660837.4	96.660 %		18:59:01
3	Y 371.029	967825.2	967825.2	94.267 %		18:59:01
3	Ag 328.068†	-28451.9	-33526.3	-6.5821 µg/L	-6.5821 ppb	18:59:04
3	As 188.979†	32300.2	33436.5	10365 µg/L	10365 ppb	18:59:04
3	B 249.677†	328722.2	336573.4	4931.3 µg/L	4931.3 ppb	18:59:01
3	Ba 233.527†	3317615.9	3432372.0	13841 µg/L	13841 ppb	18:59:01
3	Be 313.107†	10133998.6	10485182.6	2854.7 µg/L	2854.7 ppb	18:58:58
3	Cd 226.502†	1494854.9	1546618.8	9664.9 µg/L	9664.9 ppb	18:59:01
3	Co 228.616†	734092.5	759645.0	9389.8 µg/L	9389.8 ppb	18:59:01
3	Cr 267.716†	2940364.9	3041773.0	23826 µg/L	23826 ppb	18:59:01
3	Cu 324.752†	4964197.6	5132733.3	19952 µg/L	19952 ppb	18:59:01
3	Mn 257.610†	7309991.3	7562306.7	9356.8 µg/L	9356.8 ppb	18:59:01
3	Mo 202.031†	318101.3	329111.4	9675.5 µg/L	9675.5 ppb	18:59:04
3	Ni 231.604†	815203.0	843443.9	9711.6 µg/L	9711.6 ppb	18:59:01
3	P 214.914†	69129.8	71536.1	15067 µg/L	15067 ppb	18:59:04
3	Pb 220.353†	409679.7	423747.3	23684 µg/L	23684 ppb	18:59:01
3	S 181.975 Axial†	67967.3	70210.4	52219 µg/L	52219 ppb	18:59:04
3	Sb 206.836†	81066.4	83786.4	9772.6 µg/L	9772.6 ppb	18:59:04
3	Se 196.026†	26138.8	27026.6	9770 µg/L	9770 ppb	18:59:04
3	SiO2†	993772.6	1026331.1	99898 µg/L	99898 ppb	18:59:01
3	Si 251.611†	3070650.4	3175901.7	46628 µg/L	46628 ppb	18:59:01
3	Sn 189.927†	152708.7	157985.7	9882.0 µg/L	9882.0 ppb	18:59:04
3	Ti 334.940†	10211863.8	10563720.7	9861.6 µg/L	9861.6 ppb	18:58:58
3	Tl 190.801†	74486.4	77176.5	9633.0 µg/L	9633.0 ppb	18:59:04
3	U 409.014†	-10678.1	-10777.2	-24.287 µg/L	-24.287 ppb	18:59:04
3	V 292.402†	1973672.0	2041456.5	10152 µg/L	10152 ppb	18:59:01
3	Zn 213.857†	2465384.0	2549996.1	14250 µg/L	14250 ppb	18:59:01

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1653021.9	96.206 %	0.4918			0.51%
Sc RADIAL	138118.6	94.6 %	0.40			0.43%
Y 371.029	963642.3	93.859 %	0.4349			0.46%
Ag 328.068†	-33408.6	-6.4037 µg/L	0.90480	-6.4037 ppb	0.90480	14.13%
Al 396.153Radial†	2824.6	74.672 µg/L	7.5994	74.672 ppb	7.5994	10.18%
As 188.979†	33308.6	10326 µg/L	108.5	10326 ppb	108.5	1.05%
QC value within limits for As 188.979 Recovery = 103.26%						
B 249.677†	335301.2	4912.7 µg/L	20.14	4912.7 ppb	20.14	0.41%
QC value within limits for B 249.677 Recovery = 98.25%						
Ba 233.527†	3422577.3	13801 µg/L	43.6	13801 ppb	43.6	0.32%
QC value within limits for Ba 233.527 Recovery = 92.01%						
Be 313.107†	10501831.6	2859.3 µg/L	4.11	2859.3 ppb	4.11	0.14%
QC value within limits for Be 313.107 Recovery = 95.31%						
Ca 317.933Radial†	1736.3	96.720 µg/L	3.8970	96.720 ppb	3.8970	4.03%
Cd 226.502†	1539229.5	9618.8 µg/L	52.49	9618.8 ppb	52.49	0.55%
QC value within limits for Cd 226.502 Recovery = 96.19%						
Co 228.616†	756713.8	9353.6 µg/L	41.95	9353.6 ppb	41.95	0.45%
QC value within limits for Co 228.616 Recovery = 93.54%						
Cr 267.716†	3032991.5	23758 µg/L	79.1	23758 ppb	79.1	0.33%
QC value within limits for Cr 267.716 Recovery = 95.03%						

Cu 324.752†	5122485.4	19912 µg/L	39.8	19912 ppb	39.8	0.20%
QC value within limits for Cu 324.752 Recovery = 99.56%						
Fe 238.204 Radial†	-336.6	-20.748 µg/L	1.3234	-20.748 ppb	1.3234	6.38%
K 766.490 Radial†	807542.9	295650 µg/L	1500.7	295650 ppb	1500.7	0.51%
QC value within limits for K 766.490 Radial Recovery = 98.55%						
Mg 279.077 IEC†	-527.6	39.932 µg/L	10.0061	39.932 ppb	10.0061	25.06%
Mn 257.610†	7541217.3	9330.7 µg/L	29.52	9330.7 ppb	29.52	0.32%
QC value within limits for Mn 257.610 Recovery = 93.31%						
Mo 202.031†	328957.9	9671.0 µg/L	63.88	9671.0 ppb	63.88	0.66%
QC value within limits for Mo 202.031 Recovery = 96.71%						
Na 589.592 Radial†	3581.5	226.33 µg/L	18.607	226.33 ppb	18.607	8.22%
Ni 231.604†	840034.1	9672.4 µg/L	43.06	9672.4 ppb	43.06	0.45%
QC value within limits for Ni 231.604 Recovery = 96.72%						
P 214.914†	71274.3	15011 µg/L	120.3	15011 ppb	120.3	0.80%
QC value within limits for P 214.914 Recovery = 100.07%						
Pb 220.353†	421664.4	23568 µg/L	129.3	23568 ppb	129.3	0.55%
QC value within limits for Pb 220.353 Recovery = 94.27%						
S 181.975 Axial†	69844.2	51947 µg/L	496.0	51947 ppb	496.0	0.95%
QC value within limits for S 181.975 Axial Recovery = 103.89%						
Sb 206.836†	83738.7	9767.8 µg/L	75.75	9767.8 ppb	75.75	0.78%
QC value within limits for Sb 206.836 Recovery = 97.68%						
Se 196.026†	26961.8	9750 µg/L	97.4	9750 ppb	97.4	1.00%
QC value within limits for Se 196.026 Recovery = 97.47%						
SiO2†	1021991.6	99474 µg/L	471.0	99474 ppb	471.0	0.47%
QC value within limits for SiO2 Recovery = 92.97%						
Si 251.611†	3161856.2	46421 µg/L	225.8	46421 ppb	225.8	0.49%
QC value within limits for Si 251.611 Recovery = 92.84%						
Sn 189.927†	157586.2	9857.1 µg/L	71.32	9857.1 ppb	71.32	0.72%
QC value within limits for Sn 189.927 Recovery = 98.57%						
Sr 421.552†	4701327.6	9773.8 µg/L	36.00	9773.8 ppb	36.00	0.37%
QC value within limits for Sr 421.552 Recovery = 97.74%						
Ti 334.940†	10578479.4	9875.4 µg/L	12.32	9875.4 ppb	12.32	0.12%
QC value within limits for Ti 334.940 Recovery = 98.75%						
Tl 190.801†	77087.7	9622.1 µg/L	57.90	9622.1 ppb	57.90	0.60%
QC value within limits for Tl 190.801 Recovery = 96.22%						
U 409.014†	-10648.1	-18.128 µg/L	8.0380	-18.128 ppb	8.0380	44.34%
V 292.402†	2036837.3	10129 µg/L	24.0	10129 ppb	24.0	0.24%
QC value within limits for V 292.402 Recovery = 101.29%						
Zn 213.857†	2541282.9	14201 µg/L	53.8	14201 ppb	53.8	0.38%
QC value within limits for Zn 213.857 Recovery = 94.68%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 18:59:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142139.5	142139.5	97.4 %		18:59:45
1	Al 396.153Radial†	26433.8	27201.9	5020.1 µg/L	5020.1 ppb	18:59:45
1	Ca 317.933Radial†	88689.7	90494.1	5040.9 µg/L	5040.9 ppb	18:59:45
1	Fe 238.204 Radial†	79307.5	81274.2	5009.2 µg/L	5009.2 ppb	18:59:45
1	K 766.490 Radial†	16771.4	15673.9	5734.3 µg/L	5734.3 ppb	18:59:45
1	Mg 279.077 IEC†	13660.1	13833.7	5162.1 µg/L	5162.1 ppb	18:59:45
1	Na 589.592 Radial†	73293.1	73956.7	10098 µg/L	10098 ppb	18:59:45
1	Sr 421.552†	230485.0	236766.3	492.18 µg/L	492.18 ppb	18:59:42
1	Sc 361.383	1685039.5	1685039.5	98.069 %		19:00:11
1	Y 371.029	998501.4	998501.4	97.255 %		19:00:11
1	Ag 328.068†	132676.3	131197.3	491.97 µg/L	491.97 ppb	19:00:11
1	As 188.979†	1601.0	1652.9	507.06 µg/L	507.06 ppb	19:00:31
1	B 249.677†	36255.7	33463.6	491.81 µg/L	491.81 ppb	19:00:11
1	Ba 233.527†	119950.7	122448.3	493.83 µg/L	493.83 ppb	19:00:11
1	Be 313.107†	1777442.6	1813504.8	493.92 µg/L	493.92 ppb	19:00:11
1	Cd 226.502†	77121.2	78757.9	491.64 µg/L	491.64 ppb	19:00:11
1	Co 228.616†	39140.7	40101.7	495.05 µg/L	495.05 ppb	19:00:11
1	Cr 267.716†	61794.1	62832.3	491.97 µg/L	491.97 ppb	19:00:11
1	Cu 324.752†	126997.2	126525.5	493.24 µg/L	493.24 ppb	19:00:11
1	Mn 257.610†	392842.9	400340.6	495.12 µg/L	495.12 ppb	19:00:11
1	Mo 202.031†	16539.5	16885.3	496.69 µg/L	496.69 ppb	19:00:31
1	Ni 231.604†	41890.8	42792.1	492.72 µg/L	492.72 ppb	19:00:11
1	P 214.914†	11336.8	11578.0	2467.8 µg/L	2467.8 ppb	19:00:31
1	Pb 220.353†	8936.3	9025.8	505.42 µg/L	505.42 ppb	19:00:31
1	S 181.975 Axial†	1440.2	1363.5	1016.7 µg/L	1016.7 ppb	19:00:31
1	Sb 206.836†	4150.3	4151.2	494.66 µg/L	494.66 ppb	19:00:31
1	Se 196.026†	1355.8	1367.2	496 µg/L	496 ppb	19:00:31
1	SiO2†	55729.4	55051.3	5359.5 µg/L	5359.5 ppb	19:00:11
1	Si 251.611†	167770.7	170237.6	2499.9 µg/L	2499.9 ppb	19:00:11
1	Sn 189.927†	7832.4	7987.8	499.62 µg/L	499.62 ppb	19:00:31
1	Ti 334.940†	519447.4	528722.7	493.33 µg/L	493.33 ppb	19:00:11
1	Tl 190.801†	3833.0	4025.2	501.97 µg/L	501.97 ppb	19:00:31
1	U 409.014†	7396.5	7812.0	486.67 µg/L	486.67 ppb	19:00:11
1	V 292.402†	98795.4	100336.9	496.05 µg/L	496.05 ppb	19:00:11
1	Zn 213.857†	87637.0	88798.1	494.94 µg/L	494.94 ppb	19:00:11
2	Sc RADIAL	141405.1	141405.1	96.9 %		18:59:49
2	Al 396.153Radial†	26316.7	27222.0	5023.9 µg/L	5023.9 ppb	18:59:49
2	Ca 317.933Radial†	88132.2	90391.6	5035.2 µg/L	5035.2 ppb	18:59:49
2	Fe 238.204 Radial†	78428.2	80789.6	4979.4 µg/L	4979.4 ppb	18:59:49
2	K 766.490 Radial†	16577.4	15563.0	5693.7 µg/L	5693.7 ppb	18:59:49
2	Mg 279.077 IEC†	13417.4	13656.1	5095.9 µg/L	5095.9 ppb	18:59:49
2	Na 589.592 Radial†	72730.8	73767.2	10072 µg/L	10072 ppb	18:59:49
2	Sr 421.552†	231214.8	238748.4	496.30 µg/L	496.30 ppb	18:59:47
2	Sc 361.383	1693366.2	1693366.2	98.554 %		19:00:35
2	Y 371.029	1002117.3	1002117.3	97.607 %		19:00:35
2	Ag 328.068†	134028.3	131903.9	494.57 µg/L	494.57 ppb	19:00:35
2	As 188.979†	1592.6	1636.4	502.08 µg/L	502.08 ppb	19:00:55
2	B 249.677†	36515.2	33545.2	493.02 µg/L	493.02 ppb	19:00:35
2	Ba 233.527†	120680.2	122587.1	494.39 µg/L	494.39 ppb	19:00:35
2	Be 313.107†	1789722.9	1817053.1	494.89 µg/L	494.89 ppb	19:00:35
2	Cd 226.502†	77769.6	79029.1	493.33 µg/L	493.33 ppb	19:00:35
2	Co 228.616†	39338.4	40106.1	495.11 µg/L	495.11 ppb	19:00:35
2	Cr 267.716†	62316.9	63052.8	493.70 µg/L	493.70 ppb	19:00:35
2	Cu 324.752†	127673.8	126575.3	493.42 µg/L	493.42 ppb	19:00:35
2	Mn 257.610†	395604.2	401172.7	496.16 µg/L	496.16 ppb	19:00:35
2	Mo 202.031†	16605.0	16868.7	496.20 µg/L	496.20 ppb	19:00:55
2	Ni 231.604†	42250.6	42947.2	494.51 µg/L	494.51 ppb	19:00:35
2	P 214.914†	11392.0	11577.2	2467.6 µg/L	2467.6 ppb	19:00:55
2	Pb 220.353†	8993.4	9039.0	506.15 µg/L	506.15 ppb	19:00:55

2	S 181.975 Axial†	1441.0	1357.1	1011.9 µg/L	1011.9 ppb	19:00:55
2	Sb 206.836†	4173.3	4153.7	494.93 µg/L	494.93 ppb	19:00:55
2	Se 196.026†	1369.6	1374.4	499 µg/L	499 ppb	19:00:55
2	SiO2†	55740.1	54782.8	5333.3 µg/L	5333.3 ppb	19:00:35
2	Si 251.611†	168764.7	170404.9	2502.4 µg/L	2502.4 ppb	19:00:35
2	Sn 189.927†	7855.7	7972.1	498.64 µg/L	498.64 ppb	19:00:55
2	Ti 334.940†	522510.2	529225.9	493.80 µg/L	493.80 ppb	19:00:35
2	Tl 190.801†	3874.1	4047.6	504.73 µg/L	504.73 ppb	19:00:55
2	U 409.014†	7341.8	7719.4	481.23 µg/L	481.23 ppb	19:00:35
2	V 292.402†	99158.5	100210.0	495.43 µg/L	495.43 ppb	19:00:35
2	Zn 213.857†	88086.4	88814.8	495.03 µg/L	495.03 ppb	19:00:35
3	Sc RADIAL	143105.8	143105.8	98.1 %		18:59:53
3	Al 396.153Radial†	26546.6	27133.7	5007.7 µg/L	5007.7 ppb	18:59:53
3	Ca 317.933Radial†	89145.0	90343.6	5032.5 µg/L	5032.5 ppb	18:59:53
3	Fe 238.204 Radial†	79321.5	80738.7	4976.2 µg/L	4976.2 ppb	18:59:53
3	K 766.490 Radial†	16684.6	15469.1	5659.4 µg/L	5659.4 ppb	18:59:53
3	Mg 279.077 IEC†	13656.7	13735.5	5125.4 µg/L	5125.4 ppb	18:59:53
3	Na 589.592 Radial†	73452.5	73611.2	10051 µg/L	10051 ppb	18:59:53
3	Sr 421.552†	233202.1	237939.3	494.62 µg/L	494.62 ppb	18:59:51
3	Sc 361.383	1698557.6	1698557.6	98.856 %		19:00:58
3	Y 371.029	1005300.2	1005300.2	97.917 %		19:00:58
3	Ag 328.068†	134027.1	131487.0	493.03 µg/L	493.03 ppb	19:00:58
3	As 188.979†	1600.3	1639.2	502.90 µg/L	502.90 ppb	19:01:18
3	B 249.677†	36626.1	33544.1	493.00 µg/L	493.00 ppb	19:00:58
3	Ba 233.527†	120865.6	122400.4	493.64 µg/L	493.64 ppb	19:00:58
3	Be 313.107†	1794818.7	1816657.7	494.78 µg/L	494.78 ppb	19:00:58
3	Cd 226.502†	77952.7	78973.1	492.98 µg/L	492.98 ppb	19:00:58
3	Co 228.616†	39410.3	40056.7	494.50 µg/L	494.50 ppb	19:00:58
3	Cr 267.716†	62267.5	62809.6	491.79 µg/L	491.79 ppb	19:00:58
3	Cu 324.752†	127710.6	126216.6	492.03 µg/L	492.03 ppb	19:00:58
3	Mn 257.610†	396581.9	400934.9	495.86 µg/L	495.86 ppb	19:00:58
3	Mo 202.031†	16557.8	16769.5	493.29 µg/L	493.29 ppb	19:01:18
3	Ni 231.604†	42318.2	42884.5	493.78 µg/L	493.78 ppb	19:00:58
3	P 214.914†	11368.7	11518.2	2455.0 µg/L	2455.0 ppb	19:01:18
3	Pb 220.353†	8920.7	8937.6	500.48 µg/L	500.48 ppb	19:01:18
3	S 181.975 Axial†	1449.3	1361.0	1014.8 µg/L	1014.8 ppb	19:01:18
3	Sb 206.836†	4163.9	4131.2	492.23 µg/L	492.23 ppb	19:01:18
3	Se 196.026†	1367.7	1368.2	497 µg/L	497 ppb	19:01:18
3	SiO2†	55966.4	54838.9	5338.9 µg/L	5338.9 ppb	19:00:58
3	Si 251.611†	169027.1	170146.9	2498.6 µg/L	2498.6 ppb	19:00:58
3	Sn 189.927†	7816.0	7907.6	494.62 µg/L	494.62 ppb	19:01:18
3	Ti 334.940†	523522.3	528629.3	493.24 µg/L	493.24 ppb	19:00:58
3	Tl 190.801†	3828.1	3989.1	497.54 µg/L	497.54 ppb	19:01:18
3	U 409.014†	7431.2	7787.1	485.18 µg/L	485.18 ppb	19:00:58
3	V 292.402†	99434.0	100181.1	495.25 µg/L	495.25 ppb	19:00:58
3	Zn 213.857†	87848.2	88300.5	492.15 µg/L	492.15 ppb	19:00:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1692321.1	98.493 %	0.3969			0.40%
Sc RADIAL	142216.8	97.5 %	0.58			0.60%
Y 371.029	1001973.0	97.593 %	0.3313			0.34%
Ag 328.068†	131529.4	493.19 µg/L	1.309	493.19 ppb	1.309	0.27%
QC value within limits for Ag 328.068 Recovery = 98.64%						
Al 396.153Radial†	27185.9	5017.2 µg/L	8.50	5017.2 ppb	8.50	0.17%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	1642.8	504.02 µg/L	2.669	504.02 ppb	2.669	0.53%
QC value within limits for As 188.979 Recovery = 100.80%						
B 249.677†	33517.6	492.61 µg/L	0.690	492.61 ppb	0.690	0.14%
QC value within limits for B 249.677 Recovery = 98.52%						
Ba 233.527†	122478.6	493.95 µg/L	0.391	493.95 ppb	0.391	0.08%
QC value within limits for Ba 233.527 Recovery = 98.79%						
Be 313.107†	1815738.5	494.53 µg/L	0.529	494.53 ppb	0.529	0.11%
QC value within limits for Be 313.107 Recovery = 98.91%						
Ca 317.933Radial†	90409.8	5036.2 µg/L	4.28	5036.2 ppb	4.28	0.09%
QC value within limits for Ca 317.933Radial Recovery = 100.72%						
Cd 226.502†	78920.1	492.65 µg/L	0.896	492.65 ppb	0.896	0.18%
QC value within limits for Cd 226.502 Recovery = 98.53%						
Co 228.616†	40088.2	494.89 µg/L	0.337	494.89 ppb	0.337	0.07%

QC value within limits for Co 228.616 Recovery = 98.98%							
Cr 267.716†	62898.2	492.49 µg/L	1.054	492.49 ppb	1.054	0.21%	
QC value within limits for Cr 267.716 Recovery = 98.50%							
Cu 324.752†	126439.1	492.90 µg/L	0.756	492.90 ppb	0.756	0.15%	
QC value within limits for Cu 324.752 Recovery = 98.58%							
Fe 238.204 Radial†	80934.2	4988.3 µg/L	18.22	4988.3 ppb	18.22	0.37%	
QC value within limits for Fe 238.204 Radial Recovery = 99.77%							
K 766.490 Radial†	15568.7	5695.8 µg/L	37.52	5695.8 ppb	37.52	0.66%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 113.92%							
Mg 279.077 IEC†	13741.8	5127.8 µg/L	33.15	5127.8 ppb	33.15	0.65%	
QC value within limits for Mg 279.077 IEC Recovery = 102.56%							
Mn 257.610†	400816.1	495.71 µg/L	0.532	495.71 ppb	0.532	0.11%	
QC value within limits for Mn 257.610 Recovery = 99.14%							
Mo 202.031†	16841.2	495.39 µg/L	1.841	495.39 ppb	1.841	0.37%	
QC value within limits for Mo 202.031 Recovery = 99.08%							
Na 589.592 Radial†	73778.4	10074 µg/L	23.6	10074 ppb	23.6	0.23%	
QC value within limits for Na 589.592 Radial Recovery = 100.74%							
Ni 231.604†	42874.6	493.67 µg/L	0.898	493.67 ppb	0.898	0.18%	
QC value within limits for Ni 231.604 Recovery = 98.73%							
P 214.914†	11557.8	2463.5 µg/L	7.33	2463.5 ppb	7.33	0.30%	
QC value within limits for P 214.914 Recovery = 98.54%							
Pb 220.353†	9000.8	504.02 µg/L	3.083	504.02 ppb	3.083	0.61%	
QC value within limits for Pb 220.353 Recovery = 100.80%							
S 181.975 Axial†	1360.5	1014.5 µg/L	2.43	1014.5 ppb	2.43	0.24%	
QC value within limits for S 181.975 Axial Recovery = 101.45%							
Sb 206.836†	4145.4	493.94 µg/L	1.484	493.94 ppb	1.484	0.30%	
QC value within limits for Sb 206.836 Recovery = 98.79%							
Se 196.026†	1370.0	497 µg/L	1.4	497 ppb	1.4	0.28%	
QC value within limits for Se 196.026 Recovery = 99.49%							
SiO2†	54891.0	5343.9 µg/L	13.80	5343.9 ppb	13.80	0.26%	
QC value within limits for SiO2 Recovery = 99.93%							
Si 251.611†	170263.1	2500.3 µg/L	1.90	2500.3 ppb	1.90	0.08%	
QC value within limits for Si 251.611 Recovery = 100.01%							
Sn 189.927†	7955.8	497.63 µg/L	2.649	497.63 ppb	2.649	0.53%	
QC value within limits for Sn 189.927 Recovery = 99.53%							
Sr 421.552†	237818.0	494.37 µg/L	2.072	494.37 ppb	2.072	0.42%	
QC value within limits for Sr 421.552 Recovery = 98.87%							
Ti 334.940†	528859.3	493.46 µg/L	0.302	493.46 ppb	0.302	0.06%	
QC value within limits for Ti 334.940 Recovery = 98.69%							
Tl 190.801†	4020.6	501.41 µg/L	3.629	501.41 ppb	3.629	0.72%	
QC value within limits for Tl 190.801 Recovery = 100.28%							
U 409.014†	7772.9	484.36 µg/L	2.811	484.36 ppb	2.811	0.58%	
QC value within limits for U 409.014 Recovery = 96.87%							
V 292.402†	100242.7	495.58 µg/L	0.417	495.58 ppb	0.417	0.08%	
QC value within limits for V 292.402 Recovery = 99.12%							
Zn 213.857†	88637.8	494.04 µg/L	1.641	494.04 ppb	1.641	0.33%	
QC value within limits for Zn 213.857 Recovery = 98.81%							
QC Failed. Continue with analysis.							

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/31/2010 19:01:26
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142576.4	142576.4	97.7 %		19:01:55
1	Al 396.153Radial†	57.6	122.1	22.616 µg/L	22.616 ppb	19:02:15
1	Ca 317.933Radial†	950.3	412.1	22.954 µg/L	22.954 ppb	19:02:15
1	Fe 238.204 Radial†	408.4	269.9	16.636 µg/L	16.636 ppb	19:02:15
1	K 766.490 Radial†	2351.3	861.8	315.49 µg/L	315.49 ppb	19:01:55
1	Mg 279.077 IEC†	256.3	71.6	26.675 µg/L	26.675 ppb	19:02:15
1	Na 589.592 Radial†	2324.7	1088.6	148.44 µg/L	148.44 ppb	19:01:55
1	Sr 421.552†	-47.4	86.8	0.1802 µg/L	0.1802 ppb	19:01:55
1	Sc 361.383	1712993.6	1712993.6	99.696 %		19:03:03
1	Y 371.029	1024574.5	1024574.5	99.794 %		19:03:03
1	Ag 328.068†	3862.6	-217.0	-0.8055 µg/L	-0.8055 ppb	19:03:05
1	As 188.979†	-11.7	8.6	2.6096 µg/L	2.6096 ppb	19:03:25
1	B 249.677†	3681.1	186.4	2.7486 µg/L	2.7486 ppb	19:03:05
1	Ba 233.527†	-102.8	32.7	0.1316 µg/L	0.1316 ppb	19:03:25
1	Be 313.107†	-845.8	216.4	0.0592 µg/L	0.0592 ppb	19:03:05
1	Cd 226.502†	-69.1	48.9	0.3038 µg/L	0.3038 ppb	19:03:25
1	Co 228.616†	-171.2	18.6	0.2289 µg/L	0.2289 ppb	19:03:25
1	Cr 267.716†	235.5	57.6	0.4508 µg/L	0.4508 ppb	19:03:25
1	Cu 324.752†	3139.9	177.3	0.6930 µg/L	0.6930 ppb	19:03:05
1	Mn 257.610†	387.8	151.7	0.1866 µg/L	0.1866 ppb	19:03:25
1	Mo 202.031†	-0.9	19.2	0.5643 µg/L	0.5643 ppb	19:03:25
1	Ni 231.604†	-84.9	-8.7	-0.0996 µg/L	-0.0996 ppb	19:03:25
1	P 214.914†	-24.3	-6.5	-1.3891 µg/L	-1.3891 ppb	19:03:25
1	Pb 220.353†	141.3	55.4	3.0911 µg/L	3.0911 ppb	19:03:25
1	S 181.975 Axial†	113.5	8.8	6.5060 µg/L	6.5060 ppb	19:03:25
1	Sb 206.836†	76.0	-4.6	-0.5451 µg/L	-0.5451 ppb	19:03:25
1	Se 196.026†	20.7	5.5	2.01 µg/L	2.01 ppb	19:03:25
1	SiO2†	1808.7	38.9	3.7615 µg/L	3.7615 ppb	19:03:25
1	Si 251.611†	1158.0	325.0	4.7734 µg/L	4.7734 ppb	19:03:05
1	Sn 189.927†	23.2	24.4	1.5199 µg/L	1.5199 ppb	19:03:25
1	Ti 334.940†	1109.4	160.3	0.1476 µg/L	0.1476 ppb	19:03:05
1	Tl 190.801†	-105.0	11.4	1.4002 µg/L	1.4002 ppb	19:03:25
1	U 409.014†	-251.8	17.3	0.9993 µg/L	0.9993 ppb	19:03:05
1	V 292.402†	359.4	-43.3	-0.2046 µg/L	-0.2046 ppb	19:03:05
1	Zn 213.857†	837.7	275.9	1.5483 µg/L	1.5483 ppb	19:03:25
2	Sc RADIAL	143802.6	143802.6	98.5 %		19:02:17
2	Al 396.153Radial†	-23.6	39.2	7.2646 µg/L	7.2646 ppb	19:02:37
2	Ca 317.933Radial†	724.5	174.6	9.7279 µg/L	9.7279 ppb	19:02:37
2	Fe 238.204 Radial†	241.4	96.9	5.9704 µg/L	5.9704 ppb	19:02:37
2	K 766.490 Radial†	2344.6	834.5	305.50 µg/L	305.50 ppb	19:02:17
2	Mg 279.077 IEC†	184.0	-4.0	-1.5026 µg/L	-1.5026 ppb	19:02:37
2	Na 589.592 Radial†	2222.6	964.7	131.52 µg/L	131.52 ppb	19:02:17
2	Sr 421.552†	-22.7	112.3	0.2333 µg/L	0.2333 ppb	19:02:17
2	Sc 361.383	1715539.4	1715539.4	99.844 %		19:03:27
2	Y 371.029	1025697.2	1025697.2	99.903 %		19:03:27
2	Ag 328.068†	4157.7	72.8	0.2757 µg/L	0.2757 ppb	19:03:30
2	As 188.979†	-16.7	3.7	1.1138 µg/L	1.1138 ppb	19:03:50
2	B 249.677†	3652.6	152.4	2.2465 µg/L	2.2465 ppb	19:03:30
2	Ba 233.527†	-103.8	31.9	0.1289 µg/L	0.1289 ppb	19:03:50
2	Be 313.107†	-800.4	263.0	0.0711 µg/L	0.0711 ppb	19:03:30
2	Cd 226.502†	-101.0	17.0	0.1059 µg/L	0.1059 ppb	19:03:50
2	Co 228.616†	-175.3	14.7	0.1813 µg/L	0.1813 ppb	19:03:50
2	Cr 267.716†	251.6	73.5	0.5772 µg/L	0.5772 ppb	19:03:50
2	Cu 324.752†	3073.4	105.9	0.4112 µg/L	0.4112 ppb	19:03:30
2	Mn 257.610†	351.3	114.6	0.1418 µg/L	0.1418 ppb	19:03:50
2	Mo 202.031†	-12.8	7.2	0.2126 µg/L	0.2126 ppb	19:03:50
2	Ni 231.604†	-67.1	9.3	0.1072 µg/L	0.1072 ppb	19:03:50
2	P 214.914†	-27.6	-9.7	-2.0622 µg/L	-2.0622 ppb	19:03:50
2	Pb 220.353†	95.6	9.4	0.5244 µg/L	0.5244 ppb	19:03:50

2	S 181.975 Axial†	105.7	0.8	0.6240 µg/L	0.6240 ppb	19:03:50
2	Sb 206.836†	85.0	4.3	0.5093 µg/L	0.5093 ppb	19:03:50
2	Se 196.026†	19.1	3.9	1.40 µg/L	1.40 ppb	19:03:50
2	SiO2†	1782.4	9.8	0.9335 µg/L	0.9335 ppb	19:03:50
2	Si 251.611†	944.9	109.8	1.6073 µg/L	1.6073 ppb	19:03:30
2	Sn 189.927†	21.6	22.8	1.4197 µg/L	1.4197 ppb	19:03:50
2	Ti 334.940†	960.9	9.8	0.0100 µg/L	0.0100 ppb	19:03:30
2	Tl 190.801†	-107.7	8.8	1.0828 µg/L	1.0828 ppb	19:03:50
2	U 409.014†	-298.4	-28.9	-1.6511 µg/L	-1.6511 ppb	19:03:30
2	V 292.402†	549.1	146.2	0.7161 µg/L	0.7161 ppb	19:03:30
2	Zn 213.857†	814.7	251.5	1.4114 µg/L	1.4114 ppb	19:03:50
3	Sc RADIAL	143637.2	143637.2	98.4 %		19:02:39
3	Al 396.153Radial†	-43.2	19.4	3.5840 µg/L	3.5840 ppb	19:03:00
3	Ca 317.933Radial†	715.6	166.4	9.2706 µg/L	9.2706 ppb	19:03:00
3	Fe 238.204 Radial†	242.5	98.3	6.0580 µg/L	6.0580 ppb	19:03:00
3	K 766.490 Radial†	2256.9	748.2	273.88 µg/L	273.88 ppb	19:02:39
3	Mg 279.077 IEC†	205.1	17.7	6.5824 µg/L	6.5824 ppb	19:03:00
3	Na 589.592 Radial†	2284.1	1029.7	140.43 µg/L	140.43 ppb	19:02:39
3	Sr 421.552†	11.7	147.2	0.3060 µg/L	0.3060 ppb	19:02:39
3	Sc 361.383	1722456.3	1722456.3	100.25 %		19:03:52
3	Y 371.029	1029533.6	1029533.6	100.28 %		19:03:52
3	Ag 328.068†	4007.1	-94.2	-0.3350 µg/L	-0.3350 ppb	19:03:54
3	As 188.979†	-18.8	1.6	0.4750 µg/L	0.4750 ppb	19:04:14
3	B 249.677†	3639.8	125.0	1.8421 µg/L	1.8421 ppb	19:03:54
3	Ba 233.527†	-117.1	19.1	0.0776 µg/L	0.0776 ppb	19:04:14
3	Be 313.107†	-721.4	345.0	0.0939 µg/L	0.0939 ppb	19:03:54
3	Cd 226.502†	-93.0	25.4	0.1581 µg/L	0.1581 ppb	19:04:14
3	Co 228.616†	-173.2	17.6	0.2167 µg/L	0.2167 ppb	19:04:14
3	Cr 267.716†	211.6	32.5	0.2552 µg/L	0.2552 ppb	19:04:14
3	Cu 324.752†	3092.5	112.7	0.4392 µg/L	0.4392 ppb	19:03:54
3	Mn 257.610†	342.1	104.0	0.1284 µg/L	0.1284 ppb	19:04:14
3	Mo 202.031†	-15.6	4.5	0.1336 µg/L	0.1336 ppb	19:04:14
3	Ni 231.604†	-90.2	-13.4	-0.1547 µg/L	-0.1547 ppb	19:04:14
3	P 214.914†	-22.3	-4.2	-0.9047 µg/L	-0.9047 ppb	19:04:14
3	Pb 220.353†	117.3	30.6	1.7079 µg/L	1.7079 ppb	19:04:14
3	S 181.975 Axial†	114.1	8.7	6.4890 µg/L	6.4890 ppb	19:04:14
3	Sb 206.836†	80.1	-1.0	-0.1107 µg/L	-0.1107 ppb	19:04:14
3	Se 196.026†	9.2	-6.1	-2.20 µg/L	-2.20 ppb	19:04:14
3	SiO2†	1811.5	31.7	3.0742 µg/L	3.0742 ppb	19:04:14
3	Si 251.611†	907.7	68.9	1.0043 µg/L	1.0043 ppb	19:03:54
3	Sn 189.927†	22.3	23.4	1.4577 µg/L	1.4577 ppb	19:04:14
3	Ti 334.940†	846.3	-108.3	-0.1015 µg/L	-0.1015 ppb	19:03:54
3	Tl 190.801†	-114.4	2.6	0.3215 µg/L	0.3215 ppb	19:04:14
3	U 409.014†	-270.6	-0.0	0.0667 µg/L	0.0667 ppb	19:03:54
3	V 292.402†	646.7	241.3	1.1790 µg/L	1.1790 ppb	19:03:54
3	Zn 213.857†	803.7	237.3	1.3332 µg/L	1.3332 ppb	19:04:14

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1716996.5	99.929 %		0.2850			0.29%
Sc RADIAL	143338.8	98.2 %		0.46			0.46%
Y 371.029	1026601.8	99.992 %		0.2533			0.25%
Ag 328.068†	-79.5	-0.2883 µg/L		0.54213	-0.2883 ppb	0.54213	188.07%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	60.2	11.155 µg/L		10.0946	11.155 ppb	10.0946	90.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.6	1.3995 µg/L		1.09560	1.3995 ppb	1.09560	78.29%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	154.6	2.2791 µg/L		0.45415	2.2791 ppb	0.45415	19.93%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	27.9	0.1127 µg/L		0.03047	0.1127 ppb	0.03047	27.04%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	274.8	0.0748 µg/L		0.01765	0.0748 ppb	0.01765	23.61%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	251.0	13.984 µg/L		7.7715	13.984 ppb	7.7715	55.57%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	30.5	0.1893 µg/L		0.10254	0.1893 ppb	0.10254	54.18%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	17.0	0.2090 µg/L		0.02473	0.2090 ppb	0.02473	11.83%

Cr	267.716†	54.5	0.4277 µg/L	0.16226	0.4277 ppb	0.16226	37.93%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	132.0	0.5144 µg/L	0.15523	0.5144 ppb	0.15523	30.17%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	155.0	9.5549 µg/L	6.13280	9.5549 ppb	6.13280	64.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	814.8	298.29 µg/L	21.721	298.29 ppb	21.721	7.28%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	28.4	10.585 µg/L	14.5091	10.585 ppb	14.5091	137.07%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	123.4	0.1523 µg/L	0.03051	0.1523 ppb	0.03051	20.04%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	10.3	0.3035 µg/L	0.22930	0.3035 ppb	0.22930	75.54%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	1027.7	140.13 µg/L	8.461	140.13 ppb	8.461	6.04%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-4.3	-0.0490 µg/L	0.13810	-0.0490 ppb	0.13810	281.55%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-6.8	-1.4520 µg/L	0.58130	-1.4520 ppb	0.58130	40.03%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	31.8	1.7745 µg/L	1.28462	1.7745 ppb	1.28462	72.39%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	6.1	4.5397 µg/L	3.39110	4.5397 ppb	3.39110	74.70%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-0.4	-0.0489 µg/L	0.52991	-0.0489 ppb	0.52991	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	1.1	0.402 µg/L	2.2740	0.402 ppb	2.2740	564.97%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		26.8	2.5897 µg/L	1.47490	2.5897 ppb	1.47490	56.95%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	167.9	2.4617 µg/L	2.02458	2.4617 ppb	2.02458	82.24%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	23.5	1.4657 µg/L	0.05055	1.4657 ppb	0.05055	3.45%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	115.4	0.2398 µg/L	0.06313	0.2398 ppb	0.06313	26.32%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	20.6	0.0187 µg/L	0.12478	0.0187 ppb	0.12478	667.52%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	7.6	0.9348 µg/L	0.55437	0.9348 ppb	0.55437	59.30%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-3.9	-0.1950 µg/L	1.34448	-0.1950 ppb	1.34448	689.39%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	114.7	0.5635 µg/L	0.70433	0.5635 ppb	0.70433	125.00%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	254.9	1.4310 µg/L	0.10892	1.4310 ppb	0.10892	7.61%
QC value within limits for Zn 213.857 Recovery = Not calculated							

QC Failed. Continue with analysis.

=====
Analysis Begun

Start Time: 3/31/2010 19:06:02

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb
=====

Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 3/31/2010 18:15:19

IEC File: 031810.iec

MSF File:

Method Description:

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

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/31/2010 19:06:03

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142053.7	142053.7	97.3 %		19:06:36
1	Al 396.153Radial†	26187.8	26965.5	4976.4 µg/L	4976.4 ppb	19:06:36
1	Ca 317.933Radial†	87895.1	89732.8	4998.5 µg/L	4998.5 ppb	19:06:36
1	Fe 238.204 Radial†	78245.6	80232.5	4945.0 µg/L	4945.0 ppb	19:06:36

1	K 766.490 Radial†	15026.3	13891.5	5081.8 µg/L	5081.8 ppb	19:06:36
1	Mg 279.077 IEC†	13439.2	13615.2	5080.7 µg/L	5080.7 ppb	19:06:36
1	Na 589.592 Radial†	71676.4	72341.3	9878.2 µg/L	9878.2 ppb	19:06:36
1	Sr 421.552†	230855.8	237290.2	493.27 µg/L	493.27 ppb	19:06:34
1	Sc 361.383	1692635.7	1692635.7	98.511 %		19:06:49
1	Y 371.029	1002740.0	1002740.0	97.667 %		19:06:49
1	Ag 328.068†	133490.2	131416.3	492.76 µg/L	492.76 ppb	19:06:49
1	As 188.979†	1592.7	1637.1	502.26 µg/L	502.26 ppb	19:07:09
1	B 249.677†	36019.4	33057.9	485.83 µg/L	485.83 ppb	19:06:49
1	Ba 233.527†	119977.2	121926.4	491.73 µg/L	491.73 ppb	19:06:49
1	Be 313.107†	1788795.8	1816895.8	494.84 µg/L	494.84 ppb	19:06:49
1	Cd 226.502†	77305.4	78591.9	490.61 µg/L	490.61 ppb	19:06:49
1	Co 228.616†	39248.1	40031.6	494.19 µg/L	494.19 ppb	19:06:49
1	Cr 267.716†	61675.1	62428.6	488.81 µg/L	488.81 ppb	19:06:49
1	Cu 324.752†	126554.7	125495.2	489.22 µg/L	489.22 ppb	19:06:49
1	Mn 257.610†	394217.2	399938.0	494.63 µg/L	494.63 ppb	19:06:49
1	Mo 202.031†	16588.6	16859.4	495.93 µg/L	495.93 ppb	19:07:09
1	Ni 231.604†	41959.1	42669.8	491.31 µg/L	491.31 ppb	19:06:49
1	P 214.914†	11467.5	11658.8	2485.2 µg/L	2485.2 ppb	19:07:09
1	Pb 220.353†	8908.4	8956.6	501.56 µg/L	501.56 ppb	19:07:09
1	S 181.975 Axial†	1431.0	1347.6	1004.9 µg/L	1004.9 ppb	19:07:09
1	Sb 206.836†	4198.6	4181.2	498.27 µg/L	498.27 ppb	19:07:09
1	Se 196.026†	1378.4	1384.0	502 µg/L	502 ppb	19:07:09
1	SiO2†	55424.9	54487.2	5304.4 µg/L	5304.4 ppb	19:06:49
1	Si 251.611†	167452.8	169147.1	2483.8 µg/L	2483.8 ppb	19:06:49
1	Sn 189.927†	7877.5	7997.7	500.23 µg/L	500.23 ppb	19:07:09
1	Ti 334.940†	520670.2	527586.9	492.28 µg/L	492.28 ppb	19:06:49
1	Tl 190.801†	3872.9	4048.2	504.78 µg/L	504.78 ppb	19:07:09
1	U 409.014†	7291.5	7671.6	478.40 µg/L	478.40 ppb	19:06:49
1	V 292.402†	98968.4	100060.4	494.68 µg/L	494.68 ppb	19:06:49
1	Zn 213.857†	86928.5	87677.9	488.67 µg/L	488.67 ppb	19:06:49
2	Sc RADIAL	141682.9	141682.9	97.1 %		19:06:40
2	Al 396.153Radial†	26223.0	27072.3	4996.3 µg/L	4996.3 ppb	19:06:40
2	Ca 317.933Radial†	87546.1	89609.7	4991.6 µg/L	4991.6 ppb	19:06:40
2	Fe 238.204 Radial†	78166.5	80361.4	4953.0 µg/L	4953.0 ppb	19:06:40
2	K 766.490 Radial†	14890.1	13791.7	5045.3 µg/L	5045.3 ppb	19:06:40
2	Mg 279.077 IEC†	13407.1	13618.3	5081.7 µg/L	5081.7 ppb	19:06:40
2	Na 589.592 Radial†	71442.4	72293.1	9871.6 µg/L	9871.6 ppb	19:06:40
2	Sr 421.552†	234429.9	241592.0	502.22 µg/L	502.22 ppb	19:06:38
2	Sc 361.383	1693933.2	1693933.2	98.587 %		19:07:12
2	Y 371.029	1002754.3	1002754.3	97.669 %		19:07:12
2	Ag 328.068†	133887.2	131715.3	493.86 µg/L	493.86 ppb	19:07:12
2	As 188.979†	1584.7	1627.8	499.44 µg/L	499.44 ppb	19:07:32
2	B 249.677†	36086.4	33097.9	486.42 µg/L	486.42 ppb	19:07:12
2	Ba 233.527†	120244.1	122103.7	492.44 µg/L	492.44 ppb	19:07:12
2	Be 313.107†	1788194.1	1814894.6	494.30 µg/L	494.30 ppb	19:07:12
2	Cd 226.502†	77647.5	78878.9	492.40 µg/L	492.40 ppb	19:07:12
2	Co 228.616†	39316.5	40070.5	494.67 µg/L	494.67 ppb	19:07:12
2	Cr 267.716†	61922.8	62632.0	490.40 µg/L	490.40 ppb	19:07:12
2	Cu 324.752†	126725.3	125569.8	489.51 µg/L	489.51 ppb	19:07:12
2	Mn 257.610†	394218.9	399633.2	494.25 µg/L	494.25 ppb	19:07:12
2	Mo 202.031†	16463.2	16719.3	491.81 µg/L	491.81 ppb	19:07:32
2	Ni 231.604†	42154.2	42835.0	493.21 µg/L	493.21 ppb	19:07:12
2	P 214.914†	11314.3	11494.4	2450.0 µg/L	2450.0 ppb	19:07:32
2	Pb 220.353†	8825.1	8865.3	496.44 µg/L	496.44 ppb	19:07:32
2	S 181.975 Axial†	1411.2	1326.4	989.11 µg/L	989.11 ppb	19:07:32
2	Sb 206.836†	4167.4	4146.3	494.02 µg/L	494.02 ppb	19:07:32
2	Se 196.026†	1363.3	1367.5	497 µg/L	497 ppb	19:07:32
2	SiO2†	55444.1	54463.6	5302.3 µg/L	5302.3 ppb	19:07:12
2	Si 251.611†	167875.0	169445.1	2488.3 µg/L	2488.3 ppb	19:07:12
2	Sn 189.927†	7786.1	7898.8	494.07 µg/L	494.07 ppb	19:07:32
2	Ti 334.940†	520698.2	527210.5	491.92 µg/L	491.92 ppb	19:07:12
2	Tl 190.801†	3845.2	4017.0	500.93 µg/L	500.93 ppb	19:07:32
2	U 409.014†	7348.6	7723.9	481.39 µg/L	481.39 ppb	19:07:12
2	V 292.402†	98856.0	99869.4	493.71 µg/L	493.71 ppb	19:07:12
2	Zn 213.857†	87044.0	87727.5	488.93 µg/L	488.93 ppb	19:07:12
3	Sc RADIAL	140290.8	140290.8	96.1 %		19:06:44
3	Al 396.153Radial†	26121.4	27234.6	5026.5 µg/L	5026.5 ppb	19:06:44
3	Ca 317.933Radial†	86648.1	89570.3	4989.4 µg/L	4989.4 ppb	19:06:44
3	Fe 238.204 Radial†	77524.7	80492.7	4961.1 µg/L	4961.1 ppb	19:06:44
3	K 766.490 Radial†	14881.5	13934.9	5097.7 µg/L	5097.7 ppb	19:06:44

3	Mg 279.077 IEC†	13262.2	13604.5	5076.6 µg/L	5076.6 ppb	19:06:44
3	Na 589.592 Radial†	70817.9	72373.6	9882.6 µg/L	9882.6 ppb	19:06:44
3	Sr 421.552†	230738.3	240148.1	499.21 µg/L	499.21 ppb	19:06:42
3	Sc 361.383	1701566.9	1701566.9	99.031 %		19:07:35
3	Y 371.029	1007094.6	1007094.6	98.092 %		19:07:35
3	Ag 328.068†	134475.4	131699.9	493.82 µg/L	493.82 ppb	19:07:35
3	As 188.979†	1593.4	1629.4	499.91 µg/L	499.91 ppb	19:07:55
3	B 249.677†	36488.9	33340.1	489.99 µg/L	489.99 ppb	19:07:35
3	Ba 233.527†	120822.0	122140.2	492.59 µg/L	492.59 ppb	19:07:35
3	Be 313.107†	1801771.9	1820467.8	495.82 µg/L	495.82 ppb	19:07:35
3	Cd 226.502†	78139.4	79022.2	493.29 µg/L	493.29 ppb	19:07:35
3	Co 228.616†	39662.8	40241.2	496.77 µg/L	496.77 ppb	19:07:35
3	Cr 267.716†	62197.1	62627.2	490.36 µg/L	490.36 ppb	19:07:35
3	Cu 324.752†	127822.8	126101.4	491.58 µg/L	491.58 ppb	19:07:35
3	Mn 257.610†	397277.8	400928.1	495.85 µg/L	495.85 ppb	19:07:35
3	Mo 202.031†	16490.8	16672.2	490.43 µg/L	490.43 ppb	19:07:55
3	Ni 231.604†	42326.5	42817.2	493.01 µg/L	493.01 ppb	19:07:35
3	P 214.914†	11342.9	11471.9	2445.2 µg/L	2445.2 ppb	19:07:55
3	Pb 220.353†	8843.5	8843.7	495.23 µg/L	495.23 ppb	19:07:55
3	S 181.975 Axial†	1419.8	1328.6	990.72 µg/L	990.72 ppb	19:07:55
3	Sb 206.836†	4178.4	4138.4	493.07 µg/L	493.07 ppb	19:07:55
3	Se 196.026†	1363.2	1361.3	494 µg/L	494 ppb	19:07:55
3	SiO2†	56222.5	54997.3	5354.5 µg/L	5354.5 ppb	19:07:35
3	Si 251.611†	169502.3	170324.4	2501.3 µg/L	2501.3 ppb	19:07:35
3	Sn 189.927†	7808.9	7886.4	493.30 µg/L	493.30 ppb	19:07:55
3	Ti 334.940†	523661.8	527833.6	492.50 µg/L	492.50 ppb	19:07:35
3	Tl 190.801†	3856.9	4011.4	500.25 µg/L	500.25 ppb	19:07:55
3	U 409.014†	7413.7	7756.2	483.37 µg/L	483.37 ppb	19:07:35
3	V 292.402†	99576.3	100146.9	495.05 µg/L	495.05 ppb	19:07:35
3	Zn 213.857†	87808.2	88103.1	491.04 µg/L	491.04 ppb	19:07:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696045.3	98.710 %	0.2809			0.28%
Sc RADIAL	141342.5	96.9 %	0.64			0.66%
Y 371.029	1004196.3	97.809 %	0.2445			0.25%
Ag 328.068†	131610.5	493.48 µg/L	0.624	493.48 ppb	0.624	0.13%
QC value within limits for Ag 328.068 Recovery = 98.70%						
Al 396.153Radial†	27090.8	4999.7 µg/L	25.24	4999.7 ppb	25.24	0.50%
QC value within limits for Al 396.153Radial Recovery = 99.99%						
As 188.979†	1631.4	500.54 µg/L	1.508	500.54 ppb	1.508	0.30%
QC value within limits for As 188.979 Recovery = 100.11%						
B 249.677†	33165.3	487.41 µg/L	2.247	487.41 ppb	2.247	0.46%
QC value within limits for B 249.677 Recovery = 97.48%						
Ba 233.527†	122056.8	492.25 µg/L	0.460	492.25 ppb	0.460	0.09%
QC value within limits for Ba 233.527 Recovery = 98.45%						
Be 313.107†	1817419.4	494.99 µg/L	0.769	494.99 ppb	0.769	0.16%
QC value within limits for Be 313.107 Recovery = 99.00%						
Ca 317.933Radial†	89637.6	4993.2 µg/L	4.72	4993.2 ppb	4.72	0.09%
QC value within limits for Ca 317.933Radial Recovery = 99.86%						
Cd 226.502†	78831.0	492.10 µg/L	1.368	492.10 ppb	1.368	0.28%
QC value within limits for Cd 226.502 Recovery = 98.42%						
Co 228.616†	40114.4	495.21 µg/L	1.376	495.21 ppb	1.376	0.28%
QC value within limits for Co 228.616 Recovery = 99.04%						
Cr 267.716†	62562.6	489.86 µg/L	0.907	489.86 ppb	0.907	0.19%
QC value within limits for Cr 267.716 Recovery = 97.97%						
Cu 324.752†	125722.1	490.10 µg/L	1.288	490.10 ppb	1.288	0.26%
QC value within limits for Cu 324.752 Recovery = 98.02%						
Fe 238.204 Radial†	80362.2	4953.0 µg/L	8.02	4953.0 ppb	8.02	0.16%
QC value within limits for Fe 238.204 Radial Recovery = 99.06%						
K 766.490 Radial†	13872.7	5074.9 µg/L	26.88	5074.9 ppb	26.88	0.53%
QC value within limits for K 766.490 Radial Recovery = 101.50%						
Mg 279.077 IEC†	13612.7	5079.7 µg/L	2.74	5079.7 ppb	2.74	0.05%
QC value within limits for Mg 279.077 IEC Recovery = 101.59%						
Mn 257.610†	400166.4	494.91 µg/L	0.838	494.91 ppb	0.838	0.17%
QC value within limits for Mn 257.610 Recovery = 98.98%						
Mo 202.031†	16750.3	492.72 µg/L	2.861	492.72 ppb	2.861	0.58%
QC value within limits for Mo 202.031 Recovery = 98.54%						
Na 589.592 Radial†	72336.0	9877.5 µg/L	5.51	9877.5 ppb	5.51	0.06%

QC value within limits for Na 589.592 Radial Recovery = 98.77%

Ni 231.604†	42774.0	492.51 µg/L	1.044	492.51 ppb	1.044	0.21%
QC value within limits for Ni 231.604 Recovery = 98.50%						
P 214.914†	11541.7	2460.1 µg/L	21.83	2460.1 ppb	21.83	0.89%
QC value within limits for P 214.914 Recovery = 98.40%						
Pb 220.353†	8888.5	497.74 µg/L	3.356	497.74 ppb	3.356	0.67%
QC value within limits for Pb 220.353 Recovery = 99.55%						
S 181.975 Axial†	1334.2	994.90 µg/L	8.662	994.90 ppb	8.662	0.87%
QC value within limits for S 181.975 Axial Recovery = 99.49%						
Sb 206.836†	4155.3	495.12 µg/L	2.767	495.12 ppb	2.767	0.56%
QC value within limits for Sb 206.836 Recovery = 99.02%						
Se 196.026†	1370.9	498 µg/L	4.2	498 ppb	4.2	0.85%
QC value within limits for Se 196.026 Recovery = 99.56%						
SiO2†	54649.4	5320.4 µg/L	29.56	5320.4 ppb	29.56	0.56%
QC value within limits for SiO2 Recovery = 99.49%						
Si 251.611†	169638.9	2491.1 µg/L	9.08	2491.1 ppb	9.08	0.36%
QC value within limits for Si 251.611 Recovery = 99.65%						
Sn 189.927†	7927.7	495.87 µg/L	3.802	495.87 ppb	3.802	0.77%
QC value within limits for Sn 189.927 Recovery = 99.17%						
Sr 421.552†	239676.8	498.23 µg/L	4.551	498.23 ppb	4.551	0.91%
QC value within limits for Sr 421.552 Recovery = 99.65%						
Ti 334.940†	527543.7	492.23 µg/L	0.293	492.23 ppb	0.293	0.06%
QC value within limits for Ti 334.940 Recovery = 98.45%						
Tl 190.801†	4025.5	501.99 µg/L	2.440	501.99 ppb	2.440	0.49%
QC value within limits for Tl 190.801 Recovery = 100.40%						
U 409.014†	7717.2	481.05 µg/L	2.502	481.05 ppb	2.502	0.52%
QC value within limits for U 409.014 Recovery = 96.21%						
V 292.402†	100025.5	494.48 µg/L	0.691	494.48 ppb	0.691	0.14%
QC value within limits for V 292.402 Recovery = 98.90%						
Zn 213.857†	87836.2	489.55 µg/L	1.301	489.55 ppb	1.301	0.27%
QC value within limits for Zn 213.857 Recovery = 97.91%						

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 3/31/2010 19:08:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143606.3	143606.3	98.4 %		19:08:33
1	Al 396.153Radial†	-40.6	21.9	4.0709 µg/L	4.0709 ppb	19:08:53
1	Ca 317.933Radial†	593.8	42.8	2.3863 µg/L	2.3863 ppb	19:08:53
1	Fe 238.204 Radial†	181.2	36.0	2.2211 µg/L	2.2211 ppb	19:08:53
1	K 766.490 Radial†	1807.5	291.9	106.87 µg/L	106.87 ppb	19:08:33
1	Mg 279.077 IEC†	167.1	-20.9	-7.7799 µg/L	-7.7799 ppb	19:08:53
1	Na 589.592 Radial†	1829.3	568.1	77.508 µg/L	77.508 ppb	19:08:33
1	Sr 421.552†	-159.2	-26.5	-0.0550 µg/L	-0.0550 ppb	19:08:33
1	Sc 361.383	1699498.0	1699498.0	98.911 %		19:09:55
1	Y 371.029	1016806.2	1016806.2	99.037 %		19:09:55
1	Ag 328.068†	3769.0	-280.8	-1.0378 µg/L	-1.0378 ppb	19:09:57
1	As 188.979†	-4.4	15.9	4.8042 µg/L	4.8042 ppb	19:10:17
1	B 249.677†	3588.4	122.0	1.7978 µg/L	1.7978 ppb	19:09:57
1	Ba 233.527†	-115.2	19.4	0.0783 µg/L	0.0783 ppb	19:10:17
1	Be 313.107†	-954.3	99.8	0.0273 µg/L	0.0273 ppb	19:09:57
1	Cd 226.502†	-91.5	25.7	0.1602 µg/L	0.1602 ppb	19:10:17
1	Co 228.616†	-158.7	29.9	0.3690 µg/L	0.3690 ppb	19:10:17
1	Cr 267.716†	173.6	-3.0	-0.0236 µg/L	-0.0236 ppb	19:10:17
1	Cu 324.752†	3195.6	258.6	1.0054 µg/L	1.0054 ppb	19:09:57
1	Mn 257.610†	286.5	52.4	0.0651 µg/L	0.0651 ppb	19:10:17
1	Mo 202.031†	-26.1	-6.3	-0.1854 µg/L	-0.1854 ppb	19:10:17
1	Ni 231.604†	-117.6	-42.4	-0.4885 µg/L	-0.4885 ppb	19:10:17
1	P 214.914†	-30.3	-12.6	-2.7014 µg/L	-2.7014 ppb	19:10:17
1	Pb 220.353†	88.8	3.4	0.1879 µg/L	0.1879 ppb	19:10:17
1	S 181.975 Axial†	97.0	-6.9	-5.1546 µg/L	-5.1546 ppb	19:10:17
1	Sb 206.836†	72.1	-8.0	-0.9474 µg/L	-0.9474 ppb	19:10:17
1	Se 196.026†	15.9	0.8	0.281 µg/L	0.281 ppb	19:10:17
1	SiO2†	1782.8	27.1	2.6348 µg/L	2.6348 ppb	19:09:57
1	Si 251.611†	842.6	15.3	0.2204 µg/L	0.2204 ppb	19:09:57
1	Sn 189.927†	17.4	18.7	1.1657 µg/L	1.1657 ppb	19:10:17
1	Ti 334.940†	982.6	40.9	0.0388 µg/L	0.0388 ppb	19:09:57
1	Tl 190.801†	-115.4	-0.0	-0.0031 µg/L	-0.0031 ppb	19:10:17
1	U 409.014†	-263.1	3.9	0.2381 µg/L	0.2381 ppb	19:09:57
1	V 292.402†	432.1	33.1	0.1592 µg/L	0.1592 ppb	19:09:57
1	Zn 213.857†	662.7	105.6	0.5956 µg/L	0.5956 ppb	19:10:17
2	Sc RADIAL	143906.0	143906.0	98.6 %		19:08:55
2	Al 396.153Radial†	-30.9	31.9	5.9210 µg/L	5.9210 ppb	19:09:15
2	Ca 317.933Radial†	576.5	24.0	1.3374 µg/L	1.3374 ppb	19:09:15
2	Fe 238.204 Radial†	194.8	49.4	3.0451 µg/L	3.0451 ppb	19:09:15
2	K 766.490 Radial†	1821.8	302.6	110.79 µg/L	110.79 ppb	19:08:55
2	Mg 279.077 IEC†	181.6	-6.5	-2.4285 µg/L	-2.4285 ppb	19:09:15
2	Na 589.592 Radial†	1674.8	407.6	55.585 µg/L	55.585 ppb	19:08:55
2	Sr 421.552†	-76.3	57.9	0.1204 µg/L	0.1204 ppb	19:08:55
2	Sc 361.383	1701303.0	1701303.0	99.016 %		19:10:20
2	Y 371.029	1018421.2	1018421.2	99.195 %		19:10:20
2	Ag 328.068†	4174.8	124.9	0.4507 µg/L	0.4507 ppb	19:10:22
2	As 188.979†	-9.4	10.9	3.3020 µg/L	3.3020 ppb	19:10:42
2	B 249.677†	3516.0	45.1	0.6647 µg/L	0.6647 ppb	19:10:22
2	Ba 233.527†	-149.1	-14.7	-0.0595 µg/L	-0.0595 ppb	19:10:42
2	Be 313.107†	-839.9	216.4	0.0569 µg/L	0.0569 ppb	19:10:22
2	Cd 226.502†	-102.1	15.1	0.0939 µg/L	0.0939 ppb	19:10:42
2	Co 228.616†	-188.6	-0.1	-0.0019 µg/L	-0.0019 ppb	19:10:42
2	Cr 267.716†	211.4	34.9	0.2788 µg/L	0.2788 ppb	19:10:42
2	Cu 324.752†	2916.8	-26.4	-0.1080 µg/L	-0.1080 ppb	19:10:22
2	Mn 257.610†	284.4	50.0	0.0619 µg/L	0.0619 ppb	19:10:42
2	Mo 202.031†	-25.0	-5.2	-0.1530 µg/L	-0.1530 ppb	19:10:42
2	Ni 231.604†	-103.9	-28.5	-0.3278 µg/L	-0.3278 ppb	19:10:42
2	P 214.914†	-33.0	-15.3	-3.2711 µg/L	-3.2711 ppb	19:10:42
2	Pb 220.353†	114.7	29.5	1.6503 µg/L	1.6503 ppb	19:10:42

2	S 181.975 Axial†	99.7	-4.4	-3.2387 µg/L	-3.2387 ppb	19:10:42
2	Sb 206.836†	76.2	-3.9	-0.4635 µg/L	-0.4635 ppb	19:10:42
2	Se 196.026†	16.5	1.4	0.491 µg/L	0.491 ppb	19:10:42
2	SiO2†	1763.9	6.1	0.5919 µg/L	0.5919 ppb	19:10:22
2	Si 251.611†	911.5	84.0	1.2359 µg/L	1.2359 ppb	19:10:22
2	Sn 189.927†	8.3	9.5	0.5950 µg/L	0.5950 ppb	19:10:42
2	Ti 334.940†	886.7	-57.0	-0.0503 µg/L	-0.0503 ppb	19:10:22
2	Tl 190.801†	-114.1	1.5	0.1759 µg/L	0.1759 ppb	19:10:42
2	U 409.014†	-383.3	-117.2	-6.8703 µg/L	-6.8703 ppb	19:10:22
2	V 292.402†	344.9	-55.5	-0.2761 µg/L	-0.2761 ppb	19:10:22
2	Zn 213.857†	648.7	90.7	0.5114 µg/L	0.5114 ppb	19:10:42
3	Sc RADIAL	142315.2	142315.2	97.5 %		19:09:17
3	Al 396.153Radial†	-52.2	9.6	1.7667 µg/L	1.7667 ppb	19:09:37
3	Ca 317.933Radial†	577.3	31.3	1.7458 µg/L	1.7458 ppb	19:09:37
3	Fe 238.204 Radial†	193.7	50.5	3.1105 µg/L	3.1105 ppb	19:09:37
3	K 766.490 Radial†	1715.2	213.9	78.318 µg/L	78.318 ppb	19:09:17
3	Mg 279.077 IEC†	194.2	8.4	3.1563 µg/L	3.1563 ppb	19:09:37
3	Na 589.592 Radial†	1682.9	434.8	59.332 µg/L	59.332 ppb	19:09:17
3	Sr 421.552†	-204.0	-73.9	-0.1537 µg/L	-0.1537 ppb	19:09:17
3	Sc 361.383	1707432.2	1707432.2	99.372 %		19:10:44
3	Y 371.029	1021900.0	1021900.0	99.534 %		19:10:44
3	Ag 328.068†	4053.2	-12.6	-0.0528 µg/L	-0.0528 ppb	19:10:46
3	As 188.979†	-2.3	18.1	5.4690 µg/L	5.4690 ppb	19:11:06
3	B 249.677†	3514.8	31.1	0.4591 µg/L	0.4591 ppb	19:10:46
3	Ba 233.527†	-138.9	-3.9	-0.0159 µg/L	-0.0159 ppb	19:11:06
3	Be 313.107†	-1076.7	-18.8	-0.0056 µg/L	-0.0056 ppb	19:10:46
3	Cd 226.502†	-100.3	17.3	0.1074 µg/L	0.1074 ppb	19:11:06
3	Co 228.616†	-200.8	-11.7	-0.1450 µg/L	-0.1450 ppb	19:11:06
3	Cr 267.716†	180.7	3.3	0.0269 µg/L	0.0269 ppb	19:11:06
3	Cu 324.752†	3029.2	76.1	0.2948 µg/L	0.2948 ppb	19:10:46
3	Mn 257.610†	296.9	61.5	0.0760 µg/L	0.0760 ppb	19:11:06
3	Mo 202.031†	-3.7	16.3	0.4802 µg/L	0.4802 ppb	19:11:06
3	Ni 231.604†	-90.5	-14.6	-0.1676 µg/L	-0.1676 ppb	19:11:06
3	P 214.914†	-14.2	3.7	0.7799 µg/L	0.7799 ppb	19:11:06
3	Pb 220.353†	92.0	6.2	0.3485 µg/L	0.3485 ppb	19:11:06
3	S 181.975 Axial†	108.0	3.6	2.6796 µg/L	2.6796 ppb	19:11:06
3	Sb 206.836†	87.9	7.6	0.9107 µg/L	0.9107 ppb	19:11:06
3	Se 196.026†	15.0	-0.2	-0.060 µg/L	-0.060 ppb	19:11:06
3	SiO2†	1735.7	-28.7	-2.8190 µg/L	-2.8190 ppb	19:10:46
3	Si 251.611†	790.1	-41.5	-0.6182 µg/L	-0.6182 ppb	19:10:46
3	Sn 189.927†	-1.2	-0.1	-0.0053 µg/L	-0.0053 ppb	19:11:06
3	Ti 334.940†	766.5	-181.2	-0.1688 µg/L	-0.1688 ppb	19:10:46
3	Tl 190.801†	-101.0	15.0	1.8436 µg/L	1.8436 ppb	19:11:06
3	U 409.014†	-295.6	-27.6	-1.6324 µg/L	-1.6324 ppb	19:10:46
3	V 292.402†	332.8	-68.9	-0.3322 µg/L	-0.3322 ppb	19:10:46
3	Zn 213.857†	625.3	64.8	0.3648 µg/L	0.3648 ppb	19:11:06

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1702744.4	99.099 %	0.2420			0.24%
Sc RADIAL	143275.8	98.2 %	0.58			0.59%
Y 371.029	1019042.5	99.255 %	0.2535			0.26%
Ag 328.068†	-56.2	-0.2133 µg/L	0.75716	-0.2133 ppb	0.75716	354.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.2	3.9195 µg/L	2.08128	3.9195 ppb	2.08128	53.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	15.0	4.5251 µg/L	1.11017	4.5251 ppb	1.11017	24.53%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	66.0	0.9738 µg/L	0.72094	0.9738 ppb	0.72094	74.03%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0009 µg/L	0.07043	0.0009 ppb	0.07043	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	99.2	0.0262 µg/L	0.03124	0.0262 ppb	0.03124	119.39%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	32.7	1.8232 µg/L	0.52869	1.8232 ppb	0.52869	29.00%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	19.4	0.1205 µg/L	0.03504	0.1205 ppb	0.03504	29.08%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.0	0.0740 µg/L	0.26530	0.0740 ppb	0.26530	358.50%

Cr	267.716†	11.7	0.0940 µg/L	0.16198	0.0940 ppb	0.16198	172.24%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	102.8	0.3974 µg/L	0.56376	0.3974 ppb	0.56376	141.85%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	45.3	2.7923 µg/L	0.49571	2.7923 ppb	0.49571	17.75%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	269.5	98.660 µg/L	17.7254	98.660 ppb	17.7254	17.97%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-6.3	-2.3507 µg/L	5.46855	-2.3507 ppb	5.46855	232.63%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	54.6	0.0677 µg/L	0.00738	0.0677 ppb	0.00738	10.91%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	1.6	0.0473 µg/L	0.37526	0.0473 ppb	0.37526	793.90%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	470.2	64.142 µg/L	11.7262	64.142 ppb	11.7262	18.28%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	-28.5	-0.3280 µg/L	0.16046	-0.3280 ppb	0.16046	48.93%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	-8.1	-1.7309 µg/L	2.19296	-1.7309 ppb	2.19296	126.69%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	13.0	0.7289 µg/L	0.80200	0.7289 ppb	0.80200	110.03%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	-2.6	-1.9046 µg/L	4.08395	-1.9046 ppb	4.08395	214.43%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-1.4	-0.1667 µg/L	0.96394	-0.1667 ppb	0.96394	578.22%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	0.7	0.238 µg/L	0.2782	0.238 ppb	0.2782	117.02%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		1.5	0.1359 µg/L	2.75534	0.1359 ppb	2.75534	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	19.3	0.2794 µg/L	0.92845	0.2794 ppb	0.92845	332.33%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	9.4	0.5851 µg/L	0.58554	0.5851 ppb	0.58554	100.07%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	-14.1	-0.0294 µg/L	0.13885	-0.0294 ppb	0.13885	471.87%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	-65.8	-0.0601 µg/L	0.10414	-0.0601 ppb	0.10414	173.25%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	5.5	0.6721 µg/L	1.01847	0.6721 ppb	1.01847	151.53%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	-47.0	-2.7549 µg/L	3.68475	-2.7549 ppb	3.68475	133.75%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	-30.4	-0.1497 µg/L	0.26898	-0.1497 ppb	0.26898	179.67%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	87.0	0.4906 µg/L	0.11682	0.4906 ppb	0.11682	23.81%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 19:27:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144745.8	144745.8	99.2 %		19:28:15
1	Al 396.153Radial†	26764.4	27046.5	4991.6 µg/L	4991.6 ppb	19:28:15
1	Ca 317.933Radial†	89467.8	89639.1	4993.2 µg/L	4993.2 ppb	19:28:15
1	Fe 238.204 Radial†	79722.2	80226.2	4944.7 µg/L	4944.7 ppb	19:28:15
1	K 766.490 Radial†	14982.5	13560.3	4960.6 µg/L	4960.6 ppb	19:28:15
1	Mg 279.077 IEC†	13759.9	13681.8	5105.4 µg/L	5105.4 ppb	19:28:15
1	Na 589.592 Radial†	72591.2	71894.2	9817.2 µg/L	9817.2 ppb	19:28:15
1	Sr 421.552†	234529.9	236583.6	491.80 µg/L	491.80 ppb	19:28:12
1	Sc 361.383	1725305.4	1725305.4	100.41 %		19:28:27
1	Y 371.029	1020728.0	1020728.0	99.419 %		19:28:27
1	Ag 328.068†	136300.1	131648.8	493.59 µg/L	493.59 ppb	19:28:27
1	As 188.979†	1633.4	1647.0	505.23 µg/L	505.23 ppb	19:28:47
1	B 249.677†	36849.8	33192.5	487.82 µg/L	487.82 ppb	19:28:27
1	Ba 233.527†	122221.5	121855.2	491.44 µg/L	491.44 ppb	19:28:27
1	Be 313.107†	1820741.4	1814326.2	494.14 µg/L	494.14 ppb	19:28:27
1	Cd 226.502†	78844.9	78639.2	490.90 µg/L	490.90 ppb	19:28:27
1	Co 228.616†	39847.3	39874.0	492.24 µg/L	492.24 ppb	19:28:27
1	Cr 267.716†	62843.9	62407.1	488.65 µg/L	488.65 ppb	19:28:27
1	Cu 324.752†	129009.2	125507.0	489.26 µg/L	489.26 ppb	19:28:27
1	Mn 257.610†	401352.4	399466.3	494.04 µg/L	494.04 ppb	19:28:27
1	Mo 202.031†	16754.7	16705.9	491.42 µg/L	491.42 ppb	19:28:47
1	Ni 231.604†	42787.5	42688.2	491.52 µg/L	491.52 ppb	19:28:27
1	P 214.914†	11575.7	11546.1	2461.1 µg/L	2461.1 ppb	19:28:47
1	Pb 220.353†	8987.5	8864.2	496.39 µg/L	496.39 ppb	19:28:47
1	S 181.975 Axial†	1425.3	1314.4	980.21 µg/L	980.21 ppb	19:28:47
1	Sb 206.836†	4236.7	4138.5	493.11 µg/L	493.11 ppb	19:28:47
1	Se 196.026†	1383.3	1362.3	495 µg/L	495 ppb	19:28:47
1	SiO2†	56481.4	54474.0	5303.3 µg/L	5303.3 ppb	19:28:27
1	Si 251.611†	170572.5	169035.2	2482.3 µg/L	2482.3 ppb	19:28:27
1	Sn 189.927†	7932.0	7900.5	494.17 µg/L	494.17 ppb	19:28:47
1	Ti 334.940†	529379.1	526251.8	491.03 µg/L	491.03 ppb	19:28:27
1	Tl 190.801†	3920.2	4020.8	501.40 µg/L	501.40 ppb	19:28:47
1	U 409.014†	7328.3	7568.1	472.22 µg/L	472.22 ppb	19:28:27
1	V 292.402†	100463.2	99646.7	492.61 µg/L	492.61 ppb	19:28:27
1	Zn 213.857†	88617.6	87689.1	488.73 µg/L	488.73 ppb	19:28:27
2	Sc RADIAL	143128.0	143128.0	98.1 %		19:28:19
2	Al 396.153Radial†	26390.4	26970.3	4977.5 µg/L	4977.5 ppb	19:28:19
2	Ca 317.933Radial†	88547.9	89720.6	4997.8 µg/L	4997.8 ppb	19:28:19
2	Fe 238.204 Radial†	78967.6	80365.3	4953.2 µg/L	4953.2 ppb	19:28:19
2	K 766.490 Radial†	14857.2	13603.3	4976.3 µg/L	4976.3 ppb	19:28:19
2	Mg 279.077 IEC†	13593.0	13668.4	5100.4 µg/L	5100.4 ppb	19:28:19
2	Na 589.592 Radial†	71676.1	71788.4	9802.7 µg/L	9802.7 ppb	19:28:19
2	Sr 421.552†	234348.1	239070.9	496.98 µg/L	496.98 ppb	19:28:17
2	Sc 361.383	1734628.6	1734628.6	100.96 %		19:28:51
2	Y 371.029	1025716.4	1025716.4	99.905 %		19:28:51
2	Ag 328.068†	136816.4	131430.6	492.82 µg/L	492.82 ppb	19:28:51
2	As 188.979†	1631.9	1636.9	502.17 µg/L	502.17 ppb	19:29:11
2	B 249.677†	37069.7	33213.1	488.12 µg/L	488.12 ppb	19:28:51
2	Ba 233.527†	122992.1	121964.3	491.88 µg/L	491.88 ppb	19:28:51
2	Be 313.107†	1838526.2	1822196.9	496.29 µg/L	496.29 ppb	19:28:51
2	Cd 226.502†	79892.7	79255.0	494.75 µg/L	494.75 ppb	19:28:51
2	Co 228.616†	40292.1	40101.3	495.05 µg/L	495.05 ppb	19:28:51
2	Cr 267.716†	63389.6	62611.4	490.23 µg/L	490.23 ppb	19:28:51
2	Cu 324.752†	129959.6	125757.9	490.25 µg/L	490.25 ppb	19:28:51
2	Mn 257.610†	404701.1	400635.0	495.49 µg/L	495.49 ppb	19:28:51
2	Mo 202.031†	16826.1	16687.0	490.86 µg/L	490.86 ppb	19:29:11
2	Ni 231.604†	43211.3	42879.0	493.72 µg/L	493.72 ppb	19:28:51
2	P 214.914†	11647.2	11554.9	2462.9 µg/L	2462.9 ppb	19:29:11
2	Pb 220.353†	9025.0	8853.2	495.76 µg/L	495.76 ppb	19:29:11

2	S 181.975 Axial†	1448.9	1330.1	991.87 µg/L	991.87 ppb	19:29:11
2	Sb 206.836†	4260.0	4138.9	493.13 µg/L	493.13 ppb	19:29:11
2	Se 196.026†	1384.1	1355.7	492 µg/L	492 ppb	19:29:11
2	SiO2†	56922.3	54608.4	5316.4 µg/L	5316.4 ppb	19:28:51
2	Si 251.611†	172250.5	169784.3	2493.3 µg/L	2493.3 ppb	19:28:51
2	Sn 189.927†	7982.8	7908.4	494.67 µg/L	494.67 ppb	19:29:11
2	Ti 334.940†	533116.5	527120.2	491.83 µg/L	491.83 ppb	19:28:51
2	Tl 190.801†	3941.1	4020.5	501.37 µg/L	501.37 ppb	19:29:11
2	U 409.014†	7625.6	7823.4	487.25 µg/L	487.25 ppb	19:28:51
2	V 292.402†	101346.4	99983.8	494.26 µg/L	494.26 ppb	19:28:51
2	Zn 213.857†	89423.9	88013.5	490.54 µg/L	490.54 ppb	19:28:51
3	Sc RADIAL	145496.7	145496.7	99.7 %		19:28:23
3	Al 396.153Radial†	26858.9	27002.0	4983.3 µg/L	4983.3 ppb	19:28:23
3	Ca 317.933Radial†	90156.6	89864.4	5005.8 µg/L	5005.8 ppb	19:28:23
3	Fe 238.204 Radial†	80315.1	80406.1	4955.7 µg/L	4955.7 ppb	19:28:23
3	K 766.490 Radial†	15083.0	13583.2	4968.9 µg/L	4968.9 ppb	19:28:23
3	Mg 279.077 IEC†	13878.0	13728.6	5122.9 µg/L	5122.9 ppb	19:28:23
3	Na 589.592 Radial†	72879.8	71805.9	9805.1 µg/L	9805.1 ppb	19:28:23
3	Sr 421.552†	234221.7	235054.0	488.62 µg/L	488.62 ppb	19:28:21
3	Sc 361.383	1725210.5	1725210.5	100.41 %		19:29:14
3	Y 371.029	1019973.4	1019973.4	99.346 %		19:29:14
3	Ag 328.068†	135997.1	131354.5	492.51 µg/L	492.51 ppb	19:29:14
3	As 188.979†	1616.1	1629.9	500.07 µg/L	500.07 ppb	19:29:34
3	B 249.677†	36719.7	33065.0	485.94 µg/L	485.94 ppb	19:29:14
3	Ba 233.527†	122082.7	121723.7	490.91 µg/L	490.91 ppb	19:29:14
3	Be 313.107†	1823924.9	1817596.6	495.03 µg/L	495.03 ppb	19:29:14
3	Cd 226.502†	79138.6	78936.0	492.75 µg/L	492.75 ppb	19:29:14
3	Co 228.616†	39917.6	39946.1	493.13 µg/L	493.13 ppb	19:29:14
3	Cr 267.716†	63023.3	62589.2	490.08 µg/L	490.08 ppb	19:29:14
3	Cu 324.752†	129255.3	125759.2	490.24 µg/L	490.24 ppb	19:29:14
3	Mn 257.610†	401870.3	400004.1	494.71 µg/L	494.71 ppb	19:29:14
3	Mo 202.031†	16781.3	16733.4	492.23 µg/L	492.23 ppb	19:29:34
3	Ni 231.604†	42953.4	42855.8	493.45 µg/L	493.45 ppb	19:29:14
3	P 214.914†	11608.1	11579.0	2468.1 µg/L	2468.1 ppb	19:29:34
3	Pb 220.353†	9009.0	8886.1	497.61 µg/L	497.61 ppb	19:29:34
3	S 181.975 Axial†	1440.9	1330.0	991.78 µg/L	991.78 ppb	19:29:34
3	Sb 206.836†	4230.2	4132.2	492.36 µg/L	492.36 ppb	19:29:34
3	Se 196.026†	1386.3	1365.4	496 µg/L	496 ppb	19:29:34
3	SiO2†	56734.1	54728.8	5328.1 µg/L	5328.1 ppb	19:29:14
3	Si 251.611†	171053.5	169523.6	2489.4 µg/L	2489.4 ppb	19:29:14
3	Sn 189.927†	7957.3	7926.1	495.77 µg/L	495.77 ppb	19:29:34
3	Ti 334.940†	529976.9	526876.1	491.61 µg/L	491.61 ppb	19:29:14
3	Tl 190.801†	3905.9	4006.8	499.68 µg/L	499.68 ppb	19:29:34
3	U 409.014†	7243.0	7483.6	467.35 µg/L	467.35 ppb	19:29:14
3	V 292.402†	100691.8	99879.9	493.76 µg/L	493.76 ppb	19:29:14
3	Zn 213.857†	88689.8	87765.9	489.15 µg/L	489.15 ppb	19:29:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1728381.5	100.59 %	0.315			0.31%
Sc RADIAL	144456.8	99.0 %	0.83			0.84%
Y 371.029	1022139.3	99.557 %	0.3040			0.31%
Ag 328.068†	131478.0	492.97 µg/L	0.557	492.97 ppb	0.557	0.11%
QC value within limits for Ag 328.068 Recovery = 98.59%						
Al 396.153Radial†	27006.3	4984.1 µg/L	7.09	4984.1 ppb	7.09	0.14%
QC value within limits for Al 396.153Radial Recovery = 99.68%						
As 188.979†	1637.9	502.49 µg/L	2.596	502.49 ppb	2.596	0.52%
QC value within limits for As 188.979 Recovery = 100.50%						
B 249.677†	33156.9	487.29 µg/L	1.181	487.29 ppb	1.181	0.24%
QC value within limits for B 249.677 Recovery = 97.46%						
Ba 233.527†	121847.7	491.41 µg/L	0.486	491.41 ppb	0.486	0.10%
QC value within limits for Ba 233.527 Recovery = 98.28%						
Be 313.107†	1818039.9	495.15 µg/L	1.079	495.15 ppb	1.079	0.22%
QC value within limits for Be 313.107 Recovery = 99.03%						
Ca 317.933Radial†	89741.4	4998.9 µg/L	6.35	4998.9 ppb	6.35	0.13%
QC value within limits for Ca 317.933Radial Recovery = 99.98%						
Cd 226.502†	78943.4	492.80 µg/L	1.924	492.80 ppb	1.924	0.39%
QC value within limits for Cd 226.502 Recovery = 98.56%						
Co 228.616†	39973.8	493.47 µg/L	1.433	493.47 ppb	1.433	0.29%

QC value within limits for Co 228.616	Recovery = 98.69%			
Cr 267.716†	62535.9	489.65 µg/L	0.875	0.18%
QC value within limits for Cr 267.716	Recovery = 97.93%			
Cu 324.752†	125674.7	489.91 µg/L	0.568	0.12%
QC value within limits for Cu 324.752	Recovery = 97.98%			
Fe 238.204 Radial†	80332.5	4951.2 µg/L	5.81	0.12%
QC value within limits for Fe 238.204 Radial	Recovery = 99.02%			
K 766.490 Radial†	13582.3	4968.6 µg/L	7.88	0.16%
QC value within limits for K 766.490 Radial	Recovery = 99.37%			
Mg 279.077 IEC†	13692.9	5109.5 µg/L	11.80	0.23%
QC value within limits for Mg 279.077 IEC	Recovery = 102.19%			
Mn 257.610†	400035.1	494.75 µg/L	0.724	0.15%
QC value within limits for Mn 257.610	Recovery = 98.95%			
Mo 202.031†	16708.8	491.50 µg/L	0.686	0.14%
QC value within limits for Mo 202.031	Recovery = 98.30%			
Na 589.592 Radial†	71829.5	9808.4 µg/L	7.75	0.08%
QC value within limits for Na 589.592 Radial	Recovery = 98.08%			
Ni 231.604†	42807.7	492.90 µg/L	1.199	0.24%
QC value within limits for Ni 231.604	Recovery = 98.58%			
P 214.914†	11560.0	2464.0 µg/L	3.63	0.15%
QC value within limits for P 214.914	Recovery = 98.56%			
Pb 220.353†	8867.8	496.59 µg/L	0.942	0.19%
QC value within limits for Pb 220.353	Recovery = 99.32%			
S 181.975 Axial†	1324.9	987.95 µg/L	6.702	0.68%
QC value within limits for S 181.975 Axial	Recovery = 98.80%			
Sb 206.836†	4136.5	492.87 µg/L	0.436	0.09%
QC value within limits for Sb 206.836	Recovery = 98.57%			
Se 196.026†	1361.2	494 µg/L	1.8	0.36%
QC value within limits for Se 196.026	Recovery = 98.85%			
SiO2†	54603.7	5315.9 µg/L	12.44	0.23%
QC value within limits for SiO2	Recovery = 99.41%			
Si 251.611†	169447.7	2488.3 µg/L	5.61	0.23%
QC value within limits for Si 251.611	Recovery = 99.53%			
Sn 189.927†	7911.7	494.87 µg/L	0.819	0.17%
QC value within limits for Sn 189.927	Recovery = 98.97%			
Sr 421.552†	236902.8	492.47 µg/L	4.215	0.86%
QC value within limits for Sr 421.552	Recovery = 98.49%			
Ti 334.940†	526749.4	491.49 µg/L	0.416	0.08%
QC value within limits for Ti 334.940	Recovery = 98.30%			
Tl 190.801†	4016.0	500.82 µg/L	0.981	0.20%
QC value within limits for Tl 190.801	Recovery = 100.16%			
U 409.014†	7625.0	475.61 µg/L	10.374	2.18%
QC value within limits for U 409.014	Recovery = 95.12%			
V 292.402†	99836.8	493.54 µg/L	0.847	0.17%
QC value within limits for V 292.402	Recovery = 98.71%			
Zn 213.857†	87822.9	489.47 µg/L	0.946	0.19%
QC value within limits for Zn 213.857	Recovery = 97.89%			

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 19:29:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145475.6	145475.6	99.7 %		19:30:11
1	Al 396.153Radial†	-75.1	-12.2	-2.2232 µg/L	-2.2232 ppb	19:30:31
1	Ca 317.933Radial†	587.7	29.0	1.6154 µg/L	1.6154 ppb	19:30:31
1	Fe 238.204 Radial†	164.7	17.2	1.0571 µg/L	1.0571 ppb	19:30:31
1	K 766.490 Radial†	1612.2	72.5	26.524 µg/L	26.524 ppb	19:30:11
1	Mg 279.077 IEC†	187.3	-2.8	-1.0689 µg/L	-1.0689 ppb	19:30:31
1	Na 589.592 Radial†	1489.8	203.6	27.794 µg/L	27.794 ppb	19:30:11
1	Sr 421.552†	-307.3	-173.0	-0.3597 µg/L	-0.3597 ppb	19:30:11
1	Sc 361.383	1698492.9	1698492.9	98.852 %		19:31:33
1	Y 371.029	1016683.6	1016683.6	99.025 %		19:31:33
1	Ag 328.068†	3801.1	-246.1	-0.8975 µg/L	-0.8975 ppb	19:31:35
1	As 188.979†	-17.7	2.5	0.7531 µg/L	0.7531 ppb	19:31:55
1	B 249.677†	3427.3	-38.8	-0.5719 µg/L	-0.5719 ppb	19:31:35
1	Ba 233.527†	-135.5	-1.2	-0.0047 µg/L	-0.0047 ppb	19:31:55
1	Be 313.107†	-787.7	267.8	0.0745 µg/L	0.0745 ppb	19:31:35
1	Cd 226.502†	-126.1	-9.3	-0.0586 µg/L	-0.0586 ppb	19:31:55
1	Co 228.616†	-187.3	0.8	0.0098 µg/L	0.0098 ppb	19:31:55
1	Cr 267.716†	185.7	9.3	0.0694 µg/L	0.0694 ppb	19:31:55
1	Cu 324.752†	2920.3	-18.0	-0.0655 µg/L	-0.0655 ppb	19:31:35
1	Mn 257.610†	272.9	38.8	0.0481 µg/L	0.0481 ppb	19:31:55
1	Mo 202.031†	-42.5	-22.9	-0.6735 µg/L	-0.6735 ppb	19:31:55
1	Ni 231.604†	-89.8	-14.3	-0.1646 µg/L	-0.1646 ppb	19:31:55
1	P 214.914†	-7.3	10.6	2.2741 µg/L	2.2741 ppb	19:31:55
1	Pb 220.353†	105.5	20.3	1.1296 µg/L	1.1296 ppb	19:31:55
1	S 181.975 Axial†	107.5	3.7	2.7631 µg/L	2.7631 ppb	19:31:55
1	Sb 206.836†	82.4	2.5	0.2868 µg/L	0.2868 ppb	19:31:55
1	Se 196.026†	15.9	0.8	0.284 µg/L	0.284 ppb	19:31:55
1	SiO2†	1750.8	-4.2	-0.4021 µg/L	-0.4021 ppb	19:31:55
1	Si 251.611†	831.1	4.2	0.0667 µg/L	0.0667 ppb	19:31:35
1	Sn 189.927†	9.7	11.0	0.6833 µg/L	0.6833 ppb	19:31:55
1	Ti 334.940†	1069.9	129.8	0.1193 µg/L	0.1193 ppb	19:31:35
1	Tl 190.801†	-107.7	7.8	0.9584 µg/L	0.9584 ppb	19:31:55
1	U 409.014†	-179.0	88.9	5.2323 µg/L	5.2323 ppb	19:31:35
1	V 292.402†	528.0	130.3	0.6323 µg/L	0.6323 ppb	19:31:35
1	Zn 213.857†	590.7	33.1	0.1869 µg/L	0.1869 ppb	19:31:55
2	Sc RADIAL	144319.0	144319.0	98.9 %		19:30:33
2	Al 396.153Radial†	-78.7	-16.4	-3.0556 µg/L	-3.0556 ppb	19:30:53
2	Ca 317.933Radial†	611.2	57.5	3.2020 µg/L	3.2020 ppb	19:30:53
2	Fe 238.204 Radial†	171.3	25.1	1.5453 µg/L	1.5453 ppb	19:30:53
2	K 766.490 Radial†	1571.9	44.7	16.347 µg/L	16.347 ppb	19:30:33
2	Mg 279.077 IEC†	180.9	-7.8	-2.8873 µg/L	-2.8873 ppb	19:30:53
2	Na 589.592 Radial†	1390.8	115.6	15.771 µg/L	15.771 ppb	19:30:33
2	Sr 421.552†	-219.7	-86.8	-0.1805 µg/L	-0.1805 ppb	19:30:33
2	Sc 361.383	1734133.7	1734133.7	100.93 %		19:31:58
2	Y 371.029	1037702.6	1037702.6	101.07 %		19:31:58
2	Ag 328.068†	3823.7	-302.8	-1.1204 µg/L	-1.1204 ppb	19:32:00
2	As 188.979†	-14.9	5.6	1.6918 µg/L	1.6918 ppb	19:32:20
2	B 249.677†	3536.1	-2.3	-0.0340 µg/L	-0.0340 ppb	19:32:00
2	Ba 233.527†	-136.5	0.6	0.0024 µg/L	0.0024 ppb	19:32:20
2	Be 313.107†	-795.6	276.4	0.0756 µg/L	0.0756 ppb	19:32:00
2	Cd 226.502†	-86.6	32.4	0.2024 µg/L	0.2024 ppb	19:32:20
2	Co 228.616†	-173.2	18.7	0.2305 µg/L	0.2305 ppb	19:32:20
2	Cr 267.716†	178.6	-1.6	-0.0131 µg/L	-0.0131 ppb	19:32:20
2	Cu 324.752†	2720.4	-276.8	-1.0746 µg/L	-1.0746 ppb	19:32:00
2	Mn 257.610†	233.8	-5.6	-0.0068 µg/L	-0.0068 ppb	19:32:20
2	Mo 202.031†	-11.0	9.2	0.2711 µg/L	0.2711 ppb	19:32:20
2	Ni 231.604†	-67.5	9.6	0.1106 µg/L	0.1106 ppb	19:32:20
2	P 214.914†	-23.6	-5.5	-1.1584 µg/L	-1.1584 ppb	19:32:20
2	Pb 220.353†	95.4	8.1	0.4532 µg/L	0.4532 ppb	19:32:20

2	S 181.975 Axial†	102.0	-4.0	-2.9595 µg/L	-2.9595 ppb	19:32:20
2	Sb 206.836†	80.5	-1.1	-0.1231 µg/L	-0.1231 ppb	19:32:20
2	Se 196.026†	11.1	-4.2	-1.53 µg/L	-1.53 ppb	19:32:20
2	SiO2†	1780.0	-11.7	-1.1573 µg/L	-1.1573 ppb	19:32:20
2	Si 251.611†	833.5	-10.8	-0.1648 µg/L	-0.1648 ppb	19:32:00
2	Sn 189.927†	4.9	6.0	0.3748 µg/L	0.3748 ppb	19:32:20
2	Ti 334.940†	959.8	-1.5	-0.0015 µg/L	-0.0015 ppb	19:32:00
2	Tl 190.801†	-121.4	-3.6	-0.4439 µg/L	-0.4439 ppb	19:32:20
2	U 409.014†	-253.2	19.1	1.1109 µg/L	1.1109 ppb	19:32:00
2	V 292.402†	396.6	-10.8	-0.0495 µg/L	-0.0495 ppb	19:32:00
2	Zn 213.857†	608.7	38.7	0.2171 µg/L	0.2171 ppb	19:32:20
3	Sc RADIAL	143412.5	143412.5	98.3 %		19:30:55
3	Al 396.153Radial†	-61.2	0.9	0.1676 µg/L	0.1676 ppb	19:31:15
3	Ca 317.933Radial†	592.5	42.3	2.3561 µg/L	2.3561 ppb	19:31:15
3	Fe 238.204 Radial†	168.4	23.2	1.4324 µg/L	1.4324 ppb	19:31:15
3	K 766.490 Radial†	1616.9	100.5	36.805 µg/L	36.805 ppb	19:30:55
3	Mg 279.077 IEC†	171.0	-16.7	-6.2040 µg/L	-6.2040 ppb	19:31:15
3	Na 589.592 Radial†	1303.8	35.9	4.8761 µg/L	4.8761 ppb	19:30:55
3	Sr 421.552†	-236.1	-105.0	-0.2183 µg/L	-0.2183 ppb	19:30:55
3	Sc 361.383	1715805.0	1715805.0	99.860 %		19:32:22
3	Y 371.029	1026242.1	1026242.1	99.956 %		19:32:22
3	Ag 328.068†	4010.0	-75.8	-0.2851 µg/L	-0.2851 ppb	19:32:24
3	As 188.979†	-13.5	6.8	2.0688 µg/L	2.0688 ppb	19:32:44
3	B 249.677†	3513.5	12.5	0.1850 µg/L	0.1850 ppb	19:32:24
3	Ba 233.527†	-128.9	6.8	0.0274 µg/L	0.0274 ppb	19:32:44
3	Be 313.107†	-697.9	365.9	0.0986 µg/L	0.0986 ppb	19:32:24
3	Cd 226.502†	-106.1	12.0	0.0747 µg/L	0.0747 ppb	19:32:44
3	Co 228.616†	-189.4	0.6	0.0078 µg/L	0.0078 ppb	19:32:44
3	Cr 267.716†	196.4	18.1	0.1446 µg/L	0.1446 ppb	19:32:44
3	Cu 324.752†	2902.2	-65.9	-0.2591 µg/L	-0.2591 ppb	19:32:24
3	Mn 257.610†	273.8	36.9	0.0459 µg/L	0.0459 ppb	19:32:44
3	Mo 202.031†	-16.2	3.9	0.1137 µg/L	0.1137 ppb	19:32:44
3	Ni 231.604†	-88.7	-12.3	-0.1412 µg/L	-0.1412 ppb	19:32:44
3	P 214.914†	-24.0	-6.1	-1.2988 µg/L	-1.2988 ppb	19:32:44
3	Pb 220.353†	103.9	17.7	0.9897 µg/L	0.9897 ppb	19:32:44
3	S 181.975 Axial†	107.4	2.5	1.8491 µg/L	1.8491 ppb	19:32:44
3	Sb 206.836†	83.4	2.7	0.3244 µg/L	0.3244 ppb	19:32:44
3	Se 196.026†	19.7	4.5	1.61 µg/L	1.61 ppb	19:32:44
3	SiO2†	1808.2	35.4	3.4538 µg/L	3.4538 ppb	19:32:44
3	Si 251.611†	977.1	141.9	2.0894 µg/L	2.0894 ppb	19:32:24
3	Sn 189.927†	2.2	3.3	0.2061 µg/L	0.2061 ppb	19:32:44
3	Ti 334.940†	999.8	48.7	0.0474 µg/L	0.0474 ppb	19:32:24
3	Tl 190.801†	-111.5	5.0	0.6198 µg/L	0.6198 ppb	19:32:44
3	U 409.014†	-328.9	-59.4	-3.4761 µg/L	-3.4761 ppb	19:32:24
3	V 292.402†	400.2	-3.0	-0.0153 µg/L	-0.0153 ppb	19:32:24
3	Zn 213.857†	599.5	35.9	0.2028 µg/L	0.2028 ppb	19:32:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1716143.9	99.879 %	1.0373			1.04%
Sc RADIAL	144402.4	99.0 %	0.71			0.72%
Y 371.029	1026876.1	100.02 %	1.025			1.02%
Ag 328.068†	-208.2	-0.7677 µg/L	0.43252	-0.7677 ppb	0.43252	56.34%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.2	-1.7037 µg/L	1.67317	-1.7037 ppb	1.67317	98.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.0	1.5046 µg/L	0.67750	1.5046 ppb	0.67750	45.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-9.5	-0.1403 µg/L	0.38951	-0.1403 ppb	0.38951	277.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.1	0.0084 µg/L	0.01681	0.0084 ppb	0.01681	200.54%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	303.4	0.0829 µg/L	0.01359	0.0829 ppb	0.01359	16.40%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	42.9	2.3912 µg/L	0.79388	2.3912 ppb	0.79388	33.20%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	11.7	0.0728 µg/L	0.13050	0.0728 ppb	0.13050	179.15%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.7	0.0827 µg/L	0.12800	0.0827 ppb	0.12800	154.81%

Cr 267.716†	8.6	0.0669 µg/L	0.07889	0.0669 ppb	0.07889	117.87%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cu 324.752†	-120.3	-0.4664 µg/L	0.53553	-0.4664 ppb	0.53553	114.82%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	21.8	1.3449 µg/L	0.25554	1.3449 ppb	0.25554	19.00%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	72.5	26.559 µg/L	10.2293	26.559 ppb	10.2293	38.52%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-9.1	-3.3867 µg/L	2.60377	-3.3867 ppb	2.60377	76.88%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	23.4	0.0291 µg/L	0.03107	0.0291 ppb	0.03107	106.92%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-3.3	-0.0962 µg/L	0.50606	-0.0962 ppb	0.50606	525.95%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	118.4	16.147 µg/L	11.4636	16.147 ppb	11.4636	70.99%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-5.7	-0.0651 µg/L	0.15260	-0.0651 ppb	0.15260	234.56%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.3	-0.0611 µg/L	2.02349	-0.0611 ppb	2.02349	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	15.4	0.8575 µg/L	0.35710	0.8575 ppb	0.35710	41.64%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.7	0.5509 µg/L	3.07426	0.5509 ppb	3.07426	558.02%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.4	0.1627 µg/L	0.24819	0.1627 ppb	0.24819	152.55%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.3	0.122 µg/L	1.5761	0.122 ppb	1.5761	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	6.5	0.6315 µg/L	2.47323	0.6315 ppb	2.47323	391.67%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	45.1	0.6638 µg/L	1.24006	0.6638 ppb	1.24006	186.82%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.8	0.4214 µg/L	0.24200	0.4214 ppb	0.24200	57.43%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-121.6	-0.2528 µg/L	0.09445	-0.2528 ppb	0.09445	37.35%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	59.0	0.0550 µg/L	0.06076	0.0550 ppb	0.06076	110.38%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.1	0.3781 µg/L	0.73174	0.3781 ppb	0.73174	193.54%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	16.2	0.9557 µg/L	4.35630	0.9557 ppb	4.35630	455.82%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	38.8	0.1892 µg/L	0.38415	0.1892 ppb	0.38415	203.07%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	35.9	0.2023 µg/L	0.01507	0.2023 ppb	0.01507	7.45%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 19:48:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142074.6	142074.6	97.4 %		19:48:41
1	Al 396.153Radial†	26307.3	27084.3	4998.9 µg/L	4998.9 ppb	19:48:41
1	Ca 317.933Radial†	86883.3	88680.2	4939.8 µg/L	4939.8 ppb	19:48:41
1	Fe 238.204 Radial†	77361.0	79312.1	4888.3 µg/L	4888.3 ppb	19:48:41
1	K 766.490 Radial†	14600.0	13451.4	4920.7 µg/L	4920.7 ppb	19:48:41
1	Mg 279.077 IEC†	13319.4	13490.1	5033.8 µg/L	5033.8 ppb	19:48:41
1	Na 589.592 Radial†	70751.2	71380.2	9747.0 µg/L	9747.0 ppb	19:48:41
1	Sr 421.552†	226373.4	232651.3	483.63 µg/L	483.63 ppb	19:48:39
1	Sc 361.383	1707292.7	1707292.7	99.364 %		19:48:54
1	Y 371.029	1010159.7	1010159.7	98.390 %		19:48:54
1	Ag 328.068†	133110.0	129870.3	486.98 µg/L	486.98 ppb	19:48:54
1	As 188.979†	1576.3	1606.7	492.97 µg/L	492.97 ppb	19:49:14
1	B 249.677†	35756.1	32479.0	477.32 µg/L	477.32 ppb	19:48:54
1	Ba 233.527†	119643.5	120545.0	486.15 µg/L	486.15 ppb	19:48:54
1	Be 313.107†	1782114.7	1794583.1	488.77 µg/L	488.77 ppb	19:48:54
1	Cd 226.502†	76871.1	77481.2	483.67 µg/L	483.67 ppb	19:48:54
1	Co 228.616†	39104.8	39545.3	488.18 µg/L	488.18 ppb	19:48:54
1	Cr 267.716†	61488.3	61703.2	483.11 µg/L	483.11 ppb	19:48:54
1	Cu 324.752†	126677.7	124516.1	485.41 µg/L	485.41 ppb	19:48:54
1	Mn 257.610†	392328.2	394601.4	488.03 µg/L	488.03 ppb	19:48:54
1	Mo 202.031†	16345.9	16470.5	484.49 µg/L	484.49 ppb	19:49:14
1	Ni 231.604†	41875.3	42219.8	486.13 µg/L	486.13 ppb	19:48:54
1	P 214.914†	11193.1	11282.7	2404.8 µg/L	2404.8 ppb	19:49:14
1	Pb 220.353†	8730.4	8699.9	487.18 µg/L	487.18 ppb	19:49:14
1	S 181.975 Axial†	1383.4	1287.2	959.96 µg/L	959.96 ppb	19:49:14
1	Sb 206.836†	4107.0	4052.4	482.84 µg/L	482.84 ppb	19:49:14
1	Se 196.026†	1342.1	1335.4	485 µg/L	485 ppb	19:49:14
1	SiO2†	55335.6	53914.4	5248.9 µg/L	5248.9 ppb	19:48:54
1	Si 251.611†	167076.9	167309.4	2457.0 µg/L	2457.0 ppb	19:48:54
1	Sn 189.927†	7693.0	7743.4	484.36 µg/L	484.36 ppb	19:49:14
1	Ti 334.940†	519233.7	521603.7	486.68 µg/L	486.68 ppb	19:48:54
1	Tl 190.801†	3814.7	3955.8	493.34 µg/L	493.34 ppb	19:49:14
1	U 409.014†	7610.9	7929.5	493.08 µg/L	493.08 ppb	19:48:54
1	V 292.402†	98525.0	98751.7	488.17 µg/L	488.17 ppb	19:48:54
1	Zn 213.857†	86407.4	86395.9	481.51 µg/L	481.51 ppb	19:48:54
2	Sc RADIAL	141314.4	141314.4	96.8 %		19:48:45
2	Al 396.153Radial†	26070.1	26984.8	4980.3 µg/L	4980.3 ppb	19:48:45
2	Ca 317.933Radial†	86198.1	88452.8	4927.2 µg/L	4927.2 ppb	19:48:45
2	Fe 238.204 Radial†	76905.6	79269.3	4885.7 µg/L	4885.7 ppb	19:48:45
2	K 766.490 Radial†	14469.9	13397.8	4901.1 µg/L	4901.1 ppb	19:48:45
2	Mg 279.077 IEC†	13056.5	13292.2	4960.2 µg/L	4960.2 ppb	19:48:45
2	Na 589.592 Radial†	70248.5	71252.1	9729.5 µg/L	9729.5 ppb	19:48:45
2	Sr 421.552†	230623.8	238291.3	495.36 µg/L	495.36 ppb	19:48:43
2	Sc 361.383	1705432.9	1705432.9	99.256 %		19:49:17
2	Y 371.029	1009468.8	1009468.8	98.323 %		19:49:17
2	Ag 328.068†	133787.0	130698.5	490.05 µg/L	490.05 ppb	19:49:17
2	As 188.979†	1570.4	1602.5	491.73 µg/L	491.73 ppb	19:49:37
2	B 249.677†	35970.0	32733.8	481.06 µg/L	481.06 ppb	19:49:17
2	Ba 233.527†	120220.9	121258.0	489.03 µg/L	489.03 ppb	19:49:17
2	Be 313.107†	1787251.2	1801714.0	490.71 µg/L	490.71 ppb	19:49:17
2	Cd 226.502†	77339.1	78037.0	487.14 µg/L	487.14 ppb	19:49:17
2	Co 228.616†	39270.6	39755.3	490.78 µg/L	490.78 ppb	19:49:17
2	Cr 267.716†	61757.1	62041.5	485.78 µg/L	485.78 ppb	19:49:17
2	Cu 324.752†	126820.0	124798.5	486.50 µg/L	486.50 ppb	19:49:17
2	Mn 257.610†	394508.1	397228.3	491.28 µg/L	491.28 ppb	19:49:17
2	Mo 202.031†	16426.8	16570.0	487.42 µg/L	487.42 ppb	19:49:37
2	Ni 231.604†	41982.9	42374.1	487.91 µg/L	487.91 ppb	19:49:17
2	P 214.914†	11261.9	11364.3	2422.2 µg/L	2422.2 ppb	19:49:37
2	Pb 220.353†	8823.1	8802.9	492.95 µg/L	492.95 ppb	19:49:37

2	S 181.975 Axial†	1396.0	1301.4	970.49 µg/L	970.49 ppb	19:49:37
2	Sb 206.836†	4148.9	4099.2	488.41 µg/L	488.41 ppb	19:49:37
2	Se 196.026†	1355.8	1350.7	490 µg/L	490 ppb	19:49:37
2	SiO2†	55442.9	54083.1	5265.3 µg/L	5265.3 ppb	19:49:17
2	Si 251.611†	167481.5	167900.5	2465.6 µg/L	2465.6 ppb	19:49:17
2	Sn 189.927†	7735.0	7794.1	487.53 µg/L	487.53 ppb	19:49:37
2	Ti 334.940†	520412.2	523360.9	488.34 µg/L	488.34 ppb	19:49:17
2	Tl 190.801†	3830.1	3975.4	495.78 µg/L	495.78 ppb	19:49:37
2	U 409.014†	7376.5	7701.7	479.90 µg/L	479.90 ppb	19:49:17
2	V 292.402†	98853.0	99190.2	490.34 µg/L	490.34 ppb	19:49:17
2	Zn 213.857†	86774.5	86860.6	484.11 µg/L	484.11 ppb	19:49:17
3	Sc RADIAL	143116.0	143116.0	98.1 %		19:48:49
3	Al 396.153Radial†	26236.6	26815.6	4949.0 µg/L	4949.0 ppb	19:48:49
3	Ca 317.933Radial†	87307.0	88462.9	4927.7 µg/L	4927.7 ppb	19:48:49
3	Fe 238.204 Radial†	77796.7	79178.1	4880.1 µg/L	4880.1 ppb	19:48:49
3	K 766.490 Radial†	14380.3	13118.2	4798.8 µg/L	4798.8 ppb	19:48:49
3	Mg 279.077 IEC†	13346.6	13418.3	5007.1 µg/L	5007.1 ppb	19:48:49
3	Na 589.592 Radial†	71057.8	71164.1	9717.6 µg/L	9717.6 ppb	19:48:49
3	Sr 421.552†	230412.2	235077.6	488.67 µg/L	488.67 ppb	19:48:47
3	Sc 361.383	1721387.2	1721387.2	100.18 %		19:49:40
3	Y 371.029	1018897.4	1018897.4	99.241 %		19:49:40
3	Ag 328.068†	134640.8	130301.5	488.57 µg/L	488.57 ppb	19:49:40
3	As 188.979†	1609.9	1627.2	499.20 µg/L	499.20 ppb	19:50:00
3	B 249.677†	36341.2	32768.4	481.57 µg/L	481.57 ppb	19:49:40
3	Ba 233.527†	121012.1	120925.1	487.69 µg/L	487.69 ppb	19:49:40
3	Be 313.107†	1805276.3	1803016.9	491.06 µg/L	491.06 ppb	19:49:40
3	Cd 226.502†	78051.9	78026.4	487.08 µg/L	487.08 ppb	19:49:40
3	Co 228.616†	39637.9	39755.2	490.78 µg/L	490.78 ppb	19:49:40
3	Cr 267.716†	62404.8	62111.3	486.33 µg/L	486.33 ppb	19:49:40
3	Cu 324.752†	128037.0	124829.0	486.61 µg/L	486.61 ppb	19:49:40
3	Mn 257.610†	397828.4	396858.6	490.82 µg/L	490.82 ppb	19:49:40
3	Mo 202.031†	16520.4	16510.1	485.66 µg/L	485.66 ppb	19:50:00
3	Ni 231.604†	42275.1	42273.8	486.75 µg/L	486.75 ppb	19:49:40
3	P 214.914†	11329.3	11326.4	2414.1 µg/L	2414.1 ppb	19:50:00
3	Pb 220.353†	8851.7	8749.0	489.94 µg/L	489.94 ppb	19:50:00
3	S 181.975 Axial†	1397.8	1290.2	962.16 µg/L	962.16 ppb	19:50:00
3	Sb 206.836†	4164.3	4075.8	485.60 µg/L	485.60 ppb	19:50:00
3	Se 196.026†	1362.5	1344.7	488 µg/L	488 ppb	19:50:00
3	SiO2†	55884.7	54006.4	5257.8 µg/L	5257.8 ppb	19:49:40
3	Si 251.611†	169043.3	167895.4	2465.6 µg/L	2465.6 ppb	19:49:40
3	Sn 189.927†	7803.9	7790.6	487.31 µg/L	487.31 ppb	19:50:00
3	Ti 334.940†	525263.4	523343.7	488.32 µg/L	488.32 ppb	19:49:40
3	Tl 190.801†	3853.4	3963.0	494.25 µg/L	494.25 ppb	19:50:00
3	U 409.014†	7327.8	7584.2	473.02 µg/L	473.02 ppb	19:49:40
3	V 292.402†	99734.3	99146.8	490.11 µg/L	490.11 ppb	19:49:40
3	Zn 213.857†	87677.5	86951.6	484.63 µg/L	484.63 ppb	19:49:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711370.9	99.602 %	0.5077			0.51%
Sc RADIAL	142168.3	97.4 %	0.62			0.64%
Y 371.029	1012841.9	98.651 %	0.5119			0.52%
Ag 328.068†	130290.1	488.54 µg/L	1.538	488.54 ppb	1.538	0.31%
QC value within limits for Ag 328.068 Recovery = 97.71%						
Al 396.153Radial†	26961.6	4976.1 µg/L	25.20	4976.1 ppb	25.20	0.51%
QC value within limits for Al 396.153Radial Recovery = 99.52%						
As 188.979†	1612.2	494.63 µg/L	4.004	494.63 ppb	4.004	0.81%
QC value within limits for As 188.979 Recovery = 98.93%						
B 249.677†	32660.4	479.98 µg/L	2.326	479.98 ppb	2.326	0.48%
QC value within limits for B 249.677 Recovery = 96.00%						
Ba 233.527†	120909.3	487.62 µg/L	1.439	487.62 ppb	1.439	0.30%
QC value within limits for Ba 233.527 Recovery = 97.52%						
Be 313.107†	1799771.3	490.18 µg/L	1.233	490.18 ppb	1.233	0.25%
QC value within limits for Be 313.107 Recovery = 98.04%						
Ca 317.933Radial†	88532.0	4931.6 µg/L	7.16	4931.6 ppb	7.16	0.15%
QC value within limits for Ca 317.933Radial Recovery = 98.63%						
Cd 226.502†	77848.2	485.96 µg/L	1.986	485.96 ppb	1.986	0.41%
QC value within limits for Cd 226.502 Recovery = 97.19%						
Co 228.616†	39685.3	489.91 µg/L	1.497	489.91 ppb	1.497	0.31%

QC value within limits for Co 228.616 Recovery = 97.98%					
Cr 267.716†	61952.0	485.07 µg/L	1.718	485.07 ppb	1.718 0.35%
QC value within limits for Cr 267.716 Recovery = 97.01%					
Cu 324.752†	124714.6	486.17 µg/L	0.662	486.17 ppb	0.662 0.14%
QC value within limits for Cu 324.752 Recovery = 97.23%					
Fe 238.204 Radial†	79253.2	4884.7 µg/L	4.22	4884.7 ppb	4.22 0.09%
QC value within limits for Fe 238.204 Radial Recovery = 97.69%					
K 766.490 Radial†	13322.5	4873.5 µg/L	65.48	4873.5 ppb	65.48 1.34%
QC value within limits for K 766.490 Radial Recovery = 97.47%					
Mg 279.077 IEC†	13400.2	5000.4 µg/L	37.28	5000.4 ppb	37.28 0.75%
QC value within limits for Mg 279.077 IEC Recovery = 100.01%					
Mn 257.610†	396229.4	490.04 µg/L	1.761	490.04 ppb	1.761 0.36%
QC value within limits for Mn 257.610 Recovery = 98.01%					
Mo 202.031†	16516.9	485.86 µg/L	1.472	485.86 ppb	1.472 0.30%
QC value within limits for Mo 202.031 Recovery = 97.17%					
Na 589.592 Radial†	71265.4	9731.4 µg/L	14.79	9731.4 ppb	14.79 0.15%
QC value within limits for Na 589.592 Radial Recovery = 97.31%					
Ni 231.604†	42289.2	486.93 µg/L	0.902	486.93 ppb	0.902 0.19%
QC value within limits for Ni 231.604 Recovery = 97.39%					
P 214.914†	11324.5	2413.7 µg/L	8.72	2413.7 ppb	8.72 0.36%
QC value within limits for P 214.914 Recovery = 96.55%					
Pb 220.353†	8750.6	490.02 µg/L	2.885	490.02 ppb	2.885 0.59%
QC value within limits for Pb 220.353 Recovery = 98.00%					
S 181.975 Axial†	1292.9	964.20 µg/L	5.551	964.20 ppb	5.551 0.58%
QC value within limits for S 181.975 Axial Recovery = 96.42%					
Sb 206.836†	4075.8	485.62 µg/L	2.784	485.62 ppb	2.784 0.57%
QC value within limits for Sb 206.836 Recovery = 97.12%					
Se 196.026†	1343.6	488 µg/L	2.8	488 ppb	2.8 0.57%
QC value within limits for Se 196.026 Recovery = 97.58%					
SiO2†	54001.3	5257.4 µg/L	8.20	5257.4 ppb	8.20 0.16%
QC value within limits for SiO2 Recovery = 98.31%					
Si 251.611†	167701.8	2462.7 µg/L	4.98	2462.7 ppb	4.98 0.20%
QC value within limits for Si 251.611 Recovery = 98.51%					
Sn 189.927†	7776.0	486.40 µg/L	1.771	486.40 ppb	1.771 0.36%
QC value within limits for Sn 189.927 Recovery = 97.28%					
Sr 421.552†	235340.1	489.22 µg/L	5.882	489.22 ppb	5.882 1.20%
QC value within limits for Sr 421.552 Recovery = 97.84%					
Ti 334.940†	522769.4	487.78 µg/L	0.949	487.78 ppb	0.949 0.19%
QC value within limits for Ti 334.940 Recovery = 97.56%					
Tl 190.801†	3964.8	494.46 µg/L	1.233	494.46 ppb	1.233 0.25%
QC value within limits for Tl 190.801 Recovery = 98.89%					
U 409.014†	7738.5	482.00 µg/L	10.196	482.00 ppb	10.196 2.12%
QC value within limits for U 409.014 Recovery = 96.40%					
V 292.402†	99029.6	489.54 µg/L	1.192	489.54 ppb	1.192 0.24%
QC value within limits for V 292.402 Recovery = 97.91%					
Zn 213.857†	86736.0	483.41 µg/L	1.671	483.41 ppb	1.671 0.35%
QC value within limits for Zn 213.857 Recovery = 96.68%					

All analyte(s) passed QC.

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 19:50:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143600.6	143600.6	98.4 %		19:50:37
1	Al 396.153Radial†	-51.1	11.3	2.1044 µg/L	2.1044 ppb	19:50:57
1	Ca 317.933Radial†	586.6	35.5	1.9797 µg/L	1.9797 ppb	19:50:57
1	Fe 238.204 Radial†	144.0	-1.8	-0.1088 µg/L	-0.1088 ppb	19:50:57
1	K 766.490 Radial†	1486.8	-33.9	-12.412 µg/L	-12.412 ppb	19:50:37
1	Mg 279.077 IEC†	173.5	-14.4	-5.3870 µg/L	-5.3870 ppb	19:50:57
1	Na 589.592 Radial†	1458.3	191.2	26.130 µg/L	26.130 ppb	19:50:37
1	Sr 421.552†	-289.3	-158.8	-0.3301 µg/L	-0.3301 ppb	19:50:37
1	Sc 361.383	1727301.6	1727301.6	100.53 %		19:51:45
1	Y 371.029	1033229.5	1033229.5	100.64 %		19:51:45
1	Ag 328.068†	3918.0	-194.0	-0.7232 µg/L	-0.7232 ppb	19:51:47
1	As 188.979†	-11.4	9.0	2.7325 µg/L	2.7325 ppb	19:52:07
1	B 249.677†	3507.2	-17.2	-0.2546 µg/L	-0.2546 ppb	19:52:07
1	Ba 233.527†	-159.6	-22.9	-0.0923 µg/L	-0.0923 ppb	19:52:07
1	Be 313.107†	-960.5	109.3	0.0290 µg/L	0.0290 ppb	19:51:47
1	Cd 226.502†	-87.8	30.8	0.1926 µg/L	0.1926 ppb	19:52:07
1	Co 228.616†	-159.6	31.5	0.3887 µg/L	0.3887 ppb	19:52:07
1	Cr 267.716†	221.5	41.8	0.3292 µg/L	0.3292 ppb	19:52:07
1	Cu 324.752†	2909.7	-77.8	-0.3046 µg/L	-0.3046 ppb	19:51:47
1	Mn 257.610†	275.7	37.0	0.0460 µg/L	0.0460 ppb	19:52:07
1	Mo 202.031†	-30.5	-10.3	-0.3033 µg/L	-0.3033 ppb	19:52:07
1	Ni 231.604†	-82.7	-5.8	-0.0664 µg/L	-0.0664 ppb	19:52:07
1	P 214.914†	-17.8	0.3	0.0611 µg/L	0.0611 ppb	19:52:07
1	Pb 220.353†	92.7	5.8	0.3254 µg/L	0.3254 ppb	19:52:07
1	S 181.975 Axial†	92.1	-13.5	-10.016 µg/L	-10.016 ppb	19:52:07
1	Sb 206.836†	70.2	-11.0	-1.3187 µg/L	-1.3187 ppb	19:52:07
1	Se 196.026†	23.8	8.4	3.03 µg/L	3.03 ppb	19:52:07
1	SiO2†	1746.0	-38.6	-3.7620 µg/L	-3.7620 ppb	19:52:07
1	Si 251.611†	804.0	-36.7	-0.5381 µg/L	-0.5381 ppb	19:51:47
1	Sn 189.927†	-0.2	0.9	0.0546 µg/L	0.0546 ppb	19:52:07
1	Ti 334.940†	954.9	-2.7	-0.0011 µg/L	-0.0011 ppb	19:51:47
1	Tl 190.801†	-118.5	-1.2	-0.1445 µg/L	-0.1445 ppb	19:52:07
1	U 409.014†	-315.9	-44.3	-2.6009 µg/L	-2.6009 ppb	19:51:47
1	V 292.402†	377.6	-28.1	-0.1408 µg/L	-0.1408 ppb	19:51:47
1	Zn 213.857†	598.1	30.5	0.1719 µg/L	0.1719 ppb	19:52:07
2	Sc RADIAL	143131.7	143131.7	98.1 %		19:50:59
2	Al 396.153Radial†	-32.2	30.3	5.6296 µg/L	5.6296 ppb	19:51:19
2	Ca 317.933Radial†	576.7	27.4	1.5269 µg/L	1.5269 ppb	19:51:19
2	Fe 238.204 Radial†	158.7	13.7	0.8423 µg/L	0.8423 ppb	19:51:19
2	K 766.490 Radial†	1675.4	163.4	59.819 µg/L	59.819 ppb	19:50:59
2	Mg 279.077 IEC†	212.3	25.7	9.5785 µg/L	9.5785 ppb	19:51:19
2	Na 589.592 Radial†	1429.9	167.0	22.764 µg/L	22.764 ppb	19:50:59
2	Sr 421.552†	-273.0	-143.1	-0.2975 µg/L	-0.2975 ppb	19:50:59
2	Sc 361.383	1718494.8	1718494.8	100.02 %		19:52:09
2	Y 371.029	1028699.8	1028699.8	100.20 %		19:52:09
2	Ag 328.068†	4047.8	-44.2	-0.1507 µg/L	-0.1507 ppb	19:52:11
2	As 188.979†	-18.3	2.1	0.6206 µg/L	0.6206 ppb	19:52:32
2	B 249.677†	3519.8	13.3	0.1962 µg/L	0.1962 ppb	19:52:32
2	Ba 233.527†	-147.0	-11.2	-0.0449 µg/L	-0.0449 ppb	19:52:32
2	Be 313.107†	-767.5	297.4	0.0836 µg/L	0.0836 ppb	19:52:11
2	Cd 226.502†	-96.5	21.7	0.1357 µg/L	0.1357 ppb	19:52:32
2	Co 228.616†	-176.2	14.1	0.1739 µg/L	0.1739 ppb	19:52:32
2	Cr 267.716†	180.3	1.7	0.0063 µg/L	0.0063 ppb	19:52:32
2	Cu 324.752†	2889.0	-83.7	-0.3176 µg/L	-0.3176 ppb	19:52:11
2	Mn 257.610†	264.9	27.6	0.0338 µg/L	0.0338 ppb	19:52:32
2	Mo 202.031†	-22.6	-2.5	-0.0728 µg/L	-0.0728 ppb	19:52:32
2	Ni 231.604†	-57.5	19.1	0.2195 µg/L	0.2195 ppb	19:52:32
2	P 214.914†	4.9	22.9	4.9039 µg/L	4.9039 ppb	19:52:32
2	Pb 220.353†	90.9	4.5	0.2430 µg/L	0.2430 ppb	19:52:32

2	S 181.975 Axial†	92.8	-12.3	-9.1413 µg/L	-9.1413 ppb	19:52:32
2	Sb 206.836†	91.0	10.1	1.2060 µg/L	1.2060 ppb	19:52:32
2	Se 196.026†	23.4	8.1	2.95 µg/L	2.95 ppb	19:52:32
2	SiO2†	1770.3	-5.4	-0.5347 µg/L	-0.5347 ppb	19:52:32
2	Si 251.611†	816.5	-20.2	-0.3025 µg/L	-0.3025 ppb	19:52:11
2	Sn 189.927†	13.1	14.3	0.8887 µg/L	0.8887 ppb	19:52:32
2	Ti 334.940†	824.8	-127.9	-0.1238 µg/L	-0.1238 ppb	19:52:11
2	Tl 190.801†	-110.8	5.9	0.7247 µg/L	0.7247 ppb	19:52:32
2	U 409.014†	-118.9	151.0	8.8426 µg/L	8.8426 ppb	19:52:11
2	V 292.402†	441.7	37.8	0.1896 µg/L	0.1896 ppb	19:52:11
2	Zn 213.857†	569.1	4.5	0.0243 µg/L	0.0243 ppb	19:52:32
3	Sc RADIAL	142404.0	142404.0	97.6 %		19:51:21
3	Al 396.153Radial†	-37.8	24.5	4.5543 µg/L	4.5543 ppb	19:51:41
3	Ca 317.933Radial†	603.4	57.8	3.2194 µg/L	3.2194 ppb	19:51:41
3	Fe 238.204 Radial†	154.3	10.0	0.6188 µg/L	0.6188 ppb	19:51:41
3	K 766.490 Radial†	1584.3	78.7	28.824 µg/L	28.824 ppb	19:51:21
3	Mg 279.077 IEC†	168.4	-18.1	-6.7588 µg/L	-6.7588 ppb	19:51:41
3	Na 589.592 Radial†	1217.4	-43.3	-5.9413 µg/L	-5.9413 ppb	19:51:21
3	Sr 421.552†	-213.0	-83.0	-0.1726 µg/L	-0.1726 ppb	19:51:21
3	Sc 361.383	1725113.7	1725113.7	100.40 %		19:52:34
3	Y 371.029	1032434.0	1032434.0	100.56 %		19:52:34
3	Ag 328.068†	4136.4	28.4	0.1103 µg/L	0.1103 ppb	19:52:36
3	As 188.979†	-21.2	-0.8	-0.2286 µg/L	-0.2286 ppb	19:52:56
3	B 249.677†	3487.8	-32.0	-0.4730 µg/L	-0.4730 ppb	19:52:56
3	Ba 233.527†	-148.1	-11.7	-0.0471 µg/L	-0.0471 ppb	19:52:56
3	Be 313.107†	-958.9	109.7	0.0307 µg/L	0.0307 ppb	19:52:36
3	Cd 226.502†	-100.1	18.5	0.1156 µg/L	0.1156 ppb	19:52:56
3	Co 228.616†	-181.7	9.3	0.1151 µg/L	0.1151 ppb	19:52:56
3	Cr 267.716†	179.3	-0.0	-0.0022 µg/L	-0.0022 ppb	19:52:56
3	Cu 324.752†	2944.1	-39.9	-0.1527 µg/L	-0.1527 ppb	19:52:36
3	Mn 257.610†	258.6	20.3	0.0254 µg/L	0.0254 ppb	19:52:56
3	Mo 202.031†	-33.3	-13.1	-0.3839 µg/L	-0.3839 ppb	19:52:56
3	Ni 231.604†	-89.6	-12.8	-0.1471 µg/L	-0.1471 ppb	19:52:56
3	P 214.914†	-5.5	12.5	2.6899 µg/L	2.6899 ppb	19:52:56
3	Pb 220.353†	86.1	-0.6	-0.0367 µg/L	-0.0367 ppb	19:52:56
3	S 181.975 Axial†	105.1	-0.4	-0.3195 µg/L	-0.3195 ppb	19:52:56
3	Sb 206.836†	78.4	-2.7	-0.3234 µg/L	-0.3234 ppb	19:52:56
3	Se 196.026†	32.5	17.1	6.18 µg/L	6.18 ppb	19:52:56
3	SiO2†	1714.4	-67.8	-6.6340 µg/L	-6.6340 ppb	19:52:56
3	Si 251.611†	948.1	107.7	1.5850 µg/L	1.5850 ppb	19:52:36
3	Sn 189.927†	18.5	19.5	1.2178 µg/L	1.2178 ppb	19:52:56
3	Ti 334.940†	1054.7	98.0	0.0910 µg/L	0.0910 ppb	19:52:36
3	Tl 190.801†	-105.2	11.9	1.4675 µg/L	1.4675 ppb	19:52:56
3	U 409.014†	-221.6	49.1	2.8801 µg/L	2.8801 ppb	19:52:36
3	V 292.402†	431.8	26.3	0.1262 µg/L	0.1262 ppb	19:52:36
3	Zn 213.857†	567.6	1.0	0.0065 µg/L	0.0065 ppb	19:52:56

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1723636.7	100.32 %	0.267			0.27%
Sc RADIAL	143045.4	98.0 %	0.41			0.42%
Y 371.029	1031454.4	100.46 %	0.236			0.23%
Ag 328.068†	-69.9	-0.2546 µg/L	0.42634	-0.2546 ppb	0.42634	167.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	22.0	4.0961 µg/L	1.80672	4.0961 ppb	1.80672	44.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.4	1.0415 µg/L	1.52480	1.0415 ppb	1.52480	146.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-12.0	-0.1771 µg/L	0.34126	-0.1771 ppb	0.34126	192.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-15.2	-0.0614 µg/L	0.02676	-0.0614 ppb	0.02676	43.56%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	172.1	0.0478 µg/L	0.03107	0.0478 ppb	0.03107	65.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.2	2.2420 µg/L	0.87622	2.2420 ppb	0.87622	39.08%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	23.7	0.1480 µg/L	0.03996	0.1480 ppb	0.03996	27.01%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.3	0.2259 µg/L	0.14405	0.2259 ppb	0.14405	63.76%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	14.5	0.1111 µg/L	0.18892	0.1111 ppb	0.18892 170.01%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-67.1	-0.2583 µg/L	0.09167	-0.2583 ppb	0.09167 35.50%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	7.3	0.4508 µg/L	0.49733	0.4508 ppb	0.49733 110.33%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	69.4	25.411 µg/L	36.2364	25.411 ppb	36.2364 142.60%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-2.3	-0.8557 µg/L	9.06232	-0.8557 ppb	9.06232 >999.9%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	28.3	0.0350 µg/L	0.01036	0.0350 ppb	0.01036 29.56%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-8.6	-0.2533 µg/L	0.16143	-0.2533 ppb	0.16143 63.73%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	105.0	14.318 µg/L	17.6253	14.318 ppb	17.6253 123.10%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	0.2	0.0020 µg/L	0.19262	0.0020 ppb	0.19262 >999.9%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	11.9	2.5516 µg/L	2.42435	2.5516 ppb	2.42435 95.01%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	3.2	0.1772 µg/L	0.18975	0.1772 ppb	0.18975 107.07%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-8.7	-6.4924 µg/L	5.36374	-6.4924 ppb	5.36374 82.62%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-1.2	-0.1454 µg/L	1.27176	-0.1454 ppb	1.27176 874.71%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	11.2	4.05 µg/L	1.843	4.05 ppb	1.843 45.47%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-37.2	-3.6436 µg/L	3.05138	-3.6436 ppb	3.05138 83.75%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	16.9	0.2481 µg/L	1.16372	0.2481 ppb	1.16372 469.00%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	11.6	0.7204 µg/L	0.59961	0.7204 ppb	0.59961 83.23%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-128.3	-0.2667 µg/L	0.08309	-0.2667 ppb	0.08309 31.15%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-10.9	-0.0113 µg/L	0.10776	-0.0113 ppb	0.10776 953.77%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	5.6	0.6826 µg/L	0.80682	0.6826 ppb	0.80682 118.21%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	51.9	3.0406 µg/L	5.72342	3.0406 ppb	5.72342 188.23%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	12.0	0.0584 µg/L	0.17533	0.0584 ppb	0.17533 300.44%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	12.0	0.0676 µg/L	0.09081	0.0676 ppb	0.09081 134.41%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 20:18:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143153.1	143153.1	98.1 %		20:19:22
1	Al 396.153Radial†	26168.1	26738.9	4934.8 µg/L	4934.8 ppb	20:19:22
1	Ca 317.933Radial†	87812.2	88954.8	4955.1 µg/L	4955.1 ppb	20:19:22
1	Fe 238.204 Radial†	78188.9	79557.4	4903.4 µg/L	4903.4 ppb	20:19:22
1	K 766.490 Radial†	14678.9	13418.9	4908.8 µg/L	4908.8 ppb	20:19:22
1	Mg 279.077 IEC†	13438.9	13508.9	5040.9 µg/L	5040.9 ppb	20:19:22
1	Na 589.592 Radial†	71303.4	71395.6	9749.1 µg/L	9749.1 ppb	20:19:22
1	Sr 421.552†	231815.5	236447.2	491.52 µg/L	491.52 ppb	20:19:20
1	Sc 361.383	1733210.9	1733210.9	100.87 %		20:19:49
1	Y 371.029	1024566.6	1024566.6	99.793 %		20:19:49
1	Ag 328.068†	135811.2	130544.9	489.48 µg/L	489.48 ppb	20:19:49
1	As 188.979†	1620.4	1626.8	499.06 µg/L	499.06 ppb	20:20:09
1	B 249.677†	36886.7	33061.7	485.90 µg/L	485.90 ppb	20:19:49
1	Ba 233.527†	122122.4	121201.8	488.80 µg/L	488.80 ppb	20:19:49
1	Be 313.107†	1820796.8	1806110.5	491.91 µg/L	491.91 ppb	20:19:49
1	Cd 226.502†	79174.4	78607.7	490.71 µg/L	490.71 ppb	20:19:49
1	Co 228.616†	39967.4	39811.9	491.48 µg/L	491.48 ppb	20:19:49
1	Cr 267.716†	62802.0	62080.2	486.08 µg/L	486.08 ppb	20:19:49
1	Cu 324.752†	129193.6	125103.8	487.69 µg/L	487.69 ppb	20:19:49
1	Mn 257.610†	400949.3	397243.5	491.30 µg/L	491.30 ppb	20:19:49
1	Mo 202.031†	16640.3	16516.4	485.85 µg/L	485.85 ppb	20:20:09
1	Ni 231.604†	42932.4	42637.5	490.94 µg/L	490.94 ppb	20:19:49
1	P 214.914†	11516.5	11434.8	2437.3 µg/L	2437.3 ppb	20:20:09
1	Pb 220.353†	8939.2	8775.5	491.41 µg/L	491.41 ppb	20:20:09
1	S 181.975 Axial†	1432.0	1314.6	980.26 µg/L	980.26 ppb	20:20:09
1	Sb 206.836†	4200.0	4082.8	486.45 µg/L	486.45 ppb	20:20:09
1	Se 196.026†	1380.3	1353.0	491 µg/L	491 ppb	20:20:09
1	SiO2†	56585.0	54320.2	5288.5 µg/L	5288.5 ppb	20:19:49
1	Si 251.611†	171480.3	169160.3	2484.2 µg/L	2484.2 ppb	20:19:49
1	Sn 189.927†	7899.9	7832.7	489.93 µg/L	489.93 ppb	20:20:09
1	Ti 334.940†	528670.3	523144.4	488.13 µg/L	488.13 ppb	20:19:49
1	Tl 190.801†	3879.4	3962.5	494.19 µg/L	494.19 ppb	20:20:09
1	U 409.014†	7456.1	7661.5	477.56 µg/L	477.56 ppb	20:19:49
1	V 292.402†	100505.8	99232.6	490.53 µg/L	490.53 ppb	20:19:49
1	Zn 213.857†	88711.3	87379.4	487.00 µg/L	487.00 ppb	20:19:49
2	Sc RADIAL	145636.2	145636.2	99.8 %		20:19:26
2	Al 396.153Radial†	26516.1	26632.7	4915.0 µg/L	4915.0 ppb	20:19:26
2	Ca 317.933Radial†	89356.1	88975.7	4956.3 µg/L	4956.3 ppb	20:19:26
2	Fe 238.204 Radial†	79820.2	79833.0	4920.4 µg/L	4920.4 ppb	20:19:26
2	K 766.490 Radial†	14884.7	13369.9	4890.9 µg/L	4890.9 ppb	20:19:26
2	Mg 279.077 IEC†	13655.2	13492.0	5034.7 µg/L	5034.7 ppb	20:19:26
2	Na 589.592 Radial†	72574.2	71429.7	9753.8 µg/L	9753.8 ppb	20:19:26
2	Sr 421.552†	229556.2	230154.3	478.44 µg/L	478.44 ppb	20:19:24
2	Sc 361.383	1728845.1	1728845.1	100.62 %		20:20:12
2	Y 371.029	1022537.6	1022537.6	99.596 %		20:20:12
2	Ag 328.068†	135255.7	130332.9	488.71 µg/L	488.71 ppb	20:20:12
2	As 188.979†	1619.6	1630.0	500.04 µg/L	500.04 ppb	20:20:32
2	B 249.677†	36772.6	33040.7	485.59 µg/L	485.59 ppb	20:20:12
2	Ba 233.527†	121898.2	121284.8	489.14 µg/L	489.14 ppb	20:20:12
2	Be 313.107†	1814391.8	1804303.2	491.42 µg/L	491.42 ppb	20:20:12
2	Cd 226.502†	79019.6	78652.0	490.98 µg/L	490.98 ppb	20:20:12
2	Co 228.616†	39865.2	39810.5	491.46 µg/L	491.46 ppb	20:20:12
2	Cr 267.716†	62636.0	62072.4	486.01 µg/L	486.01 ppb	20:20:12
2	Cu 324.752†	128465.8	124703.9	486.15 µg/L	486.15 ppb	20:20:12
2	Mn 257.610†	400168.4	397471.3	491.58 µg/L	491.58 ppb	20:20:12
2	Mo 202.031†	16701.4	16618.8	488.86 µg/L	488.86 ppb	20:20:32
2	Ni 231.604†	42806.4	42619.8	490.74 µg/L	490.74 ppb	20:20:12
2	P 214.914†	11559.5	11506.4	2452.7 µg/L	2452.7 ppb	20:20:32
2	Pb 220.353†	8967.3	8825.8	494.22 µg/L	494.22 ppb	20:20:32

2	S 181.975 Axial†	1438.1	1324.2	987.46 µg/L	987.46 ppb	20:20:32
2	Sb 206.836†	4222.2	4115.5	490.38 µg/L	490.38 ppb	20:20:32
2	Se 196.026†	1378.4	1354.7	492 µg/L	492 ppb	20:20:32
2	SiO2†	56546.5	54423.5	5298.4 µg/L	5298.4 ppb	20:20:12
2	Si 251.611†	170798.4	168911.9	2480.5 µg/L	2480.5 ppb	20:20:12
2	Sn 189.927†	7975.7	7927.8	495.86 µg/L	495.86 ppb	20:20:32
2	Ti 334.940†	527695.2	523498.9	488.46 µg/L	488.46 ppb	20:20:12
2	Tl 190.801†	3917.6	4010.2	500.05 µg/L	500.05 ppb	20:20:32
2	U 409.014†	7647.3	7870.2	489.74 µg/L	489.74 ppb	20:20:12
2	V 292.402†	100177.9	99158.3	490.21 µg/L	490.21 ppb	20:20:12
2	Zn 213.857†	88577.4	87468.5	487.50 µg/L	487.50 ppb	20:20:12
3	Sc RADIAL	145946.5	145946.5	100 %		20:19:30
3	Al 396.153Radial†	26926.1	26986.3	4980.6 µg/L	4980.6 ppb	20:19:30
3	Ca 317.933Radial†	89888.2	89317.4	4975.3 µg/L	4975.3 ppb	20:19:30
3	Fe 238.204 Radial†	79999.4	79842.2	4921.0 µg/L	4921.0 ppb	20:19:30
3	K 766.490 Radial†	15067.7	13521.2	4946.3 µg/L	4946.3 ppb	20:19:30
3	Mg 279.077 IEC†	13820.0	13627.7	5085.2 µg/L	5085.2 ppb	20:19:30
3	Na 589.592 Radial†	72903.4	71604.2	9777.6 µg/L	9777.6 ppb	20:19:30
3	Sr 421.552†	233932.9	234041.4	486.52 µg/L	486.52 ppb	20:19:28
3	Sc 361.383	1729036.7	1729036.7	100.63 %		20:20:35
3	Y 371.029	1022141.3	1022141.3	99.557 %		20:20:35
3	Ag 328.068†	135415.2	130476.4	489.24 µg/L	489.24 ppb	20:20:35
3	As 188.979†	1624.2	1634.3	501.36 µg/L	501.36 ppb	20:20:55
3	B 249.677†	36712.7	32977.1	484.65 µg/L	484.65 ppb	20:20:35
3	Ba 233.527†	121713.3	121087.6	488.34 µg/L	488.34 ppb	20:20:35
3	Be 313.107†	1816122.4	1805823.1	491.83 µg/L	491.83 ppb	20:20:35
3	Cd 226.502†	78922.7	78547.0	490.33 µg/L	490.33 ppb	20:20:35
3	Co 228.616†	39794.6	39735.9	490.54 µg/L	490.54 ppb	20:20:35
3	Cr 267.716†	62716.2	62145.2	486.58 µg/L	486.58 ppb	20:20:35
3	Cu 324.752†	128635.8	124858.6	486.75 µg/L	486.75 ppb	20:20:35
3	Mn 257.610†	399725.7	396987.2	490.98 µg/L	490.98 ppb	20:20:35
3	Mo 202.031†	16642.9	16558.8	487.09 µg/L	487.09 ppb	20:20:55
3	Ni 231.604†	42654.8	42464.4	488.95 µg/L	488.95 ppb	20:20:35
3	P 214.914†	11489.1	11435.1	2437.4 µg/L	2437.4 ppb	20:20:55
3	Pb 220.353†	8938.2	8795.9	492.55 µg/L	492.55 ppb	20:20:55
3	S 181.975 Axial†	1425.7	1311.7	978.16 µg/L	978.16 ppb	20:20:55
3	Sb 206.836†	4196.0	4088.9	487.18 µg/L	487.18 ppb	20:20:55
3	Se 196.026†	1380.4	1356.5	493 µg/L	493 ppb	20:20:55
3	SiO2†	56405.9	54277.6	5284.2 µg/L	5284.2 ppb	20:20:35
3	Si 251.611†	170675.9	168771.4	2478.4 µg/L	2478.4 ppb	20:20:35
3	Sn 189.927†	7906.9	7858.6	491.55 µg/L	491.55 ppb	20:20:55
3	Ti 334.940†	526963.4	522713.5	487.72 µg/L	487.72 ppb	20:20:35
3	Tl 190.801†	3898.2	3990.5	497.62 µg/L	497.62 ppb	20:20:55
3	U 409.014†	7622.6	7844.8	488.24 µg/L	488.24 ppb	20:20:35
3	V 292.402†	100122.2	99092.0	489.87 µg/L	489.87 ppb	20:20:35
3	Zn 213.857†	88619.8	87500.9	487.69 µg/L	487.69 ppb	20:20:35

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1730364.2	100.71 %	0.144			0.14%
Sc RADIAL	144911.9	99.3 %	1.05			1.06%
Y 371.029	1023081.8	99.649 %	0.1267			0.13%
Ag 328.068†	130451.4	489.14 µg/L	0.396	489.14 ppb	0.396	0.08%
QC value within limits for Ag 328.068 Recovery = 97.83%						
Al 396.153Radial†	26786.0	4943.5 µg/L	33.66	4943.5 ppb	33.66	0.68%
QC value within limits for Al 396.153Radial Recovery = 98.87%						
As 188.979†	1630.4	500.15 µg/L	1.155	500.15 ppb	1.155	0.23%
QC value within limits for As 188.979 Recovery = 100.03%						
B 249.677†	33026.5	485.38 µg/L	0.648	485.38 ppb	0.648	0.13%
QC value within limits for B 249.677 Recovery = 97.08%						
Ba 233.527†	121191.4	488.76 µg/L	0.399	488.76 ppb	0.399	0.08%
QC value within limits for Ba 233.527 Recovery = 97.75%						
Be 313.107†	1805412.3	491.72 µg/L	0.263	491.72 ppb	0.263	0.05%
QC value within limits for Be 313.107 Recovery = 98.34%						
Ca 317.933Radial†	89082.6	4962.3 µg/L	11.34	4962.3 ppb	11.34	0.23%
QC value within limits for Ca 317.933Radial Recovery = 99.25%						
Cd 226.502†	78602.2	490.67 µg/L	0.330	490.67 ppb	0.330	0.07%
QC value within limits for Cd 226.502 Recovery = 98.13%						
Co 228.616†	39786.1	491.16 µg/L	0.537	491.16 ppb	0.537	0.11%

QC value within limits for Co 228.616 Recovery = 98.23%					
Cr 267.716†	62099.2	486.22 µg/L	0.311	486.22 ppb	0.06%
QC value within limits for Cr 267.716 Recovery = 97.24%					
Cu 324.752†	124888.8	486.86 µg/L	0.777	486.86 ppb	0.16%
QC value within limits for Cu 324.752 Recovery = 97.37%					
Fe 238.204 Radial†	79744.2	4914.9 µg/L	9.97	4914.9 ppb	0.20%
QC value within limits for Fe 238.204 Radial Recovery = 98.30%					
K 766.490 Radial†	13436.7	4915.3 µg/L	28.26	4915.3 ppb	0.57%
QC value within limits for K 766.490 Radial Recovery = 98.31%					
Mg 279.077 IEC†	13542.9	5053.6 µg/L	27.54	5053.6 ppb	0.54%
QC value within limits for Mg 279.077 IEC Recovery = 101.07%					
Mn 257.610†	397234.0	491.28 µg/L	0.301	491.28 ppb	0.06%
QC value within limits for Mn 257.610 Recovery = 98.26%					
Mo 202.031†	16564.7	487.26 µg/L	1.512	487.26 ppb	0.31%
QC value within limits for Mo 202.031 Recovery = 97.45%					
Na 589.592 Radial†	71476.5	9760.2 µg/L	15.27	9760.2 ppb	0.16%
QC value within limits for Na 589.592 Radial Recovery = 97.60%					
Ni 231.604†	42573.9	490.21 µg/L	1.097	490.21 ppb	0.22%
QC value within limits for Ni 231.604 Recovery = 98.04%					
P 214.914†	11458.8	2442.5 µg/L	8.83	2442.5 ppb	0.36%
QC value within limits for P 214.914 Recovery = 97.70%					
Pb 220.353†	8799.1	492.73 µg/L	1.412	492.73 ppb	0.29%
QC value within limits for Pb 220.353 Recovery = 98.55%					
S 181.975 Axial†	1316.8	981.96 µg/L	4.877	981.96 ppb	0.50%
QC value within limits for S 181.975 Axial Recovery = 98.20%					
Sb 206.836†	4095.7	488.00 µg/L	2.090	488.00 ppb	0.43%
QC value within limits for Sb 206.836 Recovery = 97.60%					
Se 196.026†	1354.7	492 µg/L	0.6	492 ppb	0.13%
QC value within limits for Se 196.026 Recovery = 98.38%					
SiO2†	54340.4	5290.4 µg/L	7.26	5290.4 ppb	0.14%
QC value within limits for SiO2 Recovery = 98.93%					
Si 251.611†	168947.8	2481.0 µg/L	2.92	2481.0 ppb	0.12%
QC value within limits for Si 251.611 Recovery = 99.24%					
Sn 189.927†	7873.0	492.45 µg/L	3.064	492.45 ppb	0.62%
QC value within limits for Sn 189.927 Recovery = 98.49%					
Sr 421.552†	233547.6	485.49 µg/L	6.601	485.49 ppb	1.36%
QC value within limits for Sr 421.552 Recovery = 97.10%					
Ti 334.940†	523118.9	488.10 µg/L	0.369	488.10 ppb	0.08%
QC value within limits for Ti 334.940 Recovery = 97.62%					
Tl 190.801†	3987.7	497.29 µg/L	2.942	497.29 ppb	0.59%
QC value within limits for Tl 190.801 Recovery = 99.46%					
U 409.014†	7792.1	485.18 µg/L	6.641	485.18 ppb	1.37%
QC value within limits for U 409.014 Recovery = 97.04%					
V 292.402†	99160.9	490.20 µg/L	0.333	490.20 ppb	0.07%
QC value within limits for V 292.402 Recovery = 98.04%					
Zn 213.857†	87449.6	487.40 µg/L	0.359	487.40 ppb	0.07%
QC value within limits for Zn 213.857 Recovery = 97.48%					

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 20:21:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146174.9	146174.9	100 %		20:21:32
1	Al 396.153Radial†	-79.4	-16.1	-2.9762 µg/L	-2.9762 ppb	20:21:52
1	Ca 317.933Radial†	607.9	46.3	2.5767 µg/L	2.5767 ppb	20:21:52
1	Fe 238.204 Radial†	175.5	27.1	1.6726 µg/L	1.6726 ppb	20:21:52
1	K 766.490 Radial†	1577.3	29.9	10.948 µg/L	10.948 ppb	20:21:32
1	Mg 279.077 IEC†	206.8	15.8	5.8733 µg/L	5.8733 ppb	20:21:52
1	Na 589.592 Radial†	1475.9	182.7	24.946 µg/L	24.946 ppb	20:21:32
1	Sr 421.552†	-270.2	-134.5	-0.2796 µg/L	-0.2796 ppb	20:21:32
1	Sc 361.383	1719316.1	1719316.1	100.06 %		20:22:40
1	Y 371.029	1027520.1	1027520.1	100.08 %		20:22:40
1	Ag 328.068†	3648.5	-445.2	-1.6556 µg/L	-1.6556 ppb	20:22:42
1	As 188.979†	-10.6	9.8	2.9605 µg/L	2.9605 ppb	20:23:02
1	B 249.677†	3416.1	-91.9	-1.3568 µg/L	-1.3568 ppb	20:22:42
1	Ba 233.527†	-134.2	1.8	0.0069 µg/L	0.0069 ppb	20:23:02
1	Be 313.107†	-785.4	279.8	0.0750 µg/L	0.0750 ppb	20:22:42
1	Cd 226.502†	-108.1	10.2	0.0635 µg/L	0.0635 ppb	20:23:02
1	Co 228.616†	-170.8	19.6	0.2418 µg/L	0.2418 ppb	20:23:02
1	Cr 267.716†	211.4	32.7	0.2593 µg/L	0.2593 ppb	20:23:02
1	Cu 324.752†	2952.3	-21.8	-0.0873 µg/L	-0.0873 ppb	20:22:42
1	Mn 257.610†	205.0	-32.4	-0.0403 µg/L	-0.0403 ppb	20:23:02
1	Mo 202.031†	-26.7	-6.6	-0.1949 µg/L	-0.1949 ppb	20:23:02
1	Ni 231.604†	-85.9	-9.3	-0.1075 µg/L	-0.1075 ppb	20:23:02
1	P 214.914†	-27.5	-9.5	-2.0307 µg/L	-2.0307 ppb	20:23:02
1	Pb 220.353†	49.6	-36.9	-2.0549 µg/L	-2.0549 ppb	20:23:02
1	S 181.975 Axial†	90.7	-14.4	-10.672 µg/L	-10.672 ppb	20:23:02
1	Sb 206.836†	90.3	9.4	1.1175 µg/L	1.1175 ppb	20:23:02
1	Se 196.026†	14.0	-1.3	-0.483 µg/L	-0.483 ppb	20:23:02
1	SiO2†	1815.4	38.8	3.7882 µg/L	3.7882 ppb	20:22:42
1	Si 251.611†	978.4	141.2	2.0787 µg/L	2.0787 ppb	20:22:42
1	Sn 189.927†	12.7	13.8	0.8612 µg/L	0.8612 ppb	20:23:02
1	Ti 334.940†	944.8	-8.3	-0.0067 µg/L	-0.0067 ppb	20:22:42
1	Tl 190.801†	-123.6	-6.9	-0.8478 µg/L	-0.8478 ppb	20:23:02
1	U 409.014†	-334.8	-64.7	-3.7948 µg/L	-3.7948 ppb	20:22:42
1	V 292.402†	364.6	-39.5	-0.1962 µg/L	-0.1962 ppb	20:22:42
1	Zn 213.857†	609.9	45.1	0.2536 µg/L	0.2536 ppb	20:23:02
2	Sc RADIAL	146261.6	146261.6	100 %		20:21:54
2	Al 396.153Radial†	-54.4	8.9	1.6620 µg/L	1.6620 ppb	20:22:14
2	Ca 317.933Radial†	618.8	56.9	3.1671 µg/L	3.1671 ppb	20:22:14
2	Fe 238.204 Radial†	170.1	21.6	1.3318 µg/L	1.3318 ppb	20:22:14
2	K 766.490 Radial†	1690.5	141.9	51.938 µg/L	51.938 ppb	20:21:54
2	Mg 279.077 IEC†	158.6	-32.4	-12.093 µg/L	-12.093 ppb	20:22:14
2	Na 589.592 Radial†	1436.5	142.5	19.415 µg/L	19.415 ppb	20:21:54
2	Sr 421.552†	-283.2	-147.2	-0.3061 µg/L	-0.3061 ppb	20:21:54
2	Sc 361.383	1736802.1	1736802.1	101.08 %		20:23:04
2	Y 371.029	1037454.3	1037454.3	101.05 %		20:23:04
2	Ag 328.068†	3948.2	-185.4	-0.6882 µg/L	-0.6882 ppb	20:23:06
2	As 188.979†	-24.7	-4.1	-1.2374 µg/L	-1.2374 ppb	20:23:27
2	B 249.677†	3576.8	32.6	0.4812 µg/L	0.4812 ppb	20:23:06
2	Ba 233.527†	-102.2	34.7	0.1396 µg/L	0.1396 ppb	20:23:27
2	Be 313.107†	-962.5	112.5	0.0317 µg/L	0.0317 ppb	20:23:06
2	Cd 226.502†	-108.2	11.1	0.0694 µg/L	0.0694 ppb	20:23:27
2	Co 228.616†	-196.2	-3.8	-0.0464 µg/L	-0.0464 ppb	20:23:27
2	Cr 267.716†	207.6	26.8	0.2073 µg/L	0.2073 ppb	20:23:27
2	Cu 324.752†	2974.7	-29.3	-0.1113 µg/L	-0.1113 ppb	20:23:06
2	Mn 257.610†	216.8	-22.8	-0.0277 µg/L	-0.0277 ppb	20:23:27
2	Mo 202.031†	-26.2	-5.9	-0.1726 µg/L	-0.1726 ppb	20:23:27
2	Ni 231.604†	-83.0	-5.6	-0.0648 µg/L	-0.0648 ppb	20:23:27
2	P 214.914†	-18.2	-0.1	-0.0033 µg/L	-0.0033 ppb	20:23:27
2	Pb 220.353†	96.9	9.5	0.5245 µg/L	0.5245 ppb	20:23:27

2	S	181.975 Axial†	101.1	-5.0	-3.7428 µg/L	-3.7428 ppb	20:23:27
2	Sb	206.836†	77.7	-4.0	-0.4743 µg/L	-0.4743 ppb	20:23:27
2	Se	196.026†	10.0	-5.3	-1.93 µg/L	-1.93 ppb	20:23:27
2	SiO2†		1822.3	27.5	2.6742 µg/L	2.6742 ppb	20:23:06
2	Si	251.611†	856.2	10.5	0.1497 µg/L	0.1497 ppb	20:23:06
2	Sn	189.927†	15.8	16.8	1.0464 µg/L	1.0464 ppb	20:23:27
2	Ti	334.940†	965.6	2.7	0.0021 µg/L	0.0021 ppb	20:23:06
2	Tl	190.801†	-105.1	12.7	1.5599 µg/L	1.5599 ppb	20:23:27
2	U	409.014†	-213.8	58.4	3.3839 µg/L	3.3839 ppb	20:23:06
2	V	292.402†	306.8	-100.3	-0.4881 µg/L	-0.4881 ppb	20:23:06
2	Zn	213.857†	601.0	30.1	0.1695 µg/L	0.1695 ppb	20:23:27
3	Sc	RADIAL	145163.3	145163.3	99.5 %		20:22:16
3	Al	396.153Radial†	-66.5	-3.7	-0.6680 µg/L	-0.6680 ppb	20:22:36
3	Ca	317.933Radial†	599.5	42.1	2.3456 µg/L	2.3456 ppb	20:22:36
3	Fe	238.204 Radial†	160.3	13.1	0.8047 µg/L	0.8047 ppb	20:22:36
3	K	766.490 Radial†	1445.8	-91.3	-33.426 µg/L	-33.426 ppb	20:22:16
3	Mg	279.077 IEC†	163.3	-26.5	-9.9007 µg/L	-9.9007 ppb	20:22:36
3	Na	589.592 Radial†	1438.5	155.3	21.242 µg/L	21.242 ppb	20:22:16
3	Sr	421.552†	-217.7	-83.6	-0.1738 µg/L	-0.1738 ppb	20:22:16
3	Sc	361.383	1747018.8	1747018.8	101.68 %		20:23:29
3	Y	371.029	1043372.0	1043372.0	101.62 %		20:23:29
3	Ag	328.068†	3928.6	-227.6	-0.8550 µg/L	-0.8550 ppb	20:23:31
3	As	188.979†	-14.6	6.0	1.8114 µg/L	1.8114 ppb	20:23:51
3	B	249.677†	3628.2	62.5	0.9207 µg/L	0.9207 ppb	20:23:31
3	Ba	233.527†	-150.3	-11.9	-0.0482 µg/L	-0.0482 ppb	20:23:51
3	Be	313.107†	-1063.0	19.3	0.0023 µg/L	0.0023 ppb	20:23:31
3	Cd	226.502†	-104.1	15.8	0.0984 µg/L	0.0984 ppb	20:23:51
3	Co	228.616†	-183.5	9.9	0.1217 µg/L	0.1217 ppb	20:23:51
3	Cr	267.716†	179.0	-2.6	-0.0122 µg/L	-0.0122 ppb	20:23:51
3	Cu	324.752†	3108.9	85.4	0.3239 µg/L	0.3239 ppb	20:23:31
3	Mn	257.610†	215.7	-25.1	-0.0307 µg/L	-0.0307 ppb	20:23:51
3	Mo	202.031†	-32.3	-11.7	-0.3450 µg/L	-0.3450 ppb	20:23:51
3	Ni	231.604†	-84.7	-6.8	-0.0779 µg/L	-0.0779 ppb	20:23:51
3	P	214.914†	-27.0	-8.6	-1.8417 µg/L	-1.8417 ppb	20:23:51
3	Pb	220.353†	93.1	5.2	0.2966 µg/L	0.2966 ppb	20:23:51
3	S	181.975 Axial†	107.7	0.8	0.6238 µg/L	0.6238 ppb	20:23:51
3	Sb	206.836†	73.2	-8.8	-1.0551 µg/L	-1.0551 ppb	20:23:51
3	Se	196.026†	-3.4	-18.6	-6.74 µg/L	-6.74 ppb	20:23:51
3	SiO2†		1790.0	-14.9	-1.4424 µg/L	-1.4424 ppb	20:23:31
3	Si	251.611†	917.7	66.0	0.9787 µg/L	0.9787 ppb	20:23:31
3	Sn	189.927†	-2.4	-1.3	-0.0792 µg/L	-0.0792 ppb	20:23:51
3	Ti	334.940†	1230.7	257.8	0.2458 µg/L	0.2458 ppb	20:23:31
3	Tl	190.801†	-121.9	-3.2	-0.3892 µg/L	-0.3892 ppb	20:23:51
3	U	409.014†	-444.6	-167.4	-9.7866 µg/L	-9.7866 ppb	20:23:31
3	V	292.402†	407.2	-3.3	-0.0267 µg/L	-0.0267 ppb	20:23:31
3	Zn	213.857†	572.9	-1.0	-0.0054 µg/L	-0.0054 ppb	20:23:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1734379.0	100.94 %	0.815			0.81%
Sc RADIAL	145866.6	100.0 %	0.42			0.42%
Y 371.029	1036115.5	100.92 %	0.780			0.77%
Ag 328.068†	-286.1	-1.0663 µg/L	0.51712	-1.0663 ppb	0.51712	48.50%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.6	-0.6608 µg/L	2.31909	-0.6608 ppb	2.31909	350.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.9	1.1781 µg/L	2.16942	1.1781 ppb	2.16942	184.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1.0	0.0150 µg/L	1.20824	0.0150 ppb	1.20824	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.2	0.0328 µg/L	0.09650	0.0328 ppb	0.09650	294.60%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	137.2	0.0363 µg/L	0.03660	0.0363 ppb	0.03660	100.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	48.4	2.6965 µg/L	0.42361	2.6965 ppb	0.42361	15.71%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	12.4	0.0771 µg/L	0.01869	0.0771 ppb	0.01869	24.25%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.6	0.1057 µg/L	0.14474	0.1057 ppb	0.14474	136.94%

QC value within limits for Co 228.616	Recovery = Not calculated			
Cr 267.716†	19.0	0.1515 µg/L	0.14414	0.1515 ppb
QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu 324.752†	11.4	0.0418 µg/L	0.24463	0.0418 ppb
QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe 238.204 Radial†	20.6	1.2697 µg/L	0.43727	1.2697 ppb
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K 766.490 Radial†	26.8	9.8201 µg/L	42.69298	9.8201 ppb
QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg 279.077 IEC†	-14.4	-5.3735 µg/L	9.80148	-5.3735 ppb
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn 257.610†	-26.8	-0.0329 µg/L	0.00657	-0.0329 ppb
QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo 202.031†	-8.1	-0.2375 µg/L	0.09374	-0.2375 ppb
QC value within limits for Mo 202.031	Recovery = Not calculated			
Na 589.592 Radial†	160.1	21.868 µg/L	2.8179	21.868 ppb
QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni 231.604†	-7.2	-0.0834 µg/L	0.02187	-0.0834 ppb
QC value within limits for Ni 231.604	Recovery = Not calculated			
P 214.914†	-6.1	-1.2919 µg/L	1.11996	-1.2919 ppb
QC value within limits for P 214.914	Recovery = Not calculated			
Pb 220.353†	-7.4	-0.4112 µg/L	1.42800	-0.4112 ppb
QC value within limits for Pb 220.353	Recovery = Not calculated			
S 181.975 Axial†	-6.2	-4.5969 µg/L	5.69602	-4.5969 ppb
QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb 206.836†	-1.1	-0.1373 µg/L	1.12485	-0.1373 ppb
QC value within limits for Sb 206.836	Recovery = Not calculated			
Se 196.026†	-8.4	-3.05 µg/L	3.277	-3.05 ppb
QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†	17.1	1.6733 µg/L	2.75522	1.6733 ppb
QC value within limits for SiO2	Recovery = Not calculated			
Si 251.611†	72.6	1.0690 µg/L	0.96766	1.0690 ppb
QC value within limits for Si 251.611	Recovery = Not calculated			
Sn 189.927†	9.8	0.6095 µg/L	0.60356	0.6095 ppb
QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr 421.552†	-121.8	-0.2532 µg/L	0.06998	-0.2532 ppb
QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti 334.940†	84.1	0.0804 µg/L	0.14329	0.0804 ppb
QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl 190.801†	0.9	0.1076 µg/L	1.27840	0.1076 ppb
QC value within limits for Tl 190.801	Recovery = Not calculated			
U 409.014†	-57.9	-3.3992 µg/L	6.59417	-3.3992 ppb
QC value within limits for U 409.014	Recovery = Not calculated			
V 292.402†	-47.7	-0.2370 µg/L	0.23337	-0.2370 ppb
QC value within limits for V 292.402	Recovery = Not calculated			
Zn 213.857†	24.7	0.1393 µg/L	0.13213	0.1393 ppb
QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

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

Autosampler Location: 7
 Date Collected: 3/31/2010 20:46:32
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142658.3	142658.3	97.8 %		20:47:06
1	Al 396.153Radial†	26173.0	26836.4	4953.1 µg/L	4953.1 ppb	20:47:06
1	Ca 317.933Radial†	86811.8	88242.0	4915.4 µg/L	4915.4 ppb	20:47:06
1	Fe 238.204 Radial†	77308.1	78932.9	4864.9 µg/L	4864.9 ppb	20:47:06
1	K 766.490 Radial†	14453.8	13240.4	4843.5 µg/L	4843.5 ppb	20:47:06
1	Mg 279.077 IEC†	13219.2	13331.7	4974.8 µg/L	4974.8 ppb	20:47:06
1	Na 589.592 Radial†	70981.3	71318.3	9738.6 µg/L	9738.6 ppb	20:47:06
1	Sr 421.552†	229479.6	234877.4	488.26 µg/L	488.26 ppb	20:47:04
1	Sc 361.383	1717986.8	1717986.8	99.987 %		20:47:18
1	Y 371.029	1016974.2	1016974.2	99.054 %		20:47:18
1	Ag 328.068†	133861.9	129788.4	486.66 µg/L	486.66 ppb	20:47:18
1	As 188.979†	1570.9	1591.4	488.31 µg/L	488.31 ppb	20:47:39
1	B 249.677†	35888.7	32387.7	475.97 µg/L	475.97 ppb	20:47:18
1	Ba 233.527†	120089.3	120241.3	484.93 µg/L	484.93 ppb	20:47:18
1	Be 313.107†	1788228.5	1789533.4	487.39 µg/L	487.39 ppb	20:47:18
1	Cd 226.502†	77187.6	77316.2	482.64 µg/L	482.64 ppb	20:47:18
1	Co 228.616†	39259.0	39454.6	487.07 µg/L	487.07 ppb	20:47:18
1	Cr 267.716†	61734.0	61563.8	482.03 µg/L	482.03 ppb	20:47:18
1	Cu 324.752†	127051.0	124095.8	483.76 µg/L	483.76 ppb	20:47:18
1	Mn 257.610†	394153.9	393969.6	487.25 µg/L	487.25 ppb	20:47:18
1	Mo 202.031†	16323.5	16345.7	480.82 µg/L	480.82 ppb	20:47:39
1	Ni 231.604†	42025.4	42107.6	484.84 µg/L	484.84 ppb	20:47:18
1	P 214.914†	11165.4	11184.8	2383.9 µg/L	2383.9 ppb	20:47:39
1	Pb 220.353†	8721.1	8635.9	483.61 µg/L	483.61 ppb	20:47:39
1	S 181.975 Axial†	1384.6	1279.7	954.32 µg/L	954.32 ppb	20:47:39
1	Sb 206.836†	4121.5	4041.3	481.48 µg/L	481.48 ppb	20:47:39
1	Se 196.026†	1330.1	1315.0	478 µg/L	478 ppb	20:47:39
1	SiO2†	55658.0	53890.1	5246.7 µg/L	5246.7 ppb	20:47:18
1	Si 251.611†	168475.5	167661.6	2462.2 µg/L	2462.2 ppb	20:47:18
1	Sn 189.927†	7694.7	7696.9	481.46 µg/L	481.46 ppb	20:47:39
1	Ti 334.940†	521521.0	520638.5	485.79 µg/L	485.79 ppb	20:47:18
1	Tl 190.801†	3795.7	3912.8	488.05 µg/L	488.05 ppb	20:47:39
1	U 409.014†	7470.6	7741.5	482.06 µg/L	482.06 ppb	20:47:18
1	V 292.402†	99032.8	98642.4	487.59 µg/L	487.59 ppb	20:47:18
1	Zn 213.857†	86847.2	86294.4	480.95 µg/L	480.95 ppb	20:47:18
2	Sc RADIAL	142003.0	142003.0	97.3 %		20:47:10
2	Al 396.153Radial†	25928.5	26708.7	4929.4 µg/L	4929.4 ppb	20:47:10
2	Ca 317.933Radial†	86471.0	88301.6	4918.7 µg/L	4918.7 ppb	20:47:10
2	Fe 238.204 Radial†	76877.1	78854.9	4860.1 µg/L	4860.1 ppb	20:47:10
2	K 766.490 Radial†	14481.3	13337.0	4878.8 µg/L	4878.8 ppb	20:47:10
2	Mg 279.077 IEC†	13250.2	13425.9	5009.9 µg/L	5009.9 ppb	20:47:10
2	Na 589.592 Radial†	70794.9	71461.8	9758.2 µg/L	9758.2 ppb	20:47:10
2	Sr 421.552†	230824.3	237342.5	493.38 µg/L	493.38 ppb	20:47:08
2	Sc 361.383	1705978.0	1705978.0	99.288 %		20:47:42
2	Y 371.029	1010151.3	1010151.3	98.389 %		20:47:42
2	Ag 328.068†	132428.5	129287.2	484.78 µg/L	484.78 ppb	20:47:42
2	As 188.979†	1571.4	1603.0	491.82 µg/L	491.82 ppb	20:48:02
2	B 249.677†	35678.8	32428.9	476.59 µg/L	476.59 ppb	20:47:42
2	Ba 233.527†	119061.0	120051.1	484.16 µg/L	484.16 ppb	20:47:42
2	Be 313.107†	1771852.0	1785628.8	486.33 µg/L	486.33 ppb	20:47:42
2	Cd 226.502†	76647.7	77315.8	482.64 µg/L	482.64 ppb	20:47:42
2	Co 228.616†	38849.5	39318.5	485.39 µg/L	485.39 ppb	20:47:42
2	Cr 267.716†	61408.7	61670.7	482.88 µg/L	482.88 ppb	20:47:42
2	Cu 324.752†	125575.7	123504.5	481.46 µg/L	481.46 ppb	20:47:42
2	Mn 257.610†	390410.2	392973.9	486.01 µg/L	486.01 ppb	20:47:42
2	Mo 202.031†	16220.6	16357.1	481.16 µg/L	481.16 ppb	20:48:02
2	Ni 231.604†	41645.6	42020.9	483.84 µg/L	483.84 ppb	20:47:42
2	P 214.914†	11149.7	11247.7	2397.4 µg/L	2397.4 ppb	20:48:02
2	Pb 220.353†	8713.0	8689.1	486.58 µg/L	486.58 ppb	20:48:02

2	S 181.975 Axial†	1386.6	1291.5	963.10 µg/L	963.10 ppb	20:48:02
2	Sb 206.836†	4077.2	4025.7	479.62 µg/L	479.62 ppb	20:48:02
2	Se 196.026†	1343.8	1338.2	486 µg/L	486 ppb	20:48:02
2	SiO2†	55264.2	53885.3	5246.2 µg/L	5246.2 ppb	20:47:42
2	Si 251.611†	166831.6	167191.9	2455.3 µg/L	2455.3 ppb	20:47:42
2	Sn 189.927†	7685.8	7742.0	484.27 µg/L	484.27 ppb	20:48:02
2	Ti 334.940†	517135.3	519893.0	485.10 µg/L	485.10 ppb	20:47:42
2	Tl 190.801†	3798.0	3941.9	491.62 µg/L	491.62 ppb	20:48:02
2	U 409.014†	7240.4	7562.3	471.53 µg/L	471.53 ppb	20:47:42
2	V 292.402†	98205.8	98506.6	486.93 µg/L	486.93 ppb	20:47:42
2	Zn 213.857†	85981.0	86033.4	479.49 µg/L	479.49 ppb	20:47:42
3	Sc RADIAL	143540.2	143540.2	98.4 %		20:47:14
3	Al 396.153Radial†	26297.7	26798.6	4945.9 µg/L	4945.9 ppb	20:47:14
3	Ca 317.933Radial†	87479.0	88374.7	4922.8 µg/L	4922.8 ppb	20:47:14
3	Fe 238.204 Radial†	77829.6	78977.1	4867.7 µg/L	4867.7 ppb	20:47:14
3	K 766.490 Radial†	14541.2	13238.5	4842.8 µg/L	4842.8 ppb	20:47:14
3	Mg 279.077 IEC†	13331.1	13362.3	4986.3 µg/L	4986.3 ppb	20:47:14
3	Na 589.592 Radial†	71517.8	71417.6	9752.2 µg/L	9752.2 ppb	20:47:14
3	Sr 421.552†	229529.4	233485.7	485.36 µg/L	485.36 ppb	20:47:12
3	Sc 361.383	1697774.9	1697774.9	98.810 %		20:48:05
3	Y 371.029	1005288.7	1005288.7	97.916 %		20:48:05
3	Ag 328.068†	132337.3	129839.4	486.83 µg/L	486.83 ppb	20:48:05
3	As 188.979†	1566.3	1605.5	492.60 µg/L	492.60 ppb	20:48:25
3	B 249.677†	35561.4	32483.7	477.39 µg/L	477.39 ppb	20:48:05
3	Ba 233.527†	118631.6	120195.8	484.75 µg/L	484.75 ppb	20:48:05
3	Be 313.107†	1768996.7	1791361.7	487.89 µg/L	487.89 ppb	20:48:05
3	Cd 226.502†	76298.6	77335.5	482.76 µg/L	482.76 ppb	20:48:05
3	Co 228.616†	38681.6	39337.6	485.62 µg/L	485.62 ppb	20:48:05
3	Cr 267.716†	61122.4	61679.8	482.95 µg/L	482.95 ppb	20:48:05
3	Cu 324.752†	125325.9	123862.7	482.85 µg/L	482.85 ppb	20:48:05
3	Mn 257.610†	389691.1	394146.1	487.47 µg/L	487.47 ppb	20:48:05
3	Mo 202.031†	16294.8	16511.0	485.68 µg/L	485.68 ppb	20:48:25
3	Ni 231.604†	41366.1	41940.7	482.92 µg/L	482.92 ppb	20:48:05
3	P 214.914†	11228.3	11381.4	2426.0 µg/L	2426.0 ppb	20:48:25
3	Pb 220.353†	8735.3	8754.1	490.22 µg/L	490.22 ppb	20:48:25
3	S 181.975 Axial†	1387.1	1298.7	968.51 µg/L	968.51 ppb	20:48:25
3	Sb 206.836†	4142.3	4111.4	489.88 µg/L	489.88 ppb	20:48:25
3	Se 196.026†	1325.9	1326.6	482 µg/L	482 ppb	20:48:25
3	SiO2†	55019.2	53906.4	5248.0 µg/L	5248.0 ppb	20:48:05
3	Si 251.611†	166054.7	167217.6	2455.6 µg/L	2455.6 ppb	20:48:05
3	Sn 189.927†	7713.9	7807.9	488.38 µg/L	488.38 ppb	20:48:25
3	Ti 334.940†	515323.4	520575.8	485.74 µg/L	485.74 ppb	20:48:05
3	Tl 190.801†	3789.8	3952.1	492.88 µg/L	492.88 ppb	20:48:25
3	U 409.014†	7240.2	7597.3	473.61 µg/L	473.61 ppb	20:48:05
3	V 292.402†	97793.8	98567.5	487.28 µg/L	487.28 ppb	20:48:05
3	Zn 213.857†	85880.1	86349.8	481.27 µg/L	481.27 ppb	20:48:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707246.6	99.361 %	0.5916			0.60%
Sc RADIAL	142733.8	97.8 %	0.53			0.54%
Y 371.029	1010804.8	98.453 %	0.5717			0.58%
Ag 328.068†	129638.4	486.09 µg/L	1.137	486.09 ppb	1.137	0.23%
QC value within limits for Ag 328.068 Recovery = 97.22%						
Al 396.153Radial†	26781.2	4942.8 µg/L	12.14	4942.8 ppb	12.14	0.25%
QC value within limits for Al 396.153Radial Recovery = 98.86%						
As 188.979†	1600.0	490.91 µg/L	2.283	490.91 ppb	2.283	0.47%
QC value within limits for As 188.979 Recovery = 98.18%						
B 249.677†	32433.4	476.65 µg/L	0.713	476.65 ppb	0.713	0.15%
QC value within limits for B 249.677 Recovery = 95.33%						
Ba 233.527†	120162.7	484.61 µg/L	0.401	484.61 ppb	0.401	0.08%
QC value within limits for Ba 233.527 Recovery = 96.92%						
Be 313.107†	1788841.3	487.20 µg/L	0.798	487.20 ppb	0.798	0.16%
QC value within limits for Be 313.107 Recovery = 97.44%						
Ca 317.933Radial†	88306.1	4919.0 µg/L	3.70	4919.0 ppb	3.70	0.08%
QC value within limits for Ca 317.933Radial Recovery = 98.38%						
Cd 226.502†	77322.5	482.68 µg/L	0.070	482.68 ppb	0.070	0.01%
QC value within limits for Cd 226.502 Recovery = 96.54%						
Co 228.616†	39370.2	486.02 µg/L	0.909	486.02 ppb	0.909	0.19%

QC value within limits for Co 228.616 Recovery = 97.20%					
Cr 267.716†	61638.1	482.62 µg/L	0.509	482.62 ppb	0.509 0.11%
QC value within limits for Cr 267.716 Recovery = 96.52%					
Cu 324.752†	123821.0	482.69 µg/L	1.162	482.69 ppb	1.162 0.24%
QC value within limits for Cu 324.752 Recovery = 96.54%					
Fe 238.204 Radial†	78921.6	4864.2 µg/L	3.82	4864.2 ppb	3.82 0.08%
QC value within limits for Fe 238.204 Radial Recovery = 97.28%					
K 766.490 Radial†	13272.0	4855.1 µg/L	20.61	4855.1 ppb	20.61 0.42%
QC value within limits for K 766.490 Radial Recovery = 97.10%					
Mg 279.077 IEC†	13373.3	4990.3 µg/L	17.90	4990.3 ppb	17.90 0.36%
QC value within limits for Mg 279.077 IEC Recovery = 99.81%					
Mn 257.610†	393696.5	486.91 µg/L	0.783	486.91 ppb	0.783 0.16%
QC value within limits for Mn 257.610 Recovery = 97.38%					
Mo 202.031†	16404.6	482.56 µg/L	2.714	482.56 ppb	2.714 0.56%
QC value within limits for Mo 202.031 Recovery = 96.51%					
Na 589.592 Radial†	71399.2	9749.7 µg/L	10.02	9749.7 ppb	10.02 0.10%
QC value within limits for Na 589.592 Radial Recovery = 97.50%					
Ni 231.604†	42023.1	483.87 µg/L	0.961	483.87 ppb	0.961 0.20%
QC value within limits for Ni 231.604 Recovery = 96.77%					
P 214.914†	11271.3	2402.4 µg/L	21.48	2402.4 ppb	21.48 0.89%
QC value within limits for P 214.914 Recovery = 96.10%					
Pb 220.353†	8693.1	486.80 µg/L	3.313	486.80 ppb	3.313 0.68%
QC value within limits for Pb 220.353 Recovery = 97.36%					
S 181.975 Axial†	1290.0	961.98 µg/L	7.160	961.98 ppb	7.160 0.74%
QC value within limits for S 181.975 Axial Recovery = 96.20%					
Sb 206.836†	4059.4	483.66 µg/L	5.466	483.66 ppb	5.466 1.13%
QC value within limits for Sb 206.836 Recovery = 96.73%					
Se 196.026†	1326.6	482 µg/L	4.2	482 ppb	4.2 0.87%
QC value within limits for Se 196.026 Recovery = 96.34%					
SiO2†	53893.9	5247.0 µg/L	0.96	5247.0 ppb	0.96 0.02%
QC value within limits for SiO2 Recovery = 98.12%					
Si 251.611†	167357.0	2457.7 µg/L	3.93	2457.7 ppb	3.93 0.16%
QC value within limits for Si 251.611 Recovery = 98.31%					
Sn 189.927†	7748.9	484.70 µg/L	3.480	484.70 ppb	3.480 0.72%
QC value within limits for Sn 189.927 Recovery = 96.94%					
Sr 421.552†	235235.2	489.00 µg/L	4.060	489.00 ppb	4.060 0.83%
QC value within limits for Sr 421.552 Recovery = 97.80%					
Ti 334.940†	520369.1	485.54 µg/L	0.386	485.54 ppb	0.386 0.08%
QC value within limits for Ti 334.940 Recovery = 97.11%					
Tl 190.801†	3935.6	490.85 µg/L	2.502	490.85 ppb	2.502 0.51%
QC value within limits for Tl 190.801 Recovery = 98.17%					
U 409.014†	7633.7	475.73 µg/L	5.576	475.73 ppb	5.576 1.17%
QC value within limits for U 409.014 Recovery = 95.15%					
V 292.402†	98572.2	487.27 µg/L	0.331	487.27 ppb	0.331 0.07%
QC value within limits for V 292.402 Recovery = 97.45%					
Zn 213.857†	86225.9	480.57 µg/L	0.949	480.57 ppb	0.949 0.20%
QC value within limits for Zn 213.857 Recovery = 96.11%					

All analyte(s) passed QC.

Sequence No.: 39

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 20:48:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143100.4	143100.4	98.1 %		20:49:01
1	Al 396.153Radial†	-68.2	-6.4	-1.1706 µg/L	-1.1706 ppb	20:49:21
1	Ca 317.933Radial†	633.3	85.2	4.7476 µg/L	4.7476 ppb	20:49:21
1	Fe 238.204 Radial†	162.0	17.1	1.0551 µg/L	1.0551 ppb	20:49:21
1	K 766.490 Radial†	1505.7	-9.3	-3.4148 µg/L	-3.4148 ppb	20:49:01
1	Mg 279.077 IEC†	188.6	1.6	0.6053 µg/L	0.6053 ppb	20:49:21
1	Na 589.592 Radial†	1635.8	377.3	51.550 µg/L	51.550 ppb	20:49:01
1	Sr 421.552†	-135.1	-2.5	-0.0052 µg/L	-0.0052 ppb	20:49:01
1	Sc 361.383	1714287.6	1714287.6	99.771 %		20:50:09
1	Y 371.029	1025603.7	1025603.7	99.894 %		20:50:09
1	Ag 328.068†	3929.0	-153.4	-0.5739 µg/L	-0.5739 ppb	20:50:11
1	As 188.979†	-14.7	5.7	1.7126 µg/L	1.7126 ppb	20:50:31
1	B 249.677†	3483.3	-14.6	-0.2161 µg/L	-0.2161 ppb	20:50:31
1	Ba 233.527†	-124.6	11.0	0.0445 µg/L	0.0445 ppb	20:50:31
1	Be 313.107†	-819.1	243.7	0.0640 µg/L	0.0640 ppb	20:50:11
1	Cd 226.502†	-96.3	21.7	0.1352 µg/L	0.1352 ppb	20:50:31
1	Co 228.616†	-181.4	8.5	0.1049 µg/L	0.1049 ppb	20:50:31
1	Cr 267.716†	159.9	-18.3	-0.1371 µg/L	-0.1371 ppb	20:50:31
1	Cu 324.752†	2837.6	-128.1	-0.5041 µg/L	-0.5041 ppb	20:50:11
1	Mn 257.610†	255.9	19.2	0.0238 µg/L	0.0238 ppb	20:50:31
1	Mo 202.031†	-30.3	-10.3	-0.3020 µg/L	-0.3020 ppb	20:50:31
1	Ni 231.604†	-89.5	-13.2	-0.1520 µg/L	-0.1520 ppb	20:50:31
1	P 214.914†	-14.0	3.9	0.8495 µg/L	0.8495 ppb	20:50:31
1	Pb 220.353†	127.8	41.7	2.3324 µg/L	2.3324 ppb	20:50:31
1	S 181.975 Axial†	105.4	0.6	0.4193 µg/L	0.4193 ppb	20:50:31
1	Sb 206.836†	61.7	-18.9	-2.2534 µg/L	-2.2534 ppb	20:50:31
1	Se 196.026†	16.8	1.6	0.564 µg/L	0.564 ppb	20:50:31
1	SiO2†	1750.1	-21.3	-2.0737 µg/L	-2.0737 ppb	20:50:31
1	Si 251.611†	904.3	69.8	1.0310 µg/L	1.0310 ppb	20:50:11
1	Sn 189.927†	3.7	4.9	0.3040 µg/L	0.3040 ppb	20:50:31
1	Ti 334.940†	1043.2	93.0	0.0902 µg/L	0.0902 ppb	20:50:11
1	Tl 190.801†	-125.6	-9.3	-1.1347 µg/L	-1.1347 ppb	20:50:31
1	U 409.014†	-400.9	-131.9	-7.6954 µg/L	-7.6954 ppb	20:50:11
1	V 292.402†	469.6	66.9	0.3171 µg/L	0.3171 ppb	20:50:11
1	Zn 213.857†	595.1	32.0	0.1811 µg/L	0.1811 ppb	20:50:31
2	Sc RADIAL	142884.5	142884.5	97.9 %		20:49:23
2	Al 396.153Radial†	-69.1	-7.4	-1.3818 µg/L	-1.3818 ppb	20:49:43
2	Ca 317.933Radial†	615.2	67.8	3.7747 µg/L	3.7747 ppb	20:49:43
2	Fe 238.204 Radial†	156.5	11.7	0.7231 µg/L	0.7231 ppb	20:49:43
2	K 766.490 Radial†	1609.8	99.3	36.354 µg/L	36.354 ppb	20:49:23
2	Mg 279.077 IEC†	180.2	-6.7	-2.4821 µg/L	-2.4821 ppb	20:49:43
2	Na 589.592 Radial†	1524.3	266.0	36.311 µg/L	36.311 ppb	20:49:23
2	Sr 421.552†	-167.8	-36.0	-0.0750 µg/L	-0.0750 ppb	20:49:23
2	Sc 361.383	1705708.0	1705708.0	99.272 %		20:50:33
2	Y 371.029	1021576.7	1021576.7	99.502 %		20:50:33
2	Ag 328.068†	3789.2	-274.4	-1.0230 µg/L	-1.0230 ppb	20:50:35
2	As 188.979†	-3.7	16.6	5.0206 µg/L	5.0206 ppb	20:50:56
2	B 249.677†	3504.5	24.3	0.3589 µg/L	0.3589 ppb	20:50:56
2	Ba 233.527†	-135.1	-0.3	-0.0007 µg/L	-0.0007 ppb	20:50:56
2	Be 313.107†	-1027.1	30.1	0.0056 µg/L	0.0056 ppb	20:50:35
2	Cd 226.502†	-117.9	-0.5	-0.0035 µg/L	-0.0035 ppb	20:50:56
2	Co 228.616†	-184.4	4.6	0.0565 µg/L	0.0565 ppb	20:50:56
2	Cr 267.716†	197.3	20.1	0.1648 µg/L	0.1648 ppb	20:50:56
2	Cu 324.752†	2986.4	36.0	0.1330 µg/L	0.1330 ppb	20:50:35
2	Mn 257.610†	208.3	-27.5	-0.0339 µg/L	-0.0339 ppb	20:50:56
2	Mo 202.031†	-10.1	9.9	0.2925 µg/L	0.2925 ppb	20:50:56
2	Ni 231.604†	-71.6	4.4	0.0504 µg/L	0.0504 ppb	20:50:56
2	P 214.914†	-25.7	-7.9	-1.7048 µg/L	-1.7048 ppb	20:50:56
2	Pb 220.353†	88.5	2.8	0.1610 µg/L	0.1610 ppb	20:50:56

2	S 181.975 Axial†	98.5	-5.8	-4.3120 µg/L	-4.3120 ppb	20:50:56
2	Sb 206.836†	86.1	5.9	0.7055 µg/L	0.7055 ppb	20:50:56
2	Se 196.026†	6.1	-9.2	-3.32 µg/L	-3.32 ppb	20:50:56
2	SiO2†	1800.3	38.1	3.7206 µg/L	3.7206 ppb	20:50:56
2	Si 251.611†	941.5	111.8	1.6453 µg/L	1.6453 ppb	20:50:35
2	Sn 189.927†	-2.9	-1.8	-0.1151 µg/L	-0.1151 ppb	20:50:56
2	Ti 334.940†	825.1	-121.4	-0.1096 µg/L	-0.1096 ppb	20:50:35
2	Tl 190.801†	-103.9	12.0	1.4793 µg/L	1.4793 ppb	20:50:56
2	U 409.014†	-414.7	-147.9	-8.6275 µg/L	-8.6275 ppb	20:50:35
2	V 292.402†	468.7	68.3	0.3311 µg/L	0.3311 ppb	20:50:35
2	Zn 213.857†	586.6	26.4	0.1479 µg/L	0.1479 ppb	20:50:56
3	Sc RADIAL	143556.4	143556.4	98.4 %		20:49:45
3	Al 396.153Radial†	-49.6	12.8	2.3684 µg/L	2.3684 ppb	20:50:05
3	Ca 317.933Radial†	619.9	69.5	3.8728 µg/L	3.8728 ppb	20:50:05
3	Fe 238.204 Radial†	160.9	15.5	0.9527 µg/L	0.9527 ppb	20:50:05
3	K 766.490 Radial†	1716.2	199.8	73.139 µg/L	73.139 ppb	20:49:45
3	Mg 279.077 IEC†	179.3	-8.5	-3.1618 µg/L	-3.1618 ppb	20:50:05
3	Na 589.592 Radial†	1571.2	306.3	41.786 µg/L	41.786 ppb	20:49:45
3	Sr 421.552†	-111.1	22.4	0.0465 µg/L	0.0465 ppb	20:49:45
3	Sc 361.383	1721625.0	1721625.0	100.20 %		20:50:58
3	Y 371.029	1030085.4	1030085.4	100.33 %		20:50:58
3	Ag 328.068†	3859.6	-239.4	-0.8861 µg/L	-0.8861 ppb	20:51:00
3	As 188.979†	-27.5	-7.1	-2.1453 µg/L	-2.1453 ppb	20:51:20
3	B 249.677†	3491.5	-21.3	-0.3158 µg/L	-0.3158 ppb	20:51:20
3	Ba 233.527†	-142.3	-6.2	-0.0248 µg/L	-0.0248 ppb	20:51:20
3	Be 313.107†	-950.3	116.3	0.0315 µg/L	0.0315 ppb	20:51:00
3	Cd 226.502†	-122.0	-3.6	-0.0224 µg/L	-0.0224 ppb	20:51:20
3	Co 228.616†	-167.0	23.7	0.2921 µg/L	0.2921 ppb	20:51:20
3	Cr 267.716†	146.9	-32.0	-0.2498 µg/L	-0.2498 ppb	20:51:20
3	Cu 324.752†	3019.8	41.6	0.1616 µg/L	0.1616 ppb	20:51:00
3	Mn 257.610†	238.8	1.0	0.0014 µg/L	0.0014 ppb	20:51:20
3	Mo 202.031†	-20.4	-0.3	-0.0095 µg/L	-0.0095 ppb	20:51:20
3	Ni 231.604†	-92.9	-16.2	-0.1861 µg/L	-0.1861 ppb	20:51:20
3	P 214.914†	-16.8	1.2	0.2638 µg/L	0.2638 ppb	20:51:20
3	Pb 220.353†	96.5	9.9	0.5545 µg/L	0.5545 ppb	20:51:20
3	S 181.975 Axial†	97.9	-7.4	-5.4692 µg/L	-5.4692 ppb	20:51:20
3	Sb 206.836†	70.1	-10.9	-1.2853 µg/L	-1.2853 ppb	20:51:20
3	Se 196.026†	24.0	8.7	3.13 µg/L	3.13 ppb	20:51:20
3	SiO2†	1761.3	-17.6	-1.7243 µg/L	-1.7243 ppb	20:51:20
3	Si 251.611†	890.7	52.3	0.7682 µg/L	0.7682 ppb	20:51:00
3	Sn 189.927†	7.5	8.6	0.5361 µg/L	0.5361 ppb	20:51:20
3	Ti 334.940†	901.9	-52.4	-0.0483 µg/L	-0.0483 ppb	20:51:00
3	Tl 190.801†	-111.0	5.9	0.7212 µg/L	0.7212 ppb	20:51:20
3	U 409.014†	-279.5	-9.1	-0.5238 µg/L	-0.5238 ppb	20:51:00
3	V 292.402†	424.3	19.7	0.0944 µg/L	0.0944 ppb	20:51:00
3	Zn 213.857†	577.4	11.9	0.0677 µg/L	0.0677 ppb	20:51:20

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1713873.5	99.747 %	0.4637			0.46%
Sc RADIAL	143180.4	98.1 %	0.24			0.24%
Y 371.029	1025755.3	99.909 %	0.4146			0.41%
Ag 328.068†	-222.4	-0.8276 µg/L	0.23017	-0.8276 ppb	0.23017	27.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.3	-0.0614 µg/L	2.10685	-0.0614 ppb	2.10685	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.1	1.5293 µg/L	3.58647	1.5293 ppb	3.58647	234.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-3.9	-0.0576 µg/L	0.36418	-0.0576 ppb	0.36418	631.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.5	0.0063 µg/L	0.03518	0.0063 ppb	0.03518	557.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	130.0	0.0337 µg/L	0.02929	0.0337 ppb	0.02929	86.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	74.2	4.1317 µg/L	0.53563	4.1317 ppb	0.53563	12.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.9	0.0364 µg/L	0.08602	0.0364 ppb	0.08602	236.18%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.3	0.1512 µg/L	0.12445	0.1512 ppb	0.12445	82.31%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-10.0 -0.0740 µg/L	0.21436 -0.0740 ppb	0.21436 289.62%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-16.8 -0.0698 µg/L	0.37636 -0.0698 ppb	0.37636 538.93%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	14.8 0.9103 µg/L	0.16999 0.9103 ppb	0.16999 18.67%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	96.6 35.359 µg/L	38.2865 35.359 ppb	38.2865 108.28%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-4.5 -1.6795 µg/L	2.00766 -1.6795 ppb	2.00766 119.54%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-2.4 -0.0029 µg/L	0.02906 -0.0029 ppb	0.02906 >999.9%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-0.2 -0.0064 µg/L	0.29725 -0.0064 ppb	0.29725 >999.9%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	316.6 43.216 µg/L	7.7194 43.216 ppb	7.7194 17.86%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-8.3 -0.0959 µg/L	0.12783 -0.0959 ppb	0.12783 133.28%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-0.9 -0.1972 µg/L	1.33806 -0.1972 ppb	1.33806 678.62%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	18.1 1.0159 µg/L	1.15693 1.0159 ppb	1.15693 113.88%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-4.2 -3.1206 µg/L	3.11977 -3.1206 ppb	3.11977 99.97%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-8.0 -0.9444 µg/L	1.50862 -0.9444 ppb	1.50862 159.74%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.4 0.124 µg/L	3.2508 0.124 ppb	3.2508 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-0.2 -0.0258 µg/L	3.24918 -0.0258 ppb	3.24918 >999.9%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	78.0 1.1482 µg/L	0.45012 1.1482 ppb	0.45012 39.20%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	3.9 0.2417 µg/L	0.33003 0.2417 ppb	0.33003 136.56%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.4 -0.0112 µg/L	0.06093 -0.0112 ppb	0.06093 542.16%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-26.9 -0.0226 µg/L	0.10236 -0.0226 ppb	0.10236 453.52%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.9 0.3552 µg/L	1.34488 0.3552 ppb	1.34488 378.59%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-96.3 -5.6156 µg/L	4.43418 -5.6156 ppb	4.43418 78.96%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	51.6 0.2475 µg/L	0.13284 0.2475 ppb	0.13284 53.67%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	23.4 0.1323 µg/L	0.05829 0.1323 ppb	0.05829 44.08%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 50

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 21:16:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	140518.4	140518.4	96.3 %		21:16:42
1	Al 396.153Radial†	25783.9	26840.0	4953.4 µg/L	4953.4 ppb	21:16:42
1	Ca 317.933Radial†	85524.3	88257.2	4916.3 µg/L	4916.3 ppb	21:16:42
1	Fe 238.204 Radial†	76323.1	79114.2	4876.1 µg/L	4876.1 ppb	21:16:42
1	K 766.490 Radial†	14404.9	13414.9	4907.4 µg/L	4907.4 ppb	21:16:42
1	Mg 279.077 IEC†	13081.5	13394.6	4998.4 µg/L	4998.4 ppb	21:16:42
1	Na 589.592 Radial†	70242.3	71656.5	9784.8 µg/L	9784.8 ppb	21:16:42
1	Sr 421.552†	226316.6	235167.3	488.86 µg/L	488.86 ppb	21:16:40
1	Sc 361.383	1669103.9	1669103.9	97.142 %		21:16:55
1	Y 371.029	989417.5	989417.5	96.370 %		21:16:55
1	Ag 328.068†	129569.0	129290.2	484.77 µg/L	484.77 ppb	21:16:55
1	As 188.979†	1551.4	1617.4	496.19 µg/L	496.19 ppb	21:17:15
1	B 249.677†	34680.4	32195.0	473.14 µg/L	473.14 ppb	21:16:55
1	Ba 233.527†	116237.8	119794.0	483.13 µg/L	483.13 ppb	21:16:55
1	Be 313.107†	1725182.2	1777010.7	483.98 µg/L	483.98 ppb	21:16:55
1	Cd 226.502†	74430.6	76738.9	479.03 µg/L	479.03 ppb	21:16:55
1	Co 228.616†	37838.5	39142.2	483.21 µg/L	483.21 ppb	21:16:55
1	Cr 267.716†	59798.9	61379.9	480.59 µg/L	480.59 ppb	21:16:55
1	Cu 324.752†	122989.1	123635.9	481.97 µg/L	481.97 ppb	21:16:55
1	Mn 257.610†	381507.5	392496.1	485.42 µg/L	485.42 ppb	21:16:55
1	Mo 202.031†	16149.2	16644.5	489.61 µg/L	489.61 ppb	21:17:15
1	Ni 231.604†	40427.6	41693.7	480.07 µg/L	480.07 ppb	21:16:55
1	P 214.914†	11040.4	11383.2	2426.3 µg/L	2426.3 ppb	21:17:15
1	Pb 220.353†	8616.0	8783.1	491.85 µg/L	491.85 ppb	21:17:15
1	S 181.975 Axial†	1370.2	1305.5	973.53 µg/L	973.53 ppb	21:17:15
1	Sb 206.836†	4075.4	4114.5	490.34 µg/L	490.34 ppb	21:17:15
1	Se 196.026†	1325.8	1349.6	490 µg/L	490 ppb	21:17:15
1	SiO2†	53789.9	53597.3	5217.7 µg/L	5217.7 ppb	21:16:55
1	Si 251.611†	162739.1	166691.2	2447.8 µg/L	2447.8 ppb	21:16:55
1	Sn 189.927†	7604.8	7829.7	489.73 µg/L	489.73 ppb	21:17:15
1	Ti 334.940†	504929.9	518835.1	484.11 µg/L	484.11 ppb	21:16:55
1	Tl 190.801†	3752.3	3979.4	496.21 µg/L	496.21 ppb	21:17:15
1	U 409.014†	7197.9	7679.6	478.26 µg/L	478.26 ppb	21:16:55
1	V 292.402†	95634.0	98044.3	484.76 µg/L	484.76 ppb	21:16:55
1	Zn 213.857†	83598.9	85494.4	476.49 µg/L	476.49 ppb	21:16:55
2	Sc RADIAL	141583.7	141583.7	97.0 %		21:16:47
2	Al 396.153Radial†	25881.7	26739.3	4934.9 µg/L	4934.9 ppb	21:16:47
2	Ca 317.933Radial†	85790.3	87863.1	4894.3 µg/L	4894.3 ppb	21:16:47
2	Fe 238.204 Radial†	76348.3	78543.7	4841.0 µg/L	4841.0 ppb	21:16:47
2	K 766.490 Radial†	14349.6	13245.3	4845.3 µg/L	4845.3 ppb	21:16:47
2	Mg 279.077 IEC†	13161.7	13375.0	4991.0 µg/L	4991.0 ppb	21:16:47
2	Na 589.592 Radial†	70371.9	71241.2	9728.1 µg/L	9728.1 ppb	21:16:47
2	Sr 421.552†	225549.9	232608.6	483.54 µg/L	483.54 ppb	21:16:44
2	Sc 361.383	1700896.9	1700896.9	98.992 %		21:17:18
2	Y 371.029	1006820.6	1006820.6	98.065 %		21:17:18
2	Ag 328.068†	132249.7	129505.0	485.59 µg/L	485.59 ppb	21:17:18
2	As 188.979†	1564.2	1600.5	491.07 µg/L	491.07 ppb	21:17:38
2	B 249.677†	35612.0	32468.8	477.17 µg/L	477.17 ppb	21:17:18
2	Ba 233.527†	119305.1	120655.9	486.60 µg/L	486.60 ppb	21:17:18
2	Be 313.107†	1771257.8	1790359.7	487.62 µg/L	487.62 ppb	21:17:18
2	Cd 226.502†	76605.7	77504.0	483.82 µg/L	483.82 ppb	21:17:18
2	Co 228.616†	38857.8	39443.8	486.94 µg/L	486.94 ppb	21:17:18
2	Cr 267.716†	61346.5	61792.6	483.83 µg/L	483.83 ppb	21:17:18
2	Cu 324.752†	126079.4	124391.1	484.90 µg/L	484.90 ppb	21:17:18
2	Mn 257.610†	390683.2	394424.4	487.81 µg/L	487.81 ppb	21:17:18
2	Mo 202.031†	16315.1	16501.3	485.39 µg/L	485.39 ppb	21:17:38
2	Ni 231.604†	41564.0	42063.8	484.33 µg/L	484.33 ppb	21:17:18
2	P 214.914†	11170.5	11302.2	2409.0 µg/L	2409.0 ppb	21:17:38
2	Pb 220.353†	8716.3	8718.6	488.24 µg/L	488.24 ppb	21:17:38

2	S 181.975 Axial†	1376.8	1285.7	958.84 µg/L	958.84 ppb	21:17:38
2	Sb 206.836†	4095.5	4056.4	483.32 µg/L	483.32 ppb	21:17:38
2	Se 196.026†	1341.9	1340.3	487 µg/L	487 ppb	21:17:38
2	SiO2†	55368.1	54156.5	5272.5 µg/L	5272.5 ppb	21:17:18
2	Si 251.611†	166631.9	167492.1	2459.6 µg/L	2459.6 ppb	21:17:18
2	Sn 189.927†	7705.9	7785.5	486.98 µg/L	486.98 ppb	21:17:38
2	Ti 334.940†	516370.1	520675.9	485.83 µg/L	485.83 ppb	21:17:18
2	Tl 190.801†	3799.4	3954.7	493.19 µg/L	493.19 ppb	21:17:38
2	U 409.014†	7223.0	7566.5	471.79 µg/L	471.79 ppb	21:17:18
2	V 292.402†	97908.7	98501.9	486.96 µg/L	486.96 ppb	21:17:18
2	Zn 213.857†	86115.5	86428.0	481.70 µg/L	481.70 ppb	21:17:18
3	Sc RADIAL	140610.0	140610.0	96.4 %		21:16:51
3	Al 396.153Radial†	25934.1	26978.5	4979.2 µg/L	4979.2 ppb	21:16:51
3	Ca 317.933Radial†	85400.8	88071.2	4905.9 µg/L	4905.9 ppb	21:16:51
3	Fe 238.204 Radial†	76011.3	78739.0	4853.0 µg/L	4853.0 ppb	21:16:51
3	K 766.490 Radial†	14473.0	13475.8	4929.7 µg/L	4929.7 ppb	21:16:51
3	Mg 279.077 IEC†	13077.3	13381.4	4993.4 µg/L	4993.4 ppb	21:16:51
3	Na 589.592 Radial†	70342.7	71713.3	9792.5 µg/L	9792.5 ppb	21:16:51
3	Sr 421.552†	223908.2	232514.8	483.35 µg/L	483.35 ppb	21:16:49
3	Sc 361.383	1690270.1	1690270.1	98.373 %		21:17:42
3	Y 371.029	1001275.7	1001275.7	97.525 %		21:17:42
3	Ag 328.068†	131972.5	130063.1	487.66 µg/L	487.66 ppb	21:17:42
3	As 188.979†	1560.3	1606.5	492.89 µg/L	492.89 ppb	21:18:02
3	B 249.677†	35493.5	32574.4	478.72 µg/L	478.72 ppb	21:17:42
3	Ba 233.527†	118281.0	120372.5	485.46 µg/L	485.46 ppb	21:17:42
3	Be 313.107†	1758207.7	1788343.2	487.07 µg/L	487.07 ppb	21:17:42
3	Cd 226.502†	76039.5	77415.0	483.26 µg/L	483.26 ppb	21:17:42
3	Co 228.616†	38697.3	39527.5	487.97 µg/L	487.97 ppb	21:17:42
3	Cr 267.716†	61022.9	61853.3	484.31 µg/L	484.31 ppb	21:17:42
3	Cu 324.752†	124975.7	124069.9	483.65 µg/L	483.65 ppb	21:17:42
3	Mn 257.610†	388217.6	394399.3	487.78 µg/L	487.78 ppb	21:17:42
3	Mo 202.031†	16264.5	16553.5	486.93 µg/L	486.93 ppb	21:18:02
3	Ni 231.604†	41303.6	42063.1	484.33 µg/L	484.33 ppb	21:17:42
3	P 214.914†	11171.7	11374.3	2424.5 µg/L	2424.5 ppb	21:18:02
3	Pb 220.353†	8697.8	8755.2	490.29 µg/L	490.29 ppb	21:18:02
3	S 181.975 Axial†	1394.3	1312.3	978.61 µg/L	978.61 ppb	21:18:02
3	Sb 206.836†	4104.7	4091.7	487.54 µg/L	487.54 ppb	21:18:02
3	Se 196.026†	1335.6	1342.4	487 µg/L	487 ppb	21:18:02
3	SiO2†	54853.9	53985.5	5255.7 µg/L	5255.7 ppb	21:17:42
3	Si 251.611†	165452.6	167351.7	2457.5 µg/L	2457.5 ppb	21:17:42
3	Sn 189.927†	7688.5	7816.7	488.93 µg/L	488.93 ppb	21:18:02
3	Ti 334.940†	512939.3	520467.8	485.64 µg/L	485.64 ppb	21:17:42
3	Tl 190.801†	3797.1	3976.5	495.87 µg/L	495.87 ppb	21:18:02
3	U 409.014†	7116.8	7504.3	468.21 µg/L	468.21 ppb	21:17:42
3	V 292.402†	97506.3	98714.7	488.01 µg/L	488.01 ppb	21:17:42
3	Zn 213.857†	85518.8	86368.4	481.37 µg/L	481.37 ppb	21:17:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1686757.0	98.169 %	0.9420			0.96%
Sc RADIAL	140904.0	96.6 %	0.40			0.42%
Y 371.029	999171.3	97.320 %	0.8659			0.89%
Ag 328.068†	129619.5	486.01 µg/L	1.489	486.01 ppb	1.489	0.31%
QC value within limits for Ag 328.068 Recovery = 97.20%						
Al 396.153Radial†	26852.6	4955.8 µg/L	22.23	4955.8 ppb	22.23	0.45%
QC value within limits for Al 396.153Radial Recovery = 99.12%						
As 188.979†	1608.1	493.38 µg/L	2.596	493.38 ppb	2.596	0.53%
QC value within limits for As 188.979 Recovery = 98.68%						
B 249.677†	32412.8	476.35 µg/L	2.879	476.35 ppb	2.879	0.60%
QC value within limits for B 249.677 Recovery = 95.27%						
Ba 233.527†	120274.1	485.06 µg/L	1.771	485.06 ppb	1.771	0.37%
QC value within limits for Ba 233.527 Recovery = 97.01%						
Be 313.107†	1785237.9	486.22 µg/L	1.958	486.22 ppb	1.958	0.40%
QC value within limits for Be 313.107 Recovery = 97.24%						
Ca 317.933Radial†	88063.9	4905.5 µg/L	10.98	4905.5 ppb	10.98	0.22%
QC value within limits for Ca 317.933Radial Recovery = 98.11%						
Cd 226.502†	77219.3	482.04 µg/L	2.617	482.04 ppb	2.617	0.54%
QC value within limits for Cd 226.502 Recovery = 96.41%						
Co 228.616†	39371.2	486.04 µg/L	2.502	486.04 ppb	2.502	0.51%

QC value within limits for Co 228.616 Recovery = 97.21%

Cr 267.716† 61675.3 482.91 µg/L 2.021 482.91 ppb 2.021 0.42%

QC value within limits for Cr 267.716 Recovery = 96.58%

Cu 324.752† 124032.3 483.51 µg/L 1.468 483.51 ppb 1.468 0.30%

QC value within limits for Cu 324.752 Recovery = 96.70%

Fe 238.204 Radial† 78799.0 4856.7 µg/L 17.87 4856.7 ppb 17.87 0.37%

QC value within limits for Fe 238.204 Radial Recovery = 97.13%

K 766.490 Radial† 13378.7 4894.1 µg/L 43.71 4894.1 ppb 43.71 0.89%

QC value within limits for K 766.490 Radial Recovery = 97.88%

Mg 279.077 IEC† 13383.7 4994.3 µg/L 3.76 4994.3 ppb 3.76 0.08%

QC value within limits for Mg 279.077 IEC Recovery = 99.89%

Mn 257.610† 393773.3 487.00 µg/L 1.369 487.00 ppb 1.369 0.28%

QC value within limits for Mn 257.610 Recovery = 97.40%

Mo 202.031† 16566.4 487.31 µg/L 2.131 487.31 ppb 2.131 0.44%

QC value within limits for Mo 202.031 Recovery = 97.46%

Na 589.592 Radial† 71537.0 9768.5 µg/L 35.17 9768.5 ppb 35.17 0.36%

QC value within limits for Na 589.592 Radial Recovery = 97.68%

Ni 231.604† 41940.2 482.91 µg/L 2.458 482.91 ppb 2.458 0.51%

QC value within limits for Ni 231.604 Recovery = 96.58%

P 214.914† 11353.2 2419.9 µg/L 9.51 2419.9 ppb 9.51 0.39%

QC value within limits for P 214.914 Recovery = 96.80%

Pb 220.353† 8752.3 490.13 µg/L 1.809 490.13 ppb 1.809 0.37%

QC value within limits for Pb 220.353 Recovery = 98.03%

S 181.975 Axial† 1301.2 970.33 µg/L 10.267 970.33 ppb 10.267 1.06%

QC value within limits for S 181.975 Axial Recovery = 97.03%

Sb 206.836† 4087.6 487.07 µg/L 3.532 487.07 ppb 3.532 0.73%

QC value within limits for Sb 206.836 Recovery = 97.41%

Se 196.026† 1344.1 488 µg/L 1.8 488 ppb 1.8 0.36%

QC value within limits for Se 196.026 Recovery = 97.61%

SiO2† 53913.1 5248.7 µg/L 28.09 5248.7 ppb 28.09 0.54%

QC value within limits for SiO2 Recovery = 98.15%

Si 251.611† 167178.3 2455.0 µg/L 6.34 2455.0 ppb 6.34 0.26%

QC value within limits for Si 251.611 Recovery = 98.20%

Sn 189.927† 7810.6 488.55 µg/L 1.414 488.55 ppb 1.414 0.29%

QC value within limits for Sn 189.927 Recovery = 97.71%

Sr 421.552† 233430.2 485.25 µg/L 3.129 485.25 ppb 3.129 0.64%

QC value within limits for Sr 421.552 Recovery = 97.05%

Ti 334.940† 519992.9 485.19 µg/L 0.943 485.19 ppb 0.943 0.19%

QC value within limits for Ti 334.940 Recovery = 97.04%

Tl 190.801† 3970.2 495.09 µg/L 1.653 495.09 ppb 1.653 0.33%

QC value within limits for Tl 190.801 Recovery = 99.02%

U 409.014† 7583.5 472.76 µg/L 5.091 472.76 ppb 5.091 1.08%

QC value within limits for U 409.014 Recovery = 94.55%

V 292.402† 98420.3 486.58 µg/L 1.660 486.58 ppb 1.660 0.34%

QC value within limits for V 292.402 Recovery = 97.32%

Zn 213.857† 86097.0 479.85 µg/L 2.921 479.85 ppb 2.921 0.61%

QC value within limits for Zn 213.857 Recovery = 95.97%

All analyte(s) passed QC.

Sequence No.: 51

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 21:18:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142340.5	142340.5	97.5 %		21:18:39
1	Al 396.153Radial†	-77.4	-16.2	-2.9808 µg/L	-2.9808 ppb	21:18:59
1	Ca 317.933Radial†	613.3	68.2	3.7996 µg/L	3.7996 ppb	21:18:59
1	Fe 238.204 Radial†	174.0	30.3	1.8673 µg/L	1.8673 ppb	21:18:59
1	K 766.490 Radial†	1617.0	113.0	41.366 µg/L	41.366 ppb	21:18:39
1	Mg 279.077 IEC†	173.7	-12.6	-4.7201 µg/L	-4.7201 ppb	21:18:59
1	Na 589.592 Radial†	1689.2	441.0	60.210 µg/L	60.210 ppb	21:18:39
1	Sr 421.552†	-87.4	45.7	0.0949 µg/L	0.0949 ppb	21:18:39
1	Sc 361.383	1691761.1	1691761.1	98.460 %		21:19:47
1	Y 371.029	1013835.9	1013835.9	98.748 %		21:19:47
1	Ag 328.068†	3999.1	-29.8	-0.1074 µg/L	-0.1074 ppb	21:19:49
1	As 188.979†	-10.2	10.0	3.0117 µg/L	3.0117 ppb	21:20:09
1	B 249.677†	3413.6	-39.0	-0.5756 µg/L	-0.5756 ppb	21:19:49
1	Ba 233.527†	-138.5	-4.8	-0.0197 µg/L	-0.0197 ppb	21:20:09
1	Be 313.107†	-974.4	75.0	0.0212 µg/L	0.0212 ppb	21:19:49
1	Cd 226.502†	-119.6	-3.3	-0.0208 µg/L	-0.0208 ppb	21:20:09
1	Co 228.616†	-162.5	25.3	0.3117 µg/L	0.3117 ppb	21:20:09
1	Cr 267.716†	206.6	31.2	0.2430 µg/L	0.2430 ppb	21:20:09
1	Cu 324.752†	2962.7	36.8	0.1452 µg/L	0.1452 ppb	21:19:49
1	Mn 257.610†	261.8	28.6	0.0356 µg/L	0.0356 ppb	21:20:09
1	Mo 202.031†	-32.6	-13.1	-0.3839 µg/L	-0.3839 ppb	21:20:09
1	Ni 231.604†	-104.8	-29.9	-0.3447 µg/L	-0.3447 ppb	21:20:09
1	P 214.914†	-11.4	6.4	1.3624 µg/L	1.3624 ppb	21:20:09
1	Pb 220.353†	75.5	-9.7	-0.5434 µg/L	-0.5434 ppb	21:20:09
1	S 181.975 Axial†	111.4	8.1	5.9955 µg/L	5.9955 ppb	21:20:09
1	Sb 206.836†	80.6	1.0	0.1122 µg/L	0.1122 ppb	21:20:09
1	Se 196.026†	3.3	-12.0	-4.33 µg/L	-4.33 ppb	21:20:09
1	SiO2†	1809.6	62.5	6.1130 µg/L	6.1130 ppb	21:20:09
1	Si 251.611†	946.2	124.4	1.8365 µg/L	1.8365 ppb	21:19:49
1	Sn 189.927†	4.9	6.1	0.3820 µg/L	0.3820 ppb	21:20:09
1	Ti 334.940†	770.9	-169.6	-0.1590 µg/L	-0.1590 ppb	21:19:49
1	Tl 190.801†	-120.5	-5.8	-0.7102 µg/L	-0.7102 ppb	21:20:09
1	U 409.014†	-225.3	41.0	2.4000 µg/L	2.4000 ppb	21:19:49
1	V 292.402†	398.1	0.6	0.0014 µg/L	0.0014 ppb	21:19:49
1	Zn 213.857†	596.3	41.2	0.2333 µg/L	0.2333 ppb	21:20:09
2	Sc RADIAL	140388.8	140388.8	96.2 %		21:19:01
2	Al 396.153Radial†	-40.1	21.6	4.0106 µg/L	4.0106 ppb	21:19:21
2	Ca 317.933Radial†	583.2	45.7	2.5430 µg/L	2.5430 ppb	21:19:21
2	Fe 238.204 Radial†	163.9	22.3	1.3738 µg/L	1.3738 ppb	21:19:21
2	K 766.490 Radial†	1756.0	280.5	102.70 µg/L	102.70 ppb	21:19:01
2	Mg 279.077 IEC†	185.4	2.0	0.7420 µg/L	0.7420 ppb	21:19:21
2	Na 589.592 Radial†	1757.4	535.9	73.122 µg/L	73.122 ppb	21:19:01
2	Sr 421.552†	-150.8	-21.5	-0.0447 µg/L	-0.0447 ppb	21:19:01
2	Sc 361.383	1725840.2	1725840.2	100.44 %		21:20:11
2	Y 371.029	1031661.1	1031661.1	100.48 %		21:20:11
2	Ag 328.068†	4128.5	18.9	0.0653 µg/L	0.0653 ppb	21:20:13
2	As 188.979†	-6.9	13.5	4.0841 µg/L	4.0841 ppb	21:20:34
2	B 249.677†	3476.1	-45.2	-0.6676 µg/L	-0.6676 ppb	21:20:13
2	Ba 233.527†	-122.5	13.9	0.0557 µg/L	0.0557 ppb	21:20:34
2	Be 313.107†	-1003.4	65.7	0.0171 µg/L	0.0171 ppb	21:20:13
2	Cd 226.502†	-100.9	17.7	0.1106 µg/L	0.1106 ppb	21:20:34
2	Co 228.616†	-165.4	25.6	0.3157 µg/L	0.3157 ppb	21:20:34
2	Cr 267.716†	175.4	-3.9	-0.0289 µg/L	-0.0289 ppb	21:20:34
2	Cu 324.752†	2951.3	-34.0	-0.1338 µg/L	-0.1338 ppb	21:20:13
2	Mn 257.610†	228.4	-9.9	-0.0123 µg/L	-0.0123 ppb	21:20:34
2	Mo 202.031†	-29.3	-9.0	-0.2659 µg/L	-0.2659 ppb	21:20:34
2	Ni 231.604†	-82.5	-5.6	-0.0645 µg/L	-0.0645 ppb	21:20:34
2	P 214.914†	-14.3	3.8	0.8123 µg/L	0.8123 ppb	21:20:34
2	Pb 220.353†	82.1	-4.7	-0.2595 µg/L	-0.2595 ppb	21:20:34

2	S 181.975 Axial†	91.3	-14.1	-10.498 µg/L	-10.498 ppb	21:20:34
2	Sb 206.836†	71.7	-9.4	-1.1204 µg/L	-1.1204 ppb	21:20:34
2	Se 196.026†	16.3	0.9	0.337 µg/L	0.337 ppb	21:20:34
2	SiO2†	1744.2	-38.9	-3.7990 µg/L	-3.7990 ppb	21:20:34
2	Si 251.611†	837.7	-2.5	-0.0368 µg/L	-0.0368 ppb	21:20:13
2	Sn 189.927†	6.2	7.3	0.4532 µg/L	0.4532 ppb	21:20:34
2	Ti 334.940†	756.2	-199.7	-0.1855 µg/L	-0.1855 ppb	21:20:13
2	Tl 190.801†	-123.1	-5.9	-0.7309 µg/L	-0.7309 ppb	21:20:34
2	U 409.014†	-314.2	-43.0	-2.5195 µg/L	-2.5195 ppb	21:20:13
2	V 292.402†	382.0	-23.5	-0.1192 µg/L	-0.1192 ppb	21:20:13
2	Zn 213.857†	586.1	19.1	0.1074 µg/L	0.1074 ppb	21:20:34
3	Sc RADIAL	142445.8	142445.8	97.6 %		21:19:23
3	Al 396.153Radial†	-90.2	-29.2	-5.4175 µg/L	-5.4175 ppb	21:19:43
3	Ca 317.933Radial†	593.8	47.8	2.6599 µg/L	2.6599 ppb	21:19:43
3	Fe 238.204 Radial†	167.0	23.0	1.4166 µg/L	1.4166 ppb	21:19:43
3	K 766.490 Radial†	1597.6	91.9	33.647 µg/L	33.647 ppb	21:19:23
3	Mg 279.077 IEC†	184.4	-1.8	-0.6658 µg/L	-0.6658 ppb	21:19:43
3	Na 589.592 Radial†	1758.3	510.5	69.717 µg/L	69.717 ppb	21:19:23
3	Sr 421.552†	-153.0	-21.4	-0.0445 µg/L	-0.0445 ppb	21:19:23
3	Sc 361.383	1713474.3	1713474.3	99.724 %		21:20:36
3	Y 371.029	1024068.4	1024068.4	99.745 %		21:20:36
3	Ag 328.068†	4150.2	70.3	0.2535 µg/L	0.2535 ppb	21:20:38
3	As 188.979†	-9.9	10.5	3.1681 µg/L	3.1681 ppb	21:20:58
3	B 249.677†	3600.1	104.2	1.5371 µg/L	1.5371 ppb	21:20:38
3	Ba 233.527†	-126.3	9.2	0.0373 µg/L	0.0373 ppb	21:20:58
3	Be 313.107†	-965.7	96.3	0.0240 µg/L	0.0240 ppb	21:20:38
3	Cd 226.502†	-105.6	12.3	0.0767 µg/L	0.0767 ppb	21:20:58
3	Co 228.616†	-193.8	-4.0	-0.0492 µg/L	-0.0492 ppb	21:20:58
3	Cr 267.716†	191.2	13.1	0.1087 µg/L	0.1087 ppb	21:20:58
3	Cu 324.752†	2975.4	11.4	0.0383 µg/L	0.0383 ppb	21:20:38
3	Mn 257.610†	236.4	-0.2	-0.0002 µg/L	-0.0002 ppb	21:20:58
3	Mo 202.031†	-19.1	0.9	0.0276 µg/L	0.0276 ppb	21:20:58
3	Ni 231.604†	-66.0	10.3	0.1188 µg/L	0.1188 ppb	21:20:58
3	P 214.914†	-5.2	12.7	2.7193 µg/L	2.7193 ppb	21:20:58
3	Pb 220.353†	57.4	-28.8	-1.6039 µg/L	-1.6039 ppb	21:20:58
3	S 181.975 Axial†	102.3	-2.4	-1.8005 µg/L	-1.8005 ppb	21:20:58
3	Sb 206.836†	78.7	-1.9	-0.2267 µg/L	-0.2267 ppb	21:20:58
3	Se 196.026†	18.0	2.8	0.995 µg/L	0.995 ppb	21:20:58
3	SiO2†	1745.8	-24.7	-2.4280 µg/L	-2.4280 ppb	21:20:58
3	Si 251.611†	1027.5	193.7	2.8516 µg/L	2.8516 ppb	21:20:38
3	Sn 189.927†	9.3	10.4	0.6506 µg/L	0.6506 ppb	21:20:58
3	Ti 334.940†	1090.0	140.5	0.1344 µg/L	0.1344 ppb	21:20:38
3	Tl 190.801†	-127.7	-11.4	-1.3953 µg/L	-1.3953 ppb	21:20:58
3	U 409.014†	-395.2	-126.4	-7.3813 µg/L	-7.3813 ppb	21:20:38
3	V 292.402†	441.4	38.8	0.1850 µg/L	0.1850 ppb	21:20:38
3	Zn 213.857†	582.7	19.9	0.1107 µg/L	0.1107 ppb	21:20:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1710358.5	99.543 %	1.0041			1.01%
Sc RADIAL	141725.0	97.1 %	0.79			0.82%
Y 371.029	1023188.4	99.659 %	0.8713			0.87%
Ag 328.068†	19.8	0.0705 µg/L	0.18052	0.0705 ppb	0.18052	256.19%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.9	-1.4626 µg/L	4.89399	-1.4626 ppb	4.89399	334.61%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	11.3	3.4213 µg/L	0.57932	3.4213 ppb	0.57932	16.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	6.7	0.0980 µg/L	1.24716	0.0980 ppb	1.24716	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.1	0.0244 µg/L	0.03927	0.0244 ppb	0.03927	160.74%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	79.0	0.0208 µg/L	0.00345	0.0208 ppb	0.00345	16.63%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	53.9	3.0008 µg/L	0.69420	3.0008 ppb	0.69420	23.13%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.9	0.0555 µg/L	0.06825	0.0555 ppb	0.06825	123.01%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	15.6	0.1927 µg/L	0.20954	0.1927 ppb	0.20954	108.73%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	13.5	0.1076 µg/L	0.13596 0.1076 ppb 0.13596 126.39%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	4.7	0.0166 µg/L	0.14075 0.0166 ppb 0.14075 850.04%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	25.2	1.5526 µg/L	0.27342 1.5526 ppb 0.27342 17.61%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	161.8	59.237 µg/L	37.8362 59.237 ppb 37.8362 63.87%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-4.1	-1.5480 µg/L	2.83593 -1.5480 ppb 2.83593 183.20%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	6.2	0.0077 µg/L	0.02490 0.0077 ppb 0.02490 322.21%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-7.1	-0.2074 µg/L	0.21190 -0.2074 ppb 0.21190 102.16%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	495.8	67.683 µg/L	6.6920 67.683 ppb 6.6920 9.89%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-8.4	-0.0968 µg/L	0.23339 -0.0968 ppb 0.23339 241.07%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	7.6	1.6313 µg/L	0.98157 1.6313 ppb 0.98157 60.17%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-14.4	-0.8023 µg/L	0.70858 -0.8023 ppb 0.70858 88.32%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-2.8	-2.1010 µg/L	8.25080 -2.1010 ppb 8.25080 392.71%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-3.4	-0.4117 µg/L	0.63677 -0.4117 ppb 0.63677 154.68%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-2.8	-0.998 µg/L	2.9005 -0.998 ppb 2.9005 290.74%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-0.4	-0.0380 µg/L	5.37088 -0.0380 ppb 5.37088 >999.9%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	105.2	1.5504 µg/L	1.46530 1.5504 ppb 1.46530 94.51%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	7.9	0.4953 µg/L	0.13914 0.4953 ppb 0.13914 28.09%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	0.9	0.0019 µg/L	0.08056 0.0019 ppb 0.08056 >999.9%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-76.2	-0.0700 µg/L	0.17755 -0.0700 ppb 0.17755 253.50%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-7.7	-0.9455 µg/L	0.38970 -0.9455 ppb 0.38970 41.22%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-42.8	-2.5003 µg/L	4.89065 -2.5003 ppb 4.89065 195.61%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	5.3	0.0224 µg/L	0.15317 0.0224 ppb 0.15317 684.80%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	26.7	0.1505 µg/L	0.07173 0.1505 ppb 0.07173 47.67%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 61
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/31/2010 21:39:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143665.7	143665.7	98.4 %		21:40:31
1	Al 396.153Radial†	26354.7	26833.2	4952.4 µg/L	4952.4 ppb	21:40:31
1	Ca 317.933Radial†	87317.1	88132.5	4909.3 µg/L	4909.3 ppb	21:40:31
1	Fe 238.204 Radial†	78178.3	79262.3	4885.2 µg/L	4885.2 ppb	21:40:31
1	K 766.490 Radial†	14683.9	13370.5	4891.1 µg/L	4891.1 ppb	21:40:31
1	Mg 279.077 IEC†	13397.8	13418.2	5007.1 µg/L	5007.1 ppb	21:40:31
1	Na 589.592 Radial†	71164.9	70995.6	9694.5 µg/L	9694.5 ppb	21:40:31
1	Sr 421.552†	233220.3	237030.9	492.73 µg/L	492.73 ppb	21:40:29
1	Sc 361.383	1721068.9	1721068.9	100.17 %		21:40:44
1	Y 371.029	1018507.5	1018507.5	99.203 %		21:40:44
1	Ag 328.068†	133737.4	129424.5	485.29 µg/L	485.29 ppb	21:40:44
1	As 188.979†	1607.1	1624.8	498.43 µg/L	498.43 ppb	21:41:04
1	B 249.677†	35997.3	32431.8	476.62 µg/L	476.62 ppb	21:40:44
1	Ba 233.527†	120429.2	120365.5	485.43 µg/L	485.43 ppb	21:40:44
1	Be 313.107†	1795349.9	1793440.3	488.46 µg/L	488.46 ppb	21:40:44
1	Cd 226.502†	77524.8	77514.6	483.88 µg/L	483.88 ppb	21:40:44
1	Co 228.616†	39299.3	39424.5	486.69 µg/L	486.69 ppb	21:40:44
1	Cr 267.716†	61864.3	61583.2	482.19 µg/L	482.19 ppb	21:40:44
1	Cu 324.752†	127127.0	123944.2	483.17 µg/L	483.17 ppb	21:40:44
1	Mn 257.610†	395346.6	394454.4	487.85 µg/L	487.85 ppb	21:40:44
1	Mo 202.031†	16480.7	16473.5	484.58 µg/L	484.58 ppb	21:41:04
1	Ni 231.604†	41947.7	41954.7	483.08 µg/L	483.08 ppb	21:40:44
1	P 214.914†	11320.1	11319.3	2412.7 µg/L	2412.7 ppb	21:41:04
1	Pb 220.353†	8845.0	8744.0	489.65 µg/L	489.65 ppb	21:41:04
1	S 181.975 Axial†	1407.4	1300.0	969.45 µg/L	969.45 ppb	21:41:04
1	Sb 206.836†	4164.4	4076.7	485.74 µg/L	485.74 ppb	21:41:04
1	Se 196.026†	1354.0	1336.4	485 µg/L	485 ppb	21:41:04
1	SiO2†	55679.1	53811.5	5238.8 µg/L	5238.8 ppb	21:40:44
1	Si 251.611†	168734.5	167618.4	2461.5 µg/L	2461.5 ppb	21:40:44
1	Sn 189.927†	7779.1	7767.4	485.85 µg/L	485.85 ppb	21:41:04
1	Ti 334.940†	522596.2	520777.9	485.92 µg/L	485.92 ppb	21:40:44
1	Tl 190.801†	3874.4	3984.7	496.88 µg/L	496.88 ppb	21:41:04
1	U 409.014†	7407.3	7664.9	477.49 µg/L	477.49 ppb	21:40:44
1	V 292.402†	98914.4	98346.8	486.18 µg/L	486.18 ppb	21:40:44
1	Zn 213.857†	87152.2	86443.4	481.80 µg/L	481.80 ppb	21:40:44
2	Sc RADIAL	145456.2	145456.2	99.7 %		21:40:35
2	Al 396.153Radial†	26834.6	26985.2	4980.5 µg/L	4980.5 ppb	21:40:35
2	Ca 317.933Radial†	88881.4	88610.2	4935.9 µg/L	4935.9 ppb	21:40:35
2	Fe 238.204 Radial†	79662.0	79773.3	4916.7 µg/L	4916.7 ppb	21:40:35
2	K 766.490 Radial†	14845.0	13348.0	4883.1 µg/L	4883.1 ppb	21:40:35
2	Mg 279.077 IEC†	13510.7	13364.6	4986.9 µg/L	4986.9 ppb	21:40:35
2	Na 589.592 Radial†	72176.6	71120.8	9711.6 µg/L	9711.6 ppb	21:40:35
2	Sr 421.552†	230930.1	231817.3	481.90 µg/L	481.90 ppb	21:40:33
2	Sc 361.383	1718468.2	1718468.2	100.01 %		21:41:07
2	Y 371.029	1016391.1	1016391.1	98.997 %		21:41:07
2	Ag 328.068†	133896.2	129785.3	486.62 µg/L	486.62 ppb	21:41:07
2	As 188.979†	1611.9	1632.1	500.64 µg/L	500.64 ppb	21:41:27
2	B 249.677†	36060.3	32549.2	478.36 µg/L	478.36 ppb	21:41:07
2	Ba 233.527†	120340.6	120458.9	485.81 µg/L	485.81 ppb	21:41:07
2	Be 313.107†	1792650.3	1793453.6	488.45 µg/L	488.45 ppb	21:41:07
2	Cd 226.502†	77583.4	77690.3	484.97 µg/L	484.97 ppb	21:41:07
2	Co 228.616†	39213.4	39398.0	486.37 µg/L	486.37 ppb	21:41:07
2	Cr 267.716†	61991.1	61803.5	483.93 µg/L	483.93 ppb	21:41:07
2	Cu 324.752†	127061.9	124071.2	483.66 µg/L	483.66 ppb	21:41:07
2	Mn 257.610†	395040.3	394745.5	488.21 µg/L	488.21 ppb	21:41:07
2	Mo 202.031†	16505.0	16522.7	486.03 µg/L	486.03 ppb	21:41:27
2	Ni 231.604†	42190.5	42260.9	486.60 µg/L	486.60 ppb	21:41:07
2	P 214.914†	11360.6	11376.9	2425.0 µg/L	2425.0 ppb	21:41:27
2	Pb 220.353†	8840.9	8753.2	490.18 µg/L	490.18 ppb	21:41:27

2	S 181.975 Axial†	1398.8	1293.6	964.68 µg/L	964.68 ppb	21:41:27
2	Sb 206.836†	4174.1	4092.7	487.64 µg/L	487.64 ppb	21:41:27
2	Se 196.026†	1355.3	1339.8	486 µg/L	486 ppb	21:41:27
2	SiO2†	55809.3	54025.8	5259.7 µg/L	5259.7 ppb	21:41:07
2	Si 251.611†	168475.9	167614.8	2461.4 µg/L	2461.4 ppb	21:41:07
2	Sn 189.927†	7806.2	7806.1	488.27 µg/L	488.27 ppb	21:41:27
2	Ti 334.940†	521521.1	520492.6	485.66 µg/L	485.66 ppb	21:41:07
2	Tl 190.801†	3825.2	3941.3	491.55 µg/L	491.55 ppb	21:41:27
2	U 409.014†	7087.5	7356.3	459.54 µg/L	459.54 ppb	21:41:07
2	V 292.402†	99089.1	98670.9	487.77 µg/L	487.77 ppb	21:41:07
2	Zn 213.857†	87415.4	86838.2	483.99 µg/L	483.99 ppb	21:41:07
3	Sc RADIAL	143191.9	143191.9	98.1 %		21:40:39
3	Al 396.153Radial†	26557.8	27128.8	5007.1 µg/L	5007.1 ppb	21:40:39
3	Ca 317.933Radial†	87348.5	88458.0	4927.5 µg/L	4927.5 ppb	21:40:39
3	Fe 238.204 Radial†	78236.9	79584.7	4905.1 µg/L	4905.1 ppb	21:40:39
3	K 766.490 Radial†	14659.9	13395.4	4900.3 µg/L	4900.3 ppb	21:40:39
3	Mg 279.077 IEC†	13262.5	13325.4	4972.5 µg/L	4972.5 ppb	21:40:39
3	Na 589.592 Radial†	71088.0	71156.4	9716.5 µg/L	9716.5 ppb	21:40:39
3	Sr 421.552†	229311.5	233831.2	486.08 µg/L	486.08 ppb	21:40:37
3	Sc 361.383	1712233.1	1712233.1	99.652 %		21:41:30
3	Y 371.029	1012145.6	1012145.6	98.583 %		21:41:30
3	Ag 328.068†	133864.3	130240.8	488.35 µg/L	488.35 ppb	21:41:30
3	As 188.979†	1597.0	1622.9	497.89 µg/L	497.89 ppb	21:41:50
3	B 249.677†	36087.2	32707.4	480.68 µg/L	480.68 ppb	21:41:30
3	Ba 233.527†	120029.4	120584.8	486.32 µg/L	486.32 ppb	21:41:30
3	Be 313.107†	1789689.6	1797009.6	489.43 µg/L	489.43 ppb	21:41:30
3	Cd 226.502†	77607.6	77997.0	486.89 µg/L	486.89 ppb	21:41:30
3	Co 228.616†	39237.2	39564.7	488.42 µg/L	488.42 ppb	21:41:30
3	Cr 267.716†	61895.9	61933.7	484.93 µg/L	484.93 ppb	21:41:30
3	Cu 324.752†	126699.8	124170.4	484.06 µg/L	484.06 ppb	21:41:30
3	Mn 257.610†	394236.6	395377.2	488.99 µg/L	488.99 ppb	21:41:30
3	Mo 202.031†	16435.8	16513.3	485.75 µg/L	485.75 ppb	21:41:50
3	Ni 231.604†	42100.7	42324.4	487.33 µg/L	487.33 ppb	21:41:30
3	P 214.914†	11331.6	11389.1	2427.6 µg/L	2427.6 ppb	21:41:50
3	Pb 220.353†	8803.4	8747.8	489.86 µg/L	489.86 ppb	21:41:50
3	S 181.975 Axial†	1399.9	1299.7	969.26 µg/L	969.26 ppb	21:41:50
3	Sb 206.836†	4147.7	4081.4	486.29 µg/L	486.29 ppb	21:41:50
3	Se 196.026†	1361.2	1350.7	490 µg/L	490 ppb	21:41:50
3	SiO2†	55566.3	53985.2	5255.7 µg/L	5255.7 ppb	21:41:30
3	Si 251.611†	168537.6	168290.1	2471.4 µg/L	2471.4 ppb	21:41:30
3	Sn 189.927†	7783.2	7811.5	488.60 µg/L	488.60 ppb	21:41:50
3	Ti 334.940†	520012.8	520877.8	486.02 µg/L	486.02 ppb	21:41:30
3	Tl 190.801†	3855.0	3985.2	496.95 µg/L	496.95 ppb	21:41:50
3	U 409.014†	7438.0	7733.9	481.69 µg/L	481.69 ppb	21:41:30
3	V 292.402†	98978.3	98920.4	489.01 µg/L	489.01 ppb	21:41:30
3	Zn 213.857†	86968.8	86708.3	483.25 µg/L	483.25 ppb	21:41:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717256.7	99.944 %	0.2643			0.26%
Sc RADIAL	144104.6	98.7 %	0.82			0.83%
Y 371.029	1015681.4	98.928 %	0.3156			0.32%
Ag 328.068†	129816.8	486.75 µg/L	1.535	486.75 ppb	1.535	0.32%
QC value within limits for Ag 328.068 Recovery = 97.35%						
Al 396.153Radial†	26982.4	4980.0 µg/L	27.38	4980.0 ppb	27.38	0.55%
QC value within limits for Al 396.153Radial Recovery = 99.60%						
As 188.979†	1626.6	498.99 µg/L	1.460	498.99 ppb	1.460	0.29%
QC value within limits for As 188.979 Recovery = 99.80%						
B 249.677†	32562.8	478.55 µg/L	2.037	478.55 ppb	2.037	0.43%
QC value within limits for B 249.677 Recovery = 95.71%						
Ba 233.527†	120469.8	485.85 µg/L	0.444	485.85 ppb	0.444	0.09%
QC value within limits for Ba 233.527 Recovery = 97.17%						
Be 313.107†	1794634.5	488.78 µg/L	0.562	488.78 ppb	0.562	0.12%
QC value within limits for Be 313.107 Recovery = 97.76%						
Ca 317.933Radial†	88400.3	4924.2 µg/L	13.59	4924.2 ppb	13.59	0.28%
QC value within limits for Ca 317.933Radial Recovery = 98.48%						
Cd 226.502†	77734.0	485.25 µg/L	1.525	485.25 ppb	1.525	0.31%
QC value within limits for Cd 226.502 Recovery = 97.05%						
Co 228.616†	39462.4	487.16 µg/L	1.106	487.16 ppb	1.106	0.23%

QC value within limits for Co 228.616	Recovery = 97.43%			
Cr 267.716†	61773.5	483.68 µg/L	1.389	483.68 ppb
QC value within limits for Cr 267.716	Recovery = 96.74%			
Cu 324.752†	124061.9	483.63 µg/L	0.443	483.63 ppb
QC value within limits for Cu 324.752	Recovery = 96.73%			
Fe 238.204 Radial†	79540.1	4902.4 µg/L	15.93	4902.4 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 98.05%			
K 766.490 Radial†	13371.5	4891.5 µg/L	8.58	4891.5 ppb
QC value within limits for K 766.490 Radial	Recovery = 97.83%			
Mg 279.077 IEC†	13369.2	4988.8 µg/L	17.36	4988.8 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 99.78%			
Mn 257.610†	394859.0	488.35 µg/L	0.584	488.35 ppb
QC value within limits for Mn 257.610	Recovery = 97.67%			
Mo 202.031†	16503.2	485.45 µg/L	0.769	485.45 ppb
QC value within limits for Mo 202.031	Recovery = 97.09%			
Na 589.592 Radial†	71090.9	9707.5 µg/L	11.54	9707.5 ppb
QC value within limits for Na 589.592 Radial	Recovery = 97.08%			
Ni 231.604†	42180.0	485.67 µg/L	2.276	485.67 ppb
QC value within limits for Ni 231.604	Recovery = 97.13%			
P 214.914†	11361.8	2421.7 µg/L	7.97	2421.7 ppb
QC value within limits for P 214.914	Recovery = 96.87%			
Pb 220.353†	8748.3	489.90 µg/L	0.268	489.90 ppb
QC value within limits for Pb 220.353	Recovery = 97.98%			
S 181.975 Axial†	1297.8	967.80 µg/L	2.698	967.80 ppb
QC value within limits for S 181.975 Axial	Recovery = 96.78%			
Sb 206.836†	4083.6	486.56 µg/L	0.979	486.56 ppb
QC value within limits for Sb 206.836	Recovery = 97.31%			
Se 196.026†	1342.3	487 µg/L	2.7	487 ppb
QC value within limits for Se 196.026	Recovery = 97.48%			
SiO2†	53940.8	5251.4 µg/L	11.08	5251.4 ppb
QC value within limits for SiO2	Recovery = 98.20%			
Si 251.611†	167841.1	2464.8 µg/L	5.72	2464.8 ppb
QC value within limits for Si 251.611	Recovery = 98.59%			
Sn 189.927†	7795.0	487.58 µg/L	1.501	487.58 ppb
QC value within limits for Sn 189.927	Recovery = 97.52%			
Sr 421.552†	234226.5	486.90 µg/L	5.466	486.90 ppb
QC value within limits for Sr 421.552	Recovery = 97.38%			
Ti 334.940†	520716.1	485.87 µg/L	0.182	485.87 ppb
QC value within limits for Ti 334.940	Recovery = 97.17%			
Tl 190.801†	3970.4	495.13 µg/L	3.095	495.13 ppb
QC value within limits for Tl 190.801	Recovery = 99.03%			
U 409.014†	7585.0	472.91 µg/L	11.768	472.91 ppb
QC value within limits for U 409.014	Recovery = 94.58%			
V 292.402†	98646.0	487.65 µg/L	1.415	487.65 ppb
QC value within limits for V 292.402	Recovery = 97.53%			
Zn 213.857†	86663.3	483.01 µg/L	1.115	483.01 ppb
QC value within limits for Zn 213.857	Recovery = 96.60%			

All analyte(s) passed QC.

Sequence No.: 62

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 21:41:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143435.3	143435.3	98.3 %			21:42:30
1	Al 396.153Radial†	-56.2	6.0	1.1301 µg/L		1.1301 ppb	21:42:50
1	Ca 317.933Radial†	581.9	31.5	1.7535 µg/L		1.7535 ppb	21:42:50
1	Fe 238.204 Radial†	220.1	75.9	4.6750 µg/L		4.6750 ppb	21:42:50
1	K 766.490 Radial†	1630.1	113.7	41.604 µg/L		41.604 ppb	21:42:30
1	Mg 279.077 IEC†	185.9	-1.6	-0.5986 µg/L		-0.5986 ppb	21:42:50
1	Na 589.592 Radial†	1456.5	191.1	26.064 µg/L		26.064 ppb	21:42:30
1	Sr 421.552†	-303.2	-173.2	-0.3600 µg/L		-0.3600 ppb	21:42:30
1	Sc 361.383	1716104.0	1716104.0	99.877 %			21:43:52
1	Y 371.029	1026337.9	1026337.9	99.966 %			21:43:52
1	Ag 328.068†	4103.4	17.0	0.0542 µg/L		0.0542 ppb	21:43:54
1	As 188.979†	-11.9	8.5	2.5574 µg/L		2.5574 ppb	21:44:14
1	B 249.677†	3527.0	25.5	0.3738 µg/L		0.3738 ppb	21:43:54
1	Ba 233.527†	-143.0	-7.3	-0.0298 µg/L		-0.0298 ppb	21:44:14
1	Be 313.107†	-770.0	293.7	0.0782 µg/L		0.0782 ppb	21:43:54
1	Cd 226.502†	-77.7	40.4	0.2520 µg/L		0.2520 ppb	21:44:14
1	Co 228.616†	-153.6	36.5	0.4505 µg/L		0.4505 ppb	21:44:14
1	Cr 267.716†	176.1	-2.3	-0.0133 µg/L		-0.0133 ppb	21:44:14
1	Cu 324.752†	3046.8	78.3	0.3006 µg/L		0.3006 ppb	21:43:54
1	Mn 257.610†	328.7	91.9	0.1137 µg/L		0.1137 ppb	21:44:14
1	Mo 202.031†	-27.4	-7.4	-0.2173 µg/L		-0.2173 ppb	21:44:14
1	Ni 231.604†	-77.8	-1.3	-0.0154 µg/L		-0.0154 ppb	21:44:14
1	P 214.914†	-3.8	14.1	3.0202 µg/L		3.0202 ppb	21:44:14
1	Pb 220.353†	91.6	5.4	0.3025 µg/L		0.3025 ppb	21:44:14
1	S 181.975 Axial†	84.3	-20.7	-15.370 µg/L		-15.370 ppb	21:44:14
1	Sb 206.836†	85.3	4.6	0.5436 µg/L		0.5436 ppb	21:44:14
1	Se 196.026†	18.7	3.4	1.24 µg/L		1.24 ppb	21:44:14
1	SiO2†	1789.6	16.4	1.6035 µg/L		1.6035 ppb	21:44:14
1	Si 251.611†	934.5	99.0	1.4600 µg/L		1.4600 ppb	21:43:54
1	Sn 189.927†	6.5	7.6	0.4757 µg/L		0.4757 ppb	21:44:14
1	Ti 334.940†	967.5	16.2	0.0175 µg/L		0.0175 ppb	21:43:54
1	Tl 190.801†	-127.3	-10.8	-1.3305 µg/L		-1.3305 ppb	21:44:14
1	U 409.014†	-367.5	-98.1	-5.7438 µg/L		-5.7438 ppb	21:43:54
1	V 292.402†	375.1	-28.2	-0.1442 µg/L		-0.1442 ppb	21:43:54
1	Zn 213.857†	580.1	16.4	0.0915 µg/L		0.0915 ppb	21:44:14
2	Sc RADIAL	141870.3	141870.3	97.2 %			21:42:52
2	Al 396.153Radial†	-65.2	-3.9	-0.6977 µg/L		-0.6977 ppb	21:43:12
2	Ca 317.933Radial†	617.6	74.7	4.1593 µg/L		4.1593 ppb	21:43:12
2	Fe 238.204 Radial†	216.5	74.5	4.5946 µg/L		4.5946 ppb	21:43:12
2	K 766.490 Radial†	1775.2	281.2	102.95 µg/L		102.95 ppb	21:42:52
2	Mg 279.077 IEC†	182.1	-3.4	-1.2877 µg/L		-1.2877 ppb	21:43:12
2	Na 589.592 Radial†	1482.8	234.5	31.940 µg/L		31.940 ppb	21:42:52
2	Sr 421.552†	-167.3	-36.8	-0.0764 µg/L		-0.0764 ppb	21:42:52
2	Sc 361.383	1723490.8	1723490.8	100.31 %			21:44:16
2	Y 371.029	1031447.1	1031447.1	100.46 %			21:44:16
2	Ag 328.068†	4201.6	97.3	0.3501 µg/L		0.3501 ppb	21:44:18
2	As 188.979†	-15.3	5.1	1.5573 µg/L		1.5573 ppb	21:44:38
2	B 249.677†	3665.3	148.2	2.1841 µg/L		2.1841 ppb	21:44:18
2	Ba 233.527†	-146.0	-9.7	-0.0400 µg/L		-0.0400 ppb	21:44:38
2	Be 313.107†	-1050.7	17.2	0.0045 µg/L		0.0045 ppb	21:44:18
2	Cd 226.502†	-111.8	6.7	0.0414 µg/L		0.0414 ppb	21:44:38
2	Co 228.616†	-164.6	26.2	0.3234 µg/L		0.3234 ppb	21:44:38
2	Cr 267.716†	226.4	47.1	0.3695 µg/L		0.3695 ppb	21:44:38
2	Cu 324.752†	2823.9	-156.9	-0.6096 µg/L		-0.6096 ppb	21:44:18
2	Mn 257.610†	284.0	45.8	0.0568 µg/L		0.0568 ppb	21:44:38
2	Mo 202.031†	-36.4	-16.2	-0.4763 µg/L		-0.4763 ppb	21:44:38
2	Ni 231.604†	-100.6	-23.8	-0.2736 µg/L		-0.2736 ppb	21:44:38
2	P 214.914†	-35.6	-17.5	-3.7362 µg/L		-3.7362 ppb	21:44:38
2	Pb 220.353†	84.0	-2.6	-0.1459 µg/L		-0.1459 ppb	21:44:38

2	S 181.975 Axial†	89.5	-15.8	-11.745 µg/L	-11.745 ppb	21:44:38
2	Sb 206.836†	89.4	8.3	0.9755 µg/L	0.9755 ppb	21:44:38
2	Se 196.026†	9.9	-5.4	-1.96 µg/L	-1.96 ppb	21:44:38
2	SiO2†	1777.4	-3.4	-0.3192 µg/L	-0.3192 ppb	21:44:38
2	Si 251.611†	834.3	-4.8	-0.0658 µg/L	-0.0658 ppb	21:44:18
2	Sn 189.927†	1.7	2.8	0.1770 µg/L	0.1770 ppb	21:44:38
2	Ti 334.940†	895.6	-59.6	-0.0554 µg/L	-0.0554 ppb	21:44:18
2	Tl 190.801†	-122.5	-5.4	-0.6750 µg/L	-0.6750 ppb	21:44:38
2	U 409.014†	-282.1	-11.3	-0.7096 µg/L	-0.7096 ppb	21:44:18
2	V 292.402†	242.6	-162.0	-0.7943 µg/L	-0.7943 ppb	21:44:18
2	Zn 213.857†	573.6	7.4	0.0434 µg/L	0.0434 ppb	21:44:38
3	Sc RADIAL	144958.5	144958.5	99.3 %		21:43:14
3	Al 396.153Radial†	-37.5	25.5	4.7369 µg/L	4.7369 ppb	21:43:34
3	Ca 317.933Radial†	583.6	27.0	1.5021 µg/L	1.5021 ppb	21:43:34
3	Fe 238.204 Radial†	192.7	45.8	2.8253 µg/L	2.8253 ppb	21:43:34
3	K 766.490 Radial†	1497.6	-37.2	-13.616 µg/L	-13.616 ppb	21:43:14
3	Mg 279.077 IEC†	178.6	-10.9	-4.0718 µg/L	-4.0718 ppb	21:43:34
3	Na 589.592 Radial†	1440.0	158.8	21.708 µg/L	21.708 ppb	21:43:14
3	Sr 421.552†	-197.6	-63.6	-0.1322 µg/L	-0.1322 ppb	21:43:14
3	Sc 361.383	1740188.5	1740188.5	101.28 %		21:44:40
3	Y 371.029	1039891.9	1039891.9	101.29 %		21:44:40
3	Ag 328.068†	3928.5	-212.5	-0.7881 µg/L	-0.7881 ppb	21:44:42
3	As 188.979†	-8.6	11.9	3.6004 µg/L	3.6004 ppb	21:45:02
3	B 249.677†	3552.8	2.1	0.0294 µg/L	0.0294 ppb	21:44:42
3	Ba 233.527†	-133.9	3.6	0.0140 µg/L	0.0140 ppb	21:45:02
3	Be 313.107†	-962.7	114.2	0.0329 µg/L	0.0329 ppb	21:44:42
3	Cd 226.502†	-89.8	29.5	0.1840 µg/L	0.1840 ppb	21:45:02
3	Co 228.616†	-162.5	29.8	0.3679 µg/L	0.3679 ppb	21:45:02
3	Cr 267.716†	179.3	-1.5	-0.0165 µg/L	-0.0165 ppb	21:45:02
3	Cu 324.752†	2942.1	-67.2	-0.2559 µg/L	-0.2559 ppb	21:44:42
3	Mn 257.610†	335.1	93.6	0.1159 µg/L	0.1159 ppb	21:45:02
3	Mo 202.031†	-28.8	-8.4	-0.2468 µg/L	-0.2468 ppb	21:45:02
3	Ni 231.604†	-82.6	-5.1	-0.0583 µg/L	-0.0583 ppb	21:45:02
3	P 214.914†	-27.4	-9.1	-1.9410 µg/L	-1.9410 ppb	21:45:02
3	Pb 220.353†	64.5	-22.7	-1.2712 µg/L	-1.2712 ppb	21:45:02
3	S 181.975 Axial†	101.1	-5.2	-3.8697 µg/L	-3.8697 ppb	21:45:02
3	Sb 206.836†	85.4	3.5	0.4065 µg/L	0.4065 ppb	21:45:02
3	Se 196.026†	13.5	-2.0	-0.710 µg/L	-0.710 ppb	21:45:02
3	SiO2†	1812.3	14.0	1.3744 µg/L	1.3744 ppb	21:45:02
3	Si 251.611†	970.3	121.4	1.7924 µg/L	1.7924 ppb	21:44:42
3	Sn 189.927†	1.9	3.0	0.1856 µg/L	0.1856 ppb	21:45:02
3	Ti 334.940†	941.7	-22.7	-0.0233 µg/L	-0.0233 ppb	21:44:42
3	Tl 190.801†	-117.2	1.0	0.1129 µg/L	0.1129 ppb	21:45:02
3	U 409.014†	-171.3	100.7	5.8492 µg/L	5.8492 ppb	21:44:42
3	V 292.402†	265.0	-142.2	-0.6925 µg/L	-0.6925 ppb	21:44:42
3	Zn 213.857†	580.1	8.4	0.0472 µg/L	0.0472 ppb	21:45:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1726594.5	100.49 %	0.718			0.71%
Sc RADIAL	143421.3	98.3 %	1.06			1.08%
Y 371.029	1032559.0	100.57 %	0.667			0.66%
Ag 328.068†	-32.7	-0.1280 µg/L	0.59056	-0.1280 ppb	0.59056	461.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.2	1.7231 µg/L	2.76540	1.7231 ppb	2.76540	160.49%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.5	2.5717 µg/L	1.02165	2.5717 ppb	1.02165	39.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	58.6	0.8625 µg/L	1.15748	0.8625 ppb	1.15748	134.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-4.5	-0.0186 µg/L	0.02870	-0.0186 ppb	0.02870	154.38%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	141.7	0.0385 µg/L	0.03721	0.0385 ppb	0.03721	96.57%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	44.4	2.4716 µg/L	1.46699	2.4716 ppb	1.46699	59.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	25.6	0.1591 µg/L	0.10748	0.1591 ppb	0.10748	67.54%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	30.9	0.3806 µg/L	0.06452	0.3806 ppb	0.06452	16.95%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	14.5	0.1132 µg/L	0.22191	0.1132 ppb	0.22191 195.99%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-48.6	-0.1883 µg/L	0.45884	-0.1883 ppb	0.45884 243.64%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	65.4	4.0316 µg/L	1.04544	4.0316 ppb	1.04544 25.93%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	119.2	43.647 µg/L	58.3112	43.647 ppb	58.3112 133.60%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-5.3	-1.9860 µg/L	1.83888	-1.9860 ppb	1.83888 92.59%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	77.1	0.0955 µg/L	0.03352	0.0955 ppb	0.03352 35.12%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-10.7	-0.3135 µg/L	0.14177	-0.3135 ppb	0.14177 45.22%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	194.8	26.570 µg/L	5.1349	26.570 ppb	5.1349 19.33%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-10.1	-0.1158 µg/L	0.13833	-0.1158 ppb	0.13833 119.49%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-4.2	-0.8857 µg/L	3.49964	-0.8857 ppb	3.49964 395.14%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-6.6	-0.3715 µg/L	0.81072	-0.3715 ppb	0.81072 218.21%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-13.9	-10.328 µg/L	5.8795	-10.328 ppb	5.8795 56.93%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	5.5	0.6419 µg/L	0.29695	0.6419 ppb	0.29695 46.26%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-1.3	-0.475 µg/L	1.6120	-0.475 ppb	1.6120 339.40%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	9.0	0.8862 µg/L	1.05021	0.8862 ppb	1.05021 118.50%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	71.9	1.0622 µg/L	0.99095	1.0622 ppb	0.99095 93.29%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	4.5	0.2794 µg/L	0.17000	0.2794 ppb	0.17000 60.84%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-91.2	-0.1896 µg/L	0.15021	-0.1896 ppb	0.15021 79.25%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-22.1	-0.0204 µg/L	0.03654	-0.0204 ppb	0.03654 179.40%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	-5.1	-0.6309 µg/L	0.72270	-0.6309 ppb	0.72270 114.55%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-2.9	-0.2014 µg/L	5.81317	-0.2014 ppb	5.81317 >999.9%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-110.8	-0.5437 µg/L	0.34967	-0.5437 ppb	0.34967 64.31%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	10.7	0.0607 µg/L	0.02675	0.0607 ppb	0.02675 44.07%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 68

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 21:55:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142583.3	142583.3	97.7 %		21:56:11
1	Al 396.153Radial†	26125.5	26801.9	4946.6 µg/L	4946.6 ppb	21:56:11
1	Ca 317.933Radial†	86256.4	87720.3	4886.4 µg/L	4886.4 ppb	21:56:11
1	Fe 238.204 Radial†	77373.7	79041.6	4871.6 µg/L	4871.6 ppb	21:56:11
1	K 766.490 Radial†	14581.9	13379.4	4894.4 µg/L	4894.4 ppb	21:56:11
1	Mg 279.077 IEC†	13220.1	13339.7	4977.8 µg/L	4977.8 ppb	21:56:11
1	Na 589.592 Radial†	70221.6	70578.9	9637.6 µg/L	9637.6 ppb	21:56:11
1	Sr 421.552†	231094.9	236654.1	491.95 µg/L	491.95 ppb	21:56:08
1	Sc 361.383	1721792.2	1721792.2	100.21 %		21:56:38
1	Y 371.029	1018476.9	1018476.9	99.200 %		21:56:38
1	Ag 328.068†	132257.1	127891.1	479.55 µg/L	479.55 ppb	21:56:38
1	As 188.979†	1611.5	1628.5	499.47 µg/L	499.47 ppb	21:56:58
1	B 249.677†	35480.1	31900.5	468.81 µg/L	468.81 ppb	21:56:38
1	Ba 233.527†	119040.9	118929.6	479.64 µg/L	479.64 ppb	21:56:38
1	Be 313.107†	1767471.5	1764866.8	480.67 µg/L	480.67 ppb	21:56:38
1	Cd 226.502†	76426.9	76386.5	476.83 µg/L	476.83 ppb	21:56:38
1	Co 228.616†	38708.1	38818.0	479.20 µg/L	479.20 ppb	21:56:38
1	Cr 267.716†	61091.8	60786.4	475.95 µg/L	475.95 ppb	21:56:38
1	Cu 324.752†	125542.2	122309.4	476.81 µg/L	476.81 ppb	21:56:38
1	Mn 257.610†	389445.6	388399.8	480.36 µg/L	480.36 ppb	21:56:38
1	Mo 202.031†	16429.4	16415.4	482.87 µg/L	482.87 ppb	21:56:58
1	Ni 231.604†	41557.9	41548.1	478.40 µg/L	478.40 ppb	21:56:38
1	P 214.914†	11328.9	11323.4	2413.6 µg/L	2413.6 ppb	21:56:58
1	Pb 220.353†	8812.2	8707.5	487.61 µg/L	487.61 ppb	21:56:58
1	S 181.975 Axial†	1392.1	1284.2	957.66 µg/L	957.66 ppb	21:56:58
1	Sb 206.836†	4144.5	4055.1	483.24 µg/L	483.24 ppb	21:56:58
1	Se 196.026†	1364.7	1346.6	489 µg/L	489 ppb	21:56:58
1	SiO2†	55188.2	53298.2	5188.7 µg/L	5188.7 ppb	21:56:38
1	Si 251.611†	166961.4	165778.2	2434.4 µg/L	2434.4 ppb	21:56:38
1	Sn 189.927†	7776.6	7761.6	485.47 µg/L	485.47 ppb	21:56:58
1	Ti 334.940†	514606.5	512585.6	478.27 µg/L	478.27 ppb	21:56:38
1	Tl 190.801†	3826.9	3935.6	490.75 µg/L	490.75 ppb	21:56:58
1	U 409.014†	7289.4	7544.1	470.15 µg/L	470.15 ppb	21:56:38
1	V 292.402†	98070.8	97463.4	481.83 µg/L	481.83 ppb	21:56:38
1	Zn 213.857†	85920.7	85177.9	474.72 µg/L	474.72 ppb	21:56:38
2	Sc RADIAL	143543.2	143543.2	98.4 %		21:56:15
2	Al 396.153Radial†	26329.4	26830.4	4951.8 µg/L	4951.8 ppb	21:56:15
2	Ca 317.933Radial†	87214.1	88103.5	4907.7 µg/L	4907.7 ppb	21:56:15
2	Fe 238.204 Radial†	78175.0	79326.6	4889.2 µg/L	4889.2 ppb	21:56:15
2	K 766.490 Radial†	14759.5	13460.1	4923.9 µg/L	4923.9 ppb	21:56:15
2	Mg 279.077 IEC†	13306.4	13336.9	4976.8 µg/L	4976.8 ppb	21:56:15
2	Na 589.592 Radial†	70918.2	70806.4	9668.6 µg/L	9668.6 ppb	21:56:15
2	Sr 421.552†	232565.2	236567.1	491.77 µg/L	491.77 ppb	21:56:13
2	Sc 361.383	1725354.7	1725354.7	100.42 %		21:57:01
2	Y 371.029	1021259.3	1021259.3	99.471 %		21:57:01
2	Ag 328.068†	133310.0	128667.2	482.44 µg/L	482.44 ppb	21:57:01
2	As 188.979†	1621.3	1635.0	501.47 µg/L	501.47 ppb	21:57:21
2	B 249.677†	36007.3	32352.4	475.47 µg/L	475.47 ppb	21:57:01
2	Ba 233.527†	119720.2	119360.8	481.38 µg/L	481.38 ppb	21:57:01
2	Be 313.107†	1782951.5	1776640.9	483.88 µg/L	483.88 ppb	21:57:01
2	Cd 226.502†	77092.6	76891.9	479.99 µg/L	479.99 ppb	21:57:01
2	Co 228.616†	39093.6	39122.2	482.96 µg/L	482.96 ppb	21:57:01
2	Cr 267.716†	61575.2	61141.9	478.73 µg/L	478.73 ppb	21:57:01
2	Cu 324.752†	126592.7	123096.8	479.87 µg/L	479.87 ppb	21:57:01
2	Mn 257.610†	393017.2	391154.2	483.76 µg/L	483.76 ppb	21:57:01
2	Mo 202.031†	16523.6	16475.3	484.63 µg/L	484.63 ppb	21:57:21
2	Ni 231.604†	41848.9	41752.3	480.75 µg/L	480.75 ppb	21:57:01
2	P 214.914†	11396.2	11367.0	2422.9 µg/L	2422.9 ppb	21:57:21
2	Pb 220.353†	8867.2	8744.1	489.65 µg/L	489.65 ppb	21:57:21

2	S 181.975 Axial†	1408.6	1297.7	967.74 µg/L	967.74 ppb	21:57:21
2	Sb 206.836†	4160.8	4062.8	484.14 µg/L	484.14 ppb	21:57:21
2	Se 196.026†	1350.1	1329.2	483 µg/L	483 ppb	21:57:21
2	SiO2†	55415.3	53410.7	5199.6 µg/L	5199.6 ppb	21:57:01
2	Si 251.611†	167453.3	165924.1	2436.5 µg/L	2436.5 ppb	21:57:01
2	Sn 189.927†	7843.1	7811.7	488.60 µg/L	488.60 ppb	21:57:21
2	Ti 334.940†	518046.3	514950.8	480.48 µg/L	480.48 ppb	21:57:01
2	Tl 190.801†	3874.0	3974.7	495.58 µg/L	495.58 ppb	21:57:21
2	U 409.014†	7327.0	7566.6	471.56 µg/L	471.56 ppb	21:57:01
2	V 292.402†	98567.7	97756.1	483.29 µg/L	483.29 ppb	21:57:01
2	Zn 213.857†	86827.5	85903.9	478.78 µg/L	478.78 ppb	21:57:01
3	Sc RADIAL	146360.8	146360.8	100 %		21:56:19
3	Al 396.153Radial†	26877.7	26861.7	4957.8 µg/L	4957.8 ppb	21:56:19
3	Ca 317.933Radial†	89496.1	88672.0	4939.4 µg/L	4939.4 ppb	21:56:19
3	Fe 238.204 Radial†	80024.7	79640.9	4908.6 µg/L	4908.6 ppb	21:56:19
3	K 766.490 Radial†	15000.5	13411.5	4906.1 µg/L	4906.1 ppb	21:56:19
3	Mg 279.077 IEC†	13753.4	13522.1	5045.7 µg/L	5045.7 ppb	21:56:19
3	Na 589.592 Radial†	72413.6	70909.6	9682.7 µg/L	9682.7 ppb	21:56:19
3	Sr 421.552†	230747.3	230203.0	478.54 µg/L	478.54 ppb	21:56:17
3	Sc 361.383	1718966.4	1718966.4	100.04 %		21:57:24
3	Y 371.029	1017028.5	1017028.5	99.059 %		21:57:24
3	Ag 328.068†	132653.9	128504.7	481.80 µg/L	481.80 ppb	21:57:24
3	As 188.979†	1590.5	1610.2	493.94 µg/L	493.94 ppb	21:57:44
3	B 249.677†	35824.6	32303.1	474.74 µg/L	474.74 ppb	21:57:24
3	Ba 233.527†	119070.9	119154.9	480.55 µg/L	480.55 ppb	21:57:24
3	Be 313.107†	1772306.3	1772598.9	482.78 µg/L	482.78 ppb	21:57:24
3	Cd 226.502†	76616.2	76701.1	478.79 µg/L	478.79 ppb	21:57:24
3	Co 228.616†	38830.3	39003.7	481.49 µg/L	481.49 ppb	21:57:24
3	Cr 267.716†	61234.2	61029.0	477.86 µg/L	477.86 ppb	21:57:24
3	Cu 324.752†	125521.6	122494.7	477.53 µg/L	477.53 ppb	21:57:24
3	Mn 257.610†	389961.8	389554.7	481.78 µg/L	481.78 ppb	21:57:24
3	Mo 202.031†	16335.5	16348.5	480.91 µg/L	480.91 ppb	21:57:44
3	Ni 231.604†	41630.1	41688.5	480.01 µg/L	480.01 ppb	21:57:24
3	P 214.914†	11241.7	11254.8	2398.9 µg/L	2398.9 ppb	21:57:44
3	Pb 220.353†	8795.7	8705.5	487.50 µg/L	487.50 ppb	21:57:44
3	S 181.975 Axial†	1388.4	1282.7	956.57 µg/L	956.57 ppb	21:57:44
3	Sb 206.836†	4126.6	4043.9	481.85 µg/L	481.85 ppb	21:57:44
3	Se 196.026†	1345.6	1329.7	483 µg/L	483 ppb	21:57:44
3	SiO2†	54983.2	53183.9	5177.6 µg/L	5177.6 ppb	21:57:24
3	Si 251.611†	166469.4	165560.3	2431.2 µg/L	2431.2 ppb	21:57:24
3	Sn 189.927†	7725.1	7722.8	483.05 µg/L	483.05 ppb	21:57:44
3	Ti 334.940†	514909.1	513732.3	479.34 µg/L	479.34 ppb	21:57:24
3	Tl 190.801†	3822.2	3937.2	490.94 µg/L	490.94 ppb	21:57:44
3	U 409.014†	7179.0	7445.8	464.34 µg/L	464.34 ppb	21:57:24
3	V 292.402†	97706.1	97259.8	480.82 µg/L	480.82 ppb	21:57:24
3	Zn 213.857†	86111.6	85509.7	476.57 µg/L	476.57 ppb	21:57:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1722037.8	100.22 %	0.186			0.19%
Sc RADIAL	144162.4	98.8 %	1.35			1.36%
Y 371.029	1018921.6	99.243 %	0.2094			0.21%
Ag 328.068†	128354.3	481.26 µg/L	1.519	481.26 ppb	1.519	0.32%
QC value within limits for Ag 328.068 Recovery = 96.25%						
Al 396.153Radial†	26831.3	4952.1 µg/L	5.59	4952.1 ppb	5.59	0.11%
QC value within limits for Al 396.153Radial Recovery = 99.04%						
As 188.979†	1624.5	498.29 µg/L	3.898	498.29 ppb	3.898	0.78%
QC value within limits for As 188.979 Recovery = 99.66%						
B 249.677†	32185.3	473.01 µg/L	3.650	473.01 ppb	3.650	0.77%
QC value within limits for B 249.677 Recovery = 94.60%						
Ba 233.527†	119148.4	480.52 µg/L	0.870	480.52 ppb	0.870	0.18%
QC value within limits for Ba 233.527 Recovery = 96.10%						
Be 313.107†	1771368.9	482.44 µg/L	1.629	482.44 ppb	1.629	0.34%
QC value within limits for Be 313.107 Recovery = 96.49%						
Ca 317.933Radial†	88165.3	4911.2 µg/L	26.67	4911.2 ppb	26.67	0.54%
QC value within limits for Ca 317.933Radial Recovery = 98.22%						
Cd 226.502†	76659.8	478.54 µg/L	1.594	478.54 ppb	1.594	0.33%
QC value within limits for Cd 226.502 Recovery = 95.71%						
Co 228.616†	38981.3	481.22 µg/L	1.892	481.22 ppb	1.892	0.39%

QC value within limits for Co 228.616 Recovery = 96.24%							
Cr 267.716†	60985.7	477.51 µg/L	1.423	477.51 ppb	1.423	0.30%	
QC value within limits for Cr 267.716 Recovery = 95.50%							
Cu 324.752†	122633.6	478.07 µg/L	1.603	478.07 ppb	1.603	0.34%	
QC value within limits for Cu 324.752 Recovery = 95.61%							
Fe 238.204 Radial†	79336.4	4889.8 µg/L	18.48	4889.8 ppb	18.48	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 97.80%							
K 766.490 Radial†	13417.0	4908.2 µg/L	14.87	4908.2 ppb	14.87	0.30%	
QC value within limits for K 766.490 Radial Recovery = 98.16%							
Mg 279.077 IEC†	13399.6	5000.1 µg/L	39.49	5000.1 ppb	39.49	0.79%	
QC value within limits for Mg 279.077 IEC Recovery = 100.00%							
Mn 257.610†	389702.9	481.97 µg/L	1.712	481.97 ppb	1.712	0.36%	
QC value within limits for Mn 257.610 Recovery = 96.39%							
Mo 202.031†	16413.1	482.80 µg/L	1.864	482.80 ppb	1.864	0.39%	
QC value within limits for Mo 202.031 Recovery = 96.56%							
Na 589.592 Radial†	70765.0	9663.0 µg/L	23.10	9663.0 ppb	23.10	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 96.63%							
Ni 231.604†	41663.0	479.72 µg/L	1.203	479.72 ppb	1.203	0.25%	
QC value within limits for Ni 231.604 Recovery = 95.94%							
P 214.914†	11315.0	2411.8 µg/L	12.10	2411.8 ppb	12.10	0.50%	
QC value within limits for P 214.914 Recovery = 96.47%							
Pb 220.353†	8719.0	488.25 µg/L	1.215	488.25 ppb	1.215	0.25%	
QC value within limits for Pb 220.353 Recovery = 97.65%							
S 181.975 Axial†	1288.2	960.66 µg/L	6.158	960.66 ppb	6.158	0.64%	
QC value within limits for S 181.975 Axial Recovery = 96.07%							
Sb 206.836†	4053.9	483.08 µg/L	1.155	483.08 ppb	1.155	0.24%	
QC value within limits for Sb 206.836 Recovery = 96.62%							
Se 196.026†	1335.2	485 µg/L	3.6	485 ppb	3.6	0.74%	
QC value within limits for Se 196.026 Recovery = 96.96%							
SiO2†	53297.6	5188.7 µg/L	10.99	5188.7 ppb	10.99	0.21%	
QC value within limits for SiO2 Recovery = 97.03%							
Si 251.611†	165754.2	2434.1 µg/L	2.66	2434.1 ppb	2.66	0.11%	
QC value within limits for Si 251.611 Recovery = 97.36%							
Sn 189.927†	7765.4	485.71 µg/L	2.782	485.71 ppb	2.782	0.57%	
QC value within limits for Sn 189.927 Recovery = 97.14%							
Sr 421.552†	234474.7	487.42 µg/L	7.692	487.42 ppb	7.692	1.58%	
QC value within limits for Sr 421.552 Recovery = 97.48%							
Ti 334.940†	513756.2	479.37 µg/L	1.105	479.37 ppb	1.105	0.23%	
QC value within limits for Ti 334.940 Recovery = 95.87%							
Tl 190.801†	3949.2	492.42 µg/L	2.733	492.42 ppb	2.733	0.56%	
QC value within limits for Tl 190.801 Recovery = 98.48%							
U 409.014†	7518.8	468.68 µg/L	3.825	468.68 ppb	3.825	0.82%	
QC value within limits for U 409.014 Recovery = 93.74%							
V 292.402†	97493.1	481.98 µg/L	1.241	481.98 ppb	1.241	0.26%	
QC value within limits for V 292.402 Recovery = 96.40%							
Zn 213.857†	85530.5	476.69 µg/L	2.032	476.69 ppb	2.032	0.43%	
QC value within limits for Zn 213.857 Recovery = 95.34%							

All analyte(s) passed QC.

Sequence No.: 69

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 21:57:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143488.6	143488.6	98.3 %		21:58:23
1	Al 396.153Radial†	-31.2	31.5	5.8461 µg/L	5.8461 ppb	21:58:43
1	Ca 317.933Radial†	626.0	76.1	4.2401 µg/L	4.2401 ppb	21:58:43
1	Fe 238.204 Radial†	255.1	111.3	6.8602 µg/L	6.8602 ppb	21:58:43
1	K 766.490 Radial†	1658.0	141.4	51.764 µg/L	51.764 ppb	21:58:23
1	Mg 279.077 IEC†	183.2	-4.4	-1.6504 µg/L	-1.6504 ppb	21:58:43
1	Na 589.592 Radial†	1420.1	153.5	20.919 µg/L	20.919 ppb	21:58:23
1	Sr 421.552†	-123.6	9.6	0.0200 µg/L	0.0200 ppb	21:58:23
1	Sc 361.383	1741228.6	1741228.6	101.34 %		21:59:30
1	Y 371.029	1041005.9	1041005.9	101.39 %		21:59:30
1	Ag 328.068†	3951.0	-192.6	-0.7198 µg/L	-0.7198 ppb	21:59:33
1	As 188.979†	-17.3	3.3	0.9894 µg/L	0.9894 ppb	21:59:53
1	B 249.677†	3598.6	45.2	0.6651 µg/L	0.6651 ppb	21:59:33
1	Ba 233.527†	-97.3	39.9	0.1606 µg/L	0.1606 ppb	21:59:53
1	Be 313.107†	-658.8	414.6	0.1114 µg/L	0.1114 ppb	21:59:33
1	Cd 226.502†	-98.4	21.1	0.1311 µg/L	0.1311 ppb	21:59:53
1	Co 228.616†	-161.8	30.7	0.3780 µg/L	0.3780 ppb	21:59:53
1	Cr 267.716†	182.4	1.5	0.0155 µg/L	0.0155 ppb	21:59:53
1	Cu 324.752†	3144.1	130.4	0.5038 µg/L	0.5038 ppb	21:59:33
1	Mn 257.610†	336.5	94.8	0.1174 µg/L	0.1174 ppb	21:59:53
1	Mo 202.031†	-24.2	-3.8	-0.1104 µg/L	-0.1104 ppb	21:59:53
1	Ni 231.604†	-79.3	-1.7	-0.0200 µg/L	-0.0200 ppb	21:59:53
1	P 214.914†	-16.3	1.8	0.3858 µg/L	0.3858 ppb	21:59:53
1	Pb 220.353†	84.1	-3.4	-0.1849 µg/L	-0.1849 ppb	21:59:53
1	S 181.975 Axial†	105.7	-0.8	-0.5879 µg/L	-0.5879 ppb	21:59:53
1	Sb 206.836†	91.1	9.1	1.0753 µg/L	1.0753 ppb	21:59:53
1	Se 196.026†	16.7	1.2	0.419 µg/L	0.419 ppb	21:59:53
1	SiO2†	1811.1	11.8	1.1639 µg/L	1.1639 ppb	21:59:53
1	Si 251.611†	939.6	90.6	1.3388 µg/L	1.3388 ppb	21:59:33
1	Sn 189.927†	-4.7	-3.6	-0.2217 µg/L	-0.2217 ppb	21:59:53
1	Ti 334.940†	1178.8	210.6	0.1990 µg/L	0.1990 ppb	21:59:33
1	Tl 190.801†	-99.6	18.4	2.2591 µg/L	2.2591 ppb	21:59:53
1	U 409.014†	-357.9	-83.3	-4.8719 µg/L	-4.8719 ppb	21:59:33
1	V 292.402†	400.4	-8.7	-0.0477 µg/L	-0.0477 ppb	21:59:33
1	Zn 213.857†	586.5	14.3	0.0794 µg/L	0.0794 ppb	21:59:53
2	Sc RADIAL	142543.2	142543.2	97.7 %		21:58:45
2	Al 396.153Radial†	-54.4	7.5	1.4064 µg/L	1.4064 ppb	21:59:05
2	Ca 317.933Radial†	611.6	65.6	3.6535 µg/L	3.6535 ppb	21:59:05
2	Fe 238.204 Radial†	253.5	111.4	6.8653 µg/L	6.8653 ppb	21:59:05
2	K 766.490 Radial†	1678.4	173.5	63.518 µg/L	63.518 ppb	21:58:45
2	Mg 279.077 IEC†	176.5	-10.0	-3.7286 µg/L	-3.7286 ppb	21:59:05
2	Na 589.592 Radial†	1442.2	185.7	25.313 µg/L	25.313 ppb	21:58:45
2	Sr 421.552†	-245.0	-115.6	-0.2403 µg/L	-0.2403 ppb	21:58:45
2	Sc 361.383	1719454.2	1719454.2	100.07 %		21:59:55
2	Y 371.029	1027865.1	1027865.1	100.11 %		21:59:55
2	Ag 328.068†	4168.7	74.3	0.2835 µg/L	0.2835 ppb	21:59:57
2	As 188.979†	-13.3	7.1	2.1498 µg/L	2.1498 ppb	22:00:17
2	B 249.677†	3486.4	-22.0	-0.3249 µg/L	-0.3249 ppb	21:59:57
2	Ba 233.527†	-114.3	21.7	0.0871 µg/L	0.0871 ppb	22:00:17
2	Be 313.107†	-912.6	152.8	0.0438 µg/L	0.0438 ppb	21:59:57
2	Cd 226.502†	-107.0	11.3	0.0695 µg/L	0.0695 ppb	22:00:17
2	Co 228.616†	-180.3	10.1	0.1246 µg/L	0.1246 ppb	22:00:17
2	Cr 267.716†	201.1	22.4	0.1701 µg/L	0.1701 ppb	22:00:17
2	Cu 324.752†	3016.0	41.6	0.1688 µg/L	0.1688 ppb	21:59:57
2	Mn 257.610†	311.1	73.6	0.0912 µg/L	0.0912 ppb	22:00:17
2	Mo 202.031†	-34.1	-14.0	-0.4113 µg/L	-0.4113 ppb	22:00:17
2	Ni 231.604†	-98.0	-21.4	-0.2463 µg/L	-0.2463 ppb	22:00:17
2	P 214.914†	-36.4	-18.4	-3.9363 µg/L	-3.9363 ppb	22:00:17
2	Pb 220.353†	83.9	-2.5	-0.1482 µg/L	-0.1482 ppb	22:00:17

2	S 181.975 Axial†	99.2	-5.9	-4.3840 µg/L	-4.3840 ppb	22:00:17
2	Sb 206.836†	64.9	-16.0	-1.9121 µg/L	-1.9121 ppb	22:00:17
2	Se 196.026†	15.3	0.0	0.021 µg/L	0.021 ppb	22:00:17
2	SiO2†	1788.3	11.6	1.1476 µg/L	1.1476 ppb	22:00:17
2	Si 251.611†	930.7	93.5	1.3835 µg/L	1.3835 ppb	21:59:57
2	Sn 189.927†	-0.8	0.3	0.0189 µg/L	0.0189 ppb	22:00:17
2	Ti 334.940†	1073.2	119.9	0.1093 µg/L	0.1093 ppb	21:59:57
2	Tl 190.801†	-128.3	-11.5	-1.4187 µg/L	-1.4187 ppb	22:00:17
2	U 409.014†	-143.3	126.7	7.4052 µg/L	7.4052 ppb	21:59:57
2	V 292.402†	396.1	-8.0	-0.0385 µg/L	-0.0385 ppb	21:59:57
2	Zn 213.857†	572.5	7.7	0.0442 µg/L	0.0442 ppb	22:00:17
3	Sc RADIAL	144454.1	144454.1	99.0 %		21:59:07
3	Al 396.153Radial†	-50.8	11.9	2.2219 µg/L	2.2219 ppb	21:59:27
3	Ca 317.933Radial†	619.6	65.3	3.6394 µg/L	3.6394 ppb	21:59:27
3	Fe 238.204 Radial†	231.3	85.6	5.2750 µg/L	5.2750 ppb	21:59:27
3	K 766.490 Radial†	1512.1	-17.2	-6.3033 µg/L	-6.3033 ppb	21:59:07
3	Mg 279.077 IEC†	192.0	3.2	1.1976 µg/L	1.1976 ppb	21:59:27
3	Na 589.592 Radial†	1347.2	70.1	9.5868 µg/L	9.5868 ppb	21:59:07
3	Sr 421.552†	-129.4	4.5	0.0094 µg/L	0.0094 ppb	21:59:07
3	Sc 361.383	1726759.9	1726759.9	100.50 %		22:00:19
3	Y 371.029	1032580.6	1032580.6	100.57 %		22:00:19
3	Ag 328.068†	4194.8	82.6	0.3040 µg/L	0.3040 ppb	22:00:21
3	As 188.979†	-19.7	0.7	0.2129 µg/L	0.2129 ppb	22:00:41
3	B 249.677†	3651.6	127.6	1.8815 µg/L	1.8815 ppb	22:00:21
3	Ba 233.527†	-116.8	19.7	0.0794 µg/L	0.0794 ppb	22:00:41
3	Be 313.107†	-870.8	198.2	0.0524 µg/L	0.0524 ppb	22:00:21
3	Cd 226.502†	-85.6	33.0	0.2057 µg/L	0.2057 ppb	22:00:41
3	Co 228.616†	-171.1	20.1	0.2475 µg/L	0.2475 ppb	22:00:41
3	Cr 267.716†	156.8	-22.6	-0.1724 µg/L	-0.1724 ppb	22:00:41
3	Cu 324.752†	2930.7	-56.0	-0.2209 µg/L	-0.2209 ppb	22:00:21
3	Mn 257.610†	308.3	69.5	0.0859 µg/L	0.0859 ppb	22:00:41
3	Mo 202.031†	-28.4	-8.1	-0.2389 µg/L	-0.2389 ppb	22:00:41
3	Ni 231.604†	-67.6	9.2	0.1060 µg/L	0.1060 ppb	22:00:41
3	P 214.914†	-14.4	3.6	0.7813 µg/L	0.7813 ppb	22:00:41
3	Pb 220.353†	81.9	-4.8	-0.2670 µg/L	-0.2670 ppb	22:00:41
3	S 181.975 Axial†	100.0	-5.5	-4.1081 µg/L	-4.1081 ppb	22:00:41
3	Sb 206.836†	58.7	-22.4	-2.6589 µg/L	-2.6589 ppb	22:00:41
3	Se 196.026†	9.4	-5.9	-2.14 µg/L	-2.14 ppb	22:00:41
3	SiO2†	1781.8	-2.4	-0.2353 µg/L	-0.2353 ppb	22:00:41
3	Si 251.611†	974.4	133.0	1.9607 µg/L	1.9607 ppb	22:00:21
3	Sn 189.927†	6.8	7.8	0.4886 µg/L	0.4886 ppb	22:00:41
3	Ti 334.940†	1012.5	55.0	0.0535 µg/L	0.0535 ppb	22:00:21
3	Tl 190.801†	-115.8	1.4	0.1780 µg/L	0.1780 ppb	22:00:41
3	U 409.014†	-360.3	-88.6	-5.1619 µg/L	-5.1619 ppb	22:00:21
3	V 292.402†	483.1	77.0	0.3681 µg/L	0.3681 ppb	22:00:21
3	Zn 213.857†	572.8	5.5	0.0300 µg/L	0.0300 ppb	22:00:41

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729147.6	100.64 %	0.645			0.64%
Sc RADIAL	143495.3	98.3 %	0.65			0.67%
Y 371.029	1033817.2	100.69 %	0.648			0.64%
Ag 328.068†	-11.9	-0.0441 µg/L	0.58526	-0.0441 ppb	0.58526	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.0	3.1581 µg/L	2.36331	3.1581 ppb	2.36331	74.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.7	1.1173 µg/L	0.97478	1.1173 ppb	0.97478	87.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	50.3	0.7405 µg/L	1.10513	0.7405 ppb	1.10513	149.23%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	27.1	0.1090 µg/L	0.04480	0.1090 ppb	0.04480	41.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	255.2	0.0692 µg/L	0.03680	0.0692 ppb	0.03680	53.16%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	69.0	3.8443 µg/L	0.34280	3.8443 ppb	0.34280	8.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	21.8	0.1354 µg/L	0.06821	0.1354 ppb	0.06821	50.36%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	20.3	0.2500 µg/L	0.12669	0.2500 ppb	0.12669	50.67%

Cr	267.716†	0.4	0.0044 µg/L	0.17156	0.0044 ppb	0.17156 >999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	38.7	0.1505 µg/L	0.36269	0.1505 ppb	0.36269 240.92%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	102.8	6.3335 µg/L	0.91666	6.3335 ppb	0.91666 14.47%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	99.2	36.326 µg/L	37.3832	36.326 ppb	37.3832 102.91%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	-3.7	-1.3938 µg/L	2.47310	-1.3938 ppb	2.47310 177.43%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	79.3	0.0982 µg/L	0.01685	0.0982 ppb	0.01685 17.17%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	-8.6	-0.2535 µg/L	0.15099	-0.2535 ppb	0.15099 59.56%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	136.4	18.606 µg/L	8.1142	18.606 ppb	8.1142 43.61%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	-4.6	-0.0534 µg/L	0.17854	-0.0534 ppb	0.17854 334.31%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-4.3	-0.9231 µg/L	2.61701	-0.9231 ppb	2.61701 283.51%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	-3.6	-0.2000 µg/L	0.06080	-0.2000 ppb	0.06080 30.40%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	-4.1	-3.0267 µg/L	2.11654	-3.0267 ppb	2.11654 69.93%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	-9.8	-1.1652 µg/L	1.97594	-1.1652 ppb	1.97594 169.57%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-1.6	-0.566 µg/L	1.3761	-0.566 ppb	1.3761 243.25%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†		7.0	0.6921 µg/L	0.80317	0.6921 ppb	0.80317 116.05%
QC value within limits for SiO2 Recovery = Not calculated						
Si	251.611†	105.7	1.5610 µg/L	0.34690	1.5610 ppb	0.34690 22.22%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	1.5	0.0953 µg/L	0.36125	0.0953 ppb	0.36125 379.10%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	-33.8	-0.0703 µg/L	0.14733	-0.0703 ppb	0.14733 209.53%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	128.5	0.1206 µg/L	0.07341	0.1206 ppb	0.07341 60.86%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	2.8	0.3394 µg/L	1.84422	0.3394 ppb	1.84422 543.31%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	-15.1	-0.8762 µg/L	7.17337	-0.8762 ppb	7.17337 818.68%
QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	20.1	0.0940 µg/L	0.23744	0.0940 ppb	0.23744 252.67%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	9.2	0.0512 µg/L	0.02545	0.0512 ppb	0.02545 49.72%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 77

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 22:12:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144265.2	144265.2	98.9 %			22:13:29
1	Al 396.153Radial†	26382.4	26750.0	4937.0 µg/L	4937.0 ppb	4937.0 ppb	22:13:29
1	Ca 317.933Radial†	86791.9	87232.7	4859.2 µg/L	4859.2 ppb	4859.2 ppb	22:13:29
1	Fe 238.204 Radial†	77447.1	78192.6	4819.3 µg/L	4819.3 ppb	4819.3 ppb	22:13:29
1	K 766.490 Radial†	14619.5	13243.4	4844.7 µg/L	4844.7 ppb	4844.7 ppb	22:13:29
1	Mg 279.077 IEC†	13211.3	13173.0	4915.8 µg/L	4915.8 ppb	4915.8 ppb	22:13:29
1	Na 589.592 Radial†	70822.8	70349.2	9606.2 µg/L	9606.2 ppb	9606.2 ppb	22:13:29
1	Sr 421.552†	230249.1	233041.1	484.44 µg/L	484.44 ppb	484.44 ppb	22:13:27
1	Sc 361.383	1718218.3	1718218.3	100.00 %			22:13:42
1	Y 371.029	1017558.5	1017558.5	99.111 %			22:13:42
1	Ag 328.068†	131861.6	127770.2	479.08 µg/L	479.08 ppb	479.08 ppb	22:13:42
1	As 188.979†	1610.7	1631.1	500.23 µg/L	500.23 ppb	500.23 ppb	22:14:02
1	B 249.677†	35422.2	31916.3	469.05 µg/L	469.05 ppb	469.05 ppb	22:13:42
1	Ba 233.527†	118202.1	118337.9	477.26 µg/L	477.26 ppb	477.26 ppb	22:13:42
1	Be 313.107†	1762457.8	1763521.9	480.31 µg/L	480.31 ppb	480.31 ppb	22:13:42
1	Cd 226.502†	75826.8	75945.0	474.08 µg/L	474.08 ppb	474.08 ppb	22:13:42
1	Co 228.616†	38510.6	38700.9	477.76 µg/L	477.76 ppb	477.76 ppb	22:13:42
1	Cr 267.716†	60814.9	60636.3	474.77 µg/L	474.77 ppb	474.77 ppb	22:13:42
1	Cu 324.752†	125406.1	122433.9	477.29 µg/L	477.29 ppb	477.29 ppb	22:13:42
1	Mn 257.610†	388459.2	388221.8	480.14 µg/L	480.14 ppb	480.14 ppb	22:13:42
1	Mo 202.031†	16438.1	16458.2	484.12 µg/L	484.12 ppb	484.12 ppb	22:14:02
1	Ni 231.604†	41348.4	41424.9	476.98 µg/L	476.98 ppb	476.98 ppb	22:13:42
1	P 214.914†	11268.3	11286.3	2405.7 µg/L	2405.7 ppb	2405.7 ppb	22:14:02
1	Pb 220.353†	8791.6	8705.2	487.48 µg/L	487.48 ppb	487.48 ppb	22:14:02
1	S 181.975 Axial†	1392.6	1287.6	960.21 µg/L	960.21 ppb	960.21 ppb	22:14:02
1	Sb 206.836†	4153.0	4072.2	485.30 µg/L	485.30 ppb	485.30 ppb	22:14:02
1	Se 196.026†	1350.2	1334.9	485 µg/L	485 ppb	485 ppb	22:14:02
1	SiO2†	54803.6	53028.2	5162.3 µg/L	5162.3 ppb	5162.3 ppb	22:13:42
1	Si 251.611†	165311.8	164475.2	2415.2 µg/L	2415.2 ppb	2415.2 ppb	22:13:42
1	Sn 189.927†	7742.7	7743.8	484.36 µg/L	484.36 ppb	484.36 ppb	22:14:02
1	Ti 334.940†	513691.3	512738.5	478.42 µg/L	478.42 ppb	478.42 ppb	22:13:42
1	Tl 190.801†	3841.3	3958.0	493.49 µg/L	493.49 ppb	493.49 ppb	22:14:02
1	U 409.014†	7369.5	7639.3	475.58 µg/L	475.58 ppb	475.58 ppb	22:13:42
1	V 292.402†	97334.2	96930.4	479.25 µg/L	479.25 ppb	479.25 ppb	22:13:42
1	Zn 213.857†	85434.2	84869.8	473.01 µg/L	473.01 ppb	473.01 ppb	22:13:42
2	Sc RADIAL	145847.8	145847.8	99.9 %			22:13:33
2	Al 396.153Radial†	26431.3	26509.4	4892.7 µg/L	4892.7 ppb	4892.7 ppb	22:13:33
2	Ca 317.933Radial†	87616.4	87105.0	4852.1 µg/L	4852.1 ppb	4852.1 ppb	22:13:33
2	Fe 238.204 Radial†	78290.7	78186.6	4818.9 µg/L	4818.9 ppb	4818.9 ppb	22:13:33
2	K 766.490 Radial†	14711.5	13175.0	4819.6 µg/L	4819.6 ppb	4819.6 ppb	22:13:33
2	Mg 279.077 IEC†	13383.0	13199.9	4925.6 µg/L	4925.6 ppb	4925.6 ppb	22:13:33
2	Na 589.592 Radial†	71537.8	70287.2	9597.8 µg/L	9597.8 ppb	9597.8 ppb	22:13:33
2	Sr 421.552†	230007.1	230271.7	478.68 µg/L	478.68 ppb	478.68 ppb	22:13:31
2	Sc 361.383	1739608.4	1739608.4	101.24 %			22:14:05
2	Y 371.029	1028848.9	1028848.9	100.21 %			22:14:05
2	Ag 328.068†	134324.7	128581.6	482.14 µg/L	482.14 ppb	482.14 ppb	22:14:05
2	As 188.979†	1606.6	1607.2	493.02 µg/L	493.02 ppb	493.02 ppb	22:14:25
2	B 249.677†	36291.4	32339.3	475.28 µg/L	475.28 ppb	475.28 ppb	22:14:05
2	Ba 233.527†	120672.3	119324.3	481.23 µg/L	481.23 ppb	481.23 ppb	22:14:05
2	Be 313.107†	1801555.4	1780467.6	484.92 µg/L	484.92 ppb	484.92 ppb	22:14:05
2	Cd 226.502†	77540.6	76705.4	478.83 µg/L	478.83 ppb	478.83 ppb	22:14:05
2	Co 228.616†	39324.4	39031.1	481.84 µg/L	481.84 ppb	481.84 ppb	22:14:05
2	Cr 267.716†	61962.6	61022.1	477.79 µg/L	477.79 ppb	477.79 ppb	22:14:05
2	Cu 324.752†	127723.3	123180.5	480.19 µg/L	480.19 ppb	480.19 ppb	22:14:05
2	Mn 257.610†	396691.5	391576.4	484.29 µg/L	484.29 ppb	484.29 ppb	22:14:05
2	Mo 202.031†	16408.8	16227.1	477.33 µg/L	477.33 ppb	477.33 ppb	22:14:25
2	Ni 231.604†	42066.6	41625.8	479.29 µg/L	479.29 ppb	479.29 ppb	22:14:05
2	P 214.914†	11256.1	11135.6	2373.5 µg/L	2373.5 ppb	2373.5 ppb	22:14:25
2	Pb 220.353†	8760.6	8566.5	479.72 µg/L	479.72 ppb	479.72 ppb	22:14:25

2	S 181.975 Axial†	1379.1	1257.1	937.49 µg/L	937.49 ppb	22:14:25
2	Sb 206.836†	4126.7	3995.1	476.00 µg/L	476.00 ppb	22:14:25
2	Se 196.026†	1344.9	1313.1	477 µg/L	477 ppb	22:14:25
2	SiO2†	55878.0	53415.5	5200.4 µg/L	5200.4 ppb	22:14:05
2	Si 251.611†	168787.2	165875.2	2436.0 µg/L	2436.0 ppb	22:14:05
2	Sn 189.927†	7780.5	7685.9	480.76 µg/L	480.76 ppb	22:14:25
2	Ti 334.940†	523148.0	515762.7	481.24 µg/L	481.24 ppb	22:14:05
2	Tl 190.801†	3840.1	3909.5	487.59 µg/L	487.59 ppb	22:14:25
2	U 409.014†	7476.8	7654.7	476.77 µg/L	476.77 ppb	22:14:05
2	V 292.402†	99532.4	97904.8	483.95 µg/L	483.95 ppb	22:14:05
2	Zn 213.857†	87491.3	85851.1	478.50 µg/L	478.50 ppb	22:14:05
3	Sc RADIAL	145510.3	145510.3	99.7 %		22:13:37
3	Al 396.153Radial†	26649.3	26789.4	4944.6 µg/L	4944.6 ppb	22:13:37
3	Ca 317.933Radial†	87905.2	87598.0	4879.6 µg/L	4879.6 ppb	22:13:37
3	Fe 238.204 Radial†	78514.4	78592.6	4844.0 µg/L	4844.0 ppb	22:13:37
3	K 766.490 Radial†	14626.3	13123.7	4800.8 µg/L	4800.8 ppb	22:13:37
3	Mg 279.077 IEC†	13367.9	13215.7	4931.5 µg/L	4931.5 ppb	22:13:37
3	Na 589.592 Radial†	71662.6	70578.3	9637.6 µg/L	9637.6 ppb	22:13:37
3	Sr 421.552†	228923.8	229719.0	477.53 µg/L	477.53 ppb	22:13:35
3	Sc 361.383	1738267.6	1738267.6	101.17 %		22:14:28
3	Y 371.029	1027936.3	1027936.3	100.12 %		22:14:28
3	Ag 328.068†	134212.1	128572.7	482.09 µg/L	482.09 ppb	22:14:28
3	As 188.979†	1598.1	1600.0	490.84 µg/L	490.84 ppb	22:14:48
3	B 249.677†	36163.6	32240.6	473.82 µg/L	473.82 ppb	22:14:28
3	Ba 233.527†	120556.5	119301.7	481.14 µg/L	481.14 ppb	22:14:28
3	Be 313.107†	1796851.1	1777190.1	484.03 µg/L	484.03 ppb	22:14:28
3	Cd 226.502†	77464.7	76689.4	478.73 µg/L	478.73 ppb	22:14:28
3	Co 228.616†	39399.0	39134.9	483.12 µg/L	483.12 ppb	22:14:28
3	Cr 267.716†	61725.8	60835.3	476.33 µg/L	476.33 ppb	22:14:28
3	Cu 324.752†	127349.1	122907.9	479.13 µg/L	479.13 ppb	22:14:28
3	Mn 257.610†	395160.9	390365.7	482.79 µg/L	482.79 ppb	22:14:28
3	Mo 202.031†	16361.5	16192.8	476.33 µg/L	476.33 ppb	22:14:48
3	Ni 231.604†	41980.9	41573.2	478.68 µg/L	478.68 ppb	22:14:28
3	P 214.914†	11184.1	11073.0	2360.1 µg/L	2360.1 ppb	22:14:48
3	Pb 220.353†	8741.7	8554.5	479.05 µg/L	479.05 ppb	22:14:48
3	S 181.975 Axial†	1393.5	1272.4	948.88 µg/L	948.88 ppb	22:14:48
3	Sb 206.836†	4119.1	3990.8	475.48 µg/L	475.48 ppb	22:14:48
3	Se 196.026†	1344.8	1314.0	477 µg/L	477 ppb	22:14:48
3	SiO2†	55631.5	53214.4	5180.9 µg/L	5180.9 ppb	22:14:28
3	Si 251.611†	168426.4	165647.1	2432.6 µg/L	2432.6 ppb	22:14:28
3	Sn 189.927†	7707.1	7619.3	476.60 µg/L	476.60 ppb	22:14:48
3	Ti 334.940†	521295.0	514329.6	479.91 µg/L	479.91 ppb	22:14:28
3	Tl 190.801†	3816.8	3889.5	485.09 µg/L	485.09 ppb	22:14:48
3	U 409.014†	7397.3	7581.9	472.42 µg/L	472.42 ppb	22:14:28
3	V 292.402†	99170.7	97623.1	482.55 µg/L	482.55 ppb	22:14:28
3	Zn 213.857†	87280.4	85709.2	477.71 µg/L	477.71 ppb	22:14:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732031.4	100.80 %	0.697			0.69%
Sc RADIAL	145207.8	99.5 %	0.57			0.57%
Y 371.029	1024781.2	99.814 %	0.6109			0.61%
Ag 328.068†	128308.2	481.10 µg/L	1.752	481.10 ppb	1.752	0.36%
QC value within limits for Ag 328.068 Recovery = 96.22%						
Al 396.153Radial†	26682.9	4924.7 µg/L	28.05	4924.7 ppb	28.05	0.57%
QC value within limits for Al 396.153Radial Recovery = 98.49%						
As 188.979†	1612.8	494.70 µg/L	4.918	494.70 ppb	4.918	0.99%
QC value within limits for As 188.979 Recovery = 98.94%						
B 249.677†	32165.4	472.71 µg/L	3.255	472.71 ppb	3.255	0.69%
QC value within limits for B 249.677 Recovery = 94.54%						
Ba 233.527†	118988.0	479.88 µg/L	2.269	479.88 ppb	2.269	0.47%
QC value within limits for Ba 233.527 Recovery = 95.98%						
Be 313.107†	1773726.5	483.09 µg/L	2.447	483.09 ppb	2.447	0.51%
QC value within limits for Be 313.107 Recovery = 96.62%						
Ca 317.933Radial†	87311.9	4863.6 µg/L	14.25	4863.6 ppb	14.25	0.29%
QC value within limits for Ca 317.933Radial Recovery = 97.27%						
Cd 226.502†	76446.6	477.21 µg/L	2.714	477.21 ppb	2.714	0.57%
QC value within limits for Cd 226.502 Recovery = 95.44%						
Co 228.616†	38955.6	480.91 µg/L	2.798	480.91 ppb	2.798	0.58%

QC value within limits for Co 228.616 Recovery = 96.18%					
Cr 267.716†	60831.2	476.30 µg/L	1.512	476.30 ppb	0.32%
QC value within limits for Cr 267.716 Recovery = 95.26%					
Cu 324.752†	122840.8	478.87 µg/L	1.470	478.87 ppb	0.31%
QC value within limits for Cu 324.752 Recovery = 95.77%					
Fe 238.204 Radial†	78324.0	4827.4 µg/L	14.34	4827.4 ppb	0.30%
QC value within limits for Fe 238.204 Radial Recovery = 96.55%					
K 766.490 Radial†	13180.7	4821.7 µg/L	21.99	4821.7 ppb	0.46%
QC value within limits for K 766.490 Radial Recovery = 96.43%					
Mg 279.077 IEC†	13196.2	4924.3 µg/L	7.93	4924.3 ppb	0.16%
QC value within limits for Mg 279.077 IEC Recovery = 98.49%					
Mn 257.610†	390054.6	482.41 µg/L	2.102	482.41 ppb	0.44%
QC value within limits for Mn 257.610 Recovery = 96.48%					
Mo 202.031†	16292.7	479.26 µg/L	4.241	479.26 ppb	0.88%
QC value within limits for Mo 202.031 Recovery = 95.85%					
Na 589.592 Radial†	70404.9	9613.9 µg/L	20.97	9613.9 ppb	0.22%
QC value within limits for Na 589.592 Radial Recovery = 96.14%					
Ni 231.604†	41541.3	478.32 µg/L	1.200	478.32 ppb	0.25%
QC value within limits for Ni 231.604 Recovery = 95.66%					
P 214.914†	11165.0	2379.7 µg/L	23.45	2379.7 ppb	0.99%
QC value within limits for P 214.914 Recovery = 95.19%					
Pb 220.353†	8608.8	482.08 µg/L	4.685	482.08 ppb	0.97%
QC value within limits for Pb 220.353 Recovery = 96.42%					
S 181.975 Axial†	1272.4	948.86 µg/L	11.360	948.86 ppb	1.20%
QC value within limits for S 181.975 Axial Recovery = 94.89%					
Sb 206.836†	4019.3	478.92 µg/L	5.524	478.92 ppb	1.15%
QC value within limits for Sb 206.836 Recovery = 95.78%					
Se 196.026†	1320.7	480 µg/L	4.5	480 ppb	0.93%
QC value within limits for Se 196.026 Recovery = 95.91%					
SiO2†	53219.4	5181.2 µg/L	19.05	5181.2 ppb	0.37%
QC value within limits for SiO2 Recovery = 96.89%					
Si 251.611†	165332.5	2427.9 µg/L	11.15	2427.9 ppb	0.46%
QC value within limits for Si 251.611 Recovery = 97.12%					
Sn 189.927†	7683.0	480.57 µg/L	3.879	480.57 ppb	0.81%
QC value within limits for Sn 189.927 Recovery = 96.11%					
Sr 421.552†	231010.6	480.22 µg/L	3.701	480.22 ppb	0.77%
QC value within limits for Sr 421.552 Recovery = 96.04%					
Ti 334.940†	514276.9	479.86 µg/L	1.412	479.86 ppb	0.29%
QC value within limits for Ti 334.940 Recovery = 95.97%					
Tl 190.801†	3919.0	488.72 µg/L	4.311	488.72 ppb	0.88%
QC value within limits for Tl 190.801 Recovery = 97.74%					
U 409.014†	7625.3	474.92 µg/L	2.247	474.92 ppb	0.47%
QC value within limits for U 409.014 Recovery = 94.98%					
V 292.402†	97486.1	481.92 µg/L	2.411	481.92 ppb	0.50%
QC value within limits for V 292.402 Recovery = 96.38%					
Zn 213.857†	85476.7	476.40 µg/L	2.970	476.40 ppb	0.62%
QC value within limits for Zn 213.857 Recovery = 95.28%					

All analyte(s) passed QC.

Sequence No.: 78

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 22:14:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144616.5	144616.5	99.1 %			22:15:27
1	Al 396.153Radial†	-140.4	-78.5	-14.533 µg/L		-14.533 ppb	22:15:27
1	Ca 317.933Radial†	605.1	50.0	2.7853 µg/L		2.7853 ppb	22:15:47
1	Fe 238.204 Radial†	190.6	44.2	2.7255 µg/L		2.7255 ppb	22:15:47
1	K 766.490 Radial†	1690.5	161.1	58.992 µg/L		58.992 ppb	22:15:27
1	Mg 279.077 IEC†	189.8	0.8	0.2999 µg/L		0.2999 ppb	22:15:47
1	Na 589.592 Radial†	1316.3	37.4	5.0628 µg/L		5.0628 ppb	22:15:27
1	Sr 421.552†	-196.7	-63.2	-0.1315 µg/L		-0.1315 ppb	22:15:27
1	Sc 361.383	1731481.4	1731481.4	100.77 %			22:16:34
1	Y 371.029	1035707.2	1035707.2	100.88 %			22:16:34
1	Ag 328.068†	4207.6	84.0	0.3025 µg/L		0.3025 ppb	22:16:37
1	As 188.979†	-21.2	-0.7	-0.1971 µg/L		-0.1971 ppb	22:16:57
1	B 249.677†	3625.9	92.2	1.3590 µg/L		1.3590 ppb	22:16:37
1	Ba 233.527†	-157.7	-20.7	-0.0841 µg/L		-0.0841 ppb	22:16:57
1	Be 313.107†	-910.7	160.9	0.0444 µg/L		0.0444 ppb	22:16:37
1	Cd 226.502†	-114.4	4.7	0.0290 µg/L		0.0290 ppb	22:16:57
1	Co 228.616†	-176.3	15.4	0.1898 µg/L		0.1898 ppb	22:16:57
1	Cr 267.716†	195.1	15.0	0.1155 µg/L		0.1155 ppb	22:16:57
1	Cu 324.752†	2860.5	-133.6	-0.5170 µg/L		-0.5170 ppb	22:16:37
1	Mn 257.610†	321.7	82.0	0.1014 µg/L		0.1014 ppb	22:16:57
1	Mo 202.031†	-34.6	-14.3	-0.4198 µg/L		-0.4198 ppb	22:16:57
1	Ni 231.604†	-65.6	11.4	0.1312 µg/L		0.1312 ppb	22:16:57
1	P 214.914†	-28.4	-10.2	-2.1783 µg/L		-2.1783 ppb	22:16:57
1	Pb 220.353†	66.3	-20.6	-1.1536 µg/L		-1.1536 ppb	22:16:57
1	S 181.975 Axial†	101.3	-4.5	-3.3505 µg/L		-3.3505 ppb	22:16:57
1	Sb 206.836†	79.6	-1.9	-0.2288 µg/L		-0.2288 ppb	22:16:57
1	Se 196.026†	12.5	-2.8	-1.02 µg/L		-1.02 ppb	22:16:57
1	SiO2†	1786.4	-2.7	-0.2591 µg/L		-0.2591 ppb	22:16:57
1	Si 251.611†	1082.1	237.2	3.4988 µg/L		3.4988 ppb	22:16:37
1	Sn 189.927†	9.2	10.2	0.6390 µg/L		0.6390 ppb	22:16:57
1	Ti 334.940†	1075.1	114.3	0.1060 µg/L		0.1060 ppb	22:16:37
1	Tl 190.801†	-105.3	12.2	1.4953 µg/L		1.4953 ppb	22:16:57
1	U 409.014†	-238.6	33.2	1.8871 µg/L		1.8871 ppb	22:16:37
1	V 292.402†	220.7	-184.8	-0.9046 µg/L		-0.9046 ppb	22:16:37
1	Zn 213.857†	605.7	36.6	0.2048 µg/L		0.2048 ppb	22:16:57
2	Sc RADIAL	144344.2	144344.2	98.9 %			22:15:49
2	Al 396.153Radial†	-228.5	-167.8	-31.103 µg/L		-31.103 ppb	22:15:49
2	Ca 317.933Radial†	612.9	59.1	3.2922 µg/L		3.2922 ppb	22:16:09
2	Fe 238.204 Radial†	199.9	54.0	3.3254 µg/L		3.3254 ppb	22:16:09
2	K 766.490 Radial†	1458.2	-70.5	-25.815 µg/L		-25.815 ppb	22:15:49
2	Mg 279.077 IEC†	169.1	-19.8	-7.3659 µg/L		-7.3659 ppb	22:16:09
2	Na 589.592 Radial†	1297.4	20.8	2.8708 µg/L		2.8708 ppb	22:15:49
2	Sr 421.552†	-320.5	-188.8	-0.3925 µg/L		-0.3925 ppb	22:15:49
2	Sc 361.383	1722284.8	1722284.8	100.24 %			22:16:59
2	Y 371.029	1030621.8	1030621.8	100.38 %			22:16:59
2	Ag 328.068†	3896.9	-203.7	-0.7475 µg/L		-0.7475 ppb	22:17:01
2	As 188.979†	-7.9	12.5	3.7833 µg/L		3.7833 ppb	22:17:21
2	B 249.677†	3506.6	-7.6	-0.1120 µg/L		-0.1120 ppb	22:17:01
2	Ba 233.527†	-125.5	10.7	0.0428 µg/L		0.0428 ppb	22:17:21
2	Be 313.107†	-756.3	310.2	0.0866 µg/L		0.0866 ppb	22:17:01
2	Cd 226.502†	-110.8	7.7	0.0475 µg/L		0.0475 ppb	22:17:21
2	Co 228.616†	-191.9	-1.2	-0.0145 µg/L		-0.0145 ppb	22:17:21
2	Cr 267.716†	200.7	21.6	0.1639 µg/L		0.1639 ppb	22:17:21
2	Cu 324.752†	2989.4	10.2	0.0458 µg/L		0.0458 ppb	22:17:01
2	Mn 257.610†	314.3	76.3	0.0947 µg/L		0.0947 ppb	22:17:21
2	Mo 202.031†	-21.3	-1.1	-0.0337 µg/L		-0.0337 ppb	22:17:21
2	Ni 231.604†	-74.0	2.7	0.0313 µg/L		0.0313 ppb	22:17:21
2	P 214.914†	-16.7	1.3	0.2808 µg/L		0.2808 ppb	22:17:21
2	Pb 220.353†	91.3	4.7	0.2555 µg/L		0.2555 ppb	22:17:21

2	S 181.975 Axial†	95.8	-9.5	-7.0189 µg/L	-7.0189 ppb	22:17:21
2	Sb 206.836†	59.0	-22.0	-2.6184 µg/L	-2.6184 ppb	22:17:21
2	Se 196.026†	19.9	4.6	1.68 µg/L	1.68 ppb	22:17:21
2	SiO2†	1789.5	9.9	0.9655 µg/L	0.9655 ppb	22:17:21
2	Si 251.611†	1004.6	165.6	2.4397 µg/L	2.4397 ppb	22:17:01
2	Sn 189.927†	5.2	6.3	0.3919 µg/L	0.3919 ppb	22:17:21
2	Ti 334.940†	826.1	-128.4	-0.1222 µg/L	-0.1222 ppb	22:17:01
2	Tl 190.801†	-126.0	-9.1	-1.1150 µg/L	-1.1150 ppb	22:17:21
2	U 409.014†	-147.1	123.1	7.1898 µg/L	7.1898 ppb	22:17:01
2	V 292.402†	373.1	-31.5	-0.1489 µg/L	-0.1489 ppb	22:17:01
2	Zn 213.857†	593.5	27.6	0.1540 µg/L	0.1540 ppb	22:17:21
3	Sc RADIAL	145056.9	145056.9	99.4 %		22:16:11
3	Al 396.153Radial†	-231.1	-169.3	-31.367 µg/L	-31.367 ppb	22:16:11
3	Ca 317.933Radial†	599.6	42.6	2.3739 µg/L	2.3739 ppb	22:16:31
3	Fe 238.204 Radial†	195.6	48.6	2.9983 µg/L	2.9983 ppb	22:16:31
3	K 766.490 Radial†	1826.4	292.6	107.12 µg/L	107.12 ppb	22:16:11
3	Mg 279.077 IEC†	196.4	6.8	2.5372 µg/L	2.5372 ppb	22:16:31
3	Na 589.592 Radial†	1266.4	-16.8	-2.3909 µg/L	-2.3909 ppb	22:16:11
3	Sr 421.552†	-165.7	-31.4	-0.0654 µg/L	-0.0654 ppb	22:16:11
3	Sc 361.383	1742676.0	1742676.0	101.42 %		22:17:23
3	Y 371.029	1041139.7	1041139.7	101.41 %		22:17:23
3	Ag 328.068†	4264.5	113.3	0.4163 µg/L	0.4163 ppb	22:17:25
3	As 188.979†	-11.3	9.2	2.7834 µg/L	2.7834 ppb	22:17:45
3	B 249.677†	3554.8	-1.0	-0.0144 µg/L	-0.0144 ppb	22:17:25
3	Ba 233.527†	-135.5	2.2	0.0087 µg/L	0.0087 ppb	22:17:45
3	Be 313.107†	-714.6	360.1	0.0972 µg/L	0.0972 ppb	22:17:25
3	Cd 226.502†	-111.8	8.0	0.0493 µg/L	0.0493 ppb	22:17:45
3	Co 228.616†	-185.9	7.0	0.0867 µg/L	0.0867 ppb	22:17:45
3	Cr 267.716†	198.7	17.4	0.1382 µg/L	0.1382 ppb	22:17:45
3	Cu 324.752†	2855.8	-156.5	-0.6100 µg/L	-0.6100 ppb	22:17:25
3	Mn 257.610†	318.4	76.7	0.0948 µg/L	0.0948 ppb	22:17:45
3	Mo 202.031†	-37.1	-16.5	-0.4859 µg/L	-0.4859 ppb	22:17:45
3	Ni 231.604†	-94.7	-16.9	-0.1940 µg/L	-0.1940 ppb	22:17:45
3	P 214.914†	-18.0	0.2	0.0565 µg/L	0.0565 ppb	22:17:45
3	Pb 220.353†	70.5	-16.9	-0.9439 µg/L	-0.9439 ppb	22:17:45
3	S 181.975 Axial†	101.6	-4.9	-3.6429 µg/L	-3.6429 ppb	22:17:45
3	Sb 206.836†	72.7	-9.2	-1.0967 µg/L	-1.0967 ppb	22:17:45
3	Se 196.026†	9.5	-5.9	-2.14 µg/L	-2.14 ppb	22:17:45
3	SiO2†	1777.4	-22.9	-2.2297 µg/L	-2.2297 ppb	22:17:45
3	Si 251.611†	827.6	-20.5	-0.2986 µg/L	-0.2986 ppb	22:17:25
3	Sn 189.927†	4.4	5.4	0.3390 µg/L	0.3390 ppb	22:17:45
3	Ti 334.940†	1103.2	135.2	0.1273 µg/L	0.1273 ppb	22:17:25
3	Tl 190.801†	-112.8	5.5	0.6715 µg/L	0.6715 ppb	22:17:45
3	U 409.014†	-323.3	-48.8	-2.8536 µg/L	-2.8536 ppb	22:17:25
3	V 292.402†	418.1	8.4	0.0344 µg/L	0.0344 ppb	22:17:25
3	Zn 213.857†	602.9	30.0	0.1695 µg/L	0.1695 ppb	22:17:45

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732147.4	100.81 %	0.594			0.59%
Sc RADIAL	144672.5	99.1 %	0.25			0.25%
Y 371.029	1035822.9	100.89 %	0.512			0.51%
Ag 328.068†	-2.2	-0.0096 µg/L	0.64157	-0.0096 ppb	0.64157	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-138.5	-25.667 µg/L	9.6439	-25.667 ppb	9.6439	37.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.0	2.1232 µg/L	2.07069	2.1232 ppb	2.07069	97.53%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	27.9	0.4109 µg/L	0.82253	0.4109 ppb	0.82253	200.20%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.6	-0.0109 µg/L	0.06567	-0.0109 ppb	0.06567	605.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	277.1	0.0761 µg/L	0.02793	0.0761 ppb	0.02793	36.72%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	50.6	2.8171 µg/L	0.45995	2.8171 ppb	0.45995	16.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	6.8	0.0420 µg/L	0.01123	0.0420 ppb	0.01123	26.78%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	7.1	0.0873 µg/L	0.10216	0.0873 ppb	0.10216	116.98%

Cr	267.716†	18.0	0.1392 µg/L	0.02421	0.1392 ppb	0.02421	17.39%
Cu	324.752†	-93.3	-0.3604 µg/L	0.35483	-0.3604 ppb	0.35483	98.44%
Fe	238.204 Radial†	48.9	3.0164 µg/L	0.30037	3.0164 ppb	0.30037	9.96%
K	766.490 Radial†	127.7	46.766 µg/L	67.3062	46.766 ppb	67.3062	143.92%
Mg	279.077 IEC†	-4.0	-1.5096 µg/L	5.19362	-1.5096 ppb	5.19362	344.04%
Mn	257.610†	78.3	0.0969 µg/L	0.00386	0.0969 ppb	0.00386	3.98%
Mo	202.031†	-10.7	-0.3132 µg/L	0.24424	-0.3132 ppb	0.24424	77.99%
Na	589.592 Radial†	13.8	1.8476 µg/L	3.83078	1.8476 ppb	3.83078	207.34%
Ni	231.604†	-0.9	-0.0105 µg/L	0.16660	-0.0105 ppb	0.16660	>999.9%
P	214.914†	-2.9	-0.6137 µg/L	1.35968	-0.6137 ppb	1.35968	221.57%
Pb	220.353†	-10.9	-0.6140 µg/L	0.76029	-0.6140 ppb	0.76029	123.82%
S	181.975 Axial†	-6.3	-4.6708 µg/L	2.03882	-4.6708 ppb	2.03882	43.65%
Sb	206.836†	-11.0	-1.3147 µg/L	1.20959	-1.3147 ppb	1.20959	92.01%
Se	196.026†	-1.4	-0.495 µg/L	1.9625	-0.495 ppb	1.9625	396.16%
SiO2†		-5.2	-0.5078 µg/L	1.61206	-0.5078 ppb	1.61206	317.46%
Si	251.611†	127.4	1.8800 µg/L	1.95958	1.8800 ppb	1.95958	104.24%
Sn	189.927†	7.3	0.4566 µg/L	0.16011	0.4566 ppb	0.16011	35.06%
Sr	421.552†	-94.5	-0.1965 µg/L	0.17296	-0.1965 ppb	0.17296	88.04%
Ti	334.940†	40.4	0.0370 µg/L	0.13834	0.0370 ppb	0.13834	373.72%
Tl	190.801†	2.9	0.3506 µg/L	1.33442	0.3506 ppb	1.33442	380.62%
U	409.014†	35.8	2.0744 µg/L	5.02435	2.0744 ppb	5.02435	242.20%
V	292.402†	-69.3	-0.3397 µg/L	0.49772	-0.3397 ppb	0.49772	146.53%
Zn	213.857†	31.4	0.1761 µg/L	0.02602	0.1761 ppb	0.02602	14.78%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value within limits for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 87

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 22:35:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146768.4	146768.4	101 %		22:35:57
1	Al 396.153Radial†	26541.6	26453.2	4882.0 µg/L	4882.0 ppb	22:35:57
1	Ca 317.933Radial†	87649.0	86587.6	4823.3 µg/L	4823.3 ppb	22:35:57
1	Fe 238.204 Radial†	78561.3	77964.3	4805.2 µg/L	4805.2 ppb	22:35:57
1	K 766.490 Radial†	14622.8	12994.5	4753.5 µg/L	4753.5 ppb	22:35:57
1	Mg 279.077 IEC†	13408.4	13141.1	4903.8 µg/L	4903.8 ppb	22:35:57
1	Na 589.592 Radial†	71672.4	69972.1	9554.8 µg/L	9554.8 ppb	22:35:57
1	Sr 421.552†	232413.6	231220.9	480.66 µg/L	480.66 ppb	22:35:55
1	Sc 361.383	1722923.1	1722923.1	100.27 %		22:36:24
1	Y 371.029	1019811.3	1019811.3	99.330 %		22:36:24
1	Ag 328.068†	132254.4	127801.8	479.17 µg/L	479.17 ppb	22:36:24
1	As 188.979†	1604.2	1620.1	496.89 µg/L	496.89 ppb	22:36:44
1	B 249.677†	35283.6	31681.3	465.60 µg/L	465.60 ppb	22:36:24
1	Ba 233.527†	118323.2	118135.9	476.44 µg/L	476.44 ppb	22:36:24
1	Be 313.107†	1761219.9	1757474.5	478.66 µg/L	478.66 ppb	22:36:24
1	Cd 226.502†	75730.6	75642.0	472.19 µg/L	472.19 ppb	22:36:24
1	Co 228.616†	38400.5	38485.9	475.11 µg/L	475.11 ppb	22:36:24
1	Cr 267.716†	60661.3	60317.0	472.27 µg/L	472.27 ppb	22:36:24
1	Cu 324.752†	125755.4	122439.8	477.30 µg/L	477.30 ppb	22:36:24
1	Mn 257.610†	387911.3	386614.6	478.15 µg/L	478.15 ppb	22:36:24
1	Mo 202.031†	16408.6	16383.8	481.94 µg/L	481.94 ppb	22:36:44
1	Ni 231.604†	41320.9	41284.6	475.36 µg/L	475.36 ppb	22:36:24
1	P 214.914†	11214.8	11202.1	2387.7 µg/L	2387.7 ppb	22:36:44
1	Pb 220.353†	8739.6	8629.4	483.24 µg/L	483.24 ppb	22:36:44
1	S 181.975 Axial†	1375.5	1266.7	944.65 µg/L	944.65 ppb	22:36:44
1	Sb 206.836†	4120.0	4027.9	480.04 µg/L	480.04 ppb	22:36:44
1	Se 196.026†	1343.5	1324.5	481 µg/L	481 ppb	22:36:44
1	SiO2†	54771.8	52846.8	5144.7 µg/L	5144.7 ppb	22:36:24
1	Si 251.611†	165253.5	163965.6	2407.7 µg/L	2407.7 ppb	22:36:24
1	Sn 189.927†	7717.2	7697.3	481.45 µg/L	481.45 ppb	22:36:44
1	Ti 334.940†	514309.0	511951.9	477.69 µg/L	477.69 ppb	22:36:24
1	Tl 190.801†	3827.4	3933.6	490.49 µg/L	490.49 ppb	22:36:44
1	U 409.014†	7235.3	7485.4	466.50 µg/L	466.50 ppb	22:36:24
1	V 292.402†	97370.2	96700.5	478.09 µg/L	478.09 ppb	22:36:24
1	Zn 213.857†	85150.2	84353.3	470.11 µg/L	470.11 ppb	22:36:24
2	Sc RADIAL	145116.2	145116.2	99.4 %		22:36:01
2	Al 396.153Radial†	26297.2	26507.8	4892.7 µg/L	4892.7 ppb	22:36:01
2	Ca 317.933Radial†	86940.1	86866.9	4838.8 µg/L	4838.8 ppb	22:36:01
2	Fe 238.204 Radial†	77803.3	78091.3	4813.1 µg/L	4813.1 ppb	22:36:01
2	K 766.490 Radial†	14545.6	13082.4	4785.7 µg/L	4785.7 ppb	22:36:01
2	Mg 279.077 IEC†	13274.5	13158.2	4909.9 µg/L	4909.9 ppb	22:36:01
2	Na 589.592 Radial†	70981.1	70088.2	9570.6 µg/L	9570.6 ppb	22:36:01
2	Sr 421.552†	232627.8	234067.2	486.57 µg/L	486.57 ppb	22:35:59
2	Sc 361.383	1750269.1	1750269.1	101.87 %		22:36:47
2	Y 371.029	1035573.7	1035573.7	100.87 %		22:36:47
2	Ag 328.068†	134676.3	128118.7	480.37 µg/L	480.37 ppb	22:36:47
2	As 188.979†	1582.5	1573.9	482.89 µg/L	482.89 ppb	22:37:07
2	B 249.677†	35971.3	31806.7	467.44 µg/L	467.44 ppb	22:36:47
2	Ba 233.527†	120638.2	118564.9	478.17 µg/L	478.17 ppb	22:36:47
2	Be 313.107†	1795938.6	1764115.6	480.47 µg/L	480.47 ppb	22:36:47
2	Cd 226.502†	77211.3	75915.5	473.90 µg/L	473.90 ppb	22:36:47
2	Co 228.616†	39183.6	38656.4	477.21 µg/L	477.21 ppb	22:36:47
2	Cr 267.716†	61805.5	60495.1	473.67 µg/L	473.67 ppb	22:36:47
2	Cu 324.752†	127636.0	122326.5	476.86 µg/L	476.86 ppb	22:36:47
2	Mn 257.610†	395566.1	388085.1	479.97 µg/L	479.97 ppb	22:36:47
2	Mo 202.031†	16264.4	15986.6	470.26 µg/L	470.26 ppb	22:37:07
2	Ni 231.604†	42110.5	41415.9	476.87 µg/L	476.87 ppb	22:36:47
2	P 214.914†	11123.1	10937.4	2331.1 µg/L	2331.1 ppb	22:37:07
2	Pb 220.353†	8695.2	8449.6	473.18 µg/L	473.18 ppb	22:37:07

2	S 181.975 Axial†	1380.2	1249.8	932.06 µg/L	932.06 ppb	22:37:07
2	Sb 206.836†	4108.8	3952.7	470.89 µg/L	470.89 ppb	22:37:07
2	Se 196.026†	1336.5	1296.8	471 µg/L	471 ppb	22:37:07
2	SiO2†	55876.6	53078.0	5167.8 µg/L	5167.8 ppb	22:36:47
2	Si 251.611†	168292.8	164374.4	2414.0 µg/L	2414.0 ppb	22:36:47
2	Sn 189.927†	7640.8	7502.0	469.28 µg/L	469.28 ppb	22:37:07
2	Ti 334.940†	522795.1	512268.9	477.98 µg/L	477.98 ppb	22:36:47
2	Tl 190.801†	3793.4	3840.6	479.07 µg/L	479.07 ppb	22:37:07
2	U 409.014†	7388.2	7522.7	468.79 µg/L	468.79 ppb	22:36:47
2	V 292.402†	99257.8	97036.4	479.62 µg/L	479.62 ppb	22:36:47
2	Zn 213.857†	87026.0	84867.9	472.99 µg/L	472.99 ppb	22:36:47
3	Sc RADIAL	145049.2	145049.2	99.4 %		22:36:05
3	Al 396.153Radial†	26335.5	26558.6	4901.9 µg/L	4901.9 ppb	22:36:05
3	Ca 317.933Radial†	86672.0	86637.6	4826.1 µg/L	4826.1 ppb	22:36:05
3	Fe 238.204 Radial†	77423.0	77745.0	4791.7 µg/L	4791.7 ppb	22:36:05
3	K 766.490 Radial†	14708.1	13252.7	4848.1 µg/L	4848.1 ppb	22:36:05
3	Mg 279.077 IEC†	13164.0	13053.2	4870.9 µg/L	4870.9 ppb	22:36:05
3	Na 589.592 Radial†	70826.5	69965.7	9553.9 µg/L	9553.9 ppb	22:36:05
3	Sr 421.552†	229385.5	230913.4	480.02 µg/L	480.02 ppb	22:36:03
3	Sc 361.383	1736886.0	1736886.0	101.09 %		22:37:10
3	Y 371.029	1026663.5	1026663.5	99.998 %		22:37:10
3	Ag 328.068†	133353.0	127828.3	479.31 µg/L	479.31 ppb	22:37:10
3	As 188.979†	1594.0	1597.2	489.96 µg/L	489.96 ppb	22:37:30
3	B 249.677†	35849.9	31958.7	469.68 µg/L	469.68 ppb	22:37:10
3	Ba 233.527†	119879.0	118726.4	478.82 µg/L	478.82 ppb	22:37:10
3	Be 313.107†	1785527.0	1767400.4	481.37 µg/L	481.37 ppb	22:37:10
3	Cd 226.502†	76637.4	75931.9	474.00 µg/L	474.00 ppb	22:37:10
3	Co 228.616†	38956.3	38727.9	478.10 µg/L	478.10 ppb	22:37:10
3	Cr 267.716†	61487.6	60648.2	474.86 µg/L	474.86 ppb	22:37:10
3	Cu 324.752†	126940.5	122603.9	477.95 µg/L	477.95 ppb	22:37:10
3	Mn 257.610†	392870.7	388410.8	480.37 µg/L	480.37 ppb	22:37:10
3	Mo 202.031†	16306.3	16151.1	475.10 µg/L	475.10 ppb	22:37:30
3	Ni 231.604†	41574.5	41204.2	474.44 µg/L	474.44 ppb	22:37:10
3	P 214.914†	11178.5	11076.3	2360.8 µg/L	2360.8 ppb	22:37:30
3	Pb 220.353†	8729.7	8549.5	478.76 µg/L	478.76 ppb	22:37:30
3	S 181.975 Axial†	1377.2	1257.3	937.66 µg/L	937.66 ppb	22:37:30
3	Sb 206.836†	4126.4	4001.2	476.72 µg/L	476.72 ppb	22:37:30
3	Se 196.026†	1332.7	1303.1	473 µg/L	473 ppb	22:37:30
3	SiO2†	55324.3	52954.3	5155.5 µg/L	5155.5 ppb	22:37:10
3	Si 251.611†	167461.4	164825.0	2420.5 µg/L	2420.5 ppb	22:37:10
3	Sn 189.927†	7692.4	7610.8	476.07 µg/L	476.07 ppb	22:37:30
3	Ti 334.940†	518784.6	512256.1	477.97 µg/L	477.97 ppb	22:37:10
3	Tl 190.801†	3813.8	3889.5	485.08 µg/L	485.08 ppb	22:37:30
3	U 409.014†	7519.5	7708.6	479.68 µg/L	479.68 ppb	22:37:10
3	V 292.402†	98557.8	97094.7	479.97 µg/L	479.97 ppb	22:37:10
3	Zn 213.857†	86550.8	85056.1	474.07 µg/L	474.07 ppb	22:37:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1736692.7	101.08 %	0.796			0.79%
Sc RADIAL	145644.6	99.8 %	0.67			0.67%
Y 371.029	1027349.5	100.06 %	0.770			0.77%
Ag 328.068†	127916.2	479.62 µg/L	0.654	479.62 ppb	0.654	0.14%
QC value within limits for Ag 328.068 Recovery = 95.92%						
Al 396.153Radial†	26506.5	4892.2 µg/L	9.94	4892.2 ppb	9.94	0.20%
QC value within limits for Al 396.153Radial Recovery = 97.84%						
As 188.979†	1597.1	489.91 µg/L	7.000	489.91 ppb	7.000	1.43%
QC value within limits for As 188.979 Recovery = 97.98%						
B 249.677†	31815.6	467.57 µg/L	2.043	467.57 ppb	2.043	0.44%
QC value within limits for B 249.677 Recovery = 93.51%						
Ba 233.527†	118475.7	477.81 µg/L	1.229	477.81 ppb	1.229	0.26%
QC value within limits for Ba 233.527 Recovery = 95.56%						
Be 313.107†	1762996.8	480.17 µg/L	1.379	480.17 ppb	1.379	0.29%
QC value within limits for Be 313.107 Recovery = 96.03%						
Ca 317.933Radial†	86697.4	4829.4 µg/L	8.30	4829.4 ppb	8.30	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.59%						
Cd 226.502†	75829.8	473.36 µg/L	1.017	473.36 ppb	1.017	0.21%
QC value within limits for Cd 226.502 Recovery = 94.67%						
Co 228.616†	38623.4	476.81 µg/L	1.535	476.81 ppb	1.535	0.32%

QC value within limits for Co 228.616 Recovery = 95.36%							
Cr 267.716†	60486.8	473.60 µg/L	1.293	473.60 ppb	1.293	0.27%	
QC value within limits for Cr 267.716 Recovery = 94.72%							
Cu 324.752†	122456.7	477.37 µg/L	0.545	477.37 ppb	0.545	0.11%	
QC value within limits for Cu 324.752 Recovery = 95.47%							
Fe 238.204 Radial†	77933.5	4803.3 µg/L	10.80	4803.3 ppb	10.80	0.22%	
QC value within limits for Fe 238.204 Radial Recovery = 96.07%							
K 766.490 Radial†	13109.8	4795.8 µg/L	48.06	4795.8 ppb	48.06	1.00%	
QC value within limits for K 766.490 Radial Recovery = 95.92%							
Mg 279.077 IEC†	13117.5	4894.9 µg/L	20.99	4894.9 ppb	20.99	0.43%	
QC value within limits for Mg 279.077 IEC Recovery = 97.90%							
Mn 257.610†	387703.5	479.50 µg/L	1.185	479.50 ppb	1.185	0.25%	
QC value within limits for Mn 257.610 Recovery = 95.90%							
Mo 202.031†	16173.9	475.77 µg/L	5.865	475.77 ppb	5.865	1.23%	
QC value within limits for Mo 202.031 Recovery = 95.15%							
Na 589.592 Radial†	70008.7	9559.8 µg/L	9.43	9559.8 ppb	9.43	0.10%	
QC value within limits for Na 589.592 Radial Recovery = 95.60%							
Ni 231.604†	41301.6	475.56 µg/L	1.231	475.56 ppb	1.231	0.26%	
QC value within limits for Ni 231.604 Recovery = 95.11%							
P 214.914†	11071.9	2359.9 µg/L	28.31	2359.9 ppb	28.31	1.20%	
QC value within limits for P 214.914 Recovery = 94.39%							
Pb 220.353†	8542.8	478.39 µg/L	5.044	478.39 ppb	5.044	1.05%	
QC value within limits for Pb 220.353 Recovery = 95.68%							
S 181.975 Axial†	1257.9	938.13 µg/L	6.311	938.13 ppb	6.311	0.67%	
QC value within limits for S 181.975 Axial Recovery = 93.81%							
Sb 206.836†	3994.0	475.89 µg/L	4.631	475.89 ppb	4.631	0.97%	
QC value within limits for Sb 206.836 Recovery = 95.18%							
Se 196.026†	1308.1	475 µg/L	5.3	475 ppb	5.3	1.11%	
QC value within limits for Se 196.026 Recovery = 95.00%							
SiO2†	52959.7	5156.0 µg/L	11.56	5156.0 ppb	11.56	0.22%	
QC value within limits for SiO2 Recovery = 96.42%							
Si 251.611†	164388.3	2414.1 µg/L	6.40	2414.1 ppb	6.40	0.27%	
QC value within limits for Si 251.611 Recovery = 96.56%							
Sn 189.927†	7603.3	475.60 µg/L	6.099	475.60 ppb	6.099	1.28%	
QC value within limits for Sn 189.927 Recovery = 95.12%							
Sr 421.552†	232067.2	482.42 µg/L	3.615	482.42 ppb	3.615	0.75%	
QC value within limits for Sr 421.552 Recovery = 96.48%							
Ti 334.940†	512159.0	477.88 µg/L	0.166	477.88 ppb	0.166	0.03%	
QC value within limits for Ti 334.940 Recovery = 95.58%							
Tl 190.801†	3887.9	484.88 µg/L	5.710	484.88 ppb	5.710	1.18%	
QC value within limits for Tl 190.801 Recovery = 96.98%							
U 409.014†	7572.3	471.66 µg/L	7.041	471.66 ppb	7.041	1.49%	
QC value within limits for U 409.014 Recovery = 94.33%							
V 292.402†	96943.8	479.22 µg/L	0.996	479.22 ppb	0.996	0.21%	
QC value within limits for V 292.402 Recovery = 95.84%							
Zn 213.857†	84759.1	472.39 µg/L	2.045	472.39 ppb	2.045	0.43%	
QC value within limits for Zn 213.857 Recovery = 94.48%							
All analyte(s) passed QC.							

Sequence No.: 88

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 22:37:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146107.1	146107.1	100 %		22:38:09
1	Al 396.153Radial†	-28.6	34.6	6.4326 µg/L	6.4326 ppb	22:38:29
1	Ca 317.933Radial†	565.6	4.4	0.2431 µg/L	0.2431 ppb	22:38:29
1	Fe 238.204 Radial†	221.6	73.2	4.5130 µg/L	4.5130 ppb	22:38:29
1	K 766.490 Radial†	1670.7	123.9	45.355 µg/L	45.355 ppb	22:38:09
1	Mg 279.077 IEC†	188.3	-2.7	-1.0050 µg/L	-1.0050 ppb	22:38:29
1	Na 589.592 Radial†	1308.8	16.4	2.2067 µg/L	2.2067 ppb	22:38:09
1	Sr 421.552†	-138.0	-2.6	-0.0053 µg/L	-0.0053 ppb	22:38:09
1	Sc 361.383	1751605.7	1751605.7	101.94 %		22:39:16
1	Y 371.029	1046872.7	1046872.7	101.97 %		22:39:16
1	Ag 328.068†	3943.9	-222.7	-0.8222 µg/L	-0.8222 ppb	22:39:19
1	As 188.979†	-21.0	-0.2	-0.0602 µg/L	-0.0602 ppb	22:39:39
1	B 249.677†	3436.3	-135.1	-1.9931 µg/L	-1.9931 ppb	22:39:19
1	Ba 233.527†	-130.5	7.8	0.0313 µg/L	0.0313 ppb	22:39:39
1	Be 313.107†	-714.8	363.6	0.1002 µg/L	0.1002 ppb	22:39:19
1	Cd 226.502†	-97.0	23.1	0.1438 µg/L	0.1438 ppb	22:39:39
1	Co 228.616†	-170.5	23.0	0.2839 µg/L	0.2839 ppb	22:39:39
1	Cr 267.716†	208.7	26.1	0.2018 µg/L	0.2018 ppb	22:39:39
1	Cu 324.752†	2943.0	-85.3	-0.3274 µg/L	-0.3274 ppb	22:39:19
1	Mn 257.610†	329.7	86.2	0.1066 µg/L	0.1066 ppb	22:39:39
1	Mo 202.031†	-31.9	-11.2	-0.3304 µg/L	-0.3304 ppb	22:39:39
1	Ni 231.604†	-81.9	-3.9	-0.0443 µg/L	-0.0443 ppb	22:39:39
1	P 214.914†	-23.2	-4.8	-1.0060 µg/L	-1.0060 ppb	22:39:39
1	Pb 220.353†	102.8	14.4	0.8016 µg/L	0.8016 ppb	22:39:39
1	S 181.975 Axial†	97.2	-9.7	-7.2332 µg/L	-7.2332 ppb	22:39:39
1	Sb 206.836†	61.0	-21.0	-2.4992 µg/L	-2.4992 ppb	22:39:39
1	Se 196.026†	8.3	-7.1	-2.58 µg/L	-2.58 ppb	22:39:39
1	SiO2†	1795.0	-14.6	-1.4272 µg/L	-1.4272 ppb	22:39:39
1	Si 251.611†	1014.2	158.3	2.3344 µg/L	2.3344 ppb	22:39:19
1	Sn 189.927†	9.8	10.8	0.6712 µg/L	0.6712 ppb	22:39:39
1	Ti 334.940†	912.7	-57.2	-0.0550 µg/L	-0.0550 ppb	22:39:19
1	Tl 190.801†	-104.8	13.9	1.7060 µg/L	1.7060 ppb	22:39:39
1	U 409.014†	-207.3	66.5	3.8783 µg/L	3.8783 ppb	22:39:19
1	V 292.402†	371.1	-39.7	-0.1942 µg/L	-0.1942 ppb	22:39:19
1	Zn 213.857†	603.0	27.1	0.1525 µg/L	0.1525 ppb	22:39:39
2	Sc RADIAL	143516.2	143516.2	98.3 %		22:38:31
2	Al 396.153Radial†	-59.7	2.6	0.4739 µg/L	0.4739 ppb	22:38:51
2	Ca 317.933Radial†	574.3	23.4	1.3043 µg/L	1.3043 ppb	22:38:51
2	Fe 238.204 Radial†	211.6	67.1	4.1330 µg/L	4.1330 ppb	22:38:51
2	K 766.490 Radial†	1530.2	11.2	4.0876 µg/L	4.0876 ppb	22:38:31
2	Mg 279.077 IEC†	186.7	-0.9	-0.3295 µg/L	-0.3295 ppb	22:38:51
2	Na 589.592 Radial†	1309.3	40.6	5.5370 µg/L	5.5370 ppb	22:38:31
2	Sr 421.552†	-195.1	-63.1	-0.1312 µg/L	-0.1312 ppb	22:38:31
2	Sc 361.383	1725150.1	1725150.1	100.40 %		22:39:41
2	Y 371.029	1031944.0	1031944.0	100.51 %		22:39:41
2	Ag 328.068†	3865.7	-241.3	-0.8900 µg/L	-0.8900 ppb	22:39:43
2	As 188.979†	-15.4	5.0	1.5151 µg/L	1.5151 ppb	22:40:03
2	B 249.677†	3665.2	144.6	2.1317 µg/L	2.1317 ppb	22:39:43
2	Ba 233.527†	-135.5	0.9	0.0032 µg/L	0.0032 ppb	22:40:03
2	Be 313.107†	-881.3	187.0	0.0526 µg/L	0.0526 ppb	22:39:43
2	Cd 226.502†	-123.0	-4.3	-0.0274 µg/L	-0.0274 ppb	22:40:03
2	Co 228.616†	-162.8	28.2	0.3479 µg/L	0.3479 ppb	22:40:03
2	Cr 267.716†	195.8	16.5	0.1246 µg/L	0.1246 ppb	22:40:03
2	Cu 324.752†	2834.1	-149.5	-0.5757 µg/L	-0.5757 ppb	22:39:43
2	Mn 257.610†	312.2	73.7	0.0911 µg/L	0.0911 ppb	22:40:03
2	Mo 202.031†	-20.8	-0.7	-0.0196 µg/L	-0.0196 ppb	22:40:03
2	Ni 231.604†	-63.9	12.8	0.1478 µg/L	0.1478 ppb	22:40:03
2	P 214.914†	-29.3	-11.2	-2.4036 µg/L	-2.4036 ppb	22:40:03
2	Pb 220.353†	74.7	-12.0	-0.6719 µg/L	-0.6719 ppb	22:40:03

2	S 181.975 Axial†	114.1	8.6	6.4080 µg/L	6.4080 ppb	22:40:03
2	Sb 206.836†	83.7	2.5	0.2984 µg/L	0.2984 ppb	22:40:03
2	Se 196.026†	7.4	-7.9	-2.83 µg/L	-2.83 ppb	22:40:03
2	SiO2†	1757.4	-25.0	-2.4389 µg/L	-2.4389 ppb	22:40:03
2	Si 251.611†	1016.3	175.6	2.5912 µg/L	2.5912 ppb	22:39:43
2	Sn 189.927†	-5.9	-4.8	-0.2983 µg/L	-0.2983 ppb	22:40:03
2	Ti 334.940†	1008.8	52.2	0.0465 µg/L	0.0465 ppb	22:39:43
2	Tl 190.801†	-108.8	8.3	1.0191 µg/L	1.0191 ppb	22:40:03
2	U 409.014†	-175.4	95.2	5.5468 µg/L	5.5468 ppb	22:39:43
2	V 292.402†	347.2	-58.0	-0.2792 µg/L	-0.2792 ppb	22:39:43
2	Zn 213.857†	581.3	14.6	0.0808 µg/L	0.0808 ppb	22:40:03
3	Sc RADIAL	142981.4	142981.4	98.0 %		22:38:53
3	Al 396.153Radial†	-63.0	-1.1	-0.2113 µg/L	-0.2113 ppb	22:39:13
3	Ca 317.933Radial†	581.1	32.5	1.8108 µg/L	1.8108 ppb	22:39:13
3	Fe 238.204 Radial†	194.5	50.4	3.1050 µg/L	3.1050 ppb	22:39:13
3	K 766.490 Radial†	1679.9	169.7	62.139 µg/L	62.139 ppb	22:38:53
3	Mg 279.077 IEC†	195.7	9.0	3.3615 µg/L	3.3615 ppb	22:39:13
3	Na 589.592 Radial†	1209.6	-56.3	-7.7449 µg/L	-7.7449 ppb	22:38:53
3	Sr 421.552†	-420.0	-293.4	-0.6100 µg/L	-0.6100 ppb	22:38:53
3	Sc 361.383	1753013.9	1753013.9	102.03 %		22:40:05
3	Y 371.029	1047401.1	1047401.1	102.02 %		22:40:05
3	Ag 328.068†	4060.3	-111.6	-0.4113 µg/L	-0.4113 ppb	22:40:07
3	As 188.979†	-11.1	9.5	2.8753 µg/L	2.8753 ppb	22:40:27
3	B 249.677†	3619.9	42.1	0.6207 µg/L	0.6207 ppb	22:40:07
3	Ba 233.527†	-139.2	-0.6	-0.0023 µg/L	-0.0023 ppb	22:40:27
3	Be 313.107†	-869.8	212.1	0.0585 µg/L	0.0585 ppb	22:40:07
3	Cd 226.502†	-85.5	34.4	0.2145 µg/L	0.2145 ppb	22:40:27
3	Co 228.616†	-181.0	12.9	0.1588 µg/L	0.1588 ppb	22:40:27
3	Cr 267.716†	175.3	-6.8	-0.0550 µg/L	-0.0550 ppb	22:40:27
3	Cu 324.752†	3044.4	11.7	0.0483 µg/L	0.0483 ppb	22:40:07
3	Mn 257.610†	307.5	64.2	0.0793 µg/L	0.0793 ppb	22:40:27
3	Mo 202.031†	-12.0	8.3	0.2441 µg/L	0.2441 ppb	22:40:27
3	Ni 231.604†	-69.0	8.9	0.1028 µg/L	0.1028 ppb	22:40:27
3	P 214.914†	-27.3	-8.8	-1.8805 µg/L	-1.8805 ppb	22:40:27
3	Pb 220.353†	81.8	-6.2	-0.3453 µg/L	-0.3453 ppb	22:40:27
3	S 181.975 Axial†	99.7	-7.4	-5.4573 µg/L	-5.4573 ppb	22:40:27
3	Sb 206.836†	92.0	9.3	1.1113 µg/L	1.1113 ppb	22:40:27
3	Se 196.026†	22.0	6.3	2.27 µg/L	2.27 ppb	22:40:27
3	SiO2†	1796.0	-15.0	-1.4822 µg/L	-1.4822 ppb	22:40:27
3	Si 251.611†	1008.2	151.7	2.2299 µg/L	2.2299 ppb	22:40:07
3	Sn 189.927†	5.8	6.8	0.4238 µg/L	0.4238 ppb	22:40:27
3	Ti 334.940†	774.2	-193.7	-0.1822 µg/L	-0.1822 ppb	22:40:07
3	Tl 190.801†	-131.2	-12.0	-1.4719 µg/L	-1.4719 ppb	22:40:27
3	U 409.014†	-231.1	43.4	2.5310 µg/L	2.5310 ppb	22:40:07
3	V 292.402†	394.8	-16.8	-0.0781 µg/L	-0.0781 ppb	22:40:07
3	Zn 213.857†	584.2	8.2	0.0446 µg/L	0.0446 ppb	22:40:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1743256.5	101.46 %	0.914			0.90%
Sc RADIAL	144201.5	98.8 %	1.15			1.16%
Y 371.029	1042072.6	101.50 %	0.855			0.84%
Ag 328.068†	-191.9	-0.7079 µg/L	0.25904	-0.7079 ppb	0.25904	36.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	2.2317 µg/L	3.65416	2.2317 ppb	3.65416	163.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.8	1.4434 µg/L	1.46904	1.4434 ppb	1.46904	101.78%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	17.2	0.2531 µg/L	2.08681	0.2531 ppb	2.08681	824.51%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.7	0.0107 µg/L	0.01797	0.0107 ppb	0.01797	167.33%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	254.2	0.0704 µg/L	0.02593	0.0704 ppb	0.02593	36.81%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	20.1	1.1194 µg/L	0.80006	1.1194 ppb	0.80006	71.47%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.7	0.1103 µg/L	0.12437	0.1103 ppb	0.12437	112.78%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	21.4	0.2635 µg/L	0.09616	0.2635 ppb	0.09616	36.49%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	11.9	0.0905 µg/L	0.13175	0.0905 ppb	0.13175 145.64%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-74.4	-0.2849 µg/L	0.31418	-0.2849 ppb	0.31418 110.27%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	63.6	3.9170 µg/L	0.72840	3.9170 ppb	0.72840 18.60%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	101.6	37.194 µg/L	29.8738	37.194 ppb	29.8738 80.32%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	1.8	0.6757 µg/L	2.35038	0.6757 ppb	2.35038 347.86%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	74.7	0.0923 µg/L	0.01373	0.0923 ppb	0.01373 14.87%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	-1.2	-0.0353 µg/L	0.28757	-0.0353 ppb	0.28757 814.16%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	0.2	-0.0004 µg/L	6.91054	-0.0004 ppb	6.91054 >999.9%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	6.0	0.0687 µg/L	0.10050	0.0687 ppb	0.10050 146.19%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-8.3	-1.7634 µg/L	0.70616	-1.7634 ppb	0.70616 40.05%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	-1.2	-0.0719 µg/L	0.77383	-0.0719 ppb	0.77383 >999.9%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-2.8	-2.0942 µg/L	7.41644	-2.0942 ppb	7.41644 354.14%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	-3.0	-0.3632 µg/L	1.89399	-0.3632 ppb	1.89399 521.51%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-2.9	-1.05 µg/L	2.877	-1.05 ppb	2.877 275.00%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-18.2	-1.7828 µg/L	0.56893	-1.7828 ppb	0.56893 31.91%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	161.9	2.3852 µg/L	0.18594	2.3852 ppb	0.18594 7.80%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	4.3	0.2656 µg/L	0.50378	0.2656 ppb	0.50378 189.70%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-119.7	-0.2488 µg/L	0.31901	-0.2488 ppb	0.31901 128.20%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	-66.2	-0.0636 µg/L	0.11461	-0.0636 ppb	0.11461 180.26%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.4	0.4177 µg/L	1.67214	0.4177 ppb	1.67214 400.28%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	68.3	3.9854 µg/L	1.51076	3.9854 ppb	1.51076 37.91%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-38.2	-0.1839 µg/L	0.10096	-0.1839 ppb	0.10096 54.91%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	16.6	0.0927 µg/L	0.05489	0.0927 ppb	0.05489 59.24%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 96

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 22:56:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145631.0	145631.0	99.8 %			22:56:43
1	Al 396.153Radial†	26317.9	26435.1	4879.0 µg/L		4879.0 ppb	22:56:43
1	Ca 317.933Radial†	87097.4	86715.5	4830.4 µg/L		4830.4 ppb	22:56:43
1	Fe 238.204 Radial†	78015.7	78027.6	4809.1 µg/L		4809.1 ppb	22:56:43
1	K 766.490 Radial†	14649.7	13135.0	4805.0 µg/L		4805.0 ppb	22:56:43
1	Mg 279.077 IEC†	13278.4	13115.0	4893.9 µg/L		4893.9 ppb	22:56:43
1	Na 589.592 Radial†	71207.1	70062.4	9567.1 µg/L		9567.1 ppb	22:56:43
1	Sr 421.552†	231874.1	232485.1	483.29 µg/L		483.29 ppb	22:56:41
1	Sc 361.383	1757611.7	1757611.7	102.29 %			22:56:56
1	Y 371.029	1039190.8	1039190.8	101.22 %			22:56:56
1	Ag 328.068†	134897.1	127782.2	479.15 µg/L		479.15 ppb	22:56:56
1	As 188.979†	1621.9	1605.9	492.61 µg/L		492.61 ppb	22:57:16
1	B 249.677†	36392.3	32070.7	471.32 µg/L		471.32 ppb	22:56:56
1	Ba 233.527†	121741.3	119148.6	480.52 µg/L		480.52 ppb	22:56:56
1	Be 313.107†	1813624.8	1774040.0	483.17 µg/L		483.17 ppb	22:56:56
1	Cd 226.502†	78396.2	76757.2	479.15 µg/L		479.15 ppb	22:56:56
1	Co 228.616†	39678.3	38979.3	481.20 µg/L		481.20 ppb	22:56:56
1	Cr 267.716†	62522.7	60942.8	477.17 µg/L		477.17 ppb	22:56:56
1	Cu 324.752†	128539.8	122686.5	478.27 µg/L		478.27 ppb	22:56:56
1	Mn 257.610†	399485.0	390293.9	482.70 µg/L		482.70 ppb	22:56:56
1	Mo 202.031†	16513.7	16163.7	475.47 µg/L		475.47 ppb	22:57:16
1	Ni 231.604†	42651.4	41771.9	480.97 µg/L		480.97 ppb	22:56:56
1	P 214.914†	11360.0	11123.4	2370.9 µg/L		2370.9 ppb	22:57:16
1	Pb 220.353†	8842.6	8558.1	479.24 µg/L		479.24 ppb	22:57:16
1	S 181.975 Axial†	1375.6	1239.7	924.58 µg/L		924.58 ppb	22:57:16
1	Sb 206.836†	4166.7	3992.4	475.65 µg/L		475.65 ppb	22:57:16
1	Se 196.026†	1353.0	1307.4	475 µg/L		475 ppb	22:57:16
1	SiO2†	56776.4	53728.4	5231.1 µg/L		5231.1 ppb	22:56:56
1	Si 251.611†	171826.2	167138.4	2454.6 µg/L		2454.6 ppb	22:56:56
1	Sn 189.927†	7798.3	7624.6	476.93 µg/L		476.93 ppb	22:57:16
1	Ti 334.940†	526436.4	513684.7	479.31 µg/L		479.31 ppb	22:56:56
1	Tl 190.801†	3828.8	3859.7	481.43 µg/L		481.43 ppb	22:57:16
1	U 409.014†	7470.8	7573.2	471.86 µg/L		471.86 ppb	22:56:56
1	V 292.402†	100068.8	97422.2	481.57 µg/L		481.57 ppb	22:56:56
1	Zn 213.857†	87978.3	85442.0	476.19 µg/L		476.19 ppb	22:56:56
2	Sc RADIAL	144482.4	144482.4	99.0 %			22:56:47
2	Al 396.153Radial†	26344.0	26671.1	4922.7 µg/L		4922.7 ppb	22:56:47
2	Ca 317.933Radial†	86633.5	86940.8	4842.9 µg/L		4842.9 ppb	22:56:47
2	Fe 238.204 Radial†	77683.1	78313.2	4826.7 µg/L		4826.7 ppb	22:56:47
2	K 766.490 Radial†	14601.3	13202.8	4829.8 µg/L		4829.8 ppb	22:56:47
2	Mg 279.077 IEC†	13248.2	13190.2	4922.0 µg/L		4922.0 ppb	22:56:47
2	Na 589.592 Radial†	70771.3	70189.4	9584.4 µg/L		9584.4 ppb	22:56:47
2	Sr 421.552†	233206.6	235678.1	489.92 µg/L		489.92 ppb	22:56:45
2	Sc 361.383	1751539.4	1751539.4	101.94 %			22:57:19
2	Y 371.029	1035412.0	1035412.0	100.85 %			22:57:19
2	Ag 328.068†	134751.3	128096.4	480.32 µg/L		480.32 ppb	22:57:19
2	As 188.979†	1631.1	1620.5	497.03 µg/L		497.03 ppb	22:57:39
2	B 249.677†	36471.6	32271.9	474.29 µg/L		474.29 ppb	22:57:19
2	Ba 233.527†	121221.0	119050.7	480.13 µg/L		480.13 ppb	22:57:19
2	Be 313.107†	1805248.5	1771969.6	482.61 µg/L		482.61 ppb	22:57:19
2	Cd 226.502†	78107.8	76740.0	479.04 µg/L		479.04 ppb	22:57:19
2	Co 228.616†	39424.5	38864.8	479.79 µg/L		479.79 ppb	22:57:19
2	Cr 267.716†	62345.8	60981.1	477.48 µg/L		477.48 ppb	22:57:19
2	Cu 324.752†	127964.1	122557.5	477.76 µg/L		477.76 ppb	22:57:19
2	Mn 257.610†	398107.9	390296.9	482.71 µg/L		482.71 ppb	22:57:19
2	Mo 202.031†	16505.0	16211.0	476.86 µg/L		476.86 ppb	22:57:39
2	Ni 231.604†	42337.4	41608.5	479.09 µg/L		479.09 ppb	22:57:19
2	P 214.914†	11365.0	11166.7	2380.1 µg/L		2380.1 ppb	22:57:39
2	Pb 220.353†	8862.8	8607.8	482.03 µg/L		482.03 ppb	22:57:39

2	S 181.975 Axial†	1404.8	1273.1	949.37 µg/L	949.37 ppb	22:57:39
2	Sb 206.836†	4167.5	4007.4	477.45 µg/L	477.45 ppb	22:57:39
2	Se 196.026†	1357.3	1316.2	478 µg/L	478 ppb	22:57:39
2	SiO2†	56527.9	53677.1	5226.0 µg/L	5226.0 ppb	22:57:19
2	Si 251.611†	170943.4	166854.8	2450.4 µg/L	2450.4 ppb	22:57:19
2	Sn 189.927†	7812.4	7664.9	479.44 µg/L	479.44 ppb	22:57:39
2	Ti 334.940†	524724.5	513789.4	479.40 µg/L	479.40 ppb	22:57:19
2	Tl 190.801†	3882.8	3925.7	489.55 µg/L	489.55 ppb	22:57:39
2	U 409.014†	7388.4	7517.7	468.65 µg/L	468.65 ppb	22:57:19
2	V 292.402†	99869.4	97565.6	482.28 µg/L	482.28 ppb	22:57:19
2	Zn 213.857†	87691.1	85458.4	476.30 µg/L	476.30 ppb	22:57:19
3	Sc RADIAL	144138.2	144138.2	98.8 %		22:56:51
3	Al 396.153Radial†	26172.1	26560.6	4902.1 µg/L	4902.1 ppb	22:56:51
3	Ca 317.933Radial†	86609.0	87124.9	4853.2 µg/L	4853.2 ppb	22:56:51
3	Fe 238.204 Radial†	77490.8	78305.8	4826.3 µg/L	4826.3 ppb	22:56:51
3	K 766.490 Radial†	14542.9	13178.9	4821.0 µg/L	4821.0 ppb	22:56:51
3	Mg 279.077 IEC†	13135.4	13108.0	4891.4 µg/L	4891.4 ppb	22:56:51
3	Na 589.592 Radial†	70800.9	70390.1	9611.9 µg/L	9611.9 ppb	22:56:51
3	Sr 421.552†	232137.5	235158.2	488.84 µg/L	488.84 ppb	22:56:49
3	Sc 361.383	1748212.6	1748212.6	101.75 %		22:57:42
3	Y 371.029	1033770.3	1033770.3	100.69 %		22:57:42
3	Ag 328.068†	134805.9	128401.6	481.45 µg/L	481.45 ppb	22:57:42
3	As 188.979†	1610.5	1603.2	491.81 µg/L	491.81 ppb	22:58:02
3	B 249.677†	36492.0	32359.9	475.58 µg/L	475.58 ppb	22:57:42
3	Ba 233.527†	121511.9	119562.9	482.19 µg/L	482.19 ppb	22:57:42
3	Be 313.107†	1811861.4	1781839.1	485.29 µg/L	485.29 ppb	22:57:42
3	Cd 226.502†	78364.1	77137.8	481.53 µg/L	481.53 ppb	22:57:42
3	Co 228.616†	39460.6	38973.8	481.13 µg/L	481.13 ppb	22:57:42
3	Cr 267.716†	62297.9	61050.5	478.02 µg/L	478.02 ppb	22:57:42
3	Cu 324.752†	128147.5	122976.6	479.39 µg/L	479.39 ppb	22:57:42
3	Mn 257.610†	398765.2	391686.1	484.43 µg/L	484.43 ppb	22:57:42
3	Mo 202.031†	16552.7	16288.7	479.14 µg/L	479.14 ppb	22:58:02
3	Ni 231.604†	42492.4	41839.9	481.76 µg/L	481.76 ppb	22:57:42
3	P 214.914†	11389.8	11212.3	2389.9 µg/L	2389.9 ppb	22:58:02
3	Pb 220.353†	8877.9	8639.2	483.79 µg/L	483.79 ppb	22:58:02
3	S 181.975 Axial†	1392.1	1263.1	942.01 µg/L	942.01 ppb	22:58:02
3	Sb 206.836†	4168.0	4015.6	478.46 µg/L	478.46 ppb	22:58:02
3	Se 196.026†	1374.8	1335.9	485 µg/L	485 ppb	22:58:02
3	SiO2†	56586.5	53840.3	5241.9 µg/L	5241.9 ppb	22:57:42
3	Si 251.611†	171481.5	167702.7	2462.9 µg/L	2462.9 ppb	22:57:42
3	Sn 189.927†	7818.8	7685.8	480.75 µg/L	480.75 ppb	22:58:02
3	Ti 334.940†	524855.7	514897.9	480.44 µg/L	480.44 ppb	22:57:42
3	Tl 190.801†	3874.8	3925.0	489.48 µg/L	489.48 ppb	22:58:02
3	U 409.014†	7274.8	7419.8	462.99 µg/L	462.99 ppb	22:57:42
3	V 292.402†	99852.2	97735.2	483.13 µg/L	483.13 ppb	22:57:42
3	Zn 213.857†	87879.4	85807.2	478.24 µg/L	478.24 ppb	22:57:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1752454.6	101.99 %	0.277			0.27%
Sc RADIAL	144750.5	99.2 %	0.54			0.54%
Y 371.029	1036124.4	100.92 %	0.271			0.27%
Ag 328.068†	128093.4	480.30 µg/L	1.150	480.30 ppb	1.150	0.24%
QC value within limits for Ag 328.068 Recovery = 96.06%						
Al 396.153Radial†	26555.6	4901.2 µg/L	21.86	4901.2 ppb	21.86	0.45%
QC value within limits for Al 396.153Radial Recovery = 98.02%						
As 188.979†	1609.8	493.81 µg/L	2.810	493.81 ppb	2.810	0.57%
QC value within limits for As 188.979 Recovery = 98.76%						
B 249.677†	32234.2	473.73 µg/L	2.187	473.73 ppb	2.187	0.46%
QC value within limits for B 249.677 Recovery = 94.75%						
Ba 233.527†	119254.1	480.95 µg/L	1.096	480.95 ppb	1.096	0.23%
QC value within limits for Ba 233.527 Recovery = 96.19%						
Be 313.107†	1775949.6	483.69 µg/L	1.416	483.69 ppb	1.416	0.29%
QC value within limits for Be 313.107 Recovery = 96.74%						
Ca 317.933Radial†	86927.1	4842.2 µg/L	11.42	4842.2 ppb	11.42	0.24%
QC value within limits for Ca 317.933Radial Recovery = 96.84%						
Cd 226.502†	76878.3	479.91 µg/L	1.404	479.91 ppb	1.404	0.29%
QC value within limits for Cd 226.502 Recovery = 95.98%						
Co 228.616†	38939.3	480.71 µg/L	0.798	480.71 ppb	0.798	0.17%

QC value within limits for Co 228.616 Recovery = 96.14%						
Cr 267.716†	60991.5	477.56 µg/L	0.432	477.56 ppb	0.432	0.09%
QC value within limits for Cr 267.716 Recovery = 95.51%						
Cu 324.752†	122740.2	478.47 µg/L	0.832	478.47 ppb	0.832	0.17%
QC value within limits for Cu 324.752 Recovery = 95.69%						
Fe 238.204 Radial†	78215.5	4820.7 µg/L	10.03	4820.7 ppb	10.03	0.21%
QC value within limits for Fe 238.204 Radial Recovery = 96.41%						
K 766.490 Radial†	13172.2	4818.6 µg/L	12.58	4818.6 ppb	12.58	0.26%
QC value within limits for K 766.490 Radial Recovery = 96.37%						
Mg 279.077 IEC†	13137.7	4902.4 µg/L	16.98	4902.4 ppb	16.98	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 98.05%						
Mn 257.610†	390759.0	483.28 µg/L	0.994	483.28 ppb	0.994	0.21%
QC value within limits for Mn 257.610 Recovery = 96.66%						
Mo 202.031†	16221.2	477.16 µg/L	1.856	477.16 ppb	1.856	0.39%
QC value within limits for Mo 202.031 Recovery = 95.43%						
Na 589.592 Radial†	70214.0	9587.8 µg/L	22.57	9587.8 ppb	22.57	0.24%
QC value within limits for Na 589.592 Radial Recovery = 95.88%						
Ni 231.604†	41740.1	480.61 µg/L	1.369	480.61 ppb	1.369	0.28%
QC value within limits for Ni 231.604 Recovery = 96.12%						
P 214.914†	11167.5	2380.3 µg/L	9.50	2380.3 ppb	9.50	0.40%
QC value within limits for P 214.914 Recovery = 95.21%						
Pb 220.353†	8601.7	481.69 µg/L	2.292	481.69 ppb	2.292	0.48%
QC value within limits for Pb 220.353 Recovery = 96.34%						
S 181.975 Axial†	1258.6	938.65 µg/L	12.730	938.65 ppb	12.730	1.36%
QC value within limits for S 181.975 Axial Recovery = 93.87%						
Sb 206.836†	4005.1	477.19 µg/L	1.420	477.19 ppb	1.420	0.30%
QC value within limits for Sb 206.836 Recovery = 95.44%						
Se 196.026†	1319.8	479 µg/L	5.3	479 ppb	5.3	1.10%
QC value within limits for Se 196.026 Recovery = 95.85%						
SiO2†	53748.6	5233.0 µg/L	8.10	5233.0 ppb	8.10	0.15%
QC value within limits for SiO2 Recovery = 97.86%						
Si 251.611†	167232.0	2456.0 µg/L	6.34	2456.0 ppb	6.34	0.26%
QC value within limits for Si 251.611 Recovery = 98.24%						
Sn 189.927†	7658.4	479.04 µg/L	1.940	479.04 ppb	1.940	0.41%
QC value within limits for Sn 189.927 Recovery = 95.81%						
Sr 421.552†	234440.5	487.35 µg/L	3.562	487.35 ppb	3.562	0.73%
QC value within limits for Sr 421.552 Recovery = 97.47%						
Ti 334.940†	514124.0	479.72 µg/L	0.631	479.72 ppb	0.631	0.13%
QC value within limits for Ti 334.940 Recovery = 95.94%						
Tl 190.801†	3903.4	486.82 µg/L	4.666	486.82 ppb	4.666	0.96%
QC value within limits for Tl 190.801 Recovery = 97.36%						
U 409.014†	7503.6	467.83 µg/L	4.493	467.83 ppb	4.493	0.96%
QC value within limits for U 409.014 Recovery = 93.57%						
V 292.402†	97574.3	482.33 µg/L	0.781	482.33 ppb	0.781	0.16%
QC value within limits for V 292.402 Recovery = 96.47%						
Zn 213.857†	85569.2	476.91 µg/L	1.152	476.91 ppb	1.152	0.24%
QC value within limits for Zn 213.857 Recovery = 95.38%						

All analyte(s) passed QC.

Sequence No.: 97

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 22:58:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141781.4	141781.4	97.2 %		22:58:41
1	Al 396.153Radial†	-65.9	-4.6	-0.8469 µg/L	-0.8469 ppb	22:59:01
1	Ca 317.933Radial†	606.5	63.7	3.5473 µg/L	3.5473 ppb	22:59:01
1	Fe 238.204 Radial†	221.5	79.9	4.9227 µg/L	4.9227 ppb	22:59:01
1	K 766.490 Radial†	1686.2	190.7	69.835 µg/L	69.835 ppb	22:58:41
1	Mg 279.077 IEC†	181.6	-3.8	-1.4362 µg/L	-1.4362 ppb	22:59:01
1	Na 589.592 Radial†	1287.3	34.2	4.6057 µg/L	4.6057 ppb	22:58:41
1	Sr 421.552†	-190.2	-60.5	-0.1257 µg/L	-0.1257 ppb	22:58:41
1	Sc 361.383	1743048.5	1743048.5	101.45 %		23:00:02
1	Y 371.029	1041073.0	1041073.0	101.40 %		23:00:02
1	Ag 328.068†	4154.9	4.3	0.0197 µg/L	0.0197 ppb	23:00:05
1	As 188.979†	-19.4	1.2	0.3644 µg/L	0.3644 ppb	23:00:25
1	B 249.677†	3572.5	15.7	0.2315 µg/L	0.2315 ppb	23:00:05
1	Ba 233.527†	-115.3	22.2	0.0893 µg/L	0.0893 ppb	23:00:25
1	Be 313.107†	-922.1	155.7	0.0428 µg/L	0.0428 ppb	23:00:05
1	Cd 226.502†	-111.2	8.6	0.0533 µg/L	0.0533 ppb	23:00:25
1	Co 228.616†	-179.8	13.1	0.1612 µg/L	0.1612 ppb	23:00:25
1	Cr 267.716†	180.6	-0.5	-0.0052 µg/L	-0.0052 ppb	23:00:25
1	Cu 324.752†	2865.9	-147.1	-0.5698 µg/L	-0.5698 ppb	23:00:05
1	Mn 257.610†	329.0	87.1	0.1078 µg/L	0.1078 ppb	23:00:25
1	Mo 202.031†	-23.8	-3.4	-0.1000 µg/L	-0.1000 ppb	23:00:25
1	Ni 231.604†	-90.2	-12.4	-0.1430 µg/L	-0.1430 ppb	23:00:25
1	P 214.914†	-18.9	-0.7	-0.1360 µg/L	-0.1360 ppb	23:00:25
1	Pb 220.353†	97.7	10.0	0.5542 µg/L	0.5542 ppb	23:00:25
1	S 181.975 Axial†	106.4	-0.2	-0.1288 µg/L	-0.1288 ppb	23:00:25
1	Sb 206.836†	101.1	18.9	2.2415 µg/L	2.2415 ppb	23:00:25
1	Se 196.026†	15.2	-0.3	-0.115 µg/L	-0.115 ppb	23:00:25
1	SiO2†	1920.2	117.5	11.486 µg/L	11.486 ppb	23:00:25
1	Si 251.611†	1352.7	496.8	7.3252 µg/L	7.3252 ppb	23:00:05
1	Sn 189.927†	0.5	1.6	0.0974 µg/L	0.0974 ppb	23:00:25
1	Ti 334.940†	839.4	-125.1	-0.1173 µg/L	-0.1173 ppb	23:00:05
1	Tl 190.801†	-111.8	6.4	0.7917 µg/L	0.7917 ppb	23:00:25
1	U 409.014†	-248.6	24.8	1.4614 µg/L	1.4614 ppb	23:00:05
1	V 292.402†	448.0	37.9	0.1842 µg/L	0.1842 ppb	23:00:05
1	Zn 213.857†	592.5	19.7	0.1113 µg/L	0.1113 ppb	23:00:25
2	Sc RADIAL	145003.3	145003.3	99.4 %		22:59:03
2	Al 396.153Radial†	-37.6	25.3	4.6756 µg/L	4.6756 ppb	22:59:23
2	Ca 317.933Radial†	575.8	18.9	1.0553 µg/L	1.0553 ppb	22:59:23
2	Fe 238.204 Radial†	212.8	66.1	4.0710 µg/L	4.0710 ppb	22:59:23
2	K 766.490 Radial†	1744.9	211.3	77.353 µg/L	77.353 ppb	22:59:03
2	Mg 279.077 IEC†	193.4	3.9	1.4593 µg/L	1.4593 ppb	22:59:23
2	Na 589.592 Radial†	1264.0	-18.7	-2.6277 µg/L	-2.6277 ppb	22:59:03
2	Sr 421.552†	-251.3	-117.6	-0.2446 µg/L	-0.2446 ppb	22:59:03
2	Sc 361.383	1760622.4	1760622.4	102.47 %		23:00:27
2	Y 371.029	1051993.8	1051993.8	102.46 %		23:00:27
2	Ag 328.068†	3995.9	-191.7	-0.7159 µg/L	-0.7159 ppb	23:00:29
2	As 188.979†	-7.1	13.4	4.0498 µg/L	4.0498 ppb	23:00:49
2	B 249.677†	3525.8	-65.0	-0.9588 µg/L	-0.9588 ppb	23:00:29
2	Ba 233.527†	-156.5	-16.9	-0.0684 µg/L	-0.0684 ppb	23:00:49
2	Be 313.107†	-952.5	135.1	0.0377 µg/L	0.0377 ppb	23:00:29
2	Cd 226.502†	-136.2	-14.7	-0.0924 µg/L	-0.0924 ppb	23:00:49
2	Co 228.616†	-206.8	-11.5	-0.1422 µg/L	-0.1422 ppb	23:00:49
2	Cr 267.716†	203.7	20.2	0.1559 µg/L	0.1559 ppb	23:00:49
2	Cu 324.752†	2945.2	-98.0	-0.3777 µg/L	-0.3777 ppb	23:00:29
2	Mn 257.610†	295.4	51.0	0.0631 µg/L	0.0631 ppb	23:00:49
2	Mo 202.031†	-5.0	15.2	0.4464 µg/L	0.4464 ppb	23:00:49
2	Ni 231.604†	-100.3	-21.4	-0.2461 µg/L	-0.2461 ppb	23:00:49
2	P 214.914†	-24.8	-6.2	-1.3412 µg/L	-1.3412 ppb	23:00:49
2	Pb 220.353†	104.7	15.8	0.8832 µg/L	0.8832 ppb	23:00:49

2	S 181.975 Axial†	95.9	-11.5	-8.5333 µg/L	-8.5333 ppb	23:00:49
2	Sb 206.836†	88.7	5.7	0.6835 µg/L	0.6835 ppb	23:00:49
2	Se 196.026†	21.7	5.9	2.15 µg/L	2.15 ppb	23:00:49
2	SiO2†	1898.9	77.8	7.5925 µg/L	7.5925 ppb	23:00:49
2	Si 251.611†	1381.8	512.0	7.5445 µg/L	7.5445 ppb	23:00:29
2	Sn 189.927†	-7.0	-5.7	-0.3531 µg/L	-0.3531 ppb	23:00:49
2	Ti 334.940†	1192.4	211.2	0.1959 µg/L	0.1959 ppb	23:00:29
2	Tl 190.801†	-124.7	-5.0	-0.6143 µg/L	-0.6143 ppb	23:00:49
2	U 409.014†	-223.7	51.6	2.9674 µg/L	2.9674 ppb	23:00:29
2	V 292.402†	244.3	-165.3	-0.7998 µg/L	-0.7998 ppb	23:00:29
2	Zn 213.857†	583.4	4.9	0.0292 µg/L	0.0292 ppb	23:00:49
3	Sc RADIAL	144406.4	144406.4	99.0 %		22:59:25
3	Al 396.153Radial†	-65.2	-2.7	-0.5137 µg/L	-0.5137 ppb	22:59:45
3	Ca 317.933Radial†	603.1	48.9	2.7231 µg/L	2.7231 ppb	22:59:45
3	Fe 238.204 Radial†	209.2	63.3	3.9000 µg/L	3.9000 ppb	22:59:45
3	K 766.490 Radial†	1469.9	-59.4	-21.748 µg/L	-21.748 ppb	22:59:25
3	Mg 279.077 IEC†	181.9	-6.9	-2.5712 µg/L	-2.5712 ppb	22:59:45
3	Na 589.592 Radial†	1182.1	-96.2	-13.128 µg/L	-13.128 ppb	22:59:25
3	Sr 421.552†	-255.8	-123.2	-0.2561 µg/L	-0.2561 ppb	22:59:25
3	Sc 361.383	1746264.7	1746264.7	101.63 %		23:00:51
3	Y 371.029	1044189.6	1044189.6	101.70 %		23:00:51
3	Ag 328.068†	4224.2	64.9	0.2383 µg/L	0.2383 ppb	23:00:53
3	As 188.979†	-13.6	7.0	2.1128 µg/L	2.1128 ppb	23:01:13
3	B 249.677†	3523.5	-39.0	-0.5757 µg/L	-0.5757 ppb	23:00:53
3	Ba 233.527†	-133.8	4.2	0.0170 µg/L	0.0170 ppb	23:01:13
3	Be 313.107†	-788.4	289.0	0.0783 µg/L	0.0783 ppb	23:00:53
3	Cd 226.502†	-90.0	29.6	0.1844 µg/L	0.1844 ppb	23:01:13
3	Co 228.616†	-170.7	22.4	0.2760 µg/L	0.2760 ppb	23:01:13
3	Cr 267.716†	211.8	29.8	0.2347 µg/L	0.2347 ppb	23:01:13
3	Cu 324.752†	2885.9	-132.7	-0.5161 µg/L	-0.5161 ppb	23:00:53
3	Mn 257.610†	381.2	137.9	0.1707 µg/L	0.1707 ppb	23:01:13
3	Mo 202.031†	-12.3	8.0	0.2345 µg/L	0.2345 ppb	23:01:13
3	Ni 231.604†	-88.3	-10.3	-0.1190 µg/L	-0.1190 ppb	23:01:13
3	P 214.914†	-16.7	1.5	0.3230 µg/L	0.3230 ppb	23:01:13
3	Pb 220.353†	101.8	13.8	0.7699 µg/L	0.7699 ppb	23:01:13
3	S 181.975 Axial†	95.5	-11.1	-8.2190 µg/L	-8.2190 ppb	23:01:13
3	Sb 206.836†	89.0	6.7	0.8032 µg/L	0.8032 ppb	23:01:13
3	Se 196.026†	12.4	-3.0	-1.09 µg/L	-1.09 ppb	23:01:13
3	SiO2†	1870.7	65.3	6.3610 µg/L	6.3610 ppb	23:01:13
3	Si 251.611†	1192.8	337.1	4.9610 µg/L	4.9610 ppb	23:00:53
3	Sn 189.927†	11.3	12.3	0.7657 µg/L	0.7657 ppb	23:01:13
3	Ti 334.940†	1019.6	50.7	0.0482 µg/L	0.0482 ppb	23:00:53
3	Tl 190.801†	-120.0	-1.4	-0.1679 µg/L	-0.1679 ppb	23:01:13
3	U 409.014†	-299.5	-24.8	-1.4500 µg/L	-1.4500 ppb	23:00:53
3	V 292.402†	406.4	-3.9	-0.0172 µg/L	-0.0172 ppb	23:00:53
3	Zn 213.857†	589.9	16.1	0.0909 µg/L	0.0909 ppb	23:01:13

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749978.5	101.85 %	0.545			0.53%
Sc RADIAL	143730.4	98.5 %	1.17			1.19%
Y 371.029	1045752.1	101.86 %	0.548			0.54%
Ag 328.068†	-40.8	-0.1526 µg/L	0.49988	-0.1526 ppb	0.49988	327.49%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.0	1.1050 µg/L	3.09673	1.1050 ppb	3.09673	280.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.2	2.1757 µg/L	1.84349	2.1757 ppb	1.84349	84.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-29.4	-0.4343 µg/L	0.60762	-0.4343 ppb	0.60762	139.91%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.2	0.0126 µg/L	0.07891	0.0126 ppb	0.07891	623.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	193.3	0.0529 µg/L	0.02208	0.0529 ppb	0.02208	41.72%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	43.8	2.4419 µg/L	1.26955	2.4419 ppb	1.26955	51.99%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.8	0.0484 µg/L	0.13846	0.0484 ppb	0.13846	286.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.0	0.0983 µg/L	0.21607	0.0983 ppb	0.21607	219.74%

Cr 267.716†	16.5	0.1285 µg/L	0.12227	0.1285 ppb	0.12227	95.18%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-125.9	-0.4879 µg/L	0.09911	-0.4879 ppb	0.09911	20.31%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	69.7	4.2979 µg/L	0.54779	4.2979 ppb	0.54779	12.75%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	114.2	41.813 µg/L	55.1735	41.813 ppb	55.1735	131.95%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.3	-0.8494 µg/L	2.07835	-0.8494 ppb	2.07835	244.70%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	92.0	0.1138 µg/L	0.05404	0.1138 ppb	0.05404	47.47%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.6	0.1936 µg/L	0.27547	0.1936 ppb	0.27547	142.26%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-26.9	-3.7166 µg/L	8.91683	-3.7166 ppb	8.91683	239.92%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-14.7	-0.1693 µg/L	0.06752	-0.1693 ppb	0.06752	39.87%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.8	-0.3847 µg/L	0.85955	-0.3847 ppb	0.85955	223.42%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	13.2	0.7358 µg/L	0.16715	0.7358 ppb	0.16715	22.72%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-7.6	-5.6270 µg/L	4.76418	-5.6270 ppb	4.76418	84.67%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	10.4	1.2427 µg/L	0.86705	1.2427 ppb	0.86705	69.77%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.9	0.315 µg/L	1.6662	0.315 ppb	1.6662	528.34%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	86.8	8.4797 µg/L	2.67504	8.4797 ppb	2.67504	31.55%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	448.6	6.6103 µg/L	1.43246	6.6103 ppb	1.43246	21.67%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.7	0.1700 µg/L	0.56292	0.1700 ppb	0.56292	331.12%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-100.4	-0.2088 µg/L	0.07220	-0.2088 ppb	0.07220	34.57%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	45.6	0.0423 µg/L	0.15668	0.0423 ppb	0.15668	370.64%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.0	0.0032 µg/L	0.71841	0.0032 ppb	0.71841	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	17.2	0.9930 µg/L	2.24566	0.9930 ppb	2.24566	226.16%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-43.8	-0.2109 µg/L	0.51982	-0.2109 ppb	0.51982	246.42%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	13.5	0.0771 µg/L	0.04274	0.0771 ppb	0.04274	55.43%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 107

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/31/2010 23:18:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144621.4	144621.4	99.1 %		23:18:59
1	Al 396.153Radial†	26323.5	26624.9	4914.2 µg/L	4914.2 ppb	23:18:59
1	Ca 317.933Radial†	86890.8	87116.3	4852.7 µg/L	4852.7 ppb	23:18:59
1	Fe 238.204 Radial†	77681.3	78236.0	4822.0 µg/L	4822.0 ppb	23:18:59
1	K 766.490 Radial†	14559.5	13146.4	4809.1 µg/L	4809.1 ppb	23:18:59
1	Mg 279.077 IEC†	13260.2	13189.4	4921.6 µg/L	4921.6 ppb	23:18:59
1	Na 589.592 Radial†	71065.1	70417.2	9615.6 µg/L	9615.6 ppb	23:18:59
1	Sr 421.552†	226802.4	228989.5	476.02 µg/L	476.02 ppb	23:18:57
1	Sc 361.383	1740302.6	1740302.6	101.29 %		23:19:12
1	Y 371.029	1028952.4	1028952.4	100.22 %		23:19:12
1	Ag 328.068†	133614.5	127827.5	479.30 µg/L	479.30 ppb	23:19:12
1	As 188.979†	1600.2	1600.2	490.89 µg/L	490.89 ppb	23:19:32
1	B 249.677†	35788.1	31828.1	467.74 µg/L	467.74 ppb	23:19:12
1	Ba 233.527†	120219.9	118830.1	479.24 µg/L	479.24 ppb	23:19:12
1	Be 313.107†	1792744.0	1771058.2	482.36 µg/L	482.36 ppb	23:19:12
1	Cd 226.502†	77213.0	76351.3	476.62 µg/L	476.62 ppb	23:19:12
1	Co 228.616†	39286.0	38977.8	481.18 µg/L	481.18 ppb	23:19:12
1	Cr 267.716†	61813.7	60850.7	476.45 µg/L	476.45 ppb	23:19:12
1	Cu 324.752†	127063.4	122478.8	477.46 µg/L	477.46 ppb	23:19:12
1	Mn 257.610†	394634.0	389388.7	481.58 µg/L	481.58 ppb	23:19:12
1	Mo 202.031†	16315.2	16128.2	474.43 µg/L	474.43 ppb	23:19:32
1	Ni 231.604†	42026.4	41569.6	478.64 µg/L	478.64 ppb	23:19:12
1	P 214.914†	11190.5	11066.4	2358.7 µg/L	2358.7 ppb	23:19:32
1	Pb 220.353†	8740.7	8543.3	478.42 µg/L	478.42 ppb	23:19:32
1	S 181.975 Axial†	1377.8	1255.2	936.10 µg/L	936.10 ppb	23:19:32
1	Sb 206.836†	4144.7	4011.3	477.89 µg/L	477.89 ppb	23:19:32
1	Se 196.026†	1340.6	1308.3	475 µg/L	475 ppb	23:19:32
1	SiO2†	55627.7	53146.4	5174.3 µg/L	5174.3 ppb	23:19:12
1	Si 251.611†	168264.2	165292.3	2427.4 µg/L	2427.4 ppb	23:19:12
1	Sn 189.927†	7681.2	7584.9	474.45 µg/L	474.45 ppb	23:19:32
1	Ti 334.940†	520666.2	513106.3	478.76 µg/L	478.76 ppb	23:19:12
1	Tl 190.801†	3808.4	3876.8	483.51 µg/L	483.51 ppb	23:19:32
1	U 409.014†	7415.2	7590.9	472.81 µg/L	472.81 ppb	23:19:12
1	V 292.402†	98786.7	97129.3	480.13 µg/L	480.13 ppb	23:19:12
1	Zn 213.857†	87000.0	85331.6	475.59 µg/L	475.59 ppb	23:19:12
2	Sc RADIAL	142472.1	142472.1	97.6 %		23:19:03
2	Al 396.153Radial†	25927.4	26619.8	4913.0 µg/L	4913.0 ppb	23:19:03
2	Ca 317.933Radial†	85608.6	87125.7	4853.2 µg/L	4853.2 ppb	23:19:03
2	Fe 238.204 Radial†	76614.2	78325.4	4827.5 µg/L	4827.5 ppb	23:19:03
2	K 766.490 Radial†	14271.1	13072.6	4782.1 µg/L	4782.1 ppb	23:19:03
2	Mg 279.077 IEC†	13162.7	13291.5	4959.8 µg/L	4959.8 ppb	23:19:03
2	Na 589.592 Radial†	70188.6	70601.3	9640.7 µg/L	9640.7 ppb	23:19:03
2	Sr 421.552†	229468.1	235172.4	488.87 µg/L	488.87 ppb	23:19:01
2	Sc 361.383	1723519.2	1723519.2	100.31 %		23:19:35
2	Y 371.029	1019447.3	1019447.3	99.295 %		23:19:35
2	Ag 328.068†	132544.4	128045.3	480.11 µg/L	480.11 ppb	23:19:35
2	As 188.979†	1616.7	1632.0	500.53 µg/L	500.53 ppb	23:19:55
2	B 249.677†	35773.7	32157.7	472.61 µg/L	472.61 ppb	23:19:35
2	Ba 233.527†	119609.8	119377.7	481.45 µg/L	481.45 ppb	23:19:35
2	Be 313.107†	1778804.5	1774397.6	483.27 µg/L	483.27 ppb	23:19:35
2	Cd 226.502†	76467.8	76350.8	476.61 µg/L	476.61 ppb	23:19:35
2	Co 228.616†	38765.7	38836.8	479.44 µg/L	479.44 ppb	23:19:35
2	Cr 267.716†	61178.2	60811.4	476.15 µg/L	476.15 ppb	23:19:35
2	Cu 324.752†	126162.4	122802.1	478.71 µg/L	478.71 ppb	23:19:35
2	Mn 257.610†	391126.3	389685.9	481.95 µg/L	481.95 ppb	23:19:35
2	Mo 202.031†	16388.5	16358.2	481.19 µg/L	481.19 ppb	23:19:55
2	Ni 231.604†	41688.5	41636.7	479.42 µg/L	479.42 ppb	23:19:35
2	P 214.914†	11227.5	11210.9	2389.5 µg/L	2389.5 ppb	23:19:55
2	Pb 220.353†	8752.6	8639.3	483.80 µg/L	483.80 ppb	23:19:55

2	S 181.975 Axial†	1387.2	1277.9	952.97 µg/L	952.97 ppb	23:19:55
2	Sb 206.836†	4153.3	4059.7	483.76 µg/L	483.76 ppb	23:19:55
2	Se 196.026†	1345.0	1325.6	481 µg/L	481 ppb	23:19:55
2	SiO2†	55194.2	53249.1	5184.0 µg/L	5184.0 ppb	23:19:35
2	Si 251.611†	166652.6	165303.4	2427.5 µg/L	2427.5 ppb	23:19:35
2	Sn 189.927†	7721.4	7698.8	481.56 µg/L	481.56 ppb	23:19:55
2	Ti 334.940†	516481.7	513940.5	479.54 µg/L	479.54 ppb	23:19:35
2	Tl 190.801†	3825.6	3930.5	490.14 µg/L	490.14 ppb	23:19:55
2	U 409.014†	7186.2	7434.0	463.72 µg/L	463.72 ppb	23:19:35
2	V 292.402†	98156.4	97450.7	481.75 µg/L	481.75 ppb	23:19:35
2	Zn 213.857†	86133.5	85304.1	475.43 µg/L	475.43 ppb	23:19:35
3	Sc RADIAL	143809.9	143809.9	98.5 %		23:19:07
3	Al 396.153Radial†	26240.2	26690.2	4926.1 µg/L	4926.1 ppb	23:19:07
3	Ca 317.933Radial†	86148.8	86858.1	4838.3 µg/L	4838.3 ppb	23:19:07
3	Fe 238.204 Radial†	77300.3	78291.6	4825.4 µg/L	4825.4 ppb	23:19:07
3	K 766.490 Radial†	14495.5	13164.4	4815.7 µg/L	4815.7 ppb	23:19:07
3	Mg 279.077 IEC†	13104.6	13107.1	4891.0 µg/L	4891.0 ppb	23:19:07
3	Na 589.592 Radial†	70560.3	70309.6	9600.9 µg/L	9600.9 ppb	23:19:07
3	Sr 421.552†	228660.9	232166.8	482.62 µg/L	482.62 ppb	23:19:05
3	Sc 361.383	1735011.3	1735011.3	100.98 %		23:19:58
3	Y 371.029	1026280.7	1026280.7	99.960 %		23:19:58
3	Ag 328.068†	133432.9	128050.0	480.14 µg/L	480.14 ppb	23:19:58
3	As 188.979†	1602.2	1607.1	492.96 µg/L	492.96 ppb	23:20:18
3	B 249.677†	35929.6	32076.0	471.40 µg/L	471.40 ppb	23:19:58
3	Ba 233.527†	120028.3	119002.3	479.93 µg/L	479.93 ppb	23:19:58
3	Be 313.107†	1790709.1	1774441.1	483.28 µg/L	483.28 ppb	23:19:58
3	Cd 226.502†	76990.5	76363.5	476.69 µg/L	476.69 ppb	23:19:58
3	Co 228.616†	38992.1	38805.0	479.05 µg/L	479.05 ppb	23:19:58
3	Cr 267.716†	61553.2	60778.9	475.89 µg/L	475.89 ppb	23:19:58
3	Cu 324.752†	126757.9	122558.7	477.77 µg/L	477.77 ppb	23:19:58
3	Mn 257.610†	393545.3	389498.8	481.72 µg/L	481.72 ppb	23:19:58
3	Mo 202.031†	16392.4	16253.8	478.12 µg/L	478.12 ppb	23:20:18
3	Ni 231.604†	41888.6	41559.7	478.53 µg/L	478.53 ppb	23:19:58
3	P 214.914†	11251.6	11160.7	2378.8 µg/L	2378.8 ppb	23:20:18
3	Pb 220.353†	8767.6	8596.3	481.39 µg/L	481.39 ppb	23:20:18
3	S 181.975 Axial†	1362.8	1244.5	928.19 µg/L	928.19 ppb	23:20:18
3	Sb 206.836†	4134.8	4013.9	478.27 µg/L	478.27 ppb	23:20:18
3	Se 196.026†	1346.5	1318.2	479 µg/L	479 ppb	23:20:18
3	SiO2†	55432.8	53120.9	5171.6 µg/L	5171.6 ppb	23:19:58
3	Si 251.611†	167686.3	165226.7	2426.4 µg/L	2426.4 ppb	23:19:58
3	Sn 189.927†	7743.2	7669.3	479.72 µg/L	479.72 ppb	23:20:18
3	Ti 334.940†	520000.5	514014.7	479.61 µg/L	479.61 ppb	23:19:58
3	Tl 190.801†	3827.1	3906.8	487.22 µg/L	487.22 ppb	23:20:18
3	U 409.014†	7368.8	7567.3	471.52 µg/L	471.52 ppb	23:19:58
3	V 292.402†	98829.1	97468.7	481.82 µg/L	481.82 ppb	23:19:58
3	Zn 213.857†	86772.4	85368.1	475.79 µg/L	475.79 ppb	23:19:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732944.4	100.86 %	0.499			0.50%
Sc RADIAL	143634.5	98.4 %	0.74			0.76%
Y 371.029	1024893.5	99.825 %	0.4775			0.48%
Ag 328.068†	127974.3	479.85 µg/L	0.478	479.85 ppb	0.478	0.10%
QC value within limits for Ag 328.068 Recovery = 95.97%						
Al 396.153Radial†	26645.0	4917.8 µg/L	7.28	4917.8 ppb	7.28	0.15%
QC value within limits for Al 396.153Radial Recovery = 98.36%						
As 188.979†	1613.1	494.79 µg/L	5.073	494.79 ppb	5.073	1.03%
QC value within limits for As 188.979 Recovery = 98.96%						
B 249.677†	32020.6	470.58 µg/L	2.536	470.58 ppb	2.536	0.54%
QC value within limits for B 249.677 Recovery = 94.12%						
Ba 233.527†	119070.1	480.21 µg/L	1.130	480.21 ppb	1.130	0.24%
QC value within limits for Ba 233.527 Recovery = 96.04%						
Be 313.107†	1773298.9	482.97 µg/L	0.528	482.97 ppb	0.528	0.11%
QC value within limits for Be 313.107 Recovery = 96.59%						
Ca 317.933Radial†	87033.4	4848.1 µg/L	8.46	4848.1 ppb	8.46	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.96%						
Cd 226.502†	76355.2	476.64 µg/L	0.045	476.64 ppb	0.045	0.01%
QC value within limits for Cd 226.502 Recovery = 95.33%						
Co 228.616†	38873.2	479.89 µg/L	1.134	479.89 ppb	1.134	0.24%

Cr	267.716†	60813.7	476.16 µg/L	0.280	476.16 ppb	0.280	0.06%
Cu	324.752†	122613.2	477.98 µg/L	0.651	477.98 ppb	0.651	0.14%
Fe	238.204 Radial†	78284.3	4825.0 µg/L	2.78	4825.0 ppb	2.78	0.06%
K	766.490 Radial†	13127.8	4802.3 µg/L	17.82	4802.3 ppb	17.82	0.37%
Mg	279.077 IEC†	13196.0	4924.2 µg/L	34.46	4924.2 ppb	34.46	0.70%
Mn	257.610†	389524.5	481.75 µg/L	0.185	481.75 ppb	0.185	0.04%
Mo	202.031†	16246.8	477.91 µg/L	3.385	477.91 ppb	3.385	0.71%
Na	589.592 Radial†	70442.7	9619.1 µg/L	20.17	9619.1 ppb	20.17	0.21%
Ni	231.604†	41588.7	478.86 µg/L	0.483	478.86 ppb	0.483	0.10%
P	214.914†	11146.0	2375.7 µg/L	15.67	2375.7 ppb	15.67	0.66%
Pb	220.353†	8593.0	481.20 µg/L	2.697	481.20 ppb	2.697	0.56%
S	181.975 Axial†	1259.2	939.09 µg/L	12.659	939.09 ppb	12.659	1.35%
Sb	206.836†	4028.3	479.97 µg/L	3.284	479.97 ppb	3.284	0.68%
Se	196.026†	1317.4	478 µg/L	3.1	478 ppb	3.1	0.65%
SiO2†		53172.1	5176.6 µg/L	6.53	5176.6 ppb	6.53	0.13%
Si	251.611†	165274.1	2427.1 µg/L	0.62	2427.1 ppb	0.62	0.03%
Sn	189.927†	7651.0	478.58 µg/L	3.688	478.58 ppb	3.688	0.77%
Sr	421.552†	232109.6	482.50 µg/L	6.428	482.50 ppb	6.428	1.33%
Ti	334.940†	513687.1	479.31 µg/L	0.472	479.31 ppb	0.472	0.10%
Tl	190.801†	3904.7	486.96 µg/L	3.327	486.96 ppb	3.327	0.68%
U	409.014†	7530.7	469.35 µg/L	4.918	469.35 ppb	4.918	1.05%
V	292.402†	97349.6	481.23 µg/L	0.958	481.23 ppb	0.958	0.20%
Zn	213.857†	85334.6	475.60 µg/L	0.184	475.60 ppb	0.184	0.04%

QC value within limits for Co 228.616 Recovery = 95.98%

QC value within limits for Cr 267.716 Recovery = 95.23%

QC value within limits for Cu 324.752 Recovery = 95.60%

QC value within limits for Fe 238.204 Radial Recovery = 96.50%

QC value within limits for K 766.490 Radial Recovery = 96.05%

QC value within limits for Mg 279.077 IEC Recovery = 98.48%

QC value within limits for Mn 257.610 Recovery = 96.35%

QC value within limits for Mo 202.031 Recovery = 95.58%

QC value within limits for Na 589.592 Radial Recovery = 96.19%

QC value within limits for Ni 231.604 Recovery = 95.77%

QC value within limits for P 214.914 Recovery = 95.03%

QC value within limits for Pb 220.353 Recovery = 96.24%

QC value within limits for S 181.975 Axial Recovery = 93.91%

QC value within limits for Sb 206.836 Recovery = 95.99%

QC value within limits for Se 196.026 Recovery = 95.67%

QC value within limits for SiO2 Recovery = 96.80%

QC value within limits for Si 251.611 Recovery = 97.08%

QC value within limits for Sn 189.927 Recovery = 95.72%

QC value within limits for Sr 421.552 Recovery = 96.50%

QC value within limits for Ti 334.940 Recovery = 95.86%

QC value within limits for Tl 190.801 Recovery = 97.39%

QC value within limits for U 409.014 Recovery = 93.87%

QC value within limits for V 292.402 Recovery = 96.25%

QC value within limits for Zn 213.857 Recovery = 95.12%

All analyte(s) passed QC.

Sequence No.: 108

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/31/2010 23:20:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144721.0	144721.0	99.2 %		23:20:58
1	Al 396.153Radial†	-83.6	-21.0	-3.8947 µg/L	-3.8947 ppb	23:21:18
1	Ca 317.933Radial†	580.4	24.7	1.3750 µg/L	1.3750 ppb	23:21:18
1	Fe 238.204 Radial†	196.1	49.7	3.0605 µg/L	3.0605 ppb	23:21:18
1	K 766.490 Radial†	1602.1	70.7	25.883 µg/L	25.883 ppb	23:20:58
1	Mg 279.077 IEC†	205.0	16.0	5.9406 µg/L	5.9406 ppb	23:21:18
1	Na 589.592 Radial†	1213.9	-66.8	-9.1423 µg/L	-9.1423 ppb	23:20:58
1	Sr 421.552†	-55.9	78.9	0.1640 µg/L	0.1640 ppb	23:20:58
1	Sc 361.383	1740172.6	1740172.6	101.28 %		23:22:05
1	Y 371.029	1040560.6	1040560.6	101.35 %		23:22:05
1	Ag 328.068†	3851.9	-288.0	-1.0737 µg/L	-1.0737 ppb	23:22:08
1	As 188.979†	-3.9	16.5	4.9867 µg/L	4.9867 ppb	23:22:28
1	B 249.677†	3520.7	-29.6	-0.4370 µg/L	-0.4370 ppb	23:22:08
1	Ba 233.527†	-128.4	9.1	0.0366 µg/L	0.0366 ppb	23:22:28
1	Be 313.107†	-942.4	134.2	0.0343 µg/L	0.0343 ppb	23:22:08
1	Cd 226.502†	-109.3	10.3	0.0637 µg/L	0.0637 ppb	23:22:28
1	Co 228.616†	-168.6	23.8	0.2936 µg/L	0.2936 ppb	23:22:28
1	Cr 267.716†	186.3	5.4	0.0484 µg/L	0.0484 ppb	23:22:28
1	Cu 324.752†	2967.4	-42.3	-0.1696 µg/L	-0.1696 ppb	23:22:08
1	Mn 257.610†	341.2	99.6	0.1230 µg/L	0.1230 ppb	23:22:28
1	Mo 202.031†	-26.0	-5.6	-0.1652 µg/L	-0.1652 ppb	23:22:28
1	Ni 231.604†	-86.6	-8.9	-0.1030 µg/L	-0.1030 ppb	23:22:28
1	P 214.914†	2.1	20.0	4.2896 µg/L	4.2896 ppb	23:22:28
1	Pb 220.353†	89.4	1.9	0.1123 µg/L	0.1123 ppb	23:22:28
1	S 181.975 Axial†	95.7	-10.5	-7.8226 µg/L	-7.8226 ppb	23:22:28
1	Sb 206.836†	91.9	9.9	1.1769 µg/L	1.1769 ppb	23:22:28
1	Se 196.026†	23.5	7.9	2.85 µg/L	2.85 ppb	23:22:28
1	SiO2†	1814.1	15.9	1.5390 µg/L	1.5390 ppb	23:22:28
1	Si 251.611†	917.6	69.4	1.0187 µg/L	1.0187 ppb	23:22:08
1	Sn 189.927†	16.5	17.4	1.0880 µg/L	1.0880 ppb	23:22:28
1	Ti 334.940†	1176.4	209.1	0.1979 µg/L	0.1979 ppb	23:22:08
1	Tl 190.801†	-110.5	7.6	0.9307 µg/L	0.9307 ppb	23:22:28
1	U 409.014†	-401.5	-126.5	-7.3869 µg/L	-7.3869 ppb	23:22:08
1	V 292.402†	444.8	35.4	0.1657 µg/L	0.1657 ppb	23:22:08
1	Zn 213.857†	587.2	15.4	0.0869 µg/L	0.0869 ppb	23:22:28
2	Sc RADIAL	144189.3	144189.3	98.8 %		23:21:20
2	Al 396.153Radial†	-42.6	20.1	3.7335 µg/L	3.7335 ppb	23:21:40
2	Ca 317.933Radial†	605.6	52.4	2.9175 µg/L	2.9175 ppb	23:21:40
2	Fe 238.204 Radial†	235.5	90.2	5.5587 µg/L	5.5587 ppb	23:21:40
2	K 766.490 Radial†	1804.3	281.3	102.99 µg/L	102.99 ppb	23:21:20
2	Mg 279.077 IEC†	185.5	-3.0	-1.1298 µg/L	-1.1298 ppb	23:21:40
2	Na 589.592 Radial†	1392.4	118.4	16.088 µg/L	16.088 ppb	23:21:20
2	Sr 421.552†	-172.0	-38.8	-0.0807 µg/L	-0.0807 ppb	23:21:20
2	Sc 361.383	1750632.4	1750632.4	101.89 %		23:22:30
2	Y 371.029	1045632.3	1045632.3	101.85 %		23:22:30
2	Ag 328.068†	3884.1	-279.2	-1.0517 µg/L	-1.0517 ppb	23:22:32
2	As 188.979†	-9.6	10.9	3.2935 µg/L	3.2935 ppb	23:22:52
2	B 249.677†	3509.8	-61.1	-0.9032 µg/L	-0.9032 ppb	23:22:32
2	Ba 233.527†	-114.7	23.2	0.0931 µg/L	0.0931 ppb	23:22:52
2	Be 313.107†	-767.6	311.3	0.0822 µg/L	0.0822 ppb	23:22:32
2	Cd 226.502†	-108.6	11.6	0.0718 µg/L	0.0718 ppb	23:22:52
2	Co 228.616†	-145.0	48.0	0.5919 µg/L	0.5919 ppb	23:22:52
2	Cr 267.716†	155.6	-25.9	-0.1960 µg/L	-0.1960 ppb	23:22:52
2	Cu 324.752†	2910.6	-115.5	-0.4545 µg/L	-0.4545 ppb	23:22:32
2	Mn 257.610†	337.8	94.3	0.1167 µg/L	0.1167 ppb	23:22:52
2	Mo 202.031†	-28.0	-7.4	-0.2186 µg/L	-0.2186 ppb	23:22:52
2	Ni 231.604†	-82.4	-4.3	-0.0499 µg/L	-0.0499 ppb	23:22:52
2	P 214.914†	-26.2	-7.8	-1.6582 µg/L	-1.6582 ppb	23:22:52
2	Pb 220.353†	84.8	-3.2	-0.1707 µg/L	-0.1707 ppb	23:22:52

2	S 181.975 Axial†	94.4	-12.4	-9.1963 µg/L	-9.1963 ppb	23:22:52
2	Sb 206.836†	90.2	7.7	0.9179 µg/L	0.9179 ppb	23:22:52
2	Se 196.026†	18.0	2.4	0.844 µg/L	0.844 ppb	23:22:52
2	SiO2†	1787.8	-20.7	-2.0247 µg/L	-2.0247 ppb	23:22:52
2	Si 251.611†	881.0	28.1	0.4136 µg/L	0.4136 ppb	23:22:32
2	Sn 189.927†	7.3	8.3	0.5186 µg/L	0.5186 ppb	23:22:52
2	Ti 334.940†	950.4	-19.7	-0.0148 µg/L	-0.0148 ppb	23:22:32
2	Tl 190.801†	-105.4	13.3	1.6208 µg/L	1.6208 ppb	23:22:52
2	U 409.014†	-420.2	-142.5	-8.3714 µg/L	-8.3714 ppb	23:22:32
2	V 292.402†	279.7	-129.3	-0.6400 µg/L	-0.6400 ppb	23:22:32
2	Zn 213.857†	564.2	-10.7	-0.0598 µg/L	-0.0598 ppb	23:22:52
3	Sc RADIAL	144369.9	144369.9	98.9 %		23:21:42
3	Al 396.153Radial†	-72.5	-10.1	-1.8730 µg/L	-1.8730 ppb	23:22:02
3	Ca 317.933Radial†	584.3	30.1	1.6744 µg/L	1.6744 ppb	23:22:02
3	Fe 238.204 Radial†	204.0	58.1	3.5807 µg/L	3.5807 ppb	23:22:02
3	K 766.490 Radial†	1674.9	148.2	54.270 µg/L	54.270 ppb	23:21:42
3	Mg 279.077 IEC†	184.9	-3.8	-1.4254 µg/L	-1.4254 ppb	23:22:02
3	Na 589.592 Radial†	1285.3	8.4	1.0985 µg/L	1.0985 ppb	23:21:42
3	Sr 421.552†	-188.2	-55.0	-0.1143 µg/L	-0.1143 ppb	23:21:42
3	Sc 361.383	1741492.2	1741492.2	101.35 %		23:22:54
3	Y 371.029	1040823.4	1040823.4	101.38 %		23:22:54
3	Ag 328.068†	4356.2	206.6	0.7527 µg/L	0.7527 ppb	23:22:56
3	As 188.979†	-10.3	10.2	3.0901 µg/L	3.0901 ppb	23:23:16
3	B 249.677†	3495.4	-57.2	-0.8448 µg/L	-0.8448 ppb	23:22:56
3	Ba 233.527†	-104.9	32.3	0.1301 µg/L	0.1301 ppb	23:23:16
3	Be 313.107†	-758.4	316.4	0.0840 µg/L	0.0840 ppb	23:22:56
3	Cd 226.502†	-93.1	26.3	0.1638 µg/L	0.1638 ppb	23:23:16
3	Co 228.616†	-177.9	14.8	0.1826 µg/L	0.1826 ppb	23:23:16
3	Cr 267.716†	215.5	34.0	0.2721 µg/L	0.2721 ppb	23:23:16
3	Cu 324.752†	2926.0	-85.3	-0.3369 µg/L	-0.3369 ppb	23:22:56
3	Mn 257.610†	318.8	77.2	0.0956 µg/L	0.0956 ppb	23:23:16
3	Mo 202.031†	-22.0	-1.7	-0.0489 µg/L	-0.0489 ppb	23:23:16
3	Ni 231.604†	-129.1	-50.8	-0.5854 µg/L	-0.5854 ppb	23:23:16
3	P 214.914†	-27.8	-9.5	-2.0268 µg/L	-2.0268 ppb	23:23:16
3	Pb 220.353†	99.2	11.4	0.6440 µg/L	0.6440 ppb	23:23:16
3	S 181.975 Axial†	104.2	-2.2	-1.6435 µg/L	-1.6435 ppb	23:23:16
3	Sb 206.836†	80.2	-1.7	-0.2024 µg/L	-0.2024 ppb	23:23:16
3	Se 196.026†	-2.8	-18.0	-6.52 µg/L	-6.52 ppb	23:23:16
3	SiO2†	1785.7	-13.5	-1.3191 µg/L	-1.3191 ppb	23:23:16
3	Si 251.611†	942.5	93.3	1.3760 µg/L	1.3760 ppb	23:22:56
3	Sn 189.927†	-0.1	1.0	0.0628 µg/L	0.0628 ppb	23:23:16
3	Ti 334.940†	1040.9	74.5	0.0726 µg/L	0.0726 ppb	23:22:56
3	Tl 190.801†	-122.9	-4.6	-0.5664 µg/L	-0.5664 ppb	23:23:16
3	U 409.014†	-398.4	-123.1	-7.2165 µg/L	-7.2165 ppb	23:22:56
3	V 292.402†	352.1	-56.4	-0.2799 µg/L	-0.2799 ppb	23:22:56
3	Zn 213.857†	592.9	20.6	0.1194 µg/L	0.1194 ppb	23:23:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1744099.1	101.51 %	0.332			0.33%
Sc RADIAL	144426.7	99.0 %	0.19			0.19%
Y 371.029	1042338.8	101.52 %	0.278			0.27%
Ag 328.068†	-120.2	-0.4576 µg/L	1.04821	-0.4576 ppb	1.04821	229.09%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.7	-0.6781 µg/L	3.95199	-0.6781 ppb	3.95199	582.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	12.5	3.7901 µg/L	1.04128	3.7901 ppb	1.04128	27.47%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-49.3	-0.7283 µg/L	0.25394	-0.7283 ppb	0.25394	34.87%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.5	0.0866 µg/L	0.04706	0.0866 ppb	0.04706	54.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	254.0	0.0668 µg/L	0.02820	0.0668 ppb	0.02820	42.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	35.7	1.9890 µg/L	0.81790	1.9890 ppb	0.81790	41.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	16.1	0.0998 µg/L	0.05561	0.0998 ppb	0.05561	55.74%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	28.9	0.3560 µg/L	0.21172	0.3560 ppb	0.21172	59.47%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	4.5	0.0415 µg/L	0.23416 0.0415 ppb 0.23416 564.27%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-81.0	-0.3203 µg/L	0.14318 -0.3203 ppb 0.14318 44.70%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	66.0	4.0666 µg/L	1.31807 4.0666 ppb 1.31807 32.41%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	166.7	61.047 µg/L	38.9970 61.047 ppb 38.9970 63.88%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.0	1.1285 µg/L	4.17006 1.1285 ppb 4.17006 369.53%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	90.4	0.1118 µg/L	0.01435 0.1118 ppb 0.01435 12.84%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-4.9	-0.1442 µg/L	0.08677 -0.1442 ppb 0.08677 60.15%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	20.0	2.6814 µg/L	12.68942 2.6814 ppb 12.68942 473.24%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-21.4	-0.2461 µg/L	0.29505 -0.2461 ppb 0.29505 119.90%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	0.9	0.2015 µg/L	3.54518 0.2015 ppb 3.54518 >999.9%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	3.4	0.1952 µg/L	0.41363 0.1952 ppb 0.41363 211.92%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-8.4	-6.2208 µg/L	4.02315 -6.2208 ppb 4.02315 64.67%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.3	0.6308 µg/L	0.73310 0.6308 ppb 0.73310 116.22%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-2.6	-0.941 µg/L	4.9356 -0.941 ppb 4.9356 524.57%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-6.1	-0.6016 µg/L	1.88709 -0.6016 ppb 1.88709 313.69%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	63.6	0.9361 µg/L	0.48651 0.9361 ppb 0.48651 51.97%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	8.9	0.5565 µg/L	0.51367 0.5565 ppb 0.51367 92.31%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.0	-0.0103 µg/L	0.15190 -0.0103 ppb 0.15190 >999.9%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	87.9	0.0852 µg/L	0.10689 0.0852 ppb 0.10689 125.39%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	5.4	0.6617 µg/L	1.11813 0.6617 ppb 1.11813 168.98%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-130.7	-7.6583 µg/L	0.62345 -7.6583 ppb 0.62345 8.14%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-50.1	-0.2514 µg/L	0.40359 -0.2514 ppb 0.40359 160.55%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	8.4	0.0488 µg/L	0.09550 0.0488 ppb 0.09550 195.59%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 119
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/31/2010 23:44:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144132.6	144132.6	98.8 %		23:45:03
1	Al 396.153Radial†	26296.2	26687.3	4925.8 µg/L	4925.8 ppb	23:45:03
1	Ca 317.933Radial†	86285.0	86800.3	4835.1 µg/L	4835.1 ppb	23:45:03
1	Fe 238.204 Radial†	77336.8	78153.0	4816.9 µg/L	4816.9 ppb	23:45:03
1	K 766.490 Radial†	14372.8	13007.2	4758.2 µg/L	4758.2 ppb	23:45:03
1	Mg 279.077 IEC†	13164.6	13138.1	4902.5 µg/L	4902.5 ppb	23:45:03
1	Na 589.592 Radial†	70648.2	70238.4	9591.2 µg/L	9591.2 ppb	23:45:03
1	Sr 421.552†	230039.5	233043.2	484.45 µg/L	484.45 ppb	23:45:01
1	Sc 361.383	1743955.0	1743955.0	101.50 %		23:45:30
1	Y 371.029	1030705.1	1030705.1	100.39 %		23:45:30
1	Ag 328.068†	134389.6	128314.9	481.13 µg/L	481.13 ppb	23:45:30
1	As 188.979†	1617.5	1614.0	495.08 µg/L	495.08 ppb	23:45:50
1	B 249.677†	36323.2	32281.3	474.42 µg/L	474.42 ppb	23:45:30
1	Ba 233.527†	120941.4	119292.4	481.10 µg/L	481.10 ppb	23:45:30
1	Be 313.107†	1804931.8	1779359.2	484.62 µg/L	484.62 ppb	23:45:30
1	Cd 226.502†	77856.9	76826.1	479.58 µg/L	479.58 ppb	23:45:30
1	Co 228.616†	39432.5	39040.8	481.96 µg/L	481.96 ppb	23:45:30
1	Cr 267.716†	62111.2	61016.0	477.74 µg/L	477.74 ppb	23:45:30
1	Cu 324.752†	127832.7	122973.9	479.39 µg/L	479.39 ppb	23:45:30
1	Mn 257.610†	396902.5	390807.7	483.34 µg/L	483.34 ppb	23:45:30
1	Mo 202.031†	16367.7	16146.2	474.96 µg/L	474.96 ppb	23:45:50
1	Ni 231.604†	42121.9	41576.8	478.73 µg/L	478.73 ppb	23:45:30
1	P 214.914†	11245.4	11097.4	2365.3 µg/L	2365.3 ppb	23:45:50
1	Pb 220.353†	8777.1	8561.2	479.42 µg/L	479.42 ppb	23:45:50
1	S 181.975 Axial†	1374.9	1249.5	931.87 µg/L	931.87 ppb	23:45:50
1	Sb 206.836†	4133.7	3991.9	475.58 µg/L	475.58 ppb	23:45:50
1	Se 196.026†	1363.1	1327.7	482 µg/L	482 ppb	23:45:50
1	SiO2†	56167.1	53562.8	5214.9 µg/L	5214.9 ppb	23:45:30
1	Si 251.611†	170045.6	166699.5	2448.2 µg/L	2448.2 ppb	23:45:30
1	Sn 189.927†	7739.8	7626.7	477.06 µg/L	477.06 ppb	23:45:50
1	Ti 334.940†	523080.4	514408.2	479.98 µg/L	479.98 ppb	23:45:30
1	Tl 190.801†	3815.6	3875.9	483.43 µg/L	483.43 ppb	23:45:50
1	U 409.014†	7450.4	7610.3	474.06 µg/L	474.06 ppb	23:45:30
1	V 292.402†	99368.6	97498.3	481.94 µg/L	481.94 ppb	23:45:30
1	Zn 213.857†	87576.9	85720.0	477.77 µg/L	477.77 ppb	23:45:30
2	Sc RADIAL	143500.3	143500.3	98.3 %		23:45:07
2	Al 396.153Radial†	26117.8	26623.2	4913.8 µg/L	4913.8 ppb	23:45:07
2	Ca 317.933Radial†	85980.2	86875.2	4839.3 µg/L	4839.3 ppb	23:45:07
2	Fe 238.204 Radial†	77018.6	78174.4	4818.2 µg/L	4818.2 ppb	23:45:07
2	K 766.490 Radial†	14350.9	13049.0	4773.5 µg/L	4773.5 ppb	23:45:07
2	Mg 279.077 IEC†	13097.3	13128.4	4899.0 µg/L	4899.0 ppb	23:45:07
2	Na 589.592 Radial†	70405.7	70306.9	9600.5 µg/L	9600.5 ppb	23:45:07
2	Sr 421.552†	230191.6	234224.0	486.90 µg/L	486.90 ppb	23:45:05
2	Sc 361.383	1741142.3	1741142.3	101.33 %		23:45:53
2	Y 371.029	1028976.3	1028976.3	100.22 %		23:45:53
2	Ag 328.068†	133876.6	128022.6	480.04 µg/L	480.04 ppb	23:45:53
2	As 188.979†	1611.4	1610.6	494.02 µg/L	494.02 ppb	23:46:13
2	B 249.677†	36111.0	32129.7	472.20 µg/L	472.20 ppb	23:45:53
2	Ba 233.527†	120384.6	118935.4	479.66 µg/L	479.66 ppb	23:45:53
2	Be 313.107†	1798241.9	1775630.2	483.61 µg/L	483.61 ppb	23:45:53
2	Cd 226.502†	77471.2	76569.4	477.98 µg/L	477.98 ppb	23:45:53
2	Co 228.616†	39116.7	38792.0	478.89 µg/L	478.89 ppb	23:45:53
2	Cr 267.716†	61760.5	60768.7	475.81 µg/L	475.81 ppb	23:45:53
2	Cu 324.752†	127313.2	122664.7	478.18 µg/L	478.18 ppb	23:45:53
2	Mn 257.610†	395198.2	389757.6	482.04 µg/L	482.04 ppb	23:45:53
2	Mo 202.031†	16425.2	16229.0	477.39 µg/L	477.39 ppb	23:46:13
2	Ni 231.604†	42030.8	41554.0	478.46 µg/L	478.46 ppb	23:45:53
2	P 214.914†	11285.9	11155.2	2377.7 µg/L	2377.7 ppb	23:46:13
2	Pb 220.353†	8805.0	8602.7	481.74 µg/L	481.74 ppb	23:46:13

2	S 181.975 Axial†	1386.2	1262.9	941.84 µg/L	941.84 ppb	23:46:13
2	Sb 206.836†	4124.1	3989.0	475.29 µg/L	475.29 ppb	23:46:13
2	Se 196.026†	1357.9	1324.8	481 µg/L	481 ppb	23:46:13
2	SiO2†	55814.1	53303.9	5189.5 µg/L	5189.5 ppb	23:45:53
2	Si 251.611†	169030.5	165968.4	2437.3 µg/L	2437.3 ppb	23:45:53
2	Sn 189.927†	7760.3	7659.3	479.09 µg/L	479.09 ppb	23:46:13
2	Ti 334.940†	520780.4	512971.1	478.64 µg/L	478.64 ppb	23:45:53
2	Tl 190.801†	3842.4	3908.4	487.42 µg/L	487.42 ppb	23:46:13
2	U 409.014†	7450.4	7622.2	474.73 µg/L	474.73 ppb	23:45:53
2	V 292.402†	99152.5	97443.2	481.69 µg/L	481.69 ppb	23:45:53
2	Zn 213.857†	86966.1	85256.7	475.17 µg/L	475.17 ppb	23:45:53
3	Sc RADIAL	141926.1	141926.1	97.3 %		23:45:11
3	Al 396.153Radial†	25922.6	26717.1	4931.1 µg/L	4931.1 ppb	23:45:11
3	Ca 317.933Radial†	85061.3	86900.2	4840.7 µg/L	4840.7 ppb	23:45:11
3	Fe 238.204 Radial†	76232.3	78234.7	4821.9 µg/L	4821.9 ppb	23:45:11
3	K 766.490 Radial†	14404.4	13266.0	4852.9 µg/L	4852.9 ppb	23:45:11
3	Mg 279.077 IEC†	13020.1	13196.7	4924.4 µg/L	4924.4 ppb	23:45:11
3	Na 589.592 Radial†	69631.1	70304.6	9600.1 µg/L	9600.1 ppb	23:45:11
3	Sr 421.552†	231949.9	238628.3	496.06 µg/L	496.06 ppb	23:45:09
3	Sc 361.383	1729820.2	1729820.2	100.68 %		23:46:16
3	Y 371.029	1022158.2	1022158.2	99.559 %		23:46:16
3	Ag 328.068†	132876.1	127893.4	479.56 µg/L	479.56 ppb	23:46:16
3	As 188.979†	1593.5	1603.2	491.79 µg/L	491.79 ppb	23:46:36
3	B 249.677†	35994.3	32247.0	473.92 µg/L	473.92 ppb	23:46:16
3	Ba 233.527†	119768.8	119101.4	480.33 µg/L	480.33 ppb	23:46:16
3	Be 313.107†	1786026.7	1775111.9	483.47 µg/L	483.47 ppb	23:46:16
3	Cd 226.502†	76950.6	76552.6	477.87 µg/L	477.87 ppb	23:46:16
3	Co 228.616†	38889.1	38818.6	479.22 µg/L	479.22 ppb	23:46:16
3	Cr 267.716†	61424.2	60833.7	476.31 µg/L	476.31 ppb	23:46:16
3	Cu 324.752†	126247.1	122428.1	477.27 µg/L	477.27 ppb	23:46:16
3	Mn 257.610†	392394.3	389525.1	481.75 µg/L	481.75 ppb	23:46:16
3	Mo 202.031†	16372.3	16282.5	478.96 µg/L	478.96 ppb	23:46:36
3	Ni 231.604†	41712.3	41509.0	477.95 µg/L	477.95 ppb	23:46:16
3	P 214.914†	11238.3	11180.9	2383.2 µg/L	2383.2 ppb	23:46:36
3	Pb 220.353†	8781.7	8636.4	483.62 µg/L	483.62 ppb	23:46:36
3	S 181.975 Axial†	1376.5	1262.2	941.29 µg/L	941.29 ppb	23:46:36
3	Sb 206.836†	4136.7	4028.2	479.97 µg/L	479.97 ppb	23:46:36
3	Se 196.026†	1358.7	1334.3	485 µg/L	485 ppb	23:46:36
3	SiO2†	55649.6	53501.0	5208.7 µg/L	5208.7 ppb	23:46:16
3	Si 251.611†	167782.3	165820.3	2435.1 µg/L	2435.1 ppb	23:46:16
3	Sn 189.927†	7733.5	7682.7	480.55 µg/L	480.55 ppb	23:46:36
3	Ti 334.940†	517675.9	513251.1	478.89 µg/L	478.89 ppb	23:46:16
3	Tl 190.801†	3823.0	3914.0	488.10 µg/L	488.10 ppb	23:46:36
3	U 409.014†	7497.8	7717.4	480.25 µg/L	480.25 ppb	23:46:16
3	V 292.402†	98366.1	97302.5	481.02 µg/L	481.02 ppb	23:46:16
3	Zn 213.857†	86593.9	85448.7	476.25 µg/L	476.25 ppb	23:46:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1738305.8	101.17 %	0.435			0.43%
Sc RADIAL	143186.3	98.1 %	0.78			0.79%
Y 371.029	1027279.9	100.06 %	0.440			0.44%
Ag 328.068†	128076.9	480.24 µg/L	0.801	480.24 ppb	0.801	0.17%
QC value within limits for Ag 328.068 Recovery = 96.05%						
Al 396.153Radial†	26675.9	4923.5 µg/L	8.88	4923.5 ppb	8.88	0.18%
QC value within limits for Al 396.153Radial Recovery = 98.47%						
As 188.979†	1609.3	493.63 µg/L	1.680	493.63 ppb	1.680	0.34%
QC value within limits for As 188.979 Recovery = 98.73%						
B 249.677†	32219.3	473.51 µg/L	1.168	473.51 ppb	1.168	0.25%
QC value within limits for B 249.677 Recovery = 94.70%						
Ba 233.527†	119109.7	480.37 µg/L	0.719	480.37 ppb	0.719	0.15%
QC value within limits for Ba 233.527 Recovery = 96.07%						
Be 313.107†	1776700.4	483.90 µg/L	0.630	483.90 ppb	0.630	0.13%
QC value within limits for Be 313.107 Recovery = 96.78%						
Ca 317.933Radial†	86858.6	4838.4 µg/L	2.90	4838.4 ppb	2.90	0.06%
QC value within limits for Ca 317.933Radial Recovery = 96.77%						
Cd 226.502†	76649.4	478.48 µg/L	0.958	478.48 ppb	0.958	0.20%
QC value within limits for Cd 226.502 Recovery = 95.70%						
Co 228.616†	38883.8	480.02 µg/L	1.687	480.02 ppb	1.687	0.35%

Cr	267.716†	60872.8	476.62 µg/L	1.005	0.21%
QC value within limits for Co 228.616 Recovery = 96.00%					
Cu	324.752†	122688.9	478.28 µg/L	1.061	0.22%
QC value within limits for Cr 267.716 Recovery = 95.32%					
Fe	238.204 Radial†	78187.4	4819.0 µg/L	2.61	0.05%
QC value within limits for Cu 324.752 Recovery = 95.66%					
K	766.490 Radial†	13107.4	4794.9 µg/L	50.84	1.06%
QC value within limits for Fe 238.204 Radial Recovery = 96.38%					
Mg	279.077 IEC†	13154.4	4908.6 µg/L	13.80	0.28%
QC value within limits for K 766.490 Radial Recovery = 95.90%					
Mn	257.610†	390030.2	482.38 µg/L	0.846	0.18%
QC value within limits for Mg 279.077 IEC Recovery = 98.17%					
Mo	202.031†	16219.2	477.10 µg/L	2.018	0.42%
QC value within limits for Mn 257.610 Recovery = 96.48%					
Na	589.592 Radial†	70283.3	9597.3 µg/L	5.29	0.06%
QC value within limits for Mo 202.031 Recovery = 95.42%					
Ni	231.604†	41546.6	478.38 µg/L	0.397	0.08%
QC value within limits for Na 589.592 Radial Recovery = 95.97%					
P	214.914†	11144.5	2375.4 µg/L	9.15	0.39%
QC value within limits for Ni 231.604 Recovery = 95.68%					
Pb	220.353†	8600.1	481.59 µg/L	2.106	0.44%
QC value within limits for P 214.914 Recovery = 95.02%					
S	181.975 Axial†	1258.2	938.33 µg/L	5.605	0.60%
QC value within limits for Pb 220.353 Recovery = 96.32%					
Sb	206.836†	4003.0	476.94 µg/L	2.622	0.55%
QC value within limits for S 181.975 Axial Recovery = 93.83%					
Se	196.026†	1329.0	483 µg/L	1.8	0.37%
QC value within limits for Sb 206.836 Recovery = 95.39%					
SiO2†		53455.9	5204.4 µg/L	13.25	0.25%
QC value within limits for Se 196.026 Recovery = 96.51%					
Si	251.611†	166162.8	2440.2 µg/L	6.98	0.29%
QC value within limits for SiO2 Recovery = 97.32%					
Sn	189.927†	7656.2	478.90 µg/L	1.752	0.37%
QC value within limits for Si 251.611 Recovery = 97.61%					
Sr	421.552†	235298.5	489.13 µg/L	6.119	1.25%
QC value within limits for Sn 189.927 Recovery = 95.78%					
Ti	334.940†	513543.5	479.17 µg/L	0.712	0.15%
QC value within limits for Sr 421.552 Recovery = 97.83%					
Tl	190.801†	3899.5	486.32 µg/L	2.525	0.52%
QC value within limits for Ti 334.940 Recovery = 95.83%					
U	409.014†	7650.0	476.34 µg/L	3.400	0.71%
QC value within limits for Tl 190.801 Recovery = 97.26%					
V	292.402†	97414.7	481.55 µg/L	0.473	0.10%
QC value within limits for U 409.014 Recovery = 95.27%					
Zn	213.857†	85475.1	476.40 µg/L	1.307	0.27%
QC value within limits for V 292.402 Recovery = 96.31%					
QC value within limits for Zn 213.857 Recovery = 95.28%					

All analyte(s) passed QC.

Sequence No.: 120
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/31/2010 23:46:45
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143139.1	143139.1	98.1 %		23:47:16
1	Al 396.153Radial†	-44.4	17.9	3.3413 µg/L	3.3413 ppb	23:47:36
1	Ca 317.933Radial†	582.0	32.8	1.8256 µg/L	1.8256 ppb	23:47:36
1	Fe 238.204 Radial†	254.9	111.7	6.8857 µg/L	6.8857 ppb	23:47:36
1	K 766.490 Radial†	1616.9	103.6	37.929 µg/L	37.929 ppb	23:47:16
1	Mg 279.077 IEC†	177.5	-9.8	-3.6543 µg/L	-3.6543 ppb	23:47:36
1	Na 589.592 Radial†	1371.1	107.0	14.589 µg/L	14.589 ppb	23:47:16
1	Sr 421.552†	-218.3	-87.3	-0.1815 µg/L	-0.1815 ppb	23:47:16
1	Sc 361.383	1721067.2	1721067.2	100.17 %		23:48:23
1	Y 371.029	1029992.5	1029992.5	100.32 %		23:48:23
1	Ag 328.068†	4263.3	164.8	0.5898 µg/L	0.5898 ppb	23:48:26
1	As 188.979†	-17.1	3.3	0.9838 µg/L	0.9838 ppb	23:48:46
1	B 249.677†	3587.8	76.0	1.1202 µg/L	1.1202 ppb	23:48:26
1	Ba 233.527†	-139.7	-3.6	-0.0153 µg/L	-0.0153 ppb	23:48:46
1	Be 313.107†	-1283.0	-216.2	-0.0609 µg/L	-0.0609 ppb	23:48:26
1	Cd 226.502†	-112.6	5.8	0.0354 µg/L	0.0354 ppb	23:48:46
1	Co 228.616†	-173.9	16.7	0.2052 µg/L	0.2052 ppb	23:48:46
1	Cr 267.716†	180.0	1.2	0.0142 µg/L	0.0142 ppb	23:48:46
1	Cu 324.752†	2926.2	-50.8	-0.2020 µg/L	-0.2020 ppb	23:48:26
1	Mn 257.610†	341.1	103.2	0.1279 µg/L	0.1279 ppb	23:48:46
1	Mo 202.031†	-33.0	-12.8	-0.3775 µg/L	-0.3775 ppb	23:48:46
1	Ni 231.604†	-84.7	-8.0	-0.0923 µg/L	-0.0923 ppb	23:48:46
1	P 214.914†	-12.9	5.1	1.1019 µg/L	1.1019 ppb	23:48:46
1	Pb 220.353†	98.0	11.4	0.6420 µg/L	0.6420 ppb	23:48:46
1	S 181.975 Axial†	101.0	-4.2	-3.1438 µg/L	-3.1438 ppb	23:48:46
1	Sb 206.836†	91.8	10.9	1.2860 µg/L	1.2860 ppb	23:48:46
1	Se 196.026†	14.8	-0.5	-0.177 µg/L	-0.177 ppb	23:48:46
1	SiO2†	1836.2	57.8	5.6538 µg/L	5.6538 ppb	23:48:46
1	Si 251.611†	1107.2	268.8	3.9640 µg/L	3.9640 ppb	23:48:26
1	Sn 189.927†	7.5	8.6	0.5360 µg/L	0.5360 ppb	23:48:46
1	Ti 334.940†	947.2	-6.9	-0.0034 µg/L	-0.0034 ppb	23:48:26
1	Tl 190.801†	-108.0	8.8	1.0752 µg/L	1.0752 ppb	23:48:46
1	U 409.014†	-383.9	-113.4	-6.6898 µg/L	-6.6898 ppb	23:48:26
1	V 292.402†	195.1	-209.0	-1.0288 µg/L	-1.0288 ppb	23:48:26
1	Zn 213.857†	592.8	27.4	0.1540 µg/L	0.1540 ppb	23:48:46
2	Sc RADIAL	142955.7	142955.7	98.0 %		23:47:38
2	Al 396.153Radial†	-78.4	-16.8	-3.1397 µg/L	-3.1397 ppb	23:47:58
2	Ca 317.933Radial†	568.8	20.0	1.1154 µg/L	1.1154 ppb	23:47:58
2	Fe 238.204 Radial†	246.3	103.3	6.3692 µg/L	6.3692 ppb	23:47:58
2	K 766.490 Radial†	1462.0	-52.3	-19.161 µg/L	-19.161 ppb	23:47:38
2	Mg 279.077 IEC†	183.1	-3.8	-1.4109 µg/L	-1.4109 ppb	23:47:58
2	Na 589.592 Radial†	1236.3	-28.8	-3.9154 µg/L	-3.9154 ppb	23:47:38
2	Sr 421.552†	-279.2	-149.7	-0.3112 µg/L	-0.3112 ppb	23:47:38
2	Sc 361.383	1746509.7	1746509.7	101.65 %		23:48:48
2	Y 371.029	1042959.8	1042959.8	101.58 %		23:48:48
2	Ag 328.068†	4265.0	104.5	0.3736 µg/L	0.3736 ppb	23:48:50
2	As 188.979†	-11.7	8.8	2.6655 µg/L	2.6655 ppb	23:49:10
2	B 249.677†	3506.2	-56.5	-0.8332 µg/L	-0.8332 ppb	23:48:50
2	Ba 233.527†	-121.9	16.0	0.0640 µg/L	0.0640 ppb	23:49:10
2	Be 313.107†	-723.9	352.5	0.0944 µg/L	0.0944 ppb	23:48:50
2	Cd 226.502†	-117.5	2.6	0.0156 µg/L	0.0156 ppb	23:49:10
2	Co 228.616†	-180.5	12.8	0.1572 µg/L	0.1572 ppb	23:49:10
2	Cr 267.716†	177.3	-4.1	-0.0284 µg/L	-0.0284 ppb	23:49:10
2	Cu 324.752†	3022.2	1.1	0.0009 µg/L	0.0009 ppb	23:48:50
2	Mn 257.610†	312.9	70.6	0.0874 µg/L	0.0874 ppb	23:49:10
2	Mo 202.031†	-8.4	11.8	0.3482 µg/L	0.3482 ppb	23:49:10
2	Ni 231.604†	-112.1	-33.8	-0.3893 µg/L	-0.3893 ppb	23:49:10
2	P 214.914†	-28.4	-10.0	-2.1529 µg/L	-2.1529 ppb	23:49:10
2	Pb 220.353†	61.6	-25.8	-1.4338 µg/L	-1.4338 ppb	23:49:10

2	S 181.975 Axial†	110.6	3.7	2.7632 µg/L	2.7632 ppb	23:49:10
2	Sb 206.836†	80.8	-1.3	-0.1519 µg/L	-0.1519 ppb	23:49:10
2	Se 196.026†	7.2	-8.2	-2.97 µg/L	-2.97 ppb	23:49:10
2	SiO2†	1816.0	11.2	1.0819 µg/L	1.0819 ppb	23:49:10
2	Si 251.611†	1081.7	227.6	3.3494 µg/L	3.3494 ppb	23:48:50
2	Sn 189.927†	2.0	3.1	0.1923 µg/L	0.1923 ppb	23:49:10
2	Ti 334.940†	932.7	-34.9	-0.0304 µg/L	-0.0304 ppb	23:48:50
2	Tl 190.801†	-106.3	12.1	1.4842 µg/L	1.4842 ppb	23:49:10
2	U 409.014†	-364.3	-88.6	-5.2117 µg/L	-5.2117 ppb	23:48:50
2	V 292.402†	290.2	-118.3	-0.5776 µg/L	-0.5776 ppb	23:48:50
2	Zn 213.857†	597.7	23.6	0.1343 µg/L	0.1343 ppb	23:49:10
3	Sc RADIAL	142060.8	142060.8	97.3 %		23:48:00
3	Al 396.153Radial†	-74.7	-13.5	-2.5097 µg/L	-2.5097 ppb	23:48:20
3	Ca 317.933Radial†	575.1	30.2	1.6799 µg/L	1.6799 ppb	23:48:20
3	Fe 238.204 Radial†	223.1	81.1	4.9991 µg/L	4.9991 ppb	23:48:20
3	K 766.490 Radial†	1632.6	132.3	48.447 µg/L	48.447 ppb	23:48:00
3	Mg 279.077 IEC†	208.7	23.7	8.8315 µg/L	8.8315 ppb	23:48:20
3	Na 589.592 Radial†	1308.6	53.4	7.2507 µg/L	7.2507 ppb	23:48:00
3	Sr 421.552†	-258.5	-130.3	-0.2709 µg/L	-0.2709 ppb	23:48:00
3	Sc 361.383	1726289.1	1726289.1	100.47 %		23:49:12
3	Y 371.029	1031437.7	1031437.7	100.46 %		23:49:12
3	Ag 328.068†	4170.2	59.3	0.2058 µg/L	0.2058 ppb	23:49:14
3	As 188.979†	-17.6	2.8	0.8598 µg/L	0.8598 ppb	23:49:34
3	B 249.677†	3575.5	52.9	0.7802 µg/L	0.7802 ppb	23:49:14
3	Ba 233.527†	-111.6	24.8	0.0994 µg/L	0.0994 ppb	23:49:34
3	Be 313.107†	-874.1	194.7	0.0518 µg/L	0.0518 ppb	23:49:14
3	Cd 226.502†	-142.0	-23.1	-0.1448 µg/L	-0.1448 ppb	23:49:34
3	Co 228.616†	-193.8	-2.6	-0.0317 µg/L	-0.0317 ppb	23:49:34
3	Cr 267.716†	191.0	11.5	0.0933 µg/L	0.0933 ppb	23:49:34
3	Cu 324.752†	2976.0	-10.1	-0.0417 µg/L	-0.0417 ppb	23:49:14
3	Mn 257.610†	330.2	91.4	0.1127 µg/L	0.1127 ppb	23:49:34
3	Mo 202.031†	-17.5	2.7	0.0796 µg/L	0.0796 ppb	23:49:34
3	Ni 231.604†	-80.8	-3.9	-0.0446 µg/L	-0.0446 ppb	23:49:34
3	P 214.914†	-31.6	-13.5	-2.8878 µg/L	-2.8878 ppb	23:49:34
3	Pb 220.353†	72.3	-14.4	-0.8013 µg/L	-0.8013 ppb	23:49:34
3	S 181.975 Axial†	108.9	3.3	2.4479 µg/L	2.4479 ppb	23:49:34
3	Sb 206.836†	90.6	9.4	1.1111 µg/L	1.1111 ppb	23:49:34
3	Se 196.026†	27.8	12.4	4.47 µg/L	4.47 ppb	23:49:34
3	SiO2†	1848.9	64.9	6.3403 µg/L	6.3403 ppb	23:49:34
3	Si 251.611†	1214.9	372.7	5.4917 µg/L	5.4917 ppb	23:49:14
3	Sn 189.927†	3.0	4.1	0.2558 µg/L	0.2558 ppb	23:49:34
3	Ti 334.940†	1155.8	197.9	0.1859 µg/L	0.1859 ppb	23:49:14
3	Tl 190.801†	-94.9	22.3	2.7336 µg/L	2.7336 ppb	23:49:34
3	U 409.014†	-341.4	-69.9	-4.1301 µg/L	-4.1301 ppb	23:49:14
3	V 292.402†	256.5	-148.5	-0.7266 µg/L	-0.7266 ppb	23:49:14
3	Zn 213.857†	589.1	22.0	0.1232 µg/L	0.1232 ppb	23:49:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1731288.6	100.76 %	0.782			0.78%
Sc RADIAL	142718.5	97.8 %	0.40			0.40%
Y 371.029	1034796.7	100.79 %	0.692			0.69%
Ag 328.068†	109.5	0.3897 µg/L	0.19255	0.3897 ppb	0.19255	49.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.1	-0.7694 µg/L	3.57387	-0.7694 ppb	3.57387	464.53%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.0	1.5030 µg/L	1.00867	1.5030 ppb	1.00867	67.11%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	24.1	0.3557 µg/L	1.04358	0.3557 ppb	1.04358	293.37%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	12.4	0.0494 µg/L	0.05873	0.0494 ppb	0.05873	118.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	110.4	0.0284 µg/L	0.08023	0.0284 ppb	0.08023	282.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	27.7	1.5403 µg/L	0.37512	1.5403 ppb	0.37512	24.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-4.9	-0.0313 µg/L	0.09882	-0.0313 ppb	0.09882	315.68%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	9.0	0.1102 µg/L	0.12522	0.1102 ppb	0.12522	113.62%

Cr	267.716†	2.9	0.0263 µg/L	0.06173	0.0263 ppb	0.06173	234.26%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-20.0	-0.0809 µg/L	0.10696	-0.0809 ppb	0.10696	132.15%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	98.7	6.0847 µg/L	0.97498	6.0847 ppb	0.97498	16.02%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	61.2	22.405 µg/L	36.3791	22.405 ppb	36.3791	162.37%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	3.4	1.2555 µg/L	6.65627	1.2555 ppb	6.65627	530.18%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	88.4	0.1093 µg/L	0.02047	0.1093 ppb	0.02047	18.73%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	0.6	0.0168 µg/L	0.36692	0.0168 ppb	0.36692	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	43.9	5.9749 µg/L	9.31815	5.9749 ppb	9.31815	155.96%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	-15.2	-0.1754 µg/L	0.18674	-0.1754 ppb	0.18674	106.47%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	-6.1	-1.3129 µg/L	2.12332	-1.3129 ppb	2.12332	161.72%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-9.6	-0.5310 µg/L	1.06398	-0.5310 ppb	1.06398	200.37%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	0.9	0.6891 µg/L	3.32317	0.6891 ppb	3.32317	482.25%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	6.3	0.7484 µg/L	0.78460	0.7484 ppb	0.78460	104.84%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	1.2	0.441 µg/L	3.7613	0.441 ppb	3.7613	853.72%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		44.6	4.3586 µg/L	2.85844	4.3586 ppb	2.85844	65.58%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	289.7	4.2683 µg/L	1.10310	4.2683 ppb	1.10310	25.84%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	5.3	0.3280 µg/L	0.18288	0.3280 ppb	0.18288	55.75%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	-122.4	-0.2545 µg/L	0.06637	-0.2545 ppb	0.06637	26.08%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	52.0	0.0507 µg/L	0.11782	0.0507 ppb	0.11782	232.33%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	14.4	1.7643 µg/L	0.86396	1.7643 ppb	0.86396	48.97%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	-90.6	-5.3439 µg/L	1.28496	-5.3439 ppb	1.28496	24.05%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	-158.6	-0.7777 µg/L	0.22990	-0.7777 ppb	0.22990	29.56%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	24.3	0.1372 µg/L	0.01563	0.1372 ppb	0.01563	11.39%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 128

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/1/2010 0:02:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142272.6	142272.6	97.5 %		00:02:55
1	Al 396.153Radial†	25834.9	26562.2	4902.5 µg/L	4902.5 ppb	00:02:55
1	Ca 317.933Radial†	85088.7	86715.4	4830.4 µg/L	4830.4 ppb	00:02:55
1	Fe 238.204 Radial†	76256.0	78068.0	4811.6 µg/L	4811.6 ppb	00:02:55
1	K 766.490 Radial†	14327.9	13151.4	4811.0 µg/L	4811.0 ppb	00:02:55
1	Mg 279.077 IEC†	13155.4	13302.9	4964.0 µg/L	4964.0 ppb	00:02:55
1	Na 589.592 Radial†	69875.1	70380.5	9610.5 µg/L	9610.5 ppb	00:02:55
1	Sr 421.552†	226540.9	232499.5	483.31 µg/L	483.31 ppb	00:02:53
1	Sc 361.383	1723344.7	1723344.7	100.30 %		00:03:22
1	Y 371.029	1018123.7	1018123.7	99.166 %		00:03:22
1	Ag 328.068†	131945.7	127461.8	477.92 µg/L	477.92 ppb	00:03:22
1	As 188.979†	1604.1	1619.7	496.75 µg/L	496.75 ppb	00:03:42
1	B 249.677†	35591.1	31979.3	469.98 µg/L	469.98 ppb	00:03:22
1	Ba 233.527†	118724.6	118507.2	477.94 µg/L	477.94 ppb	00:03:22
1	Be 313.107†	1771703.0	1767496.7	481.39 µg/L	481.39 ppb	00:03:22
1	Cd 226.502†	76335.7	76226.8	475.84 µg/L	475.84 ppb	00:03:22
1	Co 228.616†	38760.4	38835.4	479.42 µg/L	479.42 ppb	00:03:22
1	Cr 267.716†	60900.3	60540.6	474.03 µg/L	474.03 ppb	00:03:22
1	Cu 324.752†	125251.0	121906.2	475.23 µg/L	475.23 ppb	00:03:22
1	Mn 257.610†	389076.6	387681.8	479.47 µg/L	479.47 ppb	00:03:22
1	Mo 202.031†	16257.1	16228.8	477.38 µg/L	477.38 ppb	00:03:42
1	Ni 231.604†	41472.4	41425.6	476.99 µg/L	476.99 ppb	00:03:22
1	P 214.914†	11164.5	11149.2	2376.4 µg/L	2376.4 ppb	00:03:42
1	Pb 220.353†	8662.0	8549.9	478.80 µg/L	478.80 ppb	00:03:42
1	S 181.975 Axial†	1361.8	1252.7	934.24 µg/L	934.24 ppb	00:03:42
1	Sb 206.836†	4090.1	3997.1	476.28 µg/L	476.28 ppb	00:03:42
1	Se 196.026†	1338.2	1318.9	479 µg/L	479 ppb	00:03:42
1	SiO2†	54668.7	52730.7	5133.5 µg/L	5133.5 ppb	00:03:22
1	Si 251.611†	165532.9	164203.9	2411.3 µg/L	2411.3 ppb	00:03:22
1	Sn 189.927†	7662.0	7640.4	477.90 µg/L	477.90 ppb	00:03:42
1	Ti 334.940†	512908.7	510430.3	476.26 µg/L	476.26 ppb	00:03:22
1	Tl 190.801†	3797.9	3903.2	486.73 µg/L	486.73 ppb	00:03:42
1	U 409.014†	7179.6	7428.1	463.23 µg/L	463.23 ppb	00:03:22
1	V 292.402†	97641.8	96947.5	479.26 µg/L	479.26 ppb	00:03:22
1	Zn 213.857†	85689.4	84870.1	473.01 µg/L	473.01 ppb	00:03:22
2	Sc RADIAL	141674.6	141674.6	97.1 %		00:02:59
2	Al 396.153Radial†	25757.6	26594.5	4908.2 µg/L	4908.2 ppb	00:02:59
2	Ca 317.933Radial†	84226.0	86195.1	4801.4 µg/L	4801.4 ppb	00:02:59
2	Fe 238.204 Radial†	75439.4	77557.1	4780.1 µg/L	4780.1 ppb	00:02:59
2	K 766.490 Radial†	14248.6	13131.7	4803.8 µg/L	4803.8 ppb	00:02:59
2	Mg 279.077 IEC†	12899.8	13096.5	4887.2 µg/L	4887.2 ppb	00:02:59
2	Na 589.592 Radial†	69141.1	69926.9	9548.6 µg/L	9548.6 ppb	00:02:59
2	Sr 421.552†	226612.3	233553.9	485.51 µg/L	485.51 ppb	00:02:57
2	Sc 361.383	1708258.8	1708258.8	99.420 %		00:03:45
2	Y 371.029	1010097.1	1010097.1	98.384 %		00:03:45
2	Ag 328.068†	130950.0	127622.0	478.53 µg/L	478.53 ppb	00:03:45
2	As 188.979†	1596.3	1626.0	498.65 µg/L	498.65 ppb	00:04:05
2	B 249.677†	35330.7	32030.8	470.74 µg/L	470.74 ppb	00:03:45
2	Ba 233.527†	117712.3	118534.4	478.05 µg/L	478.05 ppb	00:03:45
2	Be 313.107†	1753739.6	1765028.3	480.72 µg/L	480.72 ppb	00:03:45
2	Cd 226.502†	75285.2	75842.3	473.44 µg/L	473.44 ppb	00:03:45
2	Co 228.616†	38223.9	38637.1	476.98 µg/L	476.98 ppb	00:03:45
2	Cr 267.716†	60168.0	60340.2	472.45 µg/L	472.45 ppb	00:03:45
2	Cu 324.752†	124409.3	122162.4	476.22 µg/L	476.22 ppb	00:03:45
2	Mn 257.610†	385236.3	387244.9	478.93 µg/L	478.93 ppb	00:03:45
2	Mo 202.031†	16271.7	16386.7	482.02 µg/L	482.02 ppb	00:04:05
2	Ni 231.604†	41015.7	41331.3	475.90 µg/L	475.90 ppb	00:03:45
2	P 214.914†	11176.6	11259.7	2400.0 µg/L	2400.0 ppb	00:04:05
2	Pb 220.353†	8757.4	8722.1	488.42 µg/L	488.42 ppb	00:04:05

2	S 181.975 Axial†	1369.4	1272.3	948.85 µg/L	948.85 ppb	00:04:05
2	Sb 206.836†	4104.3	4047.4	482.36 µg/L	482.36 ppb	00:04:05
2	Se 196.026†	1334.2	1326.7	482 µg/L	482 ppb	00:04:05
2	SiO2†	54367.2	52908.8	5150.7 µg/L	5150.7 ppb	00:03:45
2	Si 251.611†	164236.7	164357.7	2413.5 µg/L	2413.5 ppb	00:03:45
2	Sn 189.927†	7684.5	7730.4	483.52 µg/L	483.52 ppb	00:04:05
2	Ti 334.940†	509083.5	511098.8	476.89 µg/L	476.89 ppb	00:03:45
2	Tl 190.801†	3778.4	3917.1	488.46 µg/L	488.46 ppb	00:04:05
2	U 409.014†	7230.8	7542.9	469.95 µg/L	469.95 ppb	00:03:45
2	V 292.402†	96807.6	96968.1	479.41 µg/L	479.41 ppb	00:03:45
2	Zn 213.857†	85025.4	84956.7	473.50 µg/L	473.50 ppb	00:03:45
3	Sc RADIAL	141547.4	141547.4	97.0 %		00:03:03
3	Al 396.153Radial†	25657.4	26515.0	4893.6 µg/L	4893.6 ppb	00:03:03
3	Ca 317.933Radial†	84401.5	86454.0	4815.8 µg/L	4815.8 ppb	00:03:03
3	Fe 238.204 Radial†	75869.9	78070.8	4811.8 µg/L	4811.8 ppb	00:03:03
3	K 766.490 Radial†	14363.1	13263.0	4851.8 µg/L	4851.8 ppb	00:03:03
3	Mg 279.077 IEC†	13049.5	13262.8	4949.1 µg/L	4949.1 ppb	00:03:03
3	Na 589.592 Radial†	69248.3	70101.5	9572.4 µg/L	9572.4 ppb	00:03:03
3	Sr 421.552†	225485.7	232602.1	483.53 µg/L	483.53 ppb	00:03:01
3	Sc 361.383	1723903.5	1723903.5	100.33 %		00:04:08
3	Y 371.029	1019569.4	1019569.4	99.307 %		00:04:08
3	Ag 328.068†	132444.2	127916.0	479.62 µg/L	479.62 ppb	00:04:08
3	As 188.979†	1613.5	1628.6	499.46 µg/L	499.46 ppb	00:04:28
3	B 249.677†	35582.2	31958.9	469.67 µg/L	469.67 ppb	00:04:08
3	Ba 233.527†	119047.5	118790.7	479.08 µg/L	479.08 ppb	00:04:08
3	Be 313.107†	1772270.1	1767489.4	481.39 µg/L	481.39 ppb	00:04:08
3	Cd 226.502†	76487.5	76353.5	476.63 µg/L	476.63 ppb	00:04:08
3	Co 228.616†	38833.9	38896.2	480.17 µg/L	480.17 ppb	00:04:08
3	Cr 267.716†	61033.0	60653.2	474.91 µg/L	474.91 ppb	00:04:08
3	Cu 324.752†	125468.6	122082.6	475.91 µg/L	475.91 ppb	00:04:08
3	Mn 257.610†	389266.3	387745.1	479.55 µg/L	479.55 ppb	00:04:08
3	Mo 202.031†	16339.7	16305.9	479.65 µg/L	479.65 ppb	00:04:28
3	Ni 231.604†	41581.8	41521.1	478.09 µg/L	478.09 ppb	00:04:08
3	P 214.914†	11255.6	11236.5	2395.1 µg/L	2395.1 ppb	00:04:28
3	Pb 220.353†	8754.3	8639.1	483.78 µg/L	483.78 ppb	00:04:28
3	S 181.975 Axial†	1381.4	1271.8	948.44 µg/L	948.44 ppb	00:04:28
3	Sb 206.836†	4114.1	4019.7	478.99 µg/L	478.99 ppb	00:04:28
3	Se 196.026†	1349.5	1329.8	483 µg/L	483 ppb	00:04:28
3	SiO2†	54853.6	52897.3	5149.7 µg/L	5149.7 ppb	00:04:08
3	Si 251.611†	165883.5	164499.8	2415.6 µg/L	2415.6 ppb	00:04:08
3	Sn 189.927†	7726.9	7702.6	481.78 µg/L	481.78 ppb	00:04:28
3	Ti 334.940†	513749.8	511102.8	476.89 µg/L	476.89 ppb	00:04:08
3	Tl 190.801†	3835.7	3939.7	491.22 µg/L	491.22 ppb	00:04:28
3	U 409.014†	7224.4	7470.4	465.75 µg/L	465.75 ppb	00:04:08
3	V 292.402†	97852.6	97126.1	480.16 µg/L	480.16 ppb	00:04:08
3	Zn 213.857†	85877.0	85029.4	473.89 µg/L	473.89 ppb	00:04:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1718502.3	100.02 %	0.517			0.52%
Sc RADIAL	141831.6	97.2 %	0.27			0.27%
Y 371.029	1015930.0	98.952 %	0.4970			0.50%
Ag 328.068†	127666.6	478.69 µg/L	0.860	478.69 ppb	0.860	0.18%
QC value within limits for Ag 328.068 Recovery = 95.74%						
Al 396.153Radial†	26557.2	4901.4 µg/L	7.37	4901.4 ppb	7.37	0.15%
QC value within limits for Al 396.153Radial Recovery = 98.03%						
As 188.979†	1624.7	498.29 µg/L	1.393	498.29 ppb	1.393	0.28%
QC value within limits for As 188.979 Recovery = 99.66%						
B 249.677†	31989.7	470.13 µg/L	0.552	470.13 ppb	0.552	0.12%
QC value within limits for B 249.677 Recovery = 94.03%						
Ba 233.527†	118610.7	478.35 µg/L	0.631	478.35 ppb	0.631	0.13%
QC value within limits for Ba 233.527 Recovery = 95.67%						
Be 313.107†	1766671.5	481.16 µg/L	0.387	481.16 ppb	0.387	0.08%
QC value within limits for Be 313.107 Recovery = 96.23%						
Ca 317.933Radial†	86454.8	4815.9 µg/L	14.49	4815.9 ppb	14.49	0.30%
QC value within limits for Ca 317.933Radial Recovery = 96.32%						
Cd 226.502†	76140.8	475.30 µg/L	1.661	475.30 ppb	1.661	0.35%
QC value within limits for Cd 226.502 Recovery = 95.06%						
Co 228.616†	38789.5	478.86 µg/L	1.671	478.86 ppb	1.671	0.35%

Cr	267.716†	60511.3	473.80 µg/L	1.244	473.80 ppb	1.244	0.26%
	QC value within limits for Cr 267.716 Recovery = 94.76%						
Cu	324.752†	122050.4	475.79 µg/L	0.509	475.79 ppb	0.509	0.11%
	QC value within limits for Cu 324.752 Recovery = 95.16%						
Fe	238.204 Radial†	77898.6	4801.2 µg/L	18.23	4801.2 ppb	18.23	0.38%
	QC value within limits for Fe 238.204 Radial Recovery = 96.02%						
K	766.490 Radial†	13182.1	4822.2 µg/L	25.92	4822.2 ppb	25.92	0.54%
	QC value within limits for K 766.490 Radial Recovery = 96.44%						
Mg	279.077 IEC†	13220.7	4933.4 µg/L	40.70	4933.4 ppb	40.70	0.82%
	QC value within limits for Mg 279.077 IEC Recovery = 98.67%						
Mn	257.610†	387557.3	479.32 µg/L	0.335	479.32 ppb	0.335	0.07%
	QC value within limits for Mn 257.610 Recovery = 95.86%						
Mo	202.031†	16307.1	479.68 µg/L	2.318	479.68 ppb	2.318	0.48%
	QC value within limits for Mo 202.031 Recovery = 95.94%						
Na	589.592 Radial†	70136.3	9577.2 µg/L	31.25	9577.2 ppb	31.25	0.33%
	QC value within limits for Na 589.592 Radial Recovery = 95.77%						
Ni	231.604†	41426.0	476.99 µg/L	1.093	476.99 ppb	1.093	0.23%
	QC value within limits for Ni 231.604 Recovery = 95.40%						
P	214.914†	11215.1	2390.5 µg/L	12.46	2390.5 ppb	12.46	0.52%
	QC value within limits for P 214.914 Recovery = 95.62%						
Pb	220.353†	8637.0	483.66 µg/L	4.812	483.66 ppb	4.812	0.99%
	QC value within limits for Pb 220.353 Recovery = 96.73%						
S	181.975 Axial†	1265.6	943.84 µg/L	8.319	943.84 ppb	8.319	0.88%
	QC value within limits for S 181.975 Axial Recovery = 94.38%						
Sb	206.836†	4021.4	479.21 µg/L	3.045	479.21 ppb	3.045	0.64%
	QC value within limits for Sb 206.836 Recovery = 95.84%						
Se	196.026†	1325.1	481 µg/L	2.0	481 ppb	2.0	0.42%
	QC value within limits for Se 196.026 Recovery = 96.23%						
SiO2†		52845.6	5144.6 µg/L	9.64	5144.6 ppb	9.64	0.19%
	QC value within limits for SiO2 Recovery = 96.21%						
Si	251.611†	164353.8	2413.5 µg/L	2.15	2413.5 ppb	2.15	0.09%
	QC value within limits for Si 251.611 Recovery = 96.54%						
Sn	189.927†	7691.1	481.07 µg/L	2.875	481.07 ppb	2.875	0.60%
	QC value within limits for Sn 189.927 Recovery = 96.21%						
Sr	421.552†	232885.1	484.12 µg/L	1.209	484.12 ppb	1.209	0.25%
	QC value within limits for Sr 421.552 Recovery = 96.82%						
Ti	334.940†	510877.3	476.68 µg/L	0.363	476.68 ppb	0.363	0.08%
	QC value within limits for Ti 334.940 Recovery = 95.34%						
Tl	190.801†	3920.0	488.80 µg/L	2.267	488.80 ppb	2.267	0.46%
	QC value within limits for Tl 190.801 Recovery = 97.76%						
U	409.014†	7480.5	466.31 µg/L	3.394	466.31 ppb	3.394	0.73%
	QC value within limits for U 409.014 Recovery = 93.26%						
V	292.402†	97013.9	479.61 µg/L	0.482	479.61 ppb	0.482	0.10%
	QC value within limits for V 292.402 Recovery = 95.92%						
Zn	213.857†	84952.0	473.47 µg/L	0.445	473.47 ppb	0.445	0.09%
	QC value within limits for Zn 213.857 Recovery = 94.69%						

All analyte(s) passed QC.

Sequence No.: 129

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/1/2010 0:04:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143892.3	143892.3	98.6 %		00:05:07
1	Al 396.153Radial†	-53.6	8.8	1.6408 µg/L	1.6408 ppb	00:05:27
1	Ca 317.933Radial†	596.6	44.5	2.4784 µg/L	2.4784 ppb	00:05:27
1	Fe 238.204 Radial†	205.5	60.3	3.7183 µg/L	3.7183 ppb	00:05:27
1	K 766.490 Radial†	1617.6	95.8	35.061 µg/L	35.061 ppb	00:05:07
1	Mg 279.077 IEC†	160.3	-28.1	-10.484 µg/L	-10.484 ppb	00:05:27
1	Na 589.592 Radial†	1235.1	-38.2	-5.2555 µg/L	-5.2555 ppb	00:05:07
1	Sr 421.552†	-186.7	-54.0	-0.1123 µg/L	-0.1123 ppb	00:05:07
1	Sc 361.383	1744559.9	1744559.9	101.53 %		00:06:14
1	Y 371.029	1042741.7	1042741.7	101.56 %		00:06:14
1	Ag 328.068†	4186.7	32.1	0.1193 µg/L	0.1193 ppb	00:06:17
1	As 188.979†	-18.7	2.0	0.5980 µg/L	0.5980 ppb	00:06:37
1	B 249.677†	3571.6	11.8	0.1730 µg/L	0.1730 ppb	00:06:17
1	Ba 233.527†	-139.2	-1.2	-0.0046 µg/L	-0.0046 ppb	00:06:37
1	Be 313.107†	-1043.9	36.6	0.0085 µg/L	0.0085 ppb	00:06:17
1	Cd 226.502†	-108.8	11.0	0.0685 µg/L	0.0685 ppb	00:06:37
1	Co 228.616†	-174.1	18.9	0.2327 µg/L	0.2327 ppb	00:06:37
1	Cr 267.716†	183.3	2.0	0.0199 µg/L	0.0199 ppb	00:06:37
1	Cu 324.752†	3077.4	58.7	0.2245 µg/L	0.2245 ppb	00:06:17
1	Mn 257.610†	338.8	96.5	0.1197 µg/L	0.1197 ppb	00:06:37
1	Mo 202.031†	-20.8	-0.4	-0.0123 µg/L	-0.0123 ppb	00:06:37
1	Ni 231.604†	-93.1	-15.2	-0.1747 µg/L	-0.1747 ppb	00:06:37
1	P 214.914†	-36.4	-17.9	-3.8259 µg/L	-3.8259 ppb	00:06:37
1	Pb 220.353†	57.3	-30.0	-1.6686 µg/L	-1.6686 ppb	00:06:37
1	S 181.975 Axial†	88.1	-18.3	-13.601 µg/L	-13.601 ppb	00:06:37
1	Sb 206.836†	79.5	-2.5	-0.2998 µg/L	-0.2998 ppb	00:06:37
1	Se 196.026†	9.3	-6.1	-2.21 µg/L	-2.21 ppb	00:06:37
1	SiO2†	1791.0	-11.4	-1.1250 µg/L	-1.1250 ppb	00:06:37
1	Si 251.611†	1010.1	158.3	2.3292 µg/L	2.3292 ppb	00:06:17
1	Sn 189.927†	11.2	12.2	0.7593 µg/L	0.7593 ppb	00:06:37
1	Ti 334.940†	1000.8	33.1	0.0339 µg/L	0.0339 ppb	00:06:17
1	Tl 190.801†	-110.0	8.4	1.0319 µg/L	1.0319 ppb	00:06:37
1	U 409.014†	-359.2	-83.8	-4.8714 µg/L	-4.8714 ppb	00:06:17
1	V 292.402†	522.7	111.1	0.5380 µg/L	0.5380 ppb	00:06:17
1	Zn 213.857†	593.2	19.8	0.1119 µg/L	0.1119 ppb	00:06:37
2	Sc RADIAL	143483.1	143483.1	98.3 %		00:05:29
2	Al 396.153Radial†	-16.6	46.3	8.5924 µg/L	8.5924 ppb	00:05:49
2	Ca 317.933Radial†	577.4	26.6	1.4835 µg/L	1.4835 ppb	00:05:49
2	Fe 238.204 Radial†	204.6	60.0	3.6989 µg/L	3.6989 ppb	00:05:49
2	K 766.490 Radial†	1704.3	188.6	69.053 µg/L	69.053 ppb	00:05:29
2	Mg 279.077 IEC†	189.1	1.6	0.6009 µg/L	0.6009 ppb	00:05:49
2	Na 589.592 Radial†	1220.1	-49.9	-6.8835 µg/L	-6.8835 ppb	00:05:29
2	Sr 421.552†	-161.7	-29.2	-0.0607 µg/L	-0.0607 ppb	00:05:29
2	Sc 361.383	1736410.2	1736410.2	101.06 %		00:06:39
2	Y 371.029	1038399.6	1038399.6	101.14 %		00:06:39
2	Ag 328.068†	4135.3	0.6	-0.0060 µg/L	-0.0060 ppb	00:06:41
2	As 188.979†	-19.2	1.4	0.4208 µg/L	0.4208 ppb	00:07:01
2	B 249.677†	3492.1	-50.3	-0.7427 µg/L	-0.7427 ppb	00:06:41
2	Ba 233.527†	-117.3	19.8	0.0792 µg/L	0.0792 ppb	00:07:01
2	Be 313.107†	-747.8	324.8	0.0886 µg/L	0.0886 ppb	00:06:41
2	Cd 226.502†	-105.9	13.4	0.0831 µg/L	0.0831 ppb	00:07:01
2	Co 228.616†	-184.9	7.4	0.0911 µg/L	0.0911 ppb	00:07:01
2	Cr 267.716†	192.3	11.7	0.0910 µg/L	0.0910 ppb	00:07:01
2	Cu 324.752†	2966.8	-36.5	-0.1408 µg/L	-0.1408 ppb	00:06:41
2	Mn 257.610†	298.6	58.2	0.0720 µg/L	0.0720 ppb	00:07:01
2	Mo 202.031†	-25.8	-5.5	-0.1614 µg/L	-0.1614 ppb	00:07:01
2	Ni 231.604†	-94.3	-16.8	-0.1933 µg/L	-0.1933 ppb	00:07:01
2	P 214.914†	-43.0	-24.6	-5.2673 µg/L	-5.2673 ppb	00:07:01
2	Pb 220.353†	50.6	-36.3	-2.0267 µg/L	-2.0267 ppb	00:07:01

2	S 181.975 Axial†	98.0	-8.1	-5.9976 µg/L	-5.9976 ppb	00:07:01
2	Sb 206.836†	73.1	-8.5	-1.0121 µg/L	-1.0121 ppb	00:07:01
2	Se 196.026†	7.4	-8.0	-2.88 µg/L	-2.88 ppb	00:07:01
2	SiO2†	1801.8	7.6	0.7460 µg/L	0.7460 ppb	00:07:01
2	Si 251.611†	1048.9	201.3	2.9711 µg/L	2.9711 ppb	00:06:41
2	Sn 189.927†	-3.4	-2.2	-0.1383 µg/L	-0.1383 ppb	00:07:01
2	Ti 334.940†	957.4	-5.2	-0.0051 µg/L	-0.0051 ppb	00:06:41
2	Tl 190.801†	-118.7	-0.7	-0.0961 µg/L	-0.0961 ppb	00:07:01
2	U 409.014†	-264.8	7.9	0.4182 µg/L	0.4182 ppb	00:06:41
2	V 292.402†	254.9	-151.6	-0.7409 µg/L	-0.7409 ppb	00:06:41
2	Zn 213.857†	612.2	41.4	0.2335 µg/L	0.2335 ppb	00:07:01
3	Sc RADIAL	142535.7	142535.7	97.7 %		00:05:51
3	Al 396.153Radial†	-83.5	-22.3	-4.1548 µg/L	-4.1548 ppb	00:06:11
3	Ca 317.933Radial†	597.4	51.0	2.8434 µg/L	2.8434 ppb	00:06:11
3	Fe 238.204 Radial†	191.0	47.4	2.9218 µg/L	2.9218 ppb	00:06:11
3	K 766.490 Radial†	1524.6	16.2	5.9151 µg/L	5.9151 ppb	00:05:51
3	Mg 279.077 IEC†	219.6	34.1	12.715 µg/L	12.715 ppb	00:06:11
3	Na 589.592 Radial†	1205.9	-56.2	-7.6775 µg/L	-7.6775 ppb	00:05:51
3	Sr 421.552†	-165.9	-34.5	-0.0718 µg/L	-0.0718 ppb	00:05:51
3	Sc 361.383	1751391.9	1751391.9	101.93 %		00:07:03
3	Y 371.029	1047163.4	1047163.4	101.99 %		00:07:03
3	Ag 328.068†	4086.1	-82.7	-0.3037 µg/L	-0.3037 ppb	00:07:05
3	As 188.979†	-20.4	0.3	0.0989 µg/L	0.0989 ppb	00:07:25
3	B 249.677†	3537.9	-35.0	-0.5172 µg/L	-0.5172 ppb	00:07:05
3	Ba 233.527†	-136.9	1.6	0.0063 µg/L	0.0063 ppb	00:07:25
3	Be 313.107†	-940.8	141.7	0.0400 µg/L	0.0400 ppb	00:07:05
3	Cd 226.502†	-99.2	20.8	0.1299 µg/L	0.1299 ppb	00:07:25
3	Co 228.616†	-163.1	30.3	0.3737 µg/L	0.3737 ppb	00:07:25
3	Cr 267.716†	180.0	-1.9	-0.0191 µg/L	-0.0191 ppb	00:07:25
3	Cu 324.752†	2988.8	-40.1	-0.1508 µg/L	-0.1508 ppb	00:07:05
3	Mn 257.610†	300.0	57.1	0.0701 µg/L	0.0701 ppb	00:07:25
3	Mo 202.031†	-9.2	11.0	0.3249 µg/L	0.3249 ppb	00:07:25
3	Ni 231.604†	-68.4	9.4	0.1086 µg/L	0.1086 ppb	00:07:25
3	P 214.914†	-25.2	-6.8	-1.4485 µg/L	-1.4485 ppb	00:07:25
3	Pb 220.353†	102.3	13.9	0.7747 µg/L	0.7747 ppb	00:07:25
3	S 181.975 Axial†	101.0	-6.0	-4.4167 µg/L	-4.4167 ppb	00:07:25
3	Sb 206.836†	94.0	11.4	1.3649 µg/L	1.3649 ppb	00:07:25
3	Se 196.026†	14.1	-1.5	-0.521 µg/L	-0.521 ppb	00:07:25
3	SiO2†	1807.8	-1.8	-0.1882 µg/L	-0.1882 ppb	00:07:25
3	Si 251.611†	933.4	79.1	1.1603 µg/L	1.1603 ppb	00:07:05
3	Sn 189.927†	4.0	5.0	0.3117 µg/L	0.3117 ppb	00:07:25
3	Ti 334.940†	864.7	-104.2	-0.1002 µg/L	-0.1002 ppb	00:07:05
3	Tl 190.801†	-114.3	4.5	0.5538 µg/L	0.5538 ppb	00:07:25
3	U 409.014†	-194.1	79.5	4.6318 µg/L	4.6318 ppb	00:07:05
3	V 292.402†	357.1	-53.4	-0.2545 µg/L	-0.2545 ppb	00:07:05
3	Zn 213.857†	596.1	20.4	0.1133 µg/L	0.1133 ppb	00:07:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1744120.7	101.51 %	0.437			0.43%
Sc RADIAL	143303.7	98.2 %	0.48			0.49%
Y 371.029	1042768.2	101.57 %	0.427			0.42%
Ag 328.068†	-16.6	-0.0635 µg/L	0.21725	-0.0635 ppb	0.21725	342.30%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.9	2.0261 µg/L	6.38236	2.0261 ppb	6.38236	315.00%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.2	0.3726 µg/L	0.25303	0.3726 ppb	0.25303	67.91%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-24.5	-0.3623 µg/L	0.47710	-0.3623 ppb	0.47710	131.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.7	0.0270 µg/L	0.04553	0.0270 ppb	0.04553	168.83%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	167.7	0.0457 µg/L	0.04035	0.0457 ppb	0.04035	88.33%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	40.7	2.2684 µg/L	0.70382	2.2684 ppb	0.70382	31.03%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.1	0.0938 µg/L	0.03210	0.0938 ppb	0.03210	34.21%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.9	0.2325 µg/L	0.14130	0.2325 ppb	0.14130	60.78%

QC value within limits for Co 228.616	Recovery = Not calculated			
Cr 267.716†	3.9	0.0306 µg/L	0.05579	0.0306 ppb
QC value within limits for Cr 267.716	Recovery = Not calculated			
Cu 324.752†	-5.9	-0.0224 µg/L	0.21387	-0.0224 ppb
QC value within limits for Cu 324.752	Recovery = Not calculated			
Fe 238.204 Radial†	55.9	3.4463 µg/L	0.45435	3.4463 ppb
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
K 766.490 Radial†	100.2	36.676 µg/L	31.5999	36.676 ppb
QC value within limits for K 766.490 Radial	Recovery = Not calculated			
Mg 279.077 IEC†	2.5	0.9439 µg/L	11.60357	0.9439 ppb
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
Mn 257.610†	70.6	0.0873 µg/L	0.02814	0.0873 ppb
QC value within limits for Mn 257.610	Recovery = Not calculated			
Mo 202.031†	1.7	0.0504 µg/L	0.24911	0.0504 ppb
QC value within limits for Mo 202.031	Recovery = Not calculated			
Na 589.592 Radial†	-48.1	-6.6055 µg/L	1.23471	-6.6055 ppb
QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
Ni 231.604†	-7.5	-0.0864 µg/L	0.16920	-0.0864 ppb
QC value within limits for Ni 231.604	Recovery = Not calculated			
P 214.914†	-16.4	-3.5139 µg/L	1.92839	-3.5139 ppb
QC value within limits for P 214.914	Recovery = Not calculated			
Pb 220.353†	-17.4	-0.9735 µg/L	1.52458	-0.9735 ppb
QC value within limits for Pb 220.353	Recovery = Not calculated			
S 181.975 Axial†	-10.8	-8.0052 µg/L	4.91049	-8.0052 ppb
QC value within limits for S 181.975 Axial	Recovery = Not calculated			
Sb 206.836†	0.1	0.0176 µg/L	1.21991	0.0176 ppb
QC value within limits for Sb 206.836	Recovery = Not calculated			
Se 196.026†	-5.2	-1.87 µg/L	1.214	-1.87 ppb
QC value within limits for Se 196.026	Recovery = Not calculated			
SiO2†	-1.9	-0.1891 µg/L	0.93549	-0.1891 ppb
QC value within limits for SiO2	Recovery = Not calculated			
Si 251.611†	146.3	2.1535 µg/L	0.91811	2.1535 ppb
QC value within limits for Si 251.611	Recovery = Not calculated			
Sn 189.927†	5.0	0.3109 µg/L	0.44879	0.3109 ppb
QC value within limits for Sn 189.927	Recovery = Not calculated			
Sr 421.552†	-39.2	-0.0816 µg/L	0.02715	-0.0816 ppb
QC value within limits for Sr 421.552	Recovery = Not calculated			
Ti 334.940†	-25.4	-0.0238 µg/L	0.06900	-0.0238 ppb
QC value within limits for Ti 334.940	Recovery = Not calculated			
Tl 190.801†	4.1	0.4965 µg/L	0.56617	0.4965 ppb
QC value within limits for Tl 190.801	Recovery = Not calculated			
U 409.014†	1.2	0.0595 µg/L	4.76174	0.0595 ppb
QC value within limits for U 409.014	Recovery = Not calculated			
V 292.402†	-31.3	-0.1525 µg/L	0.64551	-0.1525 ppb
QC value within limits for V 292.402	Recovery = Not calculated			
Zn 213.857†	27.2	0.1529 µg/L	0.06978	0.1529 ppb
QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 135

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 0:18:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143693.3	143693.3	98.5 %		00:19:06
1	Al 396.153Radial†	26289.1	26761.5	4939.5 µg/L	4939.5 ppb	00:19:06
1	Ca 317.933Radial†	86223.9	87005.4	4846.5 µg/L	4846.5 ppb	00:19:06
1	Fe 238.204 Radial†	77323.2	78378.5	4830.8 µg/L	4830.8 ppb	00:19:06
1	K 766.490 Radial†	14642.3	13325.5	4874.7 µg/L	4874.7 ppb	00:19:06
1	Mg 279.077 IEC†	13274.7	13290.6	4959.3 µg/L	4959.3 ppb	00:19:06
1	Na 589.592 Radial†	70897.3	70710.0	9655.5 µg/L	9655.5 ppb	00:19:06
1	Sr 421.552†	232660.3	236416.7	491.46 µg/L	491.46 ppb	00:19:04
1	Sc 361.383	1732669.7	1732669.7	100.84 %		00:19:19
1	Y 371.029	1023558.0	1023558.0	99.695 %		00:19:19
1	Ag 328.068†	133158.4	127956.3	479.77 µg/L	479.77 ppb	00:19:19
1	As 188.979†	1602.0	1609.0	493.54 µg/L	493.54 ppb	00:19:39
1	B 249.677†	35761.2	31957.0	469.65 µg/L	469.65 ppb	00:19:19
1	Ba 233.527†	119556.3	118694.9	478.69 µg/L	478.69 ppb	00:19:19
1	Be 313.107†	1785943.3	1772111.6	482.65 µg/L	482.65 ppb	00:19:19
1	Cd 226.502†	76830.5	76307.9	476.34 µg/L	476.34 ppb	00:19:19
1	Co 228.616†	38954.2	38819.6	479.23 µg/L	479.23 ppb	00:19:19
1	Cr 267.716†	61438.6	60747.5	475.65 µg/L	475.65 ppb	00:19:19
1	Cu 324.752†	126552.0	122524.2	477.63 µg/L	477.63 ppb	00:19:19
1	Mn 257.610†	392610.6	389098.6	481.22 µg/L	481.22 ppb	00:19:19
1	Mo 202.031†	16258.5	16143.0	474.86 µg/L	474.86 ppb	00:19:39
1	Ni 231.604†	41699.2	41427.9	477.01 µg/L	477.01 ppb	00:19:19
1	P 214.914†	11155.2	11080.1	2361.6 µg/L	2361.6 ppb	00:19:39
1	Pb 220.353†	8723.1	8564.0	479.58 µg/L	479.58 ppb	00:19:39
1	S 181.975 Axial†	1371.1	1254.6	935.65 µg/L	935.65 ppb	00:19:39
1	Sb 206.836†	4108.1	3993.0	475.73 µg/L	475.73 ppb	00:19:39
1	Se 196.026†	1329.1	1302.7	473 µg/L	473 ppb	00:19:39
1	SiO2†	54892.2	52659.0	5126.6 µg/L	5126.6 ppb	00:19:19
1	Si 251.611†	165952.1	163731.3	2404.4 µg/L	2404.4 ppb	00:19:19
1	Sn 189.927†	7677.7	7614.8	476.32 µg/L	476.32 ppb	00:19:39
1	Ti 334.940†	518688.0	513409.1	479.05 µg/L	479.05 ppb	00:19:19
1	Tl 190.801†	3776.5	3861.7	481.67 µg/L	481.67 ppb	00:19:39
1	U 409.014†	7234.1	7443.7	464.23 µg/L	464.23 ppb	00:19:19
1	V 292.402†	98487.7	97262.4	480.77 µg/L	480.77 ppb	00:19:19
1	Zn 213.857†	86132.8	84849.9	472.89 µg/L	472.89 ppb	00:19:19
2	Sc RADIAL	143019.1	143019.1	98.0 %		00:19:11
2	Al 396.153Radial†	26072.5	26666.3	4922.0 µg/L	4922.0 ppb	00:19:11
2	Ca 317.933Radial†	85527.1	86707.1	4829.9 µg/L	4829.9 ppb	00:19:11
2	Fe 238.204 Radial†	76547.8	77957.5	4804.8 µg/L	4804.8 ppb	00:19:11
2	K 766.490 Radial†	14325.9	13072.7	4782.1 µg/L	4782.1 ppb	00:19:11
2	Mg 279.077 IEC†	13110.0	13186.1	4920.4 µg/L	4920.4 ppb	00:19:11
2	Na 589.592 Radial†	70292.2	70432.0	9617.6 µg/L	9617.6 ppb	00:19:11
2	Sr 421.552†	230289.2	235111.2	488.74 µg/L	488.74 ppb	00:19:08
2	Sc 361.383	1739470.1	1739470.1	101.24 %		00:19:42
2	Y 371.029	1026926.3	1026926.3	100.02 %		00:19:42
2	Ag 328.068†	133611.7	127887.8	479.55 µg/L	479.55 ppb	00:19:42
2	As 188.979†	1611.8	1612.5	494.58 µg/L	494.58 ppb	00:20:03
2	B 249.677†	36044.8	32098.6	471.73 µg/L	471.73 ppb	00:19:42
2	Ba 233.527†	120143.8	118811.8	479.16 µg/L	479.16 ppb	00:19:42
2	Be 313.107†	1795420.8	1774549.5	483.31 µg/L	483.31 ppb	00:19:42
2	Cd 226.502†	77193.5	76368.5	476.73 µg/L	476.73 ppb	00:19:42
2	Co 228.616†	39216.7	38927.8	480.56 µg/L	480.56 ppb	00:19:42
2	Cr 267.716†	61736.3	60803.5	476.08 µg/L	476.08 ppb	00:19:42
2	Cu 324.752†	127273.9	122746.7	478.50 µg/L	478.50 ppb	00:19:42
2	Mn 257.610†	394321.6	389266.6	481.43 µg/L	481.43 ppb	00:19:42
2	Mo 202.031†	16252.9	16074.4	472.85 µg/L	472.85 ppb	00:20:03
2	Ni 231.604†	41949.4	41513.4	478.00 µg/L	478.00 ppb	00:19:42
2	P 214.914†	11147.1	11028.9	2350.7 µg/L	2350.7 ppb	00:20:03
2	Pb 220.353†	8700.2	8507.6	476.42 µg/L	476.42 ppb	00:20:03

2	S 181.975 Axial†	1373.5	1251.6	933.42 µg/L	933.42 ppb	00:20:03
2	Sb 206.836†	4110.6	3979.5	474.09 µg/L	474.09 ppb	00:20:03
2	Se 196.026†	1335.2	1303.6	473 µg/L	473 ppb	00:20:03
2	SiO2†	55200.8	52751.0	5135.7 µg/L	5135.7 ppb	00:19:42
2	Si 251.611†	166801.0	163926.5	2407.3 µg/L	2407.3 ppb	00:19:42
2	Sn 189.927†	7667.4	7574.8	473.83 µg/L	473.83 ppb	00:20:03
2	Ti 334.940†	521126.8	513807.3	479.42 µg/L	479.42 ppb	00:19:42
2	Tl 190.801†	3808.6	3878.7	483.77 µg/L	483.77 ppb	00:20:03
2	U 409.014†	7502.8	7681.0	478.15 µg/L	478.15 ppb	00:19:42
2	V 292.402†	99014.7	97401.2	481.44 µg/L	481.44 ppb	00:19:42
2	Zn 213.857†	86840.8	85215.4	474.94 µg/L	474.94 ppb	00:19:42
3	Sc RADIAL	143471.6	143471.6	98.3 %		00:19:15
3	Al 396.153Radial†	26187.7	26699.6	4927.9 µg/L	4927.9 ppb	00:19:15
3	Ca 317.933Radial†	86128.1	87043.2	4848.6 µg/L	4848.6 ppb	00:19:15
3	Fe 238.204 Radial†	76980.1	78150.9	4816.7 µg/L	4816.7 ppb	00:19:15
3	K 766.490 Radial†	14484.8	13188.2	4824.4 µg/L	4824.4 ppb	00:19:15
3	Mg 279.077 IEC†	13105.7	13139.6	4903.2 µg/L	4903.2 ppb	00:19:15
3	Na 589.592 Radial†	70971.5	70896.7	9681.1 µg/L	9681.1 ppb	00:19:15
3	Sr 421.552†	228010.1	232051.9	482.38 µg/L	482.38 ppb	00:19:13
3	Sc 361.383	1723745.5	1723745.5	100.32 %		00:20:06
3	Y 371.029	1018567.1	1018567.1	99.209 %		00:20:06
3	Ag 328.068†	132594.6	128078.0	480.26 µg/L	480.26 ppb	00:20:06
3	As 188.979†	1613.1	1628.3	499.38 µg/L	499.38 ppb	00:20:26
3	B 249.677†	35759.3	32138.8	472.33 µg/L	472.33 ppb	00:20:06
3	Ba 233.527†	118916.1	118670.6	478.60 µg/L	478.60 ppb	00:20:06
3	Be 313.107†	1776332.6	1771700.7	482.54 µg/L	482.54 ppb	00:20:06
3	Cd 226.502†	76456.3	76329.3	476.48 µg/L	476.48 ppb	00:20:06
3	Co 228.616†	38757.5	38823.5	479.27 µg/L	479.27 ppb	00:20:06
3	Cr 267.716†	61060.8	60686.4	475.16 µg/L	475.16 ppb	00:20:06
3	Cu 324.752†	125991.6	122615.4	477.99 µg/L	477.99 ppb	00:20:06
3	Mn 257.610†	390315.2	388826.2	480.89 µg/L	480.89 ppb	00:20:06
3	Mo 202.031†	16307.2	16275.0	478.74 µg/L	478.74 ppb	00:20:26
3	Ni 231.604†	41420.9	41364.6	476.28 µg/L	476.28 ppb	00:20:06
3	P 214.914†	11239.1	11221.0	2391.8 µg/L	2391.8 ppb	00:20:26
3	Pb 220.353†	8736.0	8621.6	482.80 µg/L	482.80 ppb	00:20:26
3	S 181.975 Axial†	1373.7	1264.3	942.85 µg/L	942.85 ppb	00:20:26
3	Sb 206.836†	4128.8	4034.7	480.77 µg/L	480.77 ppb	00:20:26
3	Se 196.026†	1340.4	1320.9	480 µg/L	480 ppb	00:20:26
3	SiO2†	54541.9	52591.7	5119.8 µg/L	5119.8 ppb	00:20:06
3	Si 251.611†	164960.5	163595.0	2402.3 µg/L	2402.3 ppb	00:20:06
3	Sn 189.927†	7724.8	7701.2	481.70 µg/L	481.70 ppb	00:20:26
3	Ti 334.940†	516519.7	513910.8	479.51 µg/L	479.51 ppb	00:20:06
3	Tl 190.801†	3789.6	3894.1	485.67 µg/L	485.67 ppb	00:20:26
3	U 409.014†	7419.9	7666.0	477.31 µg/L	477.31 ppb	00:20:06
3	V 292.402†	98262.8	97543.9	482.19 µg/L	482.19 ppb	00:20:06
3	Zn 213.857†	86081.7	85241.2	475.10 µg/L	475.10 ppb	00:20:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1731961.8	100.80 %	0.459			0.46%
Sc RADIAL	143394.7	98.3 %	0.24			0.24%
Y 371.029	1023017.1	99.642 %	0.4096			0.41%
Ag 328.068†	127974.1	479.86 µg/L	0.363	479.86 ppb	0.363	0.08%
QC value within limits for Ag 328.068 Recovery = 95.97%						
Al 396.153Radial†	26709.1	4929.8 µg/L	8.93	4929.8 ppb	8.93	0.18%
QC value within limits for Al 396.153Radial Recovery = 98.60%						
As 188.979†	1616.6	495.84 µg/L	3.115	495.84 ppb	3.115	0.63%
QC value within limits for As 188.979 Recovery = 99.17%						
B 249.677†	32064.8	471.24 µg/L	1.407	471.24 ppb	1.407	0.30%
QC value within limits for B 249.677 Recovery = 94.25%						
Ba 233.527†	118725.8	478.82 µg/L	0.303	478.82 ppb	0.303	0.06%
QC value within limits for Ba 233.527 Recovery = 95.76%						
Be 313.107†	1772787.2	482.83 µg/L	0.420	482.83 ppb	0.420	0.09%
QC value within limits for Be 313.107 Recovery = 96.57%						
Ca 317.933Radial†	86918.5	4841.7 µg/L	10.25	4841.7 ppb	10.25	0.21%
QC value within limits for Ca 317.933Radial Recovery = 96.83%						
Cd 226.502†	76335.3	476.52 µg/L	0.194	476.52 ppb	0.194	0.04%
QC value within limits for Cd 226.502 Recovery = 95.30%						
Co 228.616†	38857.0	479.69 µg/L	0.758	479.69 ppb	0.758	0.16%

Cr	267.716†	60745.8	475.63 µg/L	0.458	475.63 ppb	0.458	0.10%
Cu	324.752†	122628.7	478.04 µg/L	0.438	478.04 ppb	0.438	0.09%
Fe	238.204 Radial†	78162.3	4817.4 µg/L	12.99	4817.4 ppb	12.99	0.27%
K	766.490 Radial†	13195.4	4827.1 µg/L	46.33	4827.1 ppb	46.33	0.96%
Mg	279.077 IEC†	13205.4	4927.6 µg/L	28.77	4927.6 ppb	28.77	0.58%
Mn	257.610†	389063.8	481.18 µg/L	0.275	481.18 ppb	0.275	0.06%
Mo	202.031†	16164.1	475.48 µg/L	2.996	475.48 ppb	2.996	0.63%
Na	589.592 Radial†	70679.5	9651.4 µg/L	31.92	9651.4 ppb	31.92	0.33%
Ni	231.604†	41435.3	477.10 µg/L	0.860	477.10 ppb	0.860	0.18%
P	214.914†	11110.0	2368.0 µg/L	21.28	2368.0 ppb	21.28	0.90%
Pb	220.353†	8564.4	479.60 µg/L	3.191	479.60 ppb	3.191	0.67%
S	181.975 Axial†	1256.8	937.31 µg/L	4.928	937.31 ppb	4.928	0.53%
Sb	206.836†	4002.4	476.86 µg/L	3.479	476.86 ppb	3.479	0.73%
Se	196.026†	1309.1	475 µg/L	3.7	475 ppb	3.7	0.78%
SiO2†		52667.2	5127.4 µg/L	7.96	5127.4 ppb	7.96	0.16%
Si	251.611†	163751.0	2404.7 µg/L	2.52	2404.7 ppb	2.52	0.10%
Sn	189.927†	7630.3	477.28 µg/L	4.026	477.28 ppb	4.026	0.84%
Sr	421.552†	234526.6	487.53 µg/L	4.658	487.53 ppb	4.658	0.96%
Ti	334.940†	513709.0	479.33 µg/L	0.247	479.33 ppb	0.247	0.05%
Tl	190.801†	3878.2	483.70 µg/L	1.997	483.70 ppb	1.997	0.41%
U	409.014†	7596.9	473.23 µg/L	7.805	473.23 ppb	7.805	1.65%
V	292.402†	97402.5	481.47 µg/L	0.711	481.47 ppb	0.711	0.15%
Zn	213.857†	85102.2	474.31 µg/L	1.230	474.31 ppb	1.230	0.26%

QC value within limits for Co 228.616 Recovery = 95.94%

QC value within limits for Cr 267.716 Recovery = 95.13%

QC value within limits for Cu 324.752 Recovery = 95.61%

QC value within limits for Fe 238.204 Radial Recovery = 96.35%

QC value within limits for K 766.490 Radial Recovery = 96.54%

QC value within limits for Mg 279.077 IEC Recovery = 98.55%

QC value within limits for Mn 257.610 Recovery = 96.24%

QC value within limits for Mo 202.031 Recovery = 95.10%

QC value within limits for Na 589.592 Radial Recovery = 96.51%

QC value within limits for Ni 231.604 Recovery = 95.42%

QC value within limits for P 214.914 Recovery = 94.72%

QC value within limits for Pb 220.353 Recovery = 95.92%

QC value within limits for S 181.975 Axial Recovery = 93.73%

QC value within limits for Sb 206.836 Recovery = 95.37%

QC value within limits for Se 196.026 Recovery = 95.07%

QC value within limits for SiO2 Recovery = 95.88%

QC value within limits for Si 251.611 Recovery = 96.19%

QC value within limits for Sn 189.927 Recovery = 95.46%

QC value within limits for Sr 421.552 Recovery = 97.51%

QC value within limits for Ti 334.940 Recovery = 95.87%

QC value within limits for Tl 190.801 Recovery = 96.74%

QC value within limits for U 409.014 Recovery = 94.65%

QC value within limits for V 292.402 Recovery = 96.29%

QC value within limits for Zn 213.857 Recovery = 94.86%

All analyte(s) passed QC.

Sequence No.: 136

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 0:20:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143009.9	143009.9	98.0 %		00:21:03
1	Al 396.153Radial†	-51.4	10.8	1.9902 µg/L	1.9902 ppb	00:21:23
1	Ca 317.933Radial†	642.8	95.4	5.3133 µg/L	5.3133 ppb	00:21:23
1	Fe 238.204 Radial†	242.1	99.0	6.0996 µg/L	6.0996 ppb	00:21:23
1	K 766.490 Radial†	1742.8	233.6	85.512 µg/L	85.512 ppb	00:21:03
1	Mg 279.077 IEC†	198.4	11.8	4.3899 µg/L	4.3899 ppb	00:21:23
1	Na 589.592 Radial†	1320.5	56.6	7.6578 µg/L	7.6578 ppb	00:21:03
1	Sr 421.552†	-179.2	-47.6	-0.0989 µg/L	-0.0989 ppb	00:21:03
1	Sc 361.383	1732574.4	1732574.4	100.84 %		00:22:11
1	Y 371.029	1034944.7	1034944.7	100.80 %		00:22:11
1	Ag 328.068†	3967.9	-156.4	-0.6012 µg/L	-0.6012 ppb	00:22:13
1	As 188.979†	-22.3	-1.8	-0.5282 µg/L	-0.5282 ppb	00:22:33
1	B 249.677†	3471.6	-63.1	-0.9312 µg/L	-0.9312 ppb	00:22:13
1	Ba 233.527†	-105.4	31.3	0.1257 µg/L	0.1257 ppb	00:22:33
1	Be 313.107†	-924.2	148.2	0.0371 µg/L	0.0371 ppb	00:22:13
1	Cd 226.502†	-101.6	17.5	0.1086 µg/L	0.1086 ppb	00:22:33
1	Co 228.616†	-161.2	30.5	0.3758 µg/L	0.3758 ppb	00:22:33
1	Cr 267.716†	181.5	1.4	0.0194 µg/L	0.0194 ppb	00:22:33
1	Cu 324.752†	2984.5	-12.4	-0.0561 µg/L	-0.0561 ppb	00:22:13
1	Mn 257.610†	353.9	113.7	0.1405 µg/L	0.1405 ppb	00:22:33
1	Mo 202.031†	-15.2	5.0	0.1471 µg/L	0.1471 ppb	00:22:33
1	Ni 231.604†	-82.1	-4.9	-0.0564 µg/L	-0.0564 ppb	00:22:33
1	P 214.914†	-21.6	-3.4	-0.7405 µg/L	-0.7405 ppb	00:22:33
1	Pb 220.353†	58.7	-28.2	-1.5645 µg/L	-1.5645 ppb	00:22:33
1	S 181.975 Axial†	95.1	-10.7	-7.9545 µg/L	-7.9545 ppb	00:22:33
1	Sb 206.836†	91.5	9.9	1.1817 µg/L	1.1817 ppb	00:22:33
1	Se 196.026†	8.6	-6.7	-2.43 µg/L	-2.43 ppb	00:22:33
1	SiO2†	1790.8	0.6	0.0484 µg/L	0.0484 ppb	00:22:13
1	Si 251.611†	1020.2	175.2	2.5808 µg/L	2.5808 ppb	00:22:13
1	Sn 189.927†	0.3	1.4	0.0914 µg/L	0.0914 ppb	00:22:33
1	Ti 334.940†	1320.8	357.3	0.3381 µg/L	0.3381 ppb	00:22:13
1	Tl 190.801†	-122.8	-5.1	-0.6310 µg/L	-0.6310 ppb	00:22:33
1	U 409.014†	-460.1	-186.4	-10.938 µg/L	-10.938 ppb	00:22:13
1	V 292.402†	259.1	-146.8	-0.7228 µg/L	-0.7228 ppb	00:22:13
1	Zn 213.857†	639.8	70.1	0.3935 µg/L	0.3935 ppb	00:22:33
2	Sc RADIAL	145208.1	145208.1	99.5 %		00:21:25
2	Al 396.153Radial†	-65.6	-2.7	-0.5302 µg/L	-0.5302 ppb	00:21:45
2	Ca 317.933Radial†	617.9	60.4	3.3625 µg/L	3.3625 ppb	00:21:45
2	Fe 238.204 Radial†	235.5	88.5	5.4567 µg/L	5.4567 ppb	00:21:45
2	K 766.490 Radial†	1643.3	106.7	39.066 µg/L	39.066 ppb	00:21:25
2	Mg 279.077 IEC†	181.7	-8.1	-2.9996 µg/L	-2.9996 ppb	00:21:45
2	Na 589.592 Radial†	1254.4	-30.2	-4.1540 µg/L	-4.1540 ppb	00:21:25
2	Sr 421.552†	-222.0	-87.8	-0.1826 µg/L	-0.1826 ppb	00:21:25
2	Sc 361.383	1746141.6	1746141.6	101.63 %		00:22:35
2	Y 371.029	1043093.8	1043093.8	101.60 %		00:22:35
2	Ag 328.068†	4083.1	-73.6	-0.2839 µg/L	-0.2839 ppb	00:22:37
2	As 188.979†	-16.6	4.0	1.2226 µg/L	1.2226 ppb	00:22:58
2	B 249.677†	3623.9	60.1	0.8842 µg/L	0.8842 ppb	00:22:37
2	Ba 233.527†	-136.2	1.9	0.0073 µg/L	0.0073 ppb	00:22:58
2	Be 313.107†	-917.5	161.8	0.0425 µg/L	0.0425 ppb	00:22:37
2	Cd 226.502†	-112.9	7.1	0.0435 µg/L	0.0435 ppb	00:22:58
2	Co 228.616†	-155.9	36.9	0.4553 µg/L	0.4553 ppb	00:22:58
2	Cr 267.716†	191.2	9.5	0.0788 µg/L	0.0788 ppb	00:22:58
2	Cu 324.752†	3030.9	10.2	0.0363 µg/L	0.0363 ppb	00:22:37
2	Mn 257.610†	340.6	97.9	0.1212 µg/L	0.1212 ppb	00:22:58
2	Mo 202.031†	-3.6	16.6	0.4868 µg/L	0.4868 ppb	00:22:58
2	Ni 231.604†	-126.7	-48.2	-0.5549 µg/L	-0.5549 ppb	00:22:58
2	P 214.914†	-18.2	0.0	-0.0021 µg/L	-0.0021 ppb	00:22:58
2	Pb 220.353†	80.1	-7.6	-0.4191 µg/L	-0.4191 ppb	00:22:58

2	S 181.975 Axial†	92.6	-14.0	-10.355 µg/L	-10.355 ppb	00:22:58
2	Sb 206.836†	74.8	-7.3	-0.8573 µg/L	-0.8573 ppb	00:22:58
2	Se 196.026†	29.6	13.8	5.00 µg/L	5.00 ppb	00:22:58
2	SiO2†	1807.1	2.8	0.2551 µg/L	0.2551 ppb	00:22:37
2	Si 251.611†	912.7	61.5	0.8976 µg/L	0.8976 ppb	00:22:37
2	Sn 189.927†	5.4	6.4	0.3994 µg/L	0.3994 ppb	00:22:58
2	Ti 334.940†	911.5	-55.7	-0.0496 µg/L	-0.0496 ppb	00:22:37
2	Tl 190.801†	-107.6	10.8	1.3219 µg/L	1.3219 ppb	00:22:58
2	U 409.014†	-364.0	-88.2	-5.1839 µg/L	-5.1839 ppb	00:22:37
2	V 292.402†	324.6	-84.4	-0.4104 µg/L	-0.4104 ppb	00:22:37
2	Zn 213.857†	602.5	28.4	0.1627 µg/L	0.1627 ppb	00:22:58
3	Sc RADIAL	142939.6	142939.6	98.0 %		00:21:47
3	Al 396.153Radial†	-66.5	-4.7	-0.8930 µg/L	-0.8930 ppb	00:22:07
3	Ca 317.933Radial†	598.8	50.7	2.8256 µg/L	2.8256 ppb	00:22:07
3	Fe 238.204 Radial†	216.5	73.0	4.4964 µg/L	4.4964 ppb	00:22:07
3	K 766.490 Radial†	1593.8	82.4	30.155 µg/L	30.155 ppb	00:21:47
3	Mg 279.077 IEC†	176.4	-10.6	-3.9486 µg/L	-3.9486 ppb	00:22:07
3	Na 589.592 Radial†	1336.7	73.9	10.067 µg/L	10.067 ppb	00:21:47
3	Sr 421.552†	-79.1	54.6	0.1134 µg/L	0.1134 ppb	00:21:47
3	Sc 361.383	1720285.6	1720285.6	100.12 %		00:23:00
3	Y 371.029	1027937.7	1027937.7	100.12 %		00:23:00
3	Ag 328.068†	3952.7	-143.5	-0.5516 µg/L	-0.5516 ppb	00:23:02
3	As 188.979†	-14.9	5.5	1.6581 µg/L	1.6581 ppb	00:23:22
3	B 249.677†	3577.4	67.2	0.9901 µg/L	0.9901 ppb	00:23:02
3	Ba 233.527†	-138.9	-2.8	-0.0116 µg/L	-0.0116 ppb	00:23:22
3	Be 313.107†	-853.9	211.9	0.0539 µg/L	0.0539 ppb	00:23:02
3	Cd 226.502†	-97.9	20.4	0.1268 µg/L	0.1268 ppb	00:23:22
3	Co 228.616†	-169.6	20.9	0.2575 µg/L	0.2575 ppb	00:23:22
3	Cr 267.716†	194.2	15.4	0.1307 µg/L	0.1307 ppb	00:23:22
3	Cu 324.752†	2897.3	-78.4	-0.3143 µg/L	-0.3143 ppb	00:23:02
3	Mn 257.610†	316.9	79.2	0.0982 µg/L	0.0982 ppb	00:23:22
3	Mo 202.031†	-2.4	17.7	0.5206 µg/L	0.5206 ppb	00:23:22
3	Ni 231.604†	-79.7	-3.1	-0.0357 µg/L	-0.0357 ppb	00:23:22
3	P 214.914†	-14.8	3.1	0.6703 µg/L	0.6703 ppb	00:23:22
3	Pb 220.353†	65.3	-21.2	-1.1703 µg/L	-1.1703 ppb	00:23:22
3	S 181.975 Axial†	96.4	-8.8	-6.5340 µg/L	-6.5340 ppb	00:23:22
3	Sb 206.836†	95.7	14.7	1.7585 µg/L	1.7585 ppb	00:23:22
3	Se 196.026†	27.8	12.5	4.51 µg/L	4.51 ppb	00:23:22
3	SiO2†	1722.4	-55.0	-5.4009 µg/L	-5.4009 ppb	00:23:02
3	Si 251.611†	906.7	69.0	1.0061 µg/L	1.0061 ppb	00:23:02
3	Sn 189.927†	9.3	10.4	0.6455 µg/L	0.6455 ppb	00:23:22
3	Ti 334.940†	750.5	-203.0	-0.1841 µg/L	-0.1841 ppb	00:23:02
3	Tl 190.801†	-113.2	3.6	0.4390 µg/L	0.4390 ppb	00:23:22
3	U 409.014†	-484.4	-213.9	-12.531 µg/L	-12.531 ppb	00:23:02
3	V 292.402†	320.4	-83.8	-0.4117 µg/L	-0.4117 ppb	00:23:02
3	Zn 213.857†	604.4	39.2	0.2202 µg/L	0.2202 ppb	00:23:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733000.6	100.86 %	0.753			0.75%
Sc RADIAL	143719.2	98.5 %	0.88			0.90%
Y 371.029	1035325.4	100.84 %	0.739			0.73%
Ag 328.068†	-124.5	-0.4789 µg/L	0.17068	-0.4789 ppb	0.17068	35.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.1	0.1890 µg/L	1.57038	0.1890 ppb	1.57038	830.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.6	0.7841 µg/L	1.15723	0.7841 ppb	1.15723	147.58%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	21.4	0.3144 µg/L	1.08004	0.3144 ppb	1.08004	343.55%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.1	0.0405 µg/L	0.07440	0.0405 ppb	0.07440	183.92%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	174.0	0.0445 µg/L	0.00860	0.0445 ppb	0.00860	19.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	68.8	3.8338 µg/L	1.30912	3.8338 ppb	1.30912	34.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.0	0.0930 µg/L	0.04379	0.0930 ppb	0.04379	47.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.4	0.3629 µg/L	0.09956	0.3629 ppb	0.09956	27.44%

Cr	267.716†	8.8	0.0763 µg/L	0.05570	0.0763 ppb	0.05570	73.02%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-26.9	-0.1114 µg/L	0.18174	-0.1114 ppb	0.18174	163.21%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	86.8	5.3509 µg/L	0.80679	5.3509 ppb	0.80679	15.08%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	140.9	51.578 µg/L	29.7235	51.578 ppb	29.7235	57.63%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.3	-0.8527 µg/L	4.56498	-0.8527 ppb	4.56498	535.33%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	96.9	0.1200 µg/L	0.02117	0.1200 ppb	0.02117	17.65%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	13.1	0.3848 µg/L	0.20656	0.3848 ppb	0.20656	53.68%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	33.4	4.5235 µg/L	7.61088	4.5235 ppb	7.61088	168.25%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-18.7	-0.2157 µg/L	0.29398	-0.2157 ppb	0.29398	136.32%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-0.1	-0.0241 µg/L	0.70567	-0.0241 ppb	0.70567	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-19.0	-1.0513 µg/L	0.58190	-1.0513 ppb	0.58190	55.35%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-11.2	-8.2812 µg/L	1.93130	-8.2812 ppb	1.93130	23.32%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	5.8	0.6943 µg/L	1.37431	0.6943 ppb	1.37431	197.94%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	6.5	2.36 µg/L	4.154	2.36 ppb	4.154	176.05%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-17.2	-1.6992 µg/L	3.20748	-1.6992 ppb	3.20748	188.77%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	101.9	1.4948 µg/L	0.94203	1.4948 ppb	0.94203	63.02%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	6.1	0.3788 µg/L	0.27765	0.3788 ppb	0.27765	73.30%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-26.9	-0.0560 µg/L	0.15260	-0.0560 ppb	0.15260	272.31%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	32.9	0.0348 µg/L	0.27113	0.0348 ppb	0.27113	779.57%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	3.1	0.3767 µg/L	0.97795	0.3767 ppb	0.97795	259.64%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-162.8	-9.5509 µg/L	3.86489	-9.5509 ppb	3.86489	40.47%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-105.0	-0.5150 µg/L	0.18000	-0.5150 ppb	0.18000	34.95%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	45.9	0.2588 µg/L	0.12016	0.2588 ppb	0.12016	46.42%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 147
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 4/1/2010 0:42:50
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145422.4	145422.4	99.7 %		00:43:24
1	Al 396.153Radial†	26455.2	26610.7	4911.5 µg/L	4911.5 ppb	00:43:24
1	Ca 317.933Radial†	86831.3	86573.7	4822.5 µg/L	4822.5 ppb	00:43:24
1	Fe 238.204 Radial†	77746.7	77869.8	4799.4 µg/L	4799.4 ppb	00:43:24
1	K 766.490 Radial†	15151.4	13659.4	4997.0 µg/L	4997.0 ppb	00:43:24
1	Mg 279.077 IEC†	13235.9	13091.4	4885.2 µg/L	4885.2 ppb	00:43:24
1	Na 589.592 Radial†	71616.2	70575.3	9637.0 µg/L	9637.0 ppb	00:43:24
1	Sr 421.552†	232582.8	233529.5	485.46 µg/L	485.46 ppb	00:43:22
1	Sc 361.383	1743598.2	1743598.2	101.48 %		00:43:51
1	Y 371.029	1031066.0	1031066.0	100.43 %		00:43:51
1	Ag 328.068†	133467.0	127432.8	477.84 µg/L	477.84 ppb	00:43:51
1	As 188.979†	1622.1	1618.8	496.49 µg/L	496.49 ppb	00:44:11
1	B 249.677†	35840.6	31813.0	467.53 µg/L	467.53 ppb	00:43:51
1	Ba 233.527†	120186.4	118572.7	478.20 µg/L	478.20 ppb	00:43:51
1	Be 313.107†	1790824.1	1765820.8	480.94 µg/L	480.94 ppb	00:43:51
1	Cd 226.502†	76550.4	75554.3	471.64 µg/L	471.64 ppb	00:43:51
1	Co 228.616†	38943.5	38566.9	476.11 µg/L	476.11 ppb	00:43:51
1	Cr 267.716†	61701.1	60624.4	474.67 µg/L	474.67 ppb	00:43:51
1	Cu 324.752†	126928.7	122108.9	476.02 µg/L	476.02 ppb	00:43:51
1	Mn 257.610†	393495.6	387530.4	479.28 µg/L	479.28 ppb	00:43:51
1	Mo 202.031†	16401.2	16182.5	476.02 µg/L	476.02 ppb	00:44:11
1	Ni 231.604†	41723.3	41192.5	474.30 µg/L	474.30 ppb	00:43:51
1	P 214.914†	11221.8	11076.4	2360.8 µg/L	2360.8 ppb	00:44:11
1	Pb 220.353†	8738.0	8524.4	477.36 µg/L	477.36 ppb	00:44:11
1	S 181.975 Axial†	1370.2	1245.2	928.69 µg/L	928.69 ppb	00:44:11
1	Sb 206.836†	4135.6	3994.6	475.95 µg/L	475.95 ppb	00:44:11
1	Se 196.026†	1352.3	1317.3	478 µg/L	478 ppb	00:44:11
1	SiO2†	55049.3	52472.6	5108.4 µg/L	5108.4 ppb	00:43:51
1	Si 251.611†	166176.8	162921.3	2392.5 µg/L	2392.5 ppb	00:43:51
1	Sn 189.927†	7712.3	7601.2	475.47 µg/L	475.47 ppb	00:44:11
1	Ti 334.940†	521331.2	512790.0	478.47 µg/L	478.47 ppb	00:43:51
1	Tl 190.801†	3813.4	3874.6	483.26 µg/L	483.26 ppb	00:44:11
1	U 409.014†	7540.1	7700.2	479.18 µg/L	479.18 ppb	00:43:51
1	V 292.402†	98936.9	97093.0	479.96 µg/L	479.96 ppb	00:43:51
1	Zn 213.857†	85977.6	84161.6	469.05 µg/L	469.05 ppb	00:43:51
2	Sc RADIAL	145725.8	145725.8	99.9 %		00:43:28
2	Al 396.153Radial†	26577.9	26678.3	4924.3 µg/L	4924.3 ppb	00:43:28
2	Ca 317.933Radial†	86949.3	86510.4	4819.0 µg/L	4819.0 ppb	00:43:28
2	Fe 238.204 Radial†	77908.9	77869.8	4799.4 µg/L	4799.4 ppb	00:43:28
2	K 766.490 Radial†	15116.5	13592.9	4972.6 µg/L	4972.6 ppb	00:43:28
2	Mg 279.077 IEC†	13204.2	13032.0	4862.9 µg/L	4862.9 ppb	00:43:28
2	Na 589.592 Radial†	71600.4	70409.8	9614.4 µg/L	9614.4 ppb	00:43:28
2	Sr 421.552†	232081.7	232541.8	483.40 µg/L	483.40 ppb	00:43:26
2	Sc 361.383	1761627.7	1761627.7	102.53 %		00:44:14
2	Y 371.029	1041782.4	1041782.4	101.47 %		00:44:14
2	Ag 328.068†	135437.6	128008.7	479.98 µg/L	479.98 ppb	00:44:14
2	As 188.979†	1618.9	1599.4	490.58 µg/L	490.58 ppb	00:44:34
2	B 249.677†	36451.8	32047.6	470.98 µg/L	470.98 ppb	00:44:14
2	Ba 233.527†	121402.3	118546.6	478.09 µg/L	478.09 ppb	00:44:14
2	Be 313.107†	1815831.0	1772149.9	482.66 µg/L	482.66 ppb	00:44:14
2	Cd 226.502†	77854.0	76053.7	474.76 µg/L	474.76 ppb	00:44:14
2	Co 228.616†	39625.6	38839.4	479.47 µg/L	479.47 ppb	00:44:14
2	Cr 267.716†	62161.5	60451.1	473.32 µg/L	473.32 ppb	00:44:14
2	Cu 324.752†	128573.2	122432.6	477.28 µg/L	477.28 ppb	00:44:14
2	Mn 257.610†	398371.0	388317.0	480.26 µg/L	480.26 ppb	00:44:14
2	Mo 202.031†	16410.2	16025.9	471.42 µg/L	471.42 ppb	00:44:34
2	Ni 231.604†	42364.7	41397.3	476.66 µg/L	476.66 ppb	00:44:14
2	P 214.914†	11239.3	10980.3	2340.3 µg/L	2340.3 ppb	00:44:34
2	Pb 220.353†	8812.8	8509.3	476.51 µg/L	476.51 ppb	00:44:34

2	S 181.975 Axial†	1368.5	1229.8	917.16 µg/L	917.16 ppb	00:44:34
2	Sb 206.836†	4132.0	3949.3	470.52 µg/L	470.52 ppb	00:44:34
2	Se 196.026†	1324.7	1276.8	464 µg/L	464 ppb	00:44:34
2	SiO2†	55692.7	52545.0	5115.6 µg/L	5115.6 ppb	00:44:14
2	Si 251.611†	168404.8	163418.4	2399.9 µg/L	2399.9 ppb	00:44:14
2	Sn 189.927†	7723.1	7533.9	471.28 µg/L	471.28 ppb	00:44:34
2	Ti 334.940†	526897.4	512961.1	478.63 µg/L	478.63 ppb	00:44:14
2	Tl 190.801†	3822.8	3845.3	479.65 µg/L	479.65 ppb	00:44:34
2	U 409.014†	7487.3	7572.7	471.77 µg/L	471.77 ppb	00:44:14
2	V 292.402†	100123.8	97252.7	480.69 µg/L	480.69 ppb	00:44:14
2	Zn 213.857†	87731.8	85005.5	473.77 µg/L	473.77 ppb	00:44:14
3	Sc RADIAL	145384.0	145384.0	99.6 %		00:43:32
3	Al 396.153Radial†	26816.5	26980.4	4980.1 µg/L	4980.1 ppb	00:43:32
3	Ca 317.933Radial†	87178.4	86945.1	4843.2 µg/L	4843.2 ppb	00:43:32
3	Fe 238.204 Radial†	78269.7	78415.4	4833.0 µg/L	4833.0 ppb	00:43:32
3	K 766.490 Radial†	15108.8	13620.7	4982.8 µg/L	4982.8 ppb	00:43:32
3	Mg 279.077 IEC†	13407.1	13266.7	4950.4 µg/L	4950.4 ppb	00:43:32
3	Na 589.592 Radial†	71569.6	70547.5	9633.2 µg/L	9633.2 ppb	00:43:32
3	Sr 421.552†	232881.6	233891.1	486.21 µg/L	486.21 ppb	00:43:30
3	Sc 361.383	1742785.1	1742785.1	101.43 %		00:44:37
3	Y 371.029	1031123.9	1031123.9	100.43 %		00:44:37
3	Ag 328.068†	133463.3	127490.6	478.04 µg/L	478.04 ppb	00:44:37
3	As 188.979†	1602.4	1600.2	490.85 µg/L	490.85 ppb	00:44:57
3	B 249.677†	35982.1	31968.9	469.83 µg/L	469.83 ppb	00:44:37
3	Ba 233.527†	120198.2	118639.6	478.47 µg/L	478.47 ppb	00:44:37
3	Be 313.107†	1793841.1	1769618.6	481.97 µg/L	481.97 ppb	00:44:37
3	Cd 226.502†	76743.1	75779.4	473.04 µg/L	473.04 ppb	00:44:37
3	Co 228.616†	39088.6	38727.9	478.09 µg/L	478.09 ppb	00:44:37
3	Cr 267.716†	61579.9	60533.3	473.97 µg/L	473.97 ppb	00:44:37
3	Cu 324.752†	127002.6	122240.1	476.52 µg/L	476.52 ppb	00:44:37
3	Mn 257.610†	393720.4	387932.9	479.78 µg/L	479.78 ppb	00:44:37
3	Mo 202.031†	16368.1	16157.5	475.29 µg/L	475.29 ppb	00:44:57
3	Ni 231.604†	41714.9	41203.3	474.43 µg/L	474.43 ppb	00:44:37
3	P 214.914†	11213.9	11073.8	2360.3 µg/L	2360.3 ppb	00:44:57
3	Pb 220.353†	8765.9	8556.0	479.14 µg/L	479.14 ppb	00:44:57
3	S 181.975 Axial†	1369.3	1244.9	928.45 µg/L	928.45 ppb	00:44:57
3	Sb 206.836†	4132.6	3993.6	475.83 µg/L	475.83 ppb	00:44:57
3	Se 196.026†	1350.4	1316.1	478 µg/L	478 ppb	00:44:57
3	SiO2†	54988.6	52438.1	5105.0 µg/L	5105.0 ppb	00:44:37
3	Si 251.611†	166378.2	163196.2	2396.5 µg/L	2396.5 ppb	00:44:37
3	Sn 189.927†	7736.3	7628.4	477.16 µg/L	477.16 ppb	00:44:57
3	Ti 334.940†	521282.1	512981.2	478.65 µg/L	478.65 ppb	00:44:37
3	Tl 190.801†	3826.1	3888.8	485.00 µg/L	485.00 ppb	00:44:57
3	U 409.014†	7233.1	7401.1	461.69 µg/L	461.69 ppb	00:44:37
3	V 292.402†	98911.9	97113.8	480.04 µg/L	480.04 ppb	00:44:37
3	Zn 213.857†	86546.2	84761.8	472.42 µg/L	472.42 ppb	00:44:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749337.0	101.81 %	0.620			0.61%
Sc RADIAL	145510.7	99.7 %	0.13			0.13%
Y 371.029	1034657.4	100.78 %	0.601			0.60%
Ag 328.068†	127644.0	478.62 µg/L	1.180	478.62 ppb	1.180	0.25%
QC value within limits for Ag 328.068 Recovery = 95.72%						
Al 396.153Radial†	26756.5	4938.6 µg/L	36.47	4938.6 ppb	36.47	0.74%
QC value within limits for Al 396.153Radial Recovery = 98.77%						
As 188.979†	1606.1	492.64 µg/L	3.336	492.64 ppb	3.336	0.68%
QC value within limits for As 188.979 Recovery = 98.53%						
B 249.677†	31943.2	469.45 µg/L	1.755	469.45 ppb	1.755	0.37%
QC value within limits for B 249.677 Recovery = 93.89%						
Ba 233.527†	118586.3	478.25 µg/L	0.193	478.25 ppb	0.193	0.04%
QC value within limits for Ba 233.527 Recovery = 95.65%						
Be 313.107†	1769196.4	481.85 µg/L	0.866	481.85 ppb	0.866	0.18%
QC value within limits for Be 313.107 Recovery = 96.37%						
Ca 317.933Radial†	86676.4	4828.2 µg/L	13.08	4828.2 ppb	13.08	0.27%
QC value within limits for Ca 317.933Radial Recovery = 96.56%						
Cd 226.502†	75795.8	473.15 µg/L	1.563	473.15 ppb	1.563	0.33%
QC value within limits for Cd 226.502 Recovery = 94.63%						
Co 228.616†	38711.4	477.89 µg/L	1.690	477.89 ppb	1.690	0.35%

QC value within limits for Co 228.616 Recovery = 95.58%							
Cr 267.716†	60536.3	473.99 µg/L	0.676	473.99 ppb	0.676	0.14%	
QC value within limits for Cr 267.716 Recovery = 94.80%							
Cu 324.752†	122260.5	476.61 µg/L	0.631	476.61 ppb	0.631	0.13%	
QC value within limits for Cu 324.752 Recovery = 95.32%							
Fe 238.204 Radial†	78051.7	4810.6 µg/L	19.41	4810.6 ppb	19.41	0.40%	
QC value within limits for Fe 238.204 Radial Recovery = 96.21%							
K 766.490 Radial†	13624.4	4984.1 µg/L	12.24	4984.1 ppb	12.24	0.25%	
QC value within limits for K 766.490 Radial Recovery = 99.68%							
Mg 279.077 IEC†	13130.0	4899.5 µg/L	45.49	4899.5 ppb	45.49	0.93%	
QC value within limits for Mg 279.077 IEC Recovery = 97.99%							
Mn 257.610†	387926.8	479.77 µg/L	0.487	479.77 ppb	0.487	0.10%	
QC value within limits for Mn 257.610 Recovery = 95.95%							
Mo 202.031†	16121.9	474.24 µg/L	2.474	474.24 ppb	2.474	0.52%	
QC value within limits for Mo 202.031 Recovery = 94.85%							
Na 589.592 Radial†	70510.9	9628.2 µg/L	12.09	9628.2 ppb	12.09	0.13%	
QC value within limits for Na 589.592 Radial Recovery = 96.28%							
Ni 231.604†	41264.4	475.13 µg/L	1.327	475.13 ppb	1.327	0.28%	
QC value within limits for Ni 231.604 Recovery = 95.03%							
P 214.914†	11043.5	2353.8 µg/L	11.71	2353.8 ppb	11.71	0.50%	
QC value within limits for P 214.914 Recovery = 94.15%							
Pb 220.353†	8529.9	477.67 µg/L	1.340	477.67 ppb	1.340	0.28%	
QC value within limits for Pb 220.353 Recovery = 95.53%							
S 181.975 Axial†	1240.0	924.77 µg/L	6.587	924.77 ppb	6.587	0.71%	
QC value within limits for S 181.975 Axial Recovery = 92.48%							
Sb 206.836†	3979.2	474.10 µg/L	3.102	474.10 ppb	3.102	0.65%	
QC value within limits for Sb 206.836 Recovery = 94.82%							
Se 196.026†	1303.4	473 µg/L	8.3	473 ppb	8.3	1.76%	
QC value within limits for Se 196.026 Recovery = 94.66%							
SiO2†	52485.2	5109.7 µg/L	5.44	5109.7 ppb	5.44	0.11%	
QC value within limits for SiO2 Recovery = 95.55%							
Si 251.611†	163178.7	2396.3 µg/L	3.71	2396.3 ppb	3.71	0.15%	
QC value within limits for Si 251.611 Recovery = 95.85%							
Sn 189.927†	7587.8	474.63 µg/L	3.030	474.63 ppb	3.030	0.64%	
QC value within limits for Sn 189.927 Recovery = 94.93%							
Sr 421.552†	233320.8	485.02 µg/L	1.452	485.02 ppb	1.452	0.30%	
QC value within limits for Sr 421.552 Recovery = 97.00%							
Ti 334.940†	512910.7	478.58 µg/L	0.100	478.58 ppb	0.100	0.02%	
QC value within limits for Ti 334.940 Recovery = 95.72%							
Tl 190.801†	3869.6	482.64 µg/L	2.728	482.64 ppb	2.728	0.57%	
QC value within limits for Tl 190.801 Recovery = 96.53%							
U 409.014†	7558.0	470.88 µg/L	8.779	470.88 ppb	8.779	1.86%	
QC value within limits for U 409.014 Recovery = 94.18%							
V 292.402†	97153.2	480.23 µg/L	0.396	480.23 ppb	0.396	0.08%	
QC value within limits for V 292.402 Recovery = 96.05%							
Zn 213.857†	84643.0	471.74 µg/L	2.432	471.74 ppb	2.432	0.52%	
QC value within limits for Zn 213.857 Recovery = 94.35%							

All analyte(s) passed QC.

Sequence No.: 148

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 0:45:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145813.7	145813.7	99.9 %		00:45:34
1	Al 396.153Radial†	-21.5	41.7	7.7141 µg/L	7.7141 ppb	00:45:54
1	Ca 317.933Radial†	660.7	100.6	5.6043 µg/L	5.6043 ppb	00:45:54
1	Fe 238.204 Radial†	255.4	107.5	6.6275 µg/L	6.6275 ppb	00:45:54
1	K 766.490 Radial†	1930.6	387.4	141.83 µg/L	141.83 ppb	00:45:34
1	Mg 279.077 IEC†	169.2	-21.4	-7.9590 µg/L	-7.9590 ppb	00:45:54
1	Na 589.592 Radial†	1419.6	130.0	17.627 µg/L	17.627 ppb	00:45:34
1	Sr 421.552†	-123.1	12.1	0.0251 µg/L	0.0251 ppb	00:45:34
1	Sc 361.383	1750408.8	1750408.8	101.87 %		00:46:42
1	Y 371.029	1046340.0	1046340.0	101.91 %		00:46:42
1	Ag 328.068†	4173.7	5.5	0.0313 µg/L	0.0313 ppb	00:46:44
1	As 188.979†	-12.6	8.0	2.4214 µg/L	2.4214 ppb	00:47:04
1	B 249.677†	3555.6	-15.7	-0.2323 µg/L	-0.2323 ppb	00:47:04
1	Ba 233.527†	-101.3	36.4	0.1474 µg/L	0.1474 ppb	00:47:04
1	Be 313.107†	-795.6	283.7	0.0772 µg/L	0.0772 ppb	00:46:44
1	Cd 226.502†	-95.6	24.3	0.1514 µg/L	0.1514 ppb	00:47:04
1	Co 228.616†	-179.6	14.0	0.1728 µg/L	0.1728 ppb	00:47:04
1	Cr 267.716†	177.0	-4.8	-0.0365 µg/L	-0.0365 ppb	00:47:04
1	Cu 324.752†	2909.7	-116.1	-0.4503 µg/L	-0.4503 ppb	00:46:44
1	Mn 257.610†	386.8	142.4	0.1765 µg/L	0.1765 ppb	00:47:04
1	Mo 202.031†	-2.5	17.7	0.5193 µg/L	0.5193 ppb	00:47:04
1	Ni 231.604†	-67.3	10.4	0.1201 µg/L	0.1201 ppb	00:47:04
1	P 214.914†	-26.0	-7.6	-1.6208 µg/L	-1.6208 ppb	00:47:04
1	Pb 220.353†	94.4	6.3	0.3548 µg/L	0.3548 ppb	00:47:04
1	S 181.975 Axial†	101.3	-5.6	-4.1728 µg/L	-4.1728 ppb	00:47:04
1	Sb 206.836†	78.6	-3.7	-0.4248 µg/L	-0.4248 ppb	00:47:04
1	Se 196.026†	14.9	-0.6	-0.221 µg/L	-0.221 ppb	00:47:04
1	SiO2†	1836.9	27.8	2.6939 µg/L	2.6939 ppb	00:47:04
1	Si 251.611†	938.9	85.0	1.2435 µg/L	1.2435 ppb	00:46:44
1	Sn 189.927†	6.9	7.9	0.4933 µg/L	0.4933 ppb	00:47:04
1	Ti 334.940†	1245.9	270.5	0.2536 µg/L	0.2536 ppb	00:46:44
1	Tl 190.801†	-106.7	11.9	1.4748 µg/L	1.4748 ppb	00:47:04
1	U 409.014†	-279.4	-4.3	-0.1987 µg/L	-0.1987 ppb	00:46:44
1	V 292.402†	610.8	195.8	0.9591 µg/L	0.9591 ppb	00:46:44
1	Zn 213.857†	602.2	26.7	0.1490 µg/L	0.1490 ppb	00:47:04
2	Sc RADIAL	145033.3	145033.3	99.4 %		00:45:56
2	Al 396.153Radial†	-65.1	-2.3	-0.4158 µg/L	-0.4158 ppb	00:46:16
2	Ca 317.933Radial†	657.9	101.4	5.6466 µg/L	5.6466 ppb	00:46:16
2	Fe 238.204 Radial†	255.9	109.4	6.7397 µg/L	6.7397 ppb	00:46:16
2	K 766.490 Radial†	1898.9	365.8	133.93 µg/L	133.93 ppb	00:45:56
2	Mg 279.077 IEC†	184.6	-5.0	-1.8665 µg/L	-1.8665 ppb	00:46:16
2	Na 589.592 Radial†	1425.5	143.5	19.480 µg/L	19.480 ppb	00:45:56
2	Sr 421.552†	-181.0	-46.9	-0.0975 µg/L	-0.0975 ppb	00:45:56
2	Sc 361.383	1733689.5	1733689.5	100.90 %		00:47:06
2	Y 371.029	1035932.6	1035932.6	100.90 %		00:47:06
2	Ag 328.068†	4170.2	41.6	0.1255 µg/L	0.1255 ppb	00:47:08
2	As 188.979†	-26.8	-6.2	-1.8781 µg/L	-1.8781 ppb	00:47:28
2	B 249.677†	3534.2	-3.2	-0.0484 µg/L	-0.0484 ppb	00:47:28
2	Ba 233.527†	-142.6	-5.5	-0.0225 µg/L	-0.0225 ppb	00:47:28
2	Be 313.107†	-653.6	416.9	0.1076 µg/L	0.1076 ppb	00:47:08
2	Cd 226.502†	-96.3	22.8	0.1415 µg/L	0.1415 ppb	00:47:28
2	Co 228.616†	-179.3	12.7	0.1558 µg/L	0.1558 ppb	00:47:28
2	Cr 267.716†	198.6	18.3	0.1585 µg/L	0.1585 ppb	00:47:28
2	Cu 324.752†	3088.6	88.8	0.3301 µg/L	0.3301 ppb	00:47:08
2	Mn 257.610†	332.3	92.1	0.1140 µg/L	0.1140 ppb	00:47:28
2	Mo 202.031†	-28.0	-7.7	-0.2262 µg/L	-0.2262 ppb	00:47:28
2	Ni 231.604†	-93.8	-16.5	-0.1899 µg/L	-0.1899 ppb	00:47:28
2	P 214.914†	-21.8	-3.7	-0.7885 µg/L	-0.7885 ppb	00:47:28
2	Pb 220.353†	61.7	-25.2	-1.3944 µg/L	-1.3944 ppb	00:47:28

2	S 181.975 Axial†	90.5	-15.4	-11.437 µg/L	-11.437 ppb	00:47:28
2	Sb 206.836†	79.2	-2.4	-0.2858 µg/L	-0.2858 ppb	00:47:28
2	Se 196.026†	19.9	4.4	1.59 µg/L	1.59 ppb	00:47:28
2	SiO2†	1761.9	-29.2	-2.8510 µg/L	-2.8510 ppb	00:47:28
2	Si 251.611†	952.2	107.2	1.5818 µg/L	1.5818 ppb	00:47:08
2	Sn 189.927†	1.6	2.7	0.1708 µg/L	0.1708 ppb	00:47:28
2	Ti 334.940†	1138.7	176.0	0.1727 µg/L	0.1727 ppb	00:47:08
2	Tl 190.801†	-112.9	4.8	0.5868 µg/L	0.5868 ppb	00:47:28
2	U 409.014†	-610.9	-335.5	-19.639 µg/L	-19.639 ppb	00:47:08
2	V 292.402†	335.6	-71.2	-0.3633 µg/L	-0.3633 ppb	00:47:08
2	Zn 213.857†	609.0	39.1	0.2201 µg/L	0.2201 ppb	00:47:28
3	Sc RADIAL	144640.1	144640.1	99.1 %		00:46:18
3	Al 396.153Radial†	-16.5	46.5	8.6229 µg/L	8.6229 ppb	00:46:38
3	Ca 317.933Radial†	641.2	86.3	4.8083 µg/L	4.8083 ppb	00:46:38
3	Fe 238.204 Radial†	234.4	88.4	5.4482 µg/L	5.4482 ppb	00:46:38
3	K 766.490 Radial†	1840.5	312.1	114.26 µg/L	114.26 ppb	00:46:18
3	Mg 279.077 IEC†	179.1	-10.0	-3.7407 µg/L	-3.7407 ppb	00:46:38
3	Na 589.592 Radial†	1296.3	17.0	2.2230 µg/L	2.2230 ppb	00:46:18
3	Sr 421.552†	-133.6	0.5	0.0010 µg/L	0.0010 ppb	00:46:18
3	Sc 361.383	1767241.8	1767241.8	102.85 %		00:47:31
3	Y 371.029	1055815.3	1055815.3	102.84 %		00:47:31
3	Ag 328.068†	4233.0	24.2	0.0732 µg/L	0.0732 ppb	00:47:33
3	As 188.979†	-18.4	2.5	0.7561 µg/L	0.7561 ppb	00:47:53
3	B 249.677†	3514.8	-88.6	-1.3075 µg/L	-1.3075 ppb	00:47:53
3	Ba 233.527†	-120.1	19.1	0.0763 µg/L	0.0763 ppb	00:47:53
3	Be 313.107†	-970.1	121.5	0.0322 µg/L	0.0322 ppb	00:47:33
3	Cd 226.502†	-78.9	41.4	0.2583 µg/L	0.2583 ppb	00:47:53
3	Co 228.616†	-184.4	11.0	0.1355 µg/L	0.1355 ppb	00:47:53
3	Cr 267.716†	190.1	6.2	0.0509 µg/L	0.0509 ppb	00:47:53
3	Cu 324.752†	2968.8	-85.8	-0.3350 µg/L	-0.3350 ppb	00:47:33
3	Mn 257.610†	335.2	88.6	0.1098 µg/L	0.1098 ppb	00:47:53
3	Mo 202.031†	-18.5	2.1	0.0614 µg/L	0.0614 ppb	00:47:53
3	Ni 231.604†	-69.8	8.6	0.0995 µg/L	0.0995 ppb	00:47:53
3	P 214.914†	-21.0	-2.5	-0.5265 µg/L	-0.5265 ppb	00:47:53
3	Pb 220.353†	70.5	-17.8	-0.9923 µg/L	-0.9923 ppb	00:47:53
3	S 181.975 Axial†	109.4	1.3	0.9740 µg/L	0.9740 ppb	00:47:53
3	Sb 206.836†	82.2	-0.9	-0.1044 µg/L	-0.1044 ppb	00:47:53
3	Se 196.026†	22.8	6.9	2.49 µg/L	2.49 ppb	00:47:53
3	SiO2†	1817.9	-7.9	-0.7787 µg/L	-0.7787 ppb	00:47:53
3	Si 251.611†	954.5	91.5	1.3450 µg/L	1.3450 ppb	00:47:33
3	Sn 189.927†	5.8	6.8	0.4211 µg/L	0.4211 ppb	00:47:53
3	Ti 334.940†	1018.9	38.1	0.0372 µg/L	0.0372 ppb	00:47:33
3	Tl 190.801†	-118.1	1.9	0.2233 µg/L	0.2233 ppb	00:47:53
3	U 409.014†	-329.7	-50.7	-3.0245 µg/L	-3.0245 ppb	00:47:33
3	V 292.402†	193.7	-215.4	-1.0528 µg/L	-1.0528 ppb	00:47:33
3	Zn 213.857†	612.8	31.3	0.1753 µg/L	0.1753 ppb	00:47:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750446.7	101.88 %	0.976			0.96%
Sc RADIAL	145162.4	99.5 %	0.41			0.41%
Y 371.029	1046029.3	101.88 %	0.969			0.95%
Ag 328.068†	23.8	0.0767 µg/L	0.04716	0.0767 ppb	0.04716	61.52%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	28.7	5.3071 µg/L	4.97697	5.3071 ppb	4.97697	93.78%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.4331 µg/L	2.16790	0.4331 ppb	2.16790	500.51%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-35.9	-0.5294 µg/L	0.68010	-0.5294 ppb	0.68010	128.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.7	0.0671 µg/L	0.08530	0.0671 ppb	0.08530	127.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	274.1	0.0723 µg/L	0.03793	0.0723 ppb	0.03793	52.45%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	96.1	5.3530 µg/L	0.47226	5.3530 ppb	0.47226	8.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	29.5	0.1837 µg/L	0.06479	0.1837 ppb	0.06479	35.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	12.6	0.1547 µg/L	0.01867	0.1547 ppb	0.01867	12.07%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	6.6	0.0576 µg/L	0.09767	0.0576 ppb	0.09767	169.60%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-37.7	-0.1518 µg/L	0.42126	-0.1518 ppb	0.42126	277.60%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	101.8	6.2718 µg/L	0.71549	6.2718 ppb	0.71549	11.41%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	355.1	130.01 µg/L	14.197	130.01 ppb	14.197	10.92%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-12.1	-4.5221 µg/L	3.12050	-4.5221 ppb	3.12050	69.01%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	107.7	0.1334 µg/L	0.03737	0.1334 ppb	0.03737	28.01%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.0	0.1182 µg/L	0.37600	0.1182 ppb	0.37600	318.18%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	96.8	13.110 µg/L	9.4739	13.110 ppb	9.4739	72.26%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	0.9	0.0099 µg/L	0.17332	0.0099 ppb	0.17332	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-4.6	-0.9786 µg/L	0.57141	-0.9786 ppb	0.57141	58.39%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-12.3	-0.6773 µg/L	0.91616	-0.6773 ppb	0.91616	135.26%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-6.6	-4.8786 µg/L	6.23561	-4.8786 ppb	6.23561	127.82%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-2.3	-0.2716 µg/L	0.16066	-0.2716 ppb	0.16066	59.14%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.6	1.28 µg/L	1.379	1.28 ppb	1.379	107.38%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-3.1	-0.3119 µg/L	2.80175	-0.3119 ppb	2.80175	898.16%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	94.6	1.3901 µg/L	0.17359	1.3901 ppb	0.17359	12.49%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.8	0.3617 µg/L	0.16924	0.3617 ppb	0.16924	46.78%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-11.4	-0.0238 µg/L	0.06494	-0.0238 ppb	0.06494	273.03%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	161.5	0.1545 µg/L	0.10934	0.1545 ppb	0.10934	70.77%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	6.2	0.7616 µg/L	0.64382	0.7616 ppb	0.64382	84.53%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-130.2	-7.6208 µg/L	10.50370	-7.6208 ppb	10.50370	137.83%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-30.3	-0.1523 µg/L	1.02242	-0.1523 ppb	1.02242	671.32%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	32.4	0.1815 µg/L	0.03598	0.1815 ppb	0.03598	19.83%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 158

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 1:06:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146522.6	146522.6	100 %		01:07:32
1	Al 396.153Radial†	26773.8	26728.7	4933.4 µg/L	4933.4 ppb	01:07:32
1	Ca 317.933Radial†	87529.0	86614.3	4824.8 µg/L	4824.8 ppb	01:07:32
1	Fe 238.204 Radial†	78541.6	78075.8	4812.1 µg/L	4812.1 ppb	01:07:32
1	K 766.490 Radial†	15525.2	13917.7	5091.5 µg/L	5091.5 ppb	01:07:32
1	Mg 279.077 IEC†	13414.6	13169.6	4914.3 µg/L	4914.3 ppb	01:07:32
1	Na 589.592 Radial†	72095.2	70512.7	9628.4 µg/L	9628.4 ppb	01:07:32
1	Sr 421.552†	235357.5	234540.5	487.56 µg/L	487.56 ppb	01:07:30
1	Sc 361.383	1762084.8	1762084.8	102.55 %		01:07:59
1	Y 371.029	1041330.1	1041330.1	101.43 %		01:07:59
1	Ag 328.068†	134973.9	127522.4	478.16 µg/L	478.16 ppb	01:07:59
1	As 188.979†	1631.3	1611.1	494.16 µg/L	494.16 ppb	01:08:19
1	B 249.677†	36407.7	31995.5	470.22 µg/L	470.22 ppb	01:07:59
1	Ba 233.527†	121835.6	118938.4	479.67 µg/L	479.67 ppb	01:07:59
1	Be 313.107†	1812562.4	1768503.2	481.66 µg/L	481.66 ppb	01:07:59
1	Cd 226.502†	77806.6	75987.8	474.35 µg/L	474.35 ppb	01:07:59
1	Co 228.616†	39537.1	38743.2	478.28 µg/L	478.28 ppb	01:07:59
1	Cr 267.716†	62417.9	60685.5	475.17 µg/L	475.17 ppb	01:07:59
1	Cu 324.752†	128335.3	122168.2	476.24 µg/L	476.24 ppb	01:07:59
1	Mn 257.610†	398229.3	388078.1	479.96 µg/L	479.96 ppb	01:07:59
1	Mo 202.031†	16581.6	16188.8	476.21 µg/L	476.21 ppb	01:08:19
1	Ni 231.604†	42325.1	41347.9	476.09 µg/L	476.09 ppb	01:07:59
1	P 214.914†	11363.6	11098.7	2365.6 µg/L	2365.6 ppb	01:08:19
1	Pb 220.353†	8809.5	8503.8	476.23 µg/L	476.23 ppb	01:08:19
1	S 181.975 Axial†	1388.1	1248.5	931.12 µg/L	931.12 ppb	01:08:19
1	Sb 206.836†	4172.3	3987.6	475.12 µg/L	475.12 ppb	01:08:19
1	Se 196.026†	1355.6	1306.5	474 µg/L	474 ppb	01:08:19
1	SiO2†	55579.1	52420.1	5103.2 µg/L	5103.2 ppb	01:07:59
1	Si 251.611†	167664.3	162653.7	2388.5 µg/L	2388.5 ppb	01:07:59
1	Sn 189.927†	7816.4	7622.9	476.82 µg/L	476.82 ppb	01:08:19
1	Ti 334.940†	526571.2	512509.7	478.21 µg/L	478.21 ppb	01:07:59
1	Tl 190.801†	3871.8	3892.1	485.40 µg/L	485.40 ppb	01:08:19
1	U 409.014†	7269.4	7358.4	459.25 µg/L	459.25 ppb	01:07:59
1	V 292.402†	100190.2	97292.2	480.93 µg/L	480.93 ppb	01:07:59
1	Zn 213.857†	87537.1	84793.4	472.58 µg/L	472.58 ppb	01:07:59
2	Sc RADIAL	146791.9	146791.9	101 %		01:07:36
2	Al 396.153Radial†	27048.5	26952.8	4975.0 µg/L	4975.0 ppb	01:07:36
2	Ca 317.933Radial†	87767.1	86691.0	4829.0 µg/L	4829.0 ppb	01:07:36
2	Fe 238.204 Radial†	78690.1	78079.8	4812.4 µg/L	4812.4 ppb	01:07:36
2	K 766.490 Radial†	15502.6	13866.8	5072.9 µg/L	5072.9 ppb	01:07:36
2	Mg 279.077 IEC†	13437.6	13167.9	4913.6 µg/L	4913.6 ppb	01:07:36
2	Na 589.592 Radial†	72405.6	70689.6	9652.5 µg/L	9652.5 ppb	01:07:36
2	Sr 421.552†	234136.0	232896.1	484.14 µg/L	484.14 ppb	01:07:34
2	Sc 361.383	1778604.4	1778604.4	103.51 %		01:08:22
2	Y 371.029	1050375.8	1050375.8	102.31 %		01:08:22
2	Ag 328.068†	136891.1	128152.0	480.51 µg/L	480.51 ppb	01:08:22
2	As 188.979†	1644.9	1609.4	493.66 µg/L	493.66 ppb	01:08:42
2	B 249.677†	36899.1	32140.4	472.35 µg/L	472.35 ppb	01:08:22
2	Ba 233.527†	123076.9	119034.1	480.06 µg/L	480.06 ppb	01:08:22
2	Be 313.107†	1839423.0	1778036.1	484.26 µg/L	484.26 ppb	01:08:22
2	Cd 226.502†	78945.9	76383.7	476.82 µg/L	476.82 ppb	01:08:22
2	Co 228.616†	40112.8	38941.2	480.73 µg/L	480.73 ppb	01:08:22
2	Cr 267.716†	63218.4	60893.4	476.79 µg/L	476.79 ppb	01:08:22
2	Cu 324.752†	130086.8	122697.9	478.30 µg/L	478.30 ppb	01:08:22
2	Mn 257.610†	403480.0	389543.9	481.77 µg/L	481.77 ppb	01:08:22
2	Mo 202.031†	16656.0	16110.6	473.91 µg/L	473.91 ppb	01:08:42
2	Ni 231.604†	42857.3	41478.7	477.60 µg/L	477.60 ppb	01:08:22
2	P 214.914†	11457.7	11086.6	2363.0 µg/L	2363.0 ppb	01:08:42
2	Pb 220.353†	8947.0	8556.9	479.18 µg/L	479.18 ppb	01:08:42

2	S 181.975 Axial†	1398.9	1246.4	929.54 µg/L	929.54 ppb	01:08:42
2	Sb 206.836†	4203.2	3979.6	474.11 µg/L	474.11 ppb	01:08:42
2	Se 196.026†	1349.5	1288.4	468 µg/L	468 ppb	01:08:42
2	SiO2†	56478.7	52785.7	5139.0 µg/L	5139.0 ppb	01:08:22
2	Si 251.611†	170057.2	163446.9	2400.2 µg/L	2400.2 ppb	01:08:22
2	Sn 189.927†	7878.0	7611.7	476.13 µg/L	476.13 ppb	01:08:42
2	Ti 334.940†	533494.1	514428.5	480.00 µg/L	480.00 ppb	01:08:22
2	Tl 190.801†	3890.7	3875.3	483.36 µg/L	483.36 ppb	01:08:42
2	U 409.014†	7435.4	7452.8	464.82 µg/L	464.82 ppb	01:08:22
2	V 292.402†	101287.4	97444.7	481.66 µg/L	481.66 ppb	01:08:22
2	Zn 213.857†	88719.7	85143.1	474.54 µg/L	474.54 ppb	01:08:22
3	Sc RADIAL	146092.3	146092.3	100 %		01:07:40
3	Al 396.153Radial†	26892.5	26925.8	4970.0 µg/L	4970.0 ppb	01:07:40
3	Ca 317.933Radial†	87875.3	87217.0	4858.3 µg/L	4858.3 ppb	01:07:40
3	Fe 238.204 Radial†	78732.4	78496.7	4838.1 µg/L	4838.1 ppb	01:07:40
3	K 766.490 Radial†	15647.7	14085.6	5152.9 µg/L	5152.9 ppb	01:07:40
3	Mg 279.077 IEC†	13491.9	13286.2	4957.7 µg/L	4957.7 ppb	01:07:40
3	Na 589.592 Radial†	72348.8	70977.5	9691.8 µg/L	9691.8 ppb	01:07:40
3	Sr 421.552†	235009.5	234883.4	488.27 µg/L	488.27 ppb	01:07:38
3	Sc 361.383	1770348.4	1770348.4	103.03 %		01:08:45
3	Y 371.029	1045407.1	1045407.1	101.82 %		01:08:45
3	Ag 328.068†	136122.4	128022.6	480.04 µg/L	480.04 ppb	01:08:45
3	As 188.979†	1638.1	1610.2	493.91 µg/L	493.91 ppb	01:09:05
3	B 249.677†	36651.5	32066.4	471.25 µg/L	471.25 ppb	01:08:45
3	Ba 233.527†	122673.9	119197.4	480.72 µg/L	480.72 ppb	01:08:45
3	Be 313.107†	1829445.6	1776639.3	483.88 µg/L	483.88 ppb	01:08:45
3	Cd 226.502†	78812.0	76609.4	478.23 µg/L	478.23 ppb	01:08:45
3	Co 228.616†	40059.1	39069.8	482.31 µg/L	482.31 ppb	01:08:45
3	Cr 267.716†	62827.7	60799.1	476.05 µg/L	476.05 ppb	01:08:45
3	Cu 324.752†	129210.5	122433.4	477.28 µg/L	477.28 ppb	01:08:45
3	Mn 257.610†	402215.3	390134.2	482.50 µg/L	482.50 ppb	01:08:45
3	Mo 202.031†	16594.4	16125.8	474.36 µg/L	474.36 ppb	01:09:05
3	Ni 231.604†	42691.2	41510.6	477.96 µg/L	477.96 ppb	01:08:45
3	P 214.914†	11386.0	11068.7	2359.2 µg/L	2359.2 ppb	01:09:05
3	Pb 220.353†	8898.6	8550.2	478.81 µg/L	478.81 ppb	01:09:05
3	S 181.975 Axial†	1408.3	1261.7	940.94 µg/L	940.94 ppb	01:09:05
3	Sb 206.836†	4205.9	4001.2	476.70 µg/L	476.70 ppb	01:09:05
3	Se 196.026†	1357.9	1302.6	473 µg/L	473 ppb	01:09:05
3	SiO2†	56197.3	52767.1	5137.2 µg/L	5137.2 ppb	01:08:45
3	Si 251.611†	169573.7	163743.8	2404.6 µg/L	2404.6 ppb	01:08:45
3	Sn 189.927†	7850.8	7620.8	476.69 µg/L	476.69 ppb	01:09:05
3	Ti 334.940†	530475.4	513902.1	479.51 µg/L	479.51 ppb	01:08:45
3	Tl 190.801†	3897.8	3899.7	486.34 µg/L	486.34 ppb	01:09:05
3	U 409.014†	7446.2	7496.8	467.41 µg/L	467.41 ppb	01:08:45
3	V 292.402†	100857.9	97484.1	481.85 µg/L	481.85 ppb	01:08:45
3	Zn 213.857†	88341.1	85175.3	474.71 µg/L	474.71 ppb	01:08:45

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1770345.9	103.03 %	0.481			0.47%
Sc RADIAL	146468.9	100 %	0.2			0.24%
Y 371.029	1045704.3	101.85 %	0.441			0.43%
Ag 328.068†	127899.0	479.57 µg/L	1.241	479.57 ppb	1.241	0.26%
QC value within limits for Ag 328.068 Recovery = 95.91%						
Al 396.153Radial†	26869.1	4959.5 µg/L	22.74	4959.5 ppb	22.74	0.46%
QC value within limits for Al 396.153Radial Recovery = 99.19%						
As 188.979†	1610.2	493.91 µg/L	0.253	493.91 ppb	0.253	0.05%
QC value within limits for As 188.979 Recovery = 98.78%						
B 249.677†	32067.4	471.27 µg/L	1.065	471.27 ppb	1.065	0.23%
QC value within limits for B 249.677 Recovery = 94.25%						
Ba 233.527†	119056.6	480.15 µg/L	0.528	480.15 ppb	0.528	0.11%
QC value within limits for Ba 233.527 Recovery = 96.03%						
Be 313.107†	1774392.9	483.27 µg/L	1.403	483.27 ppb	1.403	0.29%
QC value within limits for Be 313.107 Recovery = 96.65%						
Ca 317.933Radial†	86840.8	4837.4 µg/L	18.28	4837.4 ppb	18.28	0.38%
QC value within limits for Ca 317.933Radial Recovery = 96.75%						
Cd 226.502†	76327.0	476.46 µg/L	1.965	476.46 ppb	1.965	0.41%
QC value within limits for Cd 226.502 Recovery = 95.29%						
Co 228.616†	38918.0	480.44 µg/L	2.030	480.44 ppb	2.030	0.42%

QC value within limits for Co 228.616 Recovery = 96.09%							
Cr 267.716†	60792.6	476.00 µg/L	0.813	476.00 ppb	0.813	0.17%	
QC value within limits for Cr 267.716 Recovery = 95.20%							
Cu 324.752†	122433.2	477.28 µg/L	1.032	477.28 ppb	1.032	0.22%	
QC value within limits for Cu 324.752 Recovery = 95.46%							
Fe 238.204 Radial†	78217.4	4820.8 µg/L	14.91	4820.8 ppb	14.91	0.31%	
QC value within limits for Fe 238.204 Radial Recovery = 96.42%							
K 766.490 Radial†	13956.7	5105.8 µg/L	41.90	5105.8 ppb	41.90	0.82%	
QC value within limits for K 766.490 Radial Recovery = 102.12%							
Mg 279.077 IEC†	13207.9	4928.5 µg/L	25.24	4928.5 ppb	25.24	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 98.57%							
Mn 257.610†	389252.0	481.41 µg/L	1.309	481.41 ppb	1.309	0.27%	
QC value within limits for Mn 257.610 Recovery = 96.28%							
Mo 202.031†	16141.8	474.83 µg/L	1.219	474.83 ppb	1.219	0.26%	
QC value within limits for Mo 202.031 Recovery = 94.97%							
Na 589.592 Radial†	70726.6	9657.6 µg/L	32.02	9657.6 ppb	32.02	0.33%	
QC value within limits for Na 589.592 Radial Recovery = 96.58%							
Ni 231.604†	41445.7	477.22 µg/L	0.992	477.22 ppb	0.992	0.21%	
QC value within limits for Ni 231.604 Recovery = 95.44%							
P 214.914†	11084.6	2362.6 µg/L	3.23	2362.6 ppb	3.23	0.14%	
QC value within limits for P 214.914 Recovery = 94.50%							
Pb 220.353†	8537.0	478.07 µg/L	1.609	478.07 ppb	1.609	0.34%	
QC value within limits for Pb 220.353 Recovery = 95.61%							
S 181.975 Axial†	1252.2	933.87 µg/L	6.179	933.87 ppb	6.179	0.66%	
QC value within limits for S 181.975 Axial Recovery = 93.39%							
Sb 206.836†	3989.5	475.31 µg/L	1.305	475.31 ppb	1.305	0.27%	
QC value within limits for Sb 206.836 Recovery = 95.06%							
Se 196.026†	1299.2	472 µg/L	3.5	472 ppb	3.5	0.73%	
QC value within limits for Se 196.026 Recovery = 94.36%							
SiO2†	52657.7	5126.5 µg/L	20.17	5126.5 ppb	20.17	0.39%	
QC value within limits for SiO2 Recovery = 95.87%							
Si 251.611†	163281.5	2397.8 µg/L	8.32	2397.8 ppb	8.32	0.35%	
QC value within limits for Si 251.611 Recovery = 95.91%							
Sn 189.927†	7618.4	476.55 µg/L	0.370	476.55 ppb	0.370	0.08%	
QC value within limits for Sn 189.927 Recovery = 95.31%							
Sr 421.552†	234106.7	486.66 µg/L	2.208	486.66 ppb	2.208	0.45%	
QC value within limits for Sr 421.552 Recovery = 97.33%							
Ti 334.940†	513613.4	479.24 µg/L	0.924	479.24 ppb	0.924	0.19%	
QC value within limits for Ti 334.940 Recovery = 95.85%							
Tl 190.801†	3889.0	485.03 µg/L	1.526	485.03 ppb	1.526	0.31%	
QC value within limits for Tl 190.801 Recovery = 97.01%							
U 409.014†	7436.0	463.82 µg/L	4.171	463.82 ppb	4.171	0.90%	
QC value within limits for U 409.014 Recovery = 92.76%							
V 292.402†	97407.0	481.48 µg/L	0.487	481.48 ppb	0.487	0.10%	
QC value within limits for V 292.402 Recovery = 96.30%							
Zn 213.857†	85037.3	473.94 µg/L	1.182	473.94 ppb	1.182	0.25%	
QC value within limits for Zn 213.857 Recovery = 94.79%							

All analyte(s) passed QC.

Sequence No.: 159
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/1/2010 1:09:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146128.5	146128.5	100 %		01:09:42
1	Al 396.153Radial†	21.7	84.8	15.716 µg/L	15.716 ppb	01:10:02
1	Ca 317.933Radial†	736.1	174.5	9.7222 µg/L	9.7222 ppb	01:10:02
1	Fe 238.204 Radial†	312.8	164.3	10.127 µg/L	10.127 ppb	01:10:02
1	K 766.490 Radial†	2113.9	566.2	207.29 µg/L	207.29 ppb	01:09:42
1	Mg 279.077 IEC†	213.9	22.9	8.5204 µg/L	8.5204 ppb	01:10:02
1	Na 589.592 Radial†	1401.2	108.5	14.644 µg/L	14.644 ppb	01:09:42
1	Sr 421.552†	-140.7	-5.2	-0.0110 µg/L	-0.0110 ppb	01:09:42
1	Sc 361.383	1779002.1	1779002.1	103.54 %		01:11:04
1	Y 371.029	1062055.8	1062055.8	103.44 %		01:11:04
1	Ag 328.068†	4011.9	-216.6	-0.7870 µg/L	-0.7870 ppb	01:11:06
1	As 188.979†	-3.3	17.2	5.2109 µg/L	5.2109 ppb	01:11:26
1	B 249.677†	3579.4	-48.7	-0.7204 µg/L	-0.7204 ppb	01:11:06
1	Ba 233.527†	-100.8	38.5	0.1554 µg/L	0.1554 ppb	01:11:26
1	Be 313.107†	-912.4	183.5	0.0524 µg/L	0.0524 ppb	01:11:06
1	Cd 226.502†	-113.0	9.1	0.0554 µg/L	0.0554 ppb	01:11:26
1	Co 228.616†	-162.1	33.7	0.4158 µg/L	0.4158 ppb	01:11:26
1	Cr 267.716†	218.6	32.5	0.2490 µg/L	0.2490 ppb	01:11:26
1	Cu 324.752†	2858.4	-211.5	-0.8135 µg/L	-0.8135 ppb	01:11:06
1	Mn 257.610†	394.6	143.8	0.1776 µg/L	0.1776 ppb	01:11:26
1	Mo 202.031†	-10.8	9.7	0.2849 µg/L	0.2849 ppb	01:11:26
1	Ni 231.604†	-102.3	-22.3	-0.2566 µg/L	-0.2566 ppb	01:11:26
1	P 214.914†	-11.8	6.6	1.4104 µg/L	1.4104 ppb	01:11:26
1	Pb 220.353†	58.5	-29.9	-1.6702 µg/L	-1.6702 ppb	01:11:26
1	S 181.975 Axial†	94.9	-13.4	-9.9448 µg/L	-9.9448 ppb	01:11:26
1	Sb 206.836†	73.9	-9.4	-1.1181 µg/L	-1.1181 ppb	01:11:26
1	Se 196.026†	3.0	-12.4	-4.47 µg/L	-4.47 ppb	01:11:26
1	SiO2†	1673.9	-158.6	-15.514 µg/L	-15.514 ppb	01:11:06
1	Si 251.611†	875.4	8.9	0.1281 µg/L	0.1281 ppb	01:11:06
1	Sn 189.927†	-1.0	0.1	0.0104 µg/L	0.0104 ppb	01:11:26
1	Ti 334.940†	1332.9	334.8	0.3090 µg/L	0.3090 ppb	01:11:06
1	Tl 190.801†	-105.0	15.3	1.8866 µg/L	1.8866 ppb	01:11:26
1	U 409.014†	-139.3	135.4	7.9422 µg/L	7.9422 ppb	01:11:06
1	V 292.402†	520.5	98.9	0.4905 µg/L	0.4905 ppb	01:11:06
1	Zn 213.857†	599.7	14.8	0.0844 µg/L	0.0844 ppb	01:11:26
2	Sc RADIAL	146813.6	146813.6	101 %		01:10:04
2	Al 396.153Radial†	-26.8	36.6	6.7739 µg/L	6.7739 ppb	01:10:24
2	Ca 317.933Radial†	799.6	234.2	13.044 µg/L	13.044 ppb	01:10:24
2	Fe 238.204 Radial†	380.9	230.5	14.206 µg/L	14.206 ppb	01:10:24
2	K 766.490 Radial†	2016.0	459.1	168.07 µg/L	168.07 ppb	01:10:04
2	Mg 279.077 IEC†	199.3	7.4	2.7300 µg/L	2.7300 ppb	01:10:24
2	Na 589.592 Radial†	1532.0	232.0	31.539 µg/L	31.539 ppb	01:10:04
2	Sr 421.552†	-276.0	-139.1	-0.2892 µg/L	-0.2892 ppb	01:10:04
2	Sc 361.383	1772846.3	1772846.3	103.18 %		01:11:28
2	Y 371.029	1058367.3	1058367.3	103.09 %		01:11:28
2	Ag 328.068†	3953.0	-260.2	-0.9687 µg/L	-0.9687 ppb	01:11:30
2	As 188.979†	-11.1	9.6	2.9020 µg/L	2.9020 ppb	01:11:51
2	B 249.677†	3504.7	-109.2	-1.6118 µg/L	-1.6118 ppb	01:11:30
2	Ba 233.527†	-93.1	45.6	0.1835 µg/L	0.1835 ppb	01:11:51
2	Be 313.107†	-921.0	172.1	0.0458 µg/L	0.0458 ppb	01:11:30
2	Cd 226.502†	-118.2	3.6	0.0212 µg/L	0.0212 ppb	01:11:51
2	Co 228.616†	-173.4	22.3	0.2745 µg/L	0.2745 ppb	01:11:51
2	Cr 267.716†	185.2	0.9	0.0101 µg/L	0.0101 ppb	01:11:51
2	Cu 324.752†	2984.8	-79.4	-0.3090 µg/L	-0.3090 ppb	01:11:30
2	Mn 257.610†	358.6	110.3	0.1363 µg/L	0.1363 ppb	01:11:51
2	Mo 202.031†	-18.5	2.1	0.0628 µg/L	0.0628 ppb	01:11:51
2	Ni 231.604†	-79.0	-0.0	-0.0005 µg/L	-0.0005 ppb	01:11:51
2	P 214.914†	-17.7	0.8	0.1744 µg/L	0.1744 ppb	01:11:51
2	Pb 220.353†	91.7	2.4	0.1393 µg/L	0.1393 ppb	01:11:51

2	S 181.975 Axial†	93.2	-14.7	-10.902 µg/L	-10.902 ppb	01:11:51
2	Sb 206.836†	88.1	4.5	0.5418 µg/L	0.5418 ppb	01:11:51
2	Se 196.026†	30.0	13.8	4.99 µg/L	4.99 ppb	01:11:51
2	SiO2†	1856.5	23.9	2.3278 µg/L	2.3278 ppb	01:11:30
2	Si 251.611†	711.9	-146.6	-2.1655 µg/L	-2.1655 ppb	01:11:30
2	Sn 189.927†	7.1	8.0	0.4985 µg/L	0.4985 ppb	01:11:51
2	Ti 334.940†	1070.6	85.1	0.0810 µg/L	0.0810 ppb	01:11:30
2	Tl 190.801†	-109.4	10.7	1.3129 µg/L	1.3129 ppb	01:11:51
2	U 409.014†	-338.3	-58.0	-3.3954 µg/L	-3.3954 ppb	01:11:30
2	V 292.402†	407.5	-8.8	-0.0463 µg/L	-0.0463 ppb	01:11:30
2	Zn 213.857†	608.7	25.6	0.1424 µg/L	0.1424 ppb	01:11:51
3	Sc RADIAL	143813.7	143813.7	98.5 %		01:10:26
3	Al 396.153Radial†	-37.9	24.7	4.5852 µg/L	4.5852 ppb	01:10:46
3	Ca 317.933Radial†	675.0	124.4	6.9283 µg/L	6.9283 ppb	01:10:46
3	Fe 238.204 Radial†	268.6	124.4	7.6689 µg/L	7.6689 ppb	01:10:46
3	K 766.490 Radial†	2088.7	574.6	210.37 µg/L	210.37 ppb	01:10:26
3	Mg 279.077 IEC†	196.5	8.7	3.2166 µg/L	3.2166 ppb	01:10:46
3	Na 589.592 Radial†	1456.5	187.1	25.377 µg/L	25.377 ppb	01:10:26
3	Sr 421.552†	-185.3	-52.7	-0.1097 µg/L	-0.1097 ppb	01:10:26
3	Sc 361.383	1766720.8	1766720.8	102.82 %		01:11:53
3	Y 371.029	1055436.7	1055436.7	102.80 %		01:11:53
3	Ag 328.068†	4141.9	-63.2	-0.2377 µg/L	-0.2377 ppb	01:11:55
3	As 188.979†	-13.9	6.9	2.0745 µg/L	2.0745 ppb	01:12:15
3	B 249.677†	3478.7	-122.7	-1.8116 µg/L	-1.8116 ppb	01:11:55
3	Ba 233.527†	-110.8	28.1	0.1129 µg/L	0.1129 ppb	01:12:15
3	Be 313.107†	-876.4	212.4	0.0574 µg/L	0.0574 ppb	01:11:55
3	Cd 226.502†	-103.6	17.5	0.1084 µg/L	0.1084 ppb	01:12:15
3	Co 228.616†	-163.0	31.7	0.3914 µg/L	0.3914 ppb	01:12:15
3	Cr 267.716†	182.9	-0.6	-0.0038 µg/L	-0.0038 ppb	01:12:15
3	Cu 324.752†	2678.2	-367.6	-1.4282 µg/L	-1.4282 ppb	01:11:55
3	Mn 257.610†	398.1	149.9	0.1853 µg/L	0.1853 ppb	01:12:15
3	Mo 202.031†	-22.2	-1.5	-0.0432 µg/L	-0.0432 ppb	01:12:15
3	Ni 231.604†	-66.6	11.8	0.1354 µg/L	0.1354 ppb	01:12:15
3	P 214.914†	-21.4	-2.9	-0.5979 µg/L	-0.5979 ppb	01:12:15
3	Pb 220.353†	84.0	-4.7	-0.2620 µg/L	-0.2620 ppb	01:12:15
3	S 181.975 Axial†	104.4	-3.6	-2.6485 µg/L	-2.6485 ppb	01:12:15
3	Sb 206.836†	79.6	-3.4	-0.4028 µg/L	-0.4028 ppb	01:12:15
3	Se 196.026†	9.2	-6.3	-2.29 µg/L	-2.29 ppb	01:12:15
3	SiO2†	1792.3	-32.2	-3.1590 µg/L	-3.1590 ppb	01:11:55
3	Si 251.611†	915.0	53.3	0.7827 µg/L	0.7827 ppb	01:11:55
3	Sn 189.927†	8.6	9.4	0.5891 µg/L	0.5891 ppb	01:12:15
3	Ti 334.940†	1052.9	71.4	0.0672 µg/L	0.0672 ppb	01:11:55
3	Tl 190.801†	-98.3	21.1	2.5907 µg/L	2.5907 ppb	01:12:15
3	U 409.014†	-302.2	-24.1	-1.4147 µg/L	-1.4147 ppb	01:11:55
3	V 292.402†	386.4	-28.0	-0.1388 µg/L	-0.1388 ppb	01:11:55
3	Zn 213.857†	594.9	14.1	0.0789 µg/L	0.0789 ppb	01:12:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1772856.4	103.18 %	0.357			0.35%
Sc RADIAL	145585.3	99.8 %	1.08			1.08%
Y 371.029	1058619.9	103.11 %	0.323			0.31%
Ag 328.068†	-180.0	-0.6645 µg/L	0.38057	-0.6645 ppb	0.38057	57.27%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	48.7	9.0249 µg/L	5.89678	9.0249 ppb	5.89678	65.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	11.2	3.3958 µg/L	1.62548	3.3958 ppb	1.62548	47.87%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-93.6	-1.3813 µg/L	0.58098	-1.3813 ppb	0.58098	42.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	37.4	0.1506 µg/L	0.03553	0.1506 ppb	0.03553	23.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	189.3	0.0519 µg/L	0.00580	0.0519 ppb	0.00580	11.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	177.7	9.8982 µg/L	3.06173	9.8982 ppb	3.06173	30.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.1	0.0617 µg/L	0.04391	0.0617 ppb	0.04391	71.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.3	0.3606 µg/L	0.07550	0.3606 ppb	0.07550	20.94%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† 10.9 0.0851 µg/L 0.14212 0.0851 ppb 0.14212 167.04%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -219.5 -0.8502 µg/L 0.56051 -0.8502 ppb 0.56051 65.93%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 173.1 10.667 µg/L 3.3019 10.667 ppb 3.3019 30.95%

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

K 766.490 Radial† 533.3 195.24 µg/L 23.585 195.24 ppb 23.585 12.08%

QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 13.0 4.8223 µg/L 3.21185 4.8223 ppb 3.21185 66.60%

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

Mn 257.610† 134.7 0.1664 µg/L 0.02633 0.1664 ppb 0.02633 15.82%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† 3.4 0.1015 µg/L 0.16744 0.1015 ppb 0.16744 165.00%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 175.9 23.853 µg/L 8.5497 23.853 ppb 8.5497 35.84%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† -3.5 -0.0406 µg/L 0.19901 -0.0406 ppb 0.19901 490.53%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 1.5 0.3289 µg/L 1.01302 0.3289 ppb 1.01302 307.97%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -10.7 -0.5976 µg/L 0.95031 -0.5976 ppb 0.95031 159.02%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† -10.5 -7.8319 µg/L 4.51438 -7.8319 ppb 4.51438 57.64%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† -2.8 -0.3264 µg/L 0.83261 -0.3264 ppb 0.83261 255.12%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -1.6 -0.590 µg/L 4.9553 -0.590 ppb 4.9553 839.18%

QC value within limits for Se 196.026 Recovery = Not calculated

SiO2† -55.7 -5.4482 µg/L 9.13833 -5.4482 ppb 9.13833 167.73%

QC value within limits for SiO2 Recovery = Not calculated

Si 251.611† -28.1 -0.4183 µg/L 1.54819 -0.4183 ppb 1.54819 370.16%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† 5.9 0.3660 µg/L 0.31130 0.3660 ppb 0.31130 85.06%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† -65.7 -0.1366 µg/L 0.14107 -0.1366 ppb 0.14107 103.24%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† 163.8 0.1524 µg/L 0.13582 0.1524 ppb 0.13582 89.12%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† 15.7 1.9301 µg/L 0.63996 1.9301 ppb 0.63996 33.16%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 17.8 1.0440 µg/L 6.05550 1.0440 ppb 6.05550 580.00%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 20.7 0.1018 µg/L 0.33976 0.1018 ppb 0.33976 333.78%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 18.2 0.1019 µg/L 0.03517 0.1019 ppb 0.03517 34.52%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 169

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 1:30:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142269.6	142269.6	97.5 %		01:31:08
1	Al 396.153Radial†	26265.9	27004.9	4984.5 µg/L	4984.5 ppb	01:31:08
1	Ca 317.933Radial†	85749.5	87395.0	4868.2 µg/L	4868.2 ppb	01:31:08
1	Fe 238.204 Radial†	76157.7	77968.9	4805.5 µg/L	4805.5 ppb	01:31:08
1	K 766.490 Radial†	14863.6	13701.2	5012.2 µg/L	5012.2 ppb	01:31:08
1	Mg 279.077 IEC†	13087.6	13233.6	4938.2 µg/L	4938.2 ppb	01:31:08
1	Na 589.592 Radial†	70110.3	70623.2	9643.5 µg/L	9643.5 ppb	01:31:08
1	Sr 421.552†	227619.3	233610.5	485.62 µg/L	485.62 ppb	01:31:06
1	Sc 361.383	1737460.4	1737460.4	101.12 %		01:31:21
1	Y 371.029	1026728.3	1026728.3	100.00 %		01:31:21
1	Ag 328.068†	133485.2	127915.4	479.59 µg/L	479.59 ppb	01:31:21
1	As 188.979†	1620.0	1622.4	497.58 µg/L	497.58 ppb	01:31:41
1	B 249.677†	35927.2	32023.4	470.63 µg/L	470.63 ppb	01:31:21
1	Ba 233.527†	119703.8	118513.9	477.96 µg/L	477.96 ppb	01:31:21
1	Be 313.107†	1789882.8	1771124.1	482.37 µg/L	482.37 ppb	01:31:21
1	Cd 226.502†	77069.2	76333.9	476.51 µg/L	476.51 ppb	01:31:21
1	Co 228.616†	38976.7	38735.3	478.19 µg/L	478.19 ppb	01:31:21
1	Cr 267.716†	61508.0	60648.2	474.88 µg/L	474.88 ppb	01:31:21
1	Cu 324.752†	126624.4	122249.8	476.55 µg/L	476.55 ppb	01:31:21
1	Mn 257.610†	392973.5	388384.0	480.34 µg/L	480.34 ppb	01:31:21
1	Mo 202.031†	16410.6	16248.9	477.97 µg/L	477.97 ppb	01:31:41
1	Ni 231.604†	41598.2	41214.0	474.55 µg/L	474.55 ppb	01:31:21
1	P 214.914†	11285.5	11178.5	2382.7 µg/L	2382.7 ppb	01:31:41
1	Pb 220.353†	8747.8	8564.6	479.64 µg/L	479.64 ppb	01:31:41
1	S 181.975 Axial†	1374.4	1254.1	935.33 µg/L	935.33 ppb	01:31:41
1	Sb 206.836†	4142.8	4016.1	478.53 µg/L	478.53 ppb	01:31:41
1	Se 196.026†	1343.3	1313.1	477 µg/L	477 ppb	01:31:41
1	SiO2†	54906.9	52523.5	5113.2 µg/L	5113.2 ppb	01:31:21
1	Si 251.611†	165514.0	162844.3	2391.3 µg/L	2391.3 ppb	01:31:21
1	Sn 189.927†	7741.6	7657.0	478.94 µg/L	478.94 ppb	01:31:41
1	Ti 334.940†	519154.2	512451.9	478.16 µg/L	478.16 ppb	01:31:21
1	Tl 190.801†	3844.3	3918.4	488.62 µg/L	488.62 ppb	01:31:41
1	U 409.014†	7036.4	7228.4	451.59 µg/L	451.59 ppb	01:31:21
1	V 292.402†	98555.4	97060.1	479.81 µg/L	479.81 ppb	01:31:21
1	Zn 213.857†	86480.2	84958.0	473.52 µg/L	473.52 ppb	01:31:21
2	Sc RADIAL	145492.3	145492.3	99.7 %		01:31:12
2	Al 396.153Radial†	26699.5	26843.0	4954.3 µg/L	4954.3 ppb	01:31:12
2	Ca 317.933Radial†	88239.7	87944.4	4898.8 µg/L	4898.8 ppb	01:31:12
2	Fe 238.204 Radial†	78454.6	78542.4	4840.9 µg/L	4840.9 ppb	01:31:12
2	K 766.490 Radial†	15155.4	13656.2	4995.8 µg/L	4995.8 ppb	01:31:12
2	Mg 279.077 IEC†	13542.7	13392.7	4997.5 µg/L	4997.5 ppb	01:31:12
2	Na 589.592 Radial†	71767.1	70692.1	9653.0 µg/L	9653.0 ppb	01:31:12
2	Sr 421.552†	228188.0	229009.4	476.06 µg/L	476.06 ppb	01:31:10
2	Sc 361.383	1723000.0	1723000.0	100.28 %		01:31:44
2	Y 371.029	1017920.8	1017920.8	99.146 %		01:31:44
2	Ag 328.068†	131837.8	127380.5	477.62 µg/L	477.62 ppb	01:31:44
2	As 188.979†	1612.3	1628.2	499.35 µg/L	499.35 ppb	01:32:04
2	B 249.677†	35506.1	31901.7	468.84 µg/L	468.84 ppb	01:31:44
2	Ba 233.527†	118538.3	118345.2	477.28 µg/L	477.28 ppb	01:31:44
2	Be 313.107†	1770416.1	1766566.8	481.14 µg/L	481.14 ppb	01:31:44
2	Cd 226.502†	75820.7	75728.5	472.72 µg/L	472.72 ppb	01:31:44
2	Co 228.616†	38468.3	38551.9	475.92 µg/L	475.92 ppb	01:31:44
2	Cr 267.716†	60774.3	60427.1	473.14 µg/L	473.14 ppb	01:31:44
2	Cu 324.752†	125187.6	121867.9	475.08 µg/L	475.08 ppb	01:31:44
2	Mn 257.610†	388045.5	386731.2	478.29 µg/L	478.29 ppb	01:31:44
2	Mo 202.031†	16407.0	16381.6	481.87 µg/L	481.87 ppb	01:32:04
2	Ni 231.604†	41306.7	41268.5	475.18 µg/L	475.18 ppb	01:31:44
2	P 214.914†	11273.6	11260.3	2400.2 µg/L	2400.2 ppb	01:32:04
2	Pb 220.353†	8792.2	8681.5	486.15 µg/L	486.15 ppb	01:32:04

2	S 181.975 Axial†	1379.3	1270.4	947.45 µg/L	947.45 ppb	01:32:04
2	Sb 206.836†	4139.2	4046.9	482.29 µg/L	482.29 ppb	01:32:04
2	Se 196.026†	1342.4	1323.4	481 µg/L	481 ppb	01:32:04
2	SiO2†	54127.5	52201.9	5081.6 µg/L	5081.6 ppb	01:31:44
2	Si 251.611†	163587.2	162296.6	2383.1 µg/L	2383.1 ppb	01:31:44
2	Sn 189.927†	7748.5	7728.1	483.38 µg/L	483.38 ppb	01:32:04
2	Ti 334.940†	513666.6	511288.3	477.06 µg/L	477.06 ppb	01:31:44
2	Tl 190.801†	3848.1	3954.1	493.00 µg/L	493.00 ppb	01:32:04
2	U 409.014†	7224.9	7474.7	465.94 µg/L	465.94 ppb	01:31:44
2	V 292.402†	97625.8	96951.0	479.31 µg/L	479.31 ppb	01:31:44
2	Zn 213.857†	85297.5	84496.3	470.92 µg/L	470.92 ppb	01:31:44
3	Sc RADIAL	144017.2	144017.2	98.7 %		01:31:16
3	Al 396.153Radial†	26612.6	27029.2	4989.1 µg/L	4989.1 ppb	01:31:16
3	Ca 317.933Radial†	87344.0	87943.4	4898.8 µg/L	4898.8 ppb	01:31:16
3	Fe 238.204 Radial†	77641.1	78524.1	4839.7 µg/L	4839.7 ppb	01:31:16
3	K 766.490 Radial†	15113.2	13769.2	5037.1 µg/L	5037.1 ppb	01:31:16
3	Mg 279.077 IEC†	13475.2	13463.5	5023.8 µg/L	5023.8 ppb	01:31:16
3	Na 589.592 Radial†	71081.3	70734.5	9658.7 µg/L	9658.7 ppb	01:31:16
3	Sr 421.552†	230195.4	233387.7	485.16 µg/L	485.16 ppb	01:31:14
3	Sc 361.383	1737670.0	1737670.0	101.13 %		01:32:07
3	Y 371.029	1026144.0	1026144.0	99.947 %		01:32:07
3	Ag 328.068†	133325.2	127741.3	478.98 µg/L	478.98 ppb	01:32:07
3	As 188.979†	1614.3	1616.6	495.84 µg/L	495.84 ppb	01:32:27
3	B 249.677†	36063.6	32154.0	472.55 µg/L	472.55 ppb	01:32:07
3	Ba 233.527†	119791.6	118586.4	478.26 µg/L	478.26 ppb	01:32:07
3	Be 313.107†	1794420.6	1775397.7	483.54 µg/L	483.54 ppb	01:32:07
3	Cd 226.502†	76706.1	75965.7	474.21 µg/L	474.21 ppb	01:32:07
3	Co 228.616†	39092.4	38845.1	479.54 µg/L	479.54 ppb	01:32:07
3	Cr 267.716†	61552.9	60685.3	475.16 µg/L	475.16 ppb	01:32:07
3	Cu 324.752†	126672.9	122282.6	476.70 µg/L	476.70 ppb	01:32:07
3	Mn 257.610†	392785.8	388151.5	480.05 µg/L	480.05 ppb	01:32:07
3	Mo 202.031†	16368.2	16205.0	476.69 µg/L	476.69 ppb	01:32:27
3	Ni 231.604†	41743.6	41352.8	476.15 µg/L	476.15 ppb	01:32:07
3	P 214.914†	11241.9	11134.0	2373.1 µg/L	2373.1 ppb	01:32:27
3	Pb 220.353†	8768.9	8584.4	480.73 µg/L	480.73 ppb	01:32:27
3	S 181.975 Axial†	1366.4	1246.1	929.32 µg/L	929.32 ppb	01:32:27
3	Sb 206.836†	4129.1	4002.1	476.84 µg/L	476.84 ppb	01:32:27
3	Se 196.026†	1336.5	1306.3	474 µg/L	474 ppb	01:32:27
3	SiO2†	54817.6	52428.6	5104.0 µg/L	5104.0 ppb	01:32:07
3	Si 251.611†	165658.0	162967.0	2393.1 µg/L	2393.1 ppb	01:32:07
3	Sn 189.927†	7715.6	7630.3	477.28 µg/L	477.28 ppb	01:32:27
3	Ti 334.940†	519188.2	512423.6	478.12 µg/L	478.12 ppb	01:32:07
3	Tl 190.801†	3815.9	3889.9	485.12 µg/L	485.12 ppb	01:32:27
3	U 409.014†	7283.4	7471.8	465.86 µg/L	465.86 ppb	01:32:07
3	V 292.402†	98744.6	97235.4	480.66 µg/L	480.66 ppb	01:32:07
3	Zn 213.857†	86568.5	85035.0	473.94 µg/L	473.94 ppb	01:32:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732710.1	100.84 %	0.489			0.49%
Sc RADIAL	143926.4	98.6 %	1.11			1.12%
Y 371.029	1023597.7	99.699 %	0.4797			0.48%
Ag 328.068†	127679.1	478.73 µg/L	1.007	478.73 ppb	1.007	0.21%
QC value within limits for Ag 328.068 Recovery = 95.75%						
Al 396.153Radial†	26959.0	4976.0 µg/L	18.89	4976.0 ppb	18.89	0.38%
QC value within limits for Al 396.153Radial Recovery = 99.52%						
As 188.979†	1622.4	497.59 µg/L	1.754	497.59 ppb	1.754	0.35%
QC value within limits for As 188.979 Recovery = 99.52%						
B 249.677†	32026.3	470.67 µg/L	1.854	470.67 ppb	1.854	0.39%
QC value within limits for B 249.677 Recovery = 94.13%						
Ba 233.527†	118481.8	477.83 µg/L	0.498	477.83 ppb	0.498	0.10%
QC value within limits for Ba 233.527 Recovery = 95.57%						
Be 313.107†	1771029.5	482.35 µg/L	1.202	482.35 ppb	1.202	0.25%
QC value within limits for Be 313.107 Recovery = 96.47%						
Ca 317.933Radial†	87760.9	4888.6 µg/L	17.65	4888.6 ppb	17.65	0.36%
QC value within limits for Ca 317.933Radial Recovery = 97.77%						
Cd 226.502†	76009.3	474.48 µg/L	1.907	474.48 ppb	1.907	0.40%
QC value within limits for Cd 226.502 Recovery = 94.90%						
Co 228.616†	38710.8	477.88 µg/L	1.828	477.88 ppb	1.828	0.38%

Cr	267.716†	60586.9	474.39 µg/L	1.096	474.39 ppb	1.096	0.23%
Cu	324.752†	122133.4	476.11 µg/L	0.893	476.11 ppb	0.893	0.19%
Fe	238.204 Radial†	78345.1	4828.7 µg/L	20.09	4828.7 ppb	20.09	0.42%
K	766.490 Radial†	13708.9	5015.0 µg/L	20.81	5015.0 ppb	20.81	0.42%
Mg	279.077 IEC†	13363.2	4986.5 µg/L	43.85	4986.5 ppb	43.85	0.88%
Mn	257.610†	387755.6	479.56 µg/L	1.108	479.56 ppb	1.108	0.23%
Mo	202.031†	16278.5	478.84 µg/L	2.702	478.84 ppb	2.702	0.56%
Na	589.592 Radial†	70683.3	9651.7 µg/L	7.67	9651.7 ppb	7.67	0.08%
Ni	231.604†	41278.5	475.29 µg/L	0.805	475.29 ppb	0.805	0.17%
P	214.914†	11190.9	2385.3 µg/L	13.71	2385.3 ppb	13.71	0.57%
Pb	220.353†	8610.1	482.17 µg/L	3.492	482.17 ppb	3.492	0.72%
S	181.975 Axial†	1256.9	937.36 µg/L	9.234	937.36 ppb	9.234	0.99%
Sb	206.836†	4021.7	479.22 µg/L	2.786	479.22 ppb	2.786	0.58%
Se	196.026†	1314.3	477 µg/L	3.1	477 ppb	3.1	0.65%
SiO2†		52384.6	5099.6 µg/L	16.25	5099.6 ppb	16.25	0.32%
Si	251.611†	162702.6	2389.2 µg/L	5.32	2389.2 ppb	5.32	0.22%
Sn	189.927†	7671.8	479.87 µg/L	3.150	479.87 ppb	3.150	0.66%
Sr	421.552†	232002.6	482.28 µg/L	5.394	482.28 ppb	5.394	1.12%
Ti	334.940†	512054.6	477.78 µg/L	0.622	477.78 ppb	0.622	0.13%
Tl	190.801†	3920.8	488.92 µg/L	3.950	488.92 ppb	3.950	0.81%
U	409.014†	7391.6	461.13 µg/L	8.265	461.13 ppb	8.265	1.79%
V	292.402†	97082.1	479.92 µg/L	0.679	479.92 ppb	0.679	0.14%
Zn	213.857†	84829.8	472.79 µg/L	1.636	472.79 ppb	1.636	0.35%

QC value within limits for Co 228.616 Recovery = 95.58%

QC value within limits for Cr 267.716 Recovery = 94.88%

QC value within limits for Cu 324.752 Recovery = 95.22%

QC value within limits for Fe 238.204 Radial Recovery = 96.57%

QC value within limits for K 766.490 Radial Recovery = 100.30%

QC value within limits for Mg 279.077 IEC Recovery = 99.73%

QC value within limits for Mn 257.610 Recovery = 95.91%

QC value within limits for Mo 202.031 Recovery = 95.77%

QC value within limits for Na 589.592 Radial Recovery = 96.52%

QC value within limits for Ni 231.604 Recovery = 95.06%

QC value within limits for P 214.914 Recovery = 95.41%

QC value within limits for Pb 220.353 Recovery = 96.43%

QC value within limits for S 181.975 Axial Recovery = 93.74%

QC value within limits for Sb 206.836 Recovery = 95.84%

QC value within limits for Se 196.026 Recovery = 95.45%

QC value within limits for SiO2 Recovery = 95.36%

QC value within limits for Si 251.611 Recovery = 95.57%

QC value within limits for Sn 189.927 Recovery = 95.97%

QC value within limits for Sr 421.552 Recovery = 96.46%

QC value within limits for Ti 334.940 Recovery = 95.56%

QC value within limits for Tl 190.801 Recovery = 97.78%

QC value within limits for U 409.014 Recovery = 92.23%

QC value within limits for V 292.402 Recovery = 95.98%

QC value within limits for Zn 213.857 Recovery = 94.56%

All analyte(s) passed QC.

Sequence No.: 170

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 1:32:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144650.2	144650.2	99.1 %		01:33:05
1	Al 396.153Radial†	55.6	119.3	22.113 µg/L	22.113 ppb	01:33:25
1	Ca 317.933Radial†	1021.9	470.4	26.200 µg/L	26.200 ppb	01:33:25
1	Fe 238.204 Radial†	306.2	160.8	9.9101 µg/L	9.9101 ppb	01:33:25
1	K 766.490 Radial†	1926.7	399.0	146.05 µg/L	146.05 ppb	01:33:05
1	Mg 279.077 IEC†	254.5	66.1	24.617 µg/L	24.617 ppb	01:33:25
1	Na 589.592 Radial†	1387.7	109.2	14.783 µg/L	14.783 ppb	01:33:05
1	Sr 421.552†	-207.2	-73.8	-0.1536 µg/L	-0.1536 ppb	01:33:05
1	Sc 361.383	1731773.4	1731773.4	100.79 %		01:34:13
1	Y 371.029	1034993.2	1034993.2	100.81 %		01:34:13
1	Ag 328.068†	4219.4	95.0	0.3480 µg/L	0.3480 ppb	01:34:15
1	As 188.979†	-14.9	5.6	1.6865 µg/L	1.6865 ppb	01:34:35
1	B 249.677†	3568.7	34.9	0.5127 µg/L	0.5127 ppb	01:34:15
1	Ba 233.527†	-137.0	-0.1	-0.0009 µg/L	-0.0009 ppb	01:34:35
1	Be 313.107†	-780.2	290.6	0.0800 µg/L	0.0800 ppb	01:34:15
1	Cd 226.502†	-91.2	27.8	0.1726 µg/L	0.1726 ppb	01:34:35
1	Co 228.616†	-160.4	31.2	0.3844 µg/L	0.3844 ppb	01:34:35
1	Cr 267.716†	211.8	31.6	0.2451 µg/L	0.2451 ppb	01:34:35
1	Cu 324.752†	2967.0	-28.5	-0.1059 µg/L	-0.1059 ppb	01:34:15
1	Mn 257.610†	310.1	70.4	0.0862 µg/L	0.0862 ppb	01:34:35
1	Mo 202.031†	-19.2	1.0	0.0313 µg/L	0.0313 ppb	01:34:35
1	Ni 231.604†	-38.5	38.4	0.4416 µg/L	0.4416 ppb	01:34:35
1	P 214.914†	-26.9	-8.7	-1.8628 µg/L	-1.8628 ppb	01:34:35
1	Pb 220.353†	65.3	-21.6	-1.2051 µg/L	-1.2051 ppb	01:34:35
1	S 181.975 Axial†	106.1	0.2	0.1331 µg/L	0.1331 ppb	01:34:35
1	Sb 206.836†	73.4	-8.0	-0.9578 µg/L	-0.9578 ppb	01:34:35
1	Se 196.026†	15.6	0.2	0.068 µg/L	0.068 ppb	01:34:35
1	SiO2†	1796.3	6.8	0.6595 µg/L	0.6595 ppb	01:34:35
1	Si 251.611†	840.5	-2.6	-0.0425 µg/L	-0.0425 ppb	01:34:15
1	Sn 189.927†	7.4	8.4	0.5243 µg/L	0.5243 ppb	01:34:35
1	Ti 334.940†	956.0	-4.0	-0.0063 µg/L	-0.0063 ppb	01:34:15
1	Tl 190.801†	-113.8	3.8	0.4619 µg/L	0.4619 ppb	01:34:35
1	U 409.014†	-221.8	49.8	2.8783 µg/L	2.8783 ppb	01:34:15
1	V 292.402†	291.0	-115.1	-0.5590 µg/L	-0.5590 ppb	01:34:15
1	Zn 213.857†	611.2	42.0	0.2323 µg/L	0.2323 ppb	01:34:35
2	Sc RADIAL	143480.2	143480.2	98.3 %		01:33:27
2	Al 396.153Radial†	35.4	99.2	18.400 µg/L	18.400 ppb	01:33:47
2	Ca 317.933Radial†	923.3	378.5	21.086 µg/L	21.086 ppb	01:33:47
2	Fe 238.204 Radial†	279.8	136.5	8.4133 µg/L	8.4133 ppb	01:33:47
2	K 766.490 Radial†	2033.7	523.6	191.70 µg/L	191.70 ppb	01:33:27
2	Mg 279.077 IEC†	230.6	43.8	16.325 µg/L	16.325 ppb	01:33:47
2	Na 589.592 Radial†	1388.8	121.8	16.463 µg/L	16.463 ppb	01:33:27
2	Sr 421.552†	-108.3	25.1	0.0520 µg/L	0.0520 ppb	01:33:27
2	Sc 361.383	1749816.9	1749816.9	101.84 %		01:34:37
2	Y 371.029	1045017.7	1045017.7	101.79 %		01:34:37
2	Ag 328.068†	4151.7	-14.6	-0.0529 µg/L	-0.0529 ppb	01:34:40
2	As 188.979†	-13.8	6.8	2.0524 µg/L	2.0524 ppb	01:35:00
2	B 249.677†	3626.5	55.1	0.8113 µg/L	0.8113 ppb	01:34:40
2	Ba 233.527†	-104.2	33.5	0.1349 µg/L	0.1349 ppb	01:35:00
2	Be 313.107†	-899.2	181.7	0.0507 µg/L	0.0507 ppb	01:34:40
2	Cd 226.502†	-104.7	15.4	0.0953 µg/L	0.0953 ppb	01:35:00
2	Co 228.616†	-169.5	23.9	0.2945 µg/L	0.2945 ppb	01:35:00
2	Cr 267.716†	201.1	18.9	0.1446 µg/L	0.1446 ppb	01:35:00
2	Cu 324.752†	2829.6	-193.8	-0.7479 µg/L	-0.7479 ppb	01:34:40
2	Mn 257.610†	297.6	54.9	0.0673 µg/L	0.0673 ppb	01:35:00
2	Mo 202.031†	-24.5	-4.0	-0.1177 µg/L	-0.1177 ppb	01:35:00
2	Ni 231.604†	-90.3	-12.1	-0.1396 µg/L	-0.1396 ppb	01:35:00
2	P 214.914†	-13.7	4.5	0.9779 µg/L	0.9779 ppb	01:35:00
2	Pb 220.353†	69.0	-18.6	-1.0426 µg/L	-1.0426 ppb	01:35:00

2	S 181.975 Axial†	90.5	-16.2	-12.038 µg/L	-12.038 ppb	01:35:00
2	Sb 206.836†	72.9	-9.3	-1.1038 µg/L	-1.1038 ppb	01:35:00
2	Se 196.026†	26.1	10.3	3.74 µg/L	3.74 ppb	01:35:00
2	SiO2†	1690.9	-115.0	-11.246 µg/L	-11.246 ppb	01:35:00
2	Si 251.611†	970.1	116.0	1.7095 µg/L	1.7095 ppb	01:34:40
2	Sn 189.927†	4.5	5.5	0.3461 µg/L	0.3461 ppb	01:35:00
2	Ti 334.940†	1033.1	61.9	0.0554 µg/L	0.0554 ppb	01:34:40
2	Tl 190.801†	-109.0	9.6	1.1795 µg/L	1.1795 ppb	01:35:00
2	U 409.014†	-207.0	66.6	3.8786 µg/L	3.8786 ppb	01:34:40
2	V 292.402†	361.7	-48.6	-0.2362 µg/L	-0.2362 ppb	01:34:40
2	Zn 213.857†	609.4	34.0	0.1917 µg/L	0.1917 ppb	01:35:00
3	Sc RADIAL	144046.9	144046.9	98.7 %		01:33:49
3	Al 396.153Radial†	17.0	80.4	14.927 µg/L	14.927 ppb	01:34:10
3	Ca 317.933Radial†	885.2	336.2	18.727 µg/L	18.727 ppb	01:34:10
3	Fe 238.204 Radial†	250.9	106.1	6.5367 µg/L	6.5367 ppb	01:34:10
3	K 766.490 Radial†	1975.4	456.4	167.09 µg/L	167.09 ppb	01:33:49
3	Mg 279.077 IEC†	216.2	28.3	10.536 µg/L	10.536 ppb	01:34:10
3	Na 589.592 Radial†	1284.3	10.3	1.2517 µg/L	1.2517 ppb	01:33:49
3	Sr 421.552†	-129.3	4.3	0.0087 µg/L	0.0087 ppb	01:33:49
3	Sc 361.383	1747720.5	1747720.5	101.72 %		01:35:02
3	Y 371.029	1042519.0	1042519.0	101.54 %		01:35:02
3	Ag 328.068†	4083.2	-77.1	-0.2760 µg/L	-0.2760 ppb	01:35:04
3	As 188.979†	-23.1	-2.4	-0.7100 µg/L	-0.7100 ppb	01:35:24
3	B 249.677†	3447.3	-116.8	-1.7241 µg/L	-1.7241 ppb	01:35:04
3	Ba 233.527†	-100.7	36.9	0.1482 µg/L	0.1482 ppb	01:35:24
3	Be 313.107†	-1007.0	74.7	0.0236 µg/L	0.0236 ppb	01:35:04
3	Cd 226.502†	-108.8	11.3	0.0697 µg/L	0.0697 ppb	01:35:24
3	Co 228.616†	-158.9	34.1	0.4206 µg/L	0.4206 ppb	01:35:24
3	Cr 267.716†	198.6	16.7	0.1225 µg/L	0.1225 ppb	01:35:24
3	Cu 324.752†	2971.0	-51.4	-0.1894 µg/L	-0.1894 ppb	01:35:04
3	Mn 257.610†	275.0	33.1	0.0405 µg/L	0.0405 ppb	01:35:24
3	Mo 202.031†	-29.3	-8.8	-0.2571 µg/L	-0.2571 ppb	01:35:24
3	Ni 231.604†	-102.1	-23.9	-0.2749 µg/L	-0.2749 ppb	01:35:24
3	P 214.914†	-27.0	-8.6	-1.8213 µg/L	-1.8213 ppb	01:35:24
3	Pb 220.353†	72.1	-15.5	-0.8740 µg/L	-0.8740 ppb	01:35:24
3	S 181.975 Axial†	95.4	-11.3	-8.3648 µg/L	-8.3648 ppb	01:35:24
3	Sb 206.836†	83.3	1.1	0.1275 µg/L	0.1275 ppb	01:35:24
3	Se 196.026†	15.1	-0.5	-0.158 µg/L	-0.158 ppb	01:35:24
3	SiO2†	1778.9	-26.5	-2.5941 µg/L	-2.5941 ppb	01:35:24
3	Si 251.611†	839.8	-10.9	-0.1611 µg/L	-0.1611 ppb	01:35:04
3	Sn 189.927†	6.7	7.7	0.4774 µg/L	0.4774 ppb	01:35:24
3	Ti 334.940†	921.8	-46.3	-0.0480 µg/L	-0.0480 ppb	01:35:04
3	Tl 190.801†	-117.9	0.8	0.0949 µg/L	0.0949 ppb	01:35:24
3	U 409.014†	-88.3	183.1	10.689 µg/L	10.689 ppb	01:35:04
3	V 292.402†	353.6	-56.1	-0.2694 µg/L	-0.2694 ppb	01:35:04
3	Zn 213.857†	615.1	40.3	0.2274 µg/L	0.2274 ppb	01:35:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1743103.6	101.45 %		0.574			0.57%
Sc RADIAL	144059.1	98.7 %		0.40			0.41%
Y 371.029	1040843.3	101.38 %		0.508			0.50%
Ag 328.068†	1.1	0.0064 µg/L		0.31617	0.0064 ppb	0.31617	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	99.6	18.480 µg/L		3.5934	18.480 ppb	3.5934	19.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	3.3	1.0096 µg/L		1.50042	1.0096 ppb	1.50042	148.61%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-9.0	-0.1334 µg/L		1.38566	-0.1334 ppb	1.38566	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	23.4	0.0941 µg/L		0.08251	0.0941 ppb	0.08251	87.72%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	182.3	0.0514 µg/L		0.02823	0.0514 ppb	0.02823	54.91%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	395.0	22.004 µg/L		3.8206	22.004 ppb	3.8206	17.36%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	18.2	0.1125 µg/L		0.05357	0.1125 ppb	0.05357	47.61%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	29.7	0.3665 µg/L		0.06493	0.3665 ppb	0.06493	17.72%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	22.4	0.1708 µg/L	0.06537	0.1708 ppb	0.06537	38.28%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-91.2	-0.3477 µg/L	0.34907	-0.3477 ppb	0.34907	100.39%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	134.5	8.2867 µg/L	1.69027	8.2867 ppb	1.69027	20.40%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	459.7	168.28 µg/L	22.848	168.28 ppb	22.848	13.58%	
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	46.1	17.159 µg/L	7.0777	17.159 ppb	7.0777	41.25%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	52.8	0.0647 µg/L	0.02293	0.0647 ppb	0.02293	35.46%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.9	-0.1145 µg/L	0.14420	-0.1145 ppb	0.14420	125.93%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	80.4	10.833 µg/L	8.3397	10.833 ppb	8.3397	76.99%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	0.8	0.0091 µg/L	0.38069	0.0091 ppb	0.38069	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-4.3	-0.9020 µg/L	1.62822	-0.9020 ppb	1.62822	180.50%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-18.6	-1.0406 µg/L	0.16556	-1.0406 ppb	0.16556	15.91%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-9.1	-6.7567 µg/L	6.24300	-6.7567 ppb	6.24300	92.40%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-5.4	-0.6447 µg/L	0.67274	-0.6447 ppb	0.67274	104.35%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.3	1.22 µg/L	2.190	1.22 ppb	2.190	179.88%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-44.9	-4.3935 µg/L	6.15338	-4.3935 ppb	6.15338	140.06%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	34.1	0.5020 µg/L	1.04746	0.5020 ppb	1.04746	208.67%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	7.2	0.4493 µg/L	0.09239	0.4493 ppb	0.09239	20.57%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-14.8	-0.0310 µg/L	0.10839	-0.0310 ppb	0.10839	350.04%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	3.9	0.0003 µg/L	0.05203	0.0003 ppb	0.05203	>999.9%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	4.7	0.5788 µg/L	0.55162	0.5788 ppb	0.55162	95.31%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	99.8	5.8153 µg/L	4.25029	5.8153 ppb	4.25029	73.09%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-73.3	-0.3549 µg/L	0.17756	-0.3549 ppb	0.17756	50.04%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	38.8	0.2171 µg/L	0.02218	0.2171 ppb	0.02218	10.22%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 178

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 1:53:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144889.1	144889.1	99.3 %		01:54:01
1	Al 396.153Radial†	26444.1	26697.2	4927.6 µg/L	4927.6 ppb	01:54:01
1	Ca 317.933Radial†	86941.0	87004.9	4846.5 µg/L	4846.5 ppb	01:54:01
1	Fe 238.204 Radial†	77758.3	78168.7	4817.8 µg/L	4817.8 ppb	01:54:01
1	K 766.490 Radial†	14897.6	13459.8	4923.9 µg/L	4923.9 ppb	01:54:01
1	Mg 279.077 IEC†	13366.3	13271.6	4952.3 µg/L	4952.3 ppb	01:54:01
1	Na 589.592 Radial†	71709.3	70933.5	9686.0 µg/L	9686.0 ppb	01:54:01
1	Sr 421.552†	230601.0	232392.6	483.09 µg/L	483.09 ppb	01:53:59
1	Sc 361.383	1732100.0	1732100.0	100.81 %		01:54:28
1	Y 371.029	1023099.6	1023099.6	99.650 %		01:54:28
1	Ag 328.068†	133137.6	127979.1	479.85 µg/L	479.85 ppb	01:54:28
1	As 188.979†	1612.3	1619.7	496.76 µg/L	496.76 ppb	01:54:48
1	B 249.677†	35874.9	32081.5	471.48 µg/L	471.48 ppb	01:54:28
1	Ba 233.527†	119611.7	118788.9	479.07 µg/L	479.07 ppb	01:54:28
1	Be 313.107†	1788545.3	1775275.2	483.50 µg/L	483.50 ppb	01:54:28
1	Cd 226.502†	76870.4	76372.5	476.75 µg/L	476.75 ppb	01:54:28
1	Co 228.616†	38991.6	38869.4	479.84 µg/L	479.84 ppb	01:54:28
1	Cr 267.716†	61212.0	60542.8	474.05 µg/L	474.05 ppb	01:54:28
1	Cu 324.752†	126385.1	122399.9	477.14 µg/L	477.14 ppb	01:54:28
1	Mn 257.610†	391844.9	388467.0	480.44 µg/L	480.44 ppb	01:54:28
1	Mo 202.031†	16253.3	16143.1	474.86 µg/L	474.86 ppb	01:54:48
1	Ni 231.604†	41701.3	41443.5	477.19 µg/L	477.19 ppb	01:54:28
1	P 214.914†	11179.5	11107.9	2367.6 µg/L	2367.6 ppb	01:54:48
1	Pb 220.353†	8738.5	8582.1	480.59 µg/L	480.59 ppb	01:54:48
1	S 181.975 Axial†	1413.8	1297.4	967.45 µg/L	967.45 ppb	01:54:48
1	Sb 206.836†	4129.4	4015.5	478.42 µg/L	478.42 ppb	01:54:48
1	Se 196.026†	1321.4	1295.6	470 µg/L	470 ppb	01:54:48
1	SiO2†	54758.0	52543.7	5115.3 µg/L	5115.3 ppb	01:54:28
1	Si 251.611†	165491.5	163328.5	2398.5 µg/L	2398.5 ppb	01:54:28
1	Sn 189.927†	7680.8	7620.3	476.66 µg/L	476.66 ppb	01:54:48
1	Ti 334.940†	517868.9	512765.7	478.45 µg/L	478.45 ppb	01:54:28
1	Tl 190.801†	3805.2	3891.4	485.31 µg/L	485.31 ppb	01:54:48
1	U 409.014†	7130.8	7343.6	458.38 µg/L	458.38 ppb	01:54:28
1	V 292.402†	98453.8	97260.9	480.75 µg/L	480.75 ppb	01:54:28
1	Zn 213.857†	86275.4	85019.5	473.84 µg/L	473.84 ppb	01:54:28
2	Sc RADIAL	144090.9	144090.9	98.7 %		01:54:05
2	Al 396.153Radial†	26312.9	26711.9	4930.1 µg/L	4930.1 ppb	01:54:05
2	Ca 317.933Radial†	86199.8	86739.3	4831.7 µg/L	4831.7 ppb	01:54:05
2	Fe 238.204 Radial†	77277.1	78115.2	4814.5 µg/L	4814.5 ppb	01:54:05
2	K 766.490 Radial†	14795.3	13439.4	4916.4 µg/L	4916.4 ppb	01:54:05
2	Mg 279.077 IEC†	13254.1	13232.5	4937.8 µg/L	4937.8 ppb	01:54:05
2	Na 589.592 Radial†	71224.5	70842.7	9673.6 µg/L	9673.6 ppb	01:54:05
2	Sr 421.552†	226568.0	229594.7	477.28 µg/L	477.28 ppb	01:54:03
2	Sc 361.383	1743024.7	1743024.7	101.44 %		01:54:51
2	Y 371.029	1028485.3	1028485.3	100.17 %		01:54:51
2	Ag 328.068†	133695.0	127700.8	478.84 µg/L	478.84 ppb	01:54:51
2	As 188.979†	1633.2	1630.3	499.98 µg/L	499.98 ppb	01:55:11
2	B 249.677†	35991.2	31973.1	469.88 µg/L	469.88 ppb	01:54:51
2	Ba 233.527†	120399.9	118822.2	479.21 µg/L	479.21 ppb	01:54:51
2	Be 313.107†	1803686.2	1779080.5	484.55 µg/L	484.55 ppb	01:54:51
2	Cd 226.502†	77645.9	76659.1	478.54 µg/L	478.54 ppb	01:54:51
2	Co 228.616†	39225.9	38858.0	479.70 µg/L	479.70 ppb	01:54:51
2	Cr 267.716†	61891.8	60832.4	476.31 µg/L	476.31 ppb	01:54:51
2	Cu 324.752†	127393.6	122608.3	477.96 µg/L	477.96 ppb	01:54:51
2	Mn 257.610†	395069.2	389209.2	481.36 µg/L	481.36 ppb	01:54:51
2	Mo 202.031†	16503.6	16288.8	479.15 µg/L	479.15 ppb	01:55:11
2	Ni 231.604†	41973.3	41452.5	477.30 µg/L	477.30 ppb	01:54:51
2	P 214.914†	11383.8	11239.8	2395.8 µg/L	2395.8 ppb	01:55:11
2	Pb 220.353†	8825.3	8613.3	482.34 µg/L	482.34 ppb	01:55:11

2	S 181.975 Axial†	1446.2	1320.5	984.64 µg/L	984.64 ppb	01:55:11
2	Sb 206.836†	4171.5	4031.4	480.35 µg/L	480.35 ppb	01:55:11
2	Se 196.026†	1358.8	1324.1	481 µg/L	481 ppb	01:55:11
2	SiO2†	55126.8	52566.8	5117.4 µg/L	5117.4 ppb	01:54:51
2	Si 251.611†	166831.3	163620.3	2402.7 µg/L	2402.7 ppb	01:54:51
2	Sn 189.927†	7808.6	7698.6	481.54 µg/L	481.54 ppb	01:55:11
2	Ti 334.940†	521492.7	513118.1	478.77 µg/L	478.77 ppb	01:54:51
2	Tl 190.801†	3856.9	3918.7	488.67 µg/L	488.67 ppb	01:55:11
2	U 409.014†	7461.6	7625.3	474.87 µg/L	474.87 ppb	01:54:51
2	V 292.402†	99126.3	97311.7	481.07 µg/L	481.07 ppb	01:54:51
2	Zn 213.857†	86941.8	85140.0	474.52 µg/L	474.52 ppb	01:54:51
3	Sc RADIAL	143189.9	143189.9	98.1 %		01:54:09
3	Al 396.153Radial†	26288.8	26855.0	4956.7 µg/L	4956.7 ppb	01:54:09
3	Ca 317.933Radial†	85899.6	86982.7	4845.3 µg/L	4845.3 ppb	01:54:09
3	Fe 238.204 Radial†	76674.9	77993.9	4807.1 µg/L	4807.1 ppb	01:54:09
3	K 766.490 Radial†	14694.1	13430.5	4913.1 µg/L	4913.1 ppb	01:54:09
3	Mg 279.077 IEC†	13109.4	13169.5	4914.3 µg/L	4914.3 ppb	01:54:09
3	Na 589.592 Radial†	71187.8	71259.1	9730.5 µg/L	9730.5 ppb	01:54:09
3	Sr 421.552†	229587.3	234115.6	486.67 µg/L	486.67 ppb	01:54:07
3	Sc 361.383	1732756.5	1732756.5	100.85 %		01:55:14
3	Y 371.029	1023226.1	1023226.1	99.663 %		01:55:14
3	Ag 328.068†	132868.9	127662.6	478.70 µg/L	478.70 ppb	01:55:14
3	As 188.979†	1613.1	1619.9	496.83 µg/L	496.83 ppb	01:55:34
3	B 249.677†	36177.8	32368.3	475.71 µg/L	475.71 ppb	01:55:14
3	Ba 233.527†	119703.3	118834.8	479.26 µg/L	479.26 ppb	01:55:14
3	Be 313.107†	1791615.1	1777647.1	484.16 µg/L	484.16 ppb	01:55:14
3	Cd 226.502†	76911.2	76384.1	476.82 µg/L	476.82 ppb	01:55:14
3	Co 228.616†	38990.6	38853.8	479.65 µg/L	479.65 ppb	01:55:14
3	Cr 267.716†	61496.0	60801.5	476.06 µg/L	476.06 ppb	01:55:14
3	Cu 324.752†	126455.9	122422.6	477.24 µg/L	477.24 ppb	01:55:14
3	Mn 257.610†	392850.6	389317.1	481.49 µg/L	481.49 ppb	01:55:14
3	Mo 202.031†	16363.5	16246.3	477.90 µg/L	477.90 ppb	01:55:34
3	Ni 231.604†	41768.3	41494.4	477.78 µg/L	477.78 ppb	01:55:14
3	P 214.914†	11227.0	11150.7	2376.7 µg/L	2376.7 ppb	01:55:34
3	Pb 220.353†	8769.4	8609.4	482.12 µg/L	482.12 ppb	01:55:34
3	S 181.975 Axial†	1409.8	1292.9	964.13 µg/L	964.13 ppb	01:55:34
3	Sb 206.836†	4149.1	4033.4	480.58 µg/L	480.58 ppb	01:55:34
3	Se 196.026†	1348.9	1322.3	480 µg/L	480 ppb	01:55:34
3	SiO2†	54793.8	52558.7	5116.7 µg/L	5116.7 ppb	01:55:14
3	Si 251.611†	165958.9	163729.8	2404.3 µg/L	2404.3 ppb	01:55:14
3	Sn 189.927†	7740.4	7676.6	480.17 µg/L	480.17 ppb	01:55:34
3	Ti 334.940†	518815.4	513509.7	479.14 µg/L	479.14 ppb	01:55:14
3	Tl 190.801†	3816.6	3901.3	486.54 µg/L	486.54 ppb	01:55:34
3	U 409.014†	7409.2	7616.9	474.38 µg/L	474.38 ppb	01:55:14
3	V 292.402†	98541.2	97310.6	481.05 µg/L	481.05 ppb	01:55:14
3	Zn 213.857†	86396.5	85107.2	474.34 µg/L	474.34 ppb	01:55:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735960.4	101.03 %	0.357			0.35%
Sc RADIAL	144056.6	98.7 %	0.58			0.59%
Y 371.029	1024937.0	99.829 %	0.2994			0.30%
Ag 328.068†	127780.9	479.13 µg/L	0.627	479.13 ppb	0.627	0.13%
QC value within limits for Ag 328.068 Recovery = 95.83%						
Al 396.153Radial†	26754.7	4938.1 µg/L	16.14	4938.1 ppb	16.14	0.33%
QC value within limits for Al 396.153Radial Recovery = 98.76%						
As 188.979†	1623.3	497.86 µg/L	1.841	497.86 ppb	1.841	0.37%
QC value within limits for As 188.979 Recovery = 99.57%						
B 249.677†	32141.0	472.36 µg/L	3.012	472.36 ppb	3.012	0.64%
QC value within limits for B 249.677 Recovery = 94.47%						
Ba 233.527†	118815.3	479.18 µg/L	0.096	479.18 ppb	0.096	0.02%
QC value within limits for Ba 233.527 Recovery = 95.84%						
Be 313.107†	1777334.3	484.07 µg/L	0.526	484.07 ppb	0.526	0.11%
QC value within limits for Be 313.107 Recovery = 96.81%						
Ca 317.933Radial†	86909.0	4841.2 µg/L	8.21	4841.2 ppb	8.21	0.17%
QC value within limits for Ca 317.933Radial Recovery = 96.82%						
Cd 226.502†	76471.9	477.37 µg/L	1.013	477.37 ppb	1.013	0.21%
QC value within limits for Cd 226.502 Recovery = 95.47%						
Co 228.616†	38860.4	479.73 µg/L	0.099	479.73 ppb	0.099	0.02%

QC value within limits for Co 228.616 Recovery = 95.95%							
Cr 267.716†	60725.6	475.47 µg/L	1.238	475.47 ppb	1.238	0.26%	
QC value within limits for Cr 267.716 Recovery = 95.09%							
Cu 324.752†	122476.9	477.45 µg/L	0.449	477.45 ppb	0.449	0.09%	
QC value within limits for Cu 324.752 Recovery = 95.49%							
Fe 238.204 Radial†	78092.6	4813.1 µg/L	5.52	4813.1 ppb	5.52	0.11%	
QC value within limits for Fe 238.204 Radial Recovery = 96.26%							
K 766.490 Radial†	13443.2	4917.8 µg/L	5.50	4917.8 ppb	5.50	0.11%	
QC value within limits for K 766.490 Radial Recovery = 98.36%							
Mg 279.077 IEC†	13224.5	4934.8 µg/L	19.15	4934.8 ppb	19.15	0.39%	
QC value within limits for Mg 279.077 IEC Recovery = 98.70%							
Mn 257.610†	388997.8	481.10 µg/L	0.573	481.10 ppb	0.573	0.12%	
QC value within limits for Mn 257.610 Recovery = 96.22%							
Mo 202.031†	16226.1	477.30 µg/L	2.201	477.30 ppb	2.201	0.46%	
QC value within limits for Mo 202.031 Recovery = 95.46%							
Na 589.592 Radial†	71011.8	9696.7 µg/L	29.92	9696.7 ppb	29.92	0.31%	
QC value within limits for Na 589.592 Radial Recovery = 96.97%							
Ni 231.604†	41463.5	477.42 µg/L	0.312	477.42 ppb	0.312	0.07%	
QC value within limits for Ni 231.604 Recovery = 95.48%							
P 214.914†	11166.1	2380.0 µg/L	14.38	2380.0 ppb	14.38	0.60%	
QC value within limits for P 214.914 Recovery = 95.20%							
Pb 220.353†	8601.6	481.68 µg/L	0.950	481.68 ppb	0.950	0.20%	
QC value within limits for Pb 220.353 Recovery = 96.34%							
S 181.975 Axial†	1303.6	972.07 µg/L	11.009	972.07 ppb	11.009	1.13%	
QC value within limits for S 181.975 Axial Recovery = 97.21%							
Sb 206.836†	4026.7	479.79 µg/L	1.184	479.79 ppb	1.184	0.25%	
QC value within limits for Sb 206.836 Recovery = 95.96%							
Se 196.026†	1314.0	477 µg/L	5.8	477 ppb	5.8	1.21%	
QC value within limits for Se 196.026 Recovery = 95.43%							
SiO2†	52556.4	5116.5 µg/L	1.05	5116.5 ppb	1.05	0.02%	
QC value within limits for SiO2 Recovery = 95.68%							
Si 251.611†	163559.6	2401.8 µg/L	3.02	2401.8 ppb	3.02	0.13%	
QC value within limits for Si 251.611 Recovery = 96.07%							
Sn 189.927†	7665.2	479.46 µg/L	2.517	479.46 ppb	2.517	0.53%	
QC value within limits for Sn 189.927 Recovery = 95.89%							
Sr 421.552†	232034.3	482.35 µg/L	4.743	482.35 ppb	4.743	0.98%	
QC value within limits for Sr 421.552 Recovery = 96.47%							
Ti 334.940†	513131.2	478.79 µg/L	0.346	478.79 ppb	0.346	0.07%	
QC value within limits for Ti 334.940 Recovery = 95.76%							
Tl 190.801†	3903.8	486.84 µg/L	1.702	486.84 ppb	1.702	0.35%	
QC value within limits for Tl 190.801 Recovery = 97.37%							
U 409.014†	7528.6	469.21 µg/L	9.385	469.21 ppb	9.385	2.00%	
QC value within limits for U 409.014 Recovery = 93.84%							
V 292.402†	97294.4	480.96 µg/L	0.176	480.96 ppb	0.176	0.04%	
QC value within limits for V 292.402 Recovery = 96.19%							
Zn 213.857†	85088.9	474.23 µg/L	0.349	474.23 ppb	0.349	0.07%	
QC value within limits for Zn 213.857 Recovery = 94.85%							

All analyte(s) passed QC.

Sequence No.: 179

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 1:55:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145551.6	145551.6	99.7 %		01:56:11
1	Al 396.153Radial†	-65.8	-2.8	-0.5143 µg/L	-0.5143 ppb	01:56:31
1	Ca 317.933Radial†	666.6	107.8	6.0037 µg/L	6.0037 ppb	01:56:31
1	Fe 238.204 Radial†	142.8	-5.0	-0.3060 µg/L	-0.3060 ppb	01:56:31
1	K 766.490 Radial†	1839.3	299.3	109.59 µg/L	109.59 ppb	01:56:11
1	Mg 279.077 IEC†	181.2	-9.0	-3.3548 µg/L	-3.3548 ppb	01:56:31
1	Na 589.592 Radial†	1588.0	301.3	41.070 µg/L	41.070 ppb	01:56:11
1	Sr 421.552†	-333.1	-198.7	-0.4132 µg/L	-0.4132 ppb	01:56:11
1	Sc 361.383	1751779.3	1751779.3	101.95 %		01:57:33
1	Y 371.029	1045514.8	1045514.8	101.83 %		01:57:33
1	Ag 328.068†	4128.8	-41.7	-0.1593 µg/L	-0.1593 ppb	01:57:35
1	As 188.979†	-12.8	7.8	2.3692 µg/L	2.3692 ppb	01:57:55
1	B 249.677†	3541.5	-32.3	-0.4767 µg/L	-0.4767 ppb	01:57:35
1	Ba 233.527†	-108.9	29.0	0.1170 µg/L	0.1170 ppb	01:57:55
1	Be 313.107†	-1073.9	11.4	0.0014 µg/L	0.0014 ppb	01:57:35
1	Cd 226.502†	-112.0	8.4	0.0522 µg/L	0.0522 ppb	01:57:55
1	Co 228.616†	-179.5	14.2	0.1753 µg/L	0.1753 ppb	01:57:55
1	Cr 267.716†	181.7	-0.3	0.0020 µg/L	0.0020 ppb	01:57:55
1	Cu 324.752†	3003.9	-25.8	-0.1050 µg/L	-0.1050 ppb	01:57:35
1	Mn 257.610†	273.3	30.8	0.0383 µg/L	0.0383 ppb	01:57:55
1	Mo 202.031†	-22.7	-2.2	-0.0633 µg/L	-0.0633 ppb	01:57:55
1	Ni 231.604†	-96.5	-18.1	-0.2088 µg/L	-0.2088 ppb	01:57:55
1	P 214.914†	-18.3	0.0	0.0166 µg/L	0.0166 ppb	01:57:55
1	Pb 220.353†	65.4	-22.2	-1.2353 µg/L	-1.2353 ppb	01:57:55
1	S 181.975 Axial†	114.5	7.3	5.3871 µg/L	5.3871 ppb	01:57:55
1	Sb 206.836†	62.6	-19.4	-2.3048 µg/L	-2.3048 ppb	01:57:55
1	Se 196.026†	0.8	-14.5	-5.25 µg/L	-5.25 ppb	01:57:55
1	SiO2†	1800.8	-9.1	-0.8957 µg/L	-0.8957 ppb	01:57:35
1	Si 251.611†	889.3	35.7	0.5242 µg/L	0.5242 ppb	01:57:35
1	Sn 189.927†	7.5	8.5	0.5302 µg/L	0.5302 ppb	01:57:55
1	Ti 334.940†	969.2	-1.9	0.0010 µg/L	0.0010 ppb	01:57:35
1	Tl 190.801†	-112.3	6.6	0.8079 µg/L	0.8079 ppb	01:57:55
1	U 409.014†	-372.7	-95.6	-5.5813 µg/L	-5.5813 ppb	01:57:35
1	V 292.402†	449.1	36.7	0.1747 µg/L	0.1747 ppb	01:57:35
1	Zn 213.857†	603.1	27.2	0.1540 µg/L	0.1540 ppb	01:57:55
2	Sc RADIAL	142463.2	142463.2	97.6 %		01:56:33
2	Al 396.153Radial†	-76.0	-14.7	-2.7386 µg/L	-2.7386 ppb	01:56:53
2	Ca 317.933Radial†	631.4	86.2	4.8021 µg/L	4.8021 ppb	01:56:53
2	Fe 238.204 Radial†	165.0	20.9	1.2889 µg/L	1.2889 ppb	01:56:53
2	K 766.490 Radial†	1754.3	252.2	92.343 µg/L	92.343 ppb	01:56:33
2	Mg 279.077 IEC†	178.3	-8.0	-2.9828 µg/L	-2.9828 ppb	01:56:53
2	Na 589.592 Radial†	1488.6	234.0	31.890 µg/L	31.890 ppb	01:56:33
2	Sr 421.552†	-267.3	-138.5	-0.2880 µg/L	-0.2880 ppb	01:56:33
2	Sc 361.383	1744511.1	1744511.1	101.53 %		01:57:57
2	Y 371.029	1040880.2	1040880.2	101.38 %		01:57:57
2	Ag 328.068†	4095.8	-57.3	-0.2333 µg/L	-0.2333 ppb	01:58:00
2	As 188.979†	-19.9	0.8	0.2405 µg/L	0.2405 ppb	01:58:20
2	B 249.677†	3689.6	128.1	1.8892 µg/L	1.8892 ppb	01:58:00
2	Ba 233.527†	-127.7	10.1	0.0404 µg/L	0.0404 ppb	01:58:20
2	Be 313.107†	-779.7	296.7	0.0769 µg/L	0.0769 ppb	01:58:00
2	Cd 226.502†	-116.8	3.2	0.0196 µg/L	0.0196 ppb	01:58:20
2	Co 228.616†	-181.5	11.6	0.1430 µg/L	0.1430 ppb	01:58:20
2	Cr 267.716†	210.9	29.2	0.2383 µg/L	0.2383 ppb	01:58:20
2	Cu 324.752†	3046.1	27.9	0.0982 µg/L	0.0982 ppb	01:58:00
2	Mn 257.610†	284.4	42.8	0.0531 µg/L	0.0531 ppb	01:58:20
2	Mo 202.031†	-4.2	15.9	0.4681 µg/L	0.4681 ppb	01:58:20
2	Ni 231.604†	-89.6	-11.8	-0.1354 µg/L	-0.1354 ppb	01:58:20
2	P 214.914†	-29.1	-10.7	-2.2834 µg/L	-2.2834 ppb	01:58:20
2	Pb 220.353†	83.5	-4.1	-0.2188 µg/L	-0.2188 ppb	01:58:20

2	S 181.975 Axial†	133.9	26.8	19.886 µg/L	19.886 ppb	01:58:20
2	Sb 206.836†	67.1	-14.7	-1.7443 µg/L	-1.7443 ppb	01:58:20
2	Se 196.026†	24.1	8.4	3.04 µg/L	3.04 ppb	01:58:20
2	SiO2†	1798.4	-4.0	-0.4169 µg/L	-0.4169 ppb	01:58:00
2	Si 251.611†	966.5	115.4	1.6906 µg/L	1.6906 ppb	01:58:00
2	Sn 189.927†	9.5	10.5	0.6536 µg/L	0.6536 ppb	01:58:20
2	Ti 334.940†	894.2	-71.8	-0.0616 µg/L	-0.0616 ppb	01:58:00
2	Tl 190.801†	-110.7	7.6	0.9340 µg/L	0.9340 ppb	01:58:20
2	U 409.014†	-495.6	-218.2	-12.786 µg/L	-12.786 ppb	01:58:00
2	V 292.402†	320.0	-88.6	-0.4349 µg/L	-0.4349 ppb	01:58:00
2	Zn 213.857†	606.1	32.5	0.1834 µg/L	0.1834 ppb	01:58:20
3	Sc RADIAL	143784.8	143784.8	98.5 %		01:56:55
3	Al 396.153Radial†	-72.4	-10.2	-1.8918 µg/L	-1.8918 ppb	01:57:15
3	Ca 317.933Radial†	626.3	75.1	4.1820 µg/L	4.1820 ppb	01:57:15
3	Fe 238.204 Radial†	157.5	11.8	0.7268 µg/L	0.7268 ppb	01:57:15
3	K 766.490 Radial†	1711.0	191.8	70.214 µg/L	70.214 ppb	01:56:55
3	Mg 279.077 IEC†	214.1	26.6	9.9191 µg/L	9.9191 ppb	01:57:15
3	Na 589.592 Radial†	1356.1	85.6	11.626 µg/L	11.626 ppb	01:56:55
3	Sr 421.552†	-269.5	-138.2	-0.2874 µg/L	-0.2874 ppb	01:56:55
3	Sc 361.383	1767911.3	1767911.3	102.89 %		01:58:22
3	Y 371.029	1054011.1	1054011.1	102.66 %		01:58:22
3	Ag 328.068†	4196.4	-13.0	-0.0637 µg/L	-0.0637 ppb	01:58:24
3	As 188.979†	-5.7	14.8	4.4830 µg/L	4.4830 ppb	01:58:44
3	B 249.677†	3663.7	54.9	0.8087 µg/L	0.8087 ppb	01:58:24
3	Ba 233.527†	-114.6	24.5	0.0982 µg/L	0.0982 ppb	01:58:44
3	Be 313.107†	-1093.4	2.1	-0.0012 µg/L	-0.0012 ppb	01:58:24
3	Cd 226.502†	-92.8	28.0	0.1751 µg/L	0.1751 ppb	01:58:44
3	Co 228.616†	-185.7	9.8	0.1208 µg/L	0.1208 ppb	01:58:44
3	Cr 267.716†	201.6	17.3	0.1401 µg/L	0.1401 ppb	01:58:44
3	Cu 324.752†	2911.8	-142.3	-0.5572 µg/L	-0.5572 ppb	01:58:24
3	Mn 257.610†	263.8	19.2	0.0233 µg/L	0.0233 ppb	01:58:44
3	Mo 202.031†	-26.6	-5.8	-0.1698 µg/L	-0.1698 ppb	01:58:44
3	Ni 231.604†	-69.8	8.7	0.0998 µg/L	0.0998 ppb	01:58:44
3	P 214.914†	-16.2	2.2	0.4867 µg/L	0.4867 ppb	01:58:44
3	Pb 220.353†	83.9	-4.8	-0.2669 µg/L	-0.2669 ppb	01:58:44
3	S 181.975 Axial†	120.1	11.7	8.6560 µg/L	8.6560 ppb	01:58:44
3	Sb 206.836†	85.7	2.5	0.2913 µg/L	0.2913 ppb	01:58:44
3	Se 196.026†	9.9	-5.6	-2.04 µg/L	-2.04 ppb	01:58:44
3	SiO2†	1848.3	21.0	2.0528 µg/L	2.0528 ppb	01:58:24
3	Si 251.611†	874.0	12.9	0.1899 µg/L	0.1899 ppb	01:58:24
3	Sn 189.927†	4.6	5.5	0.3453 µg/L	0.3453 ppb	01:58:44
3	Ti 334.940†	814.2	-161.2	-0.1490 µg/L	-0.1490 ppb	01:58:24
3	Tl 190.801†	-128.8	-8.5	-1.0474 µg/L	-1.0474 ppb	01:58:44
3	U 409.014†	-381.6	-101.0	-5.9442 µg/L	-5.9442 ppb	01:58:24
3	V 292.402†	270.2	-141.1	-0.6936 µg/L	-0.6936 ppb	01:58:24
3	Zn 213.857†	596.7	15.5	0.0866 µg/L	0.0866 ppb	01:58:44

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1754733.9	102.13 %	0.697			0.68%
Sc RADIAL	143933.2	98.6 %	1.06			1.08%
Y 371.029	1046802.0	101.96 %	0.649			0.64%
Ag 328.068†	-37.3	-0.1521 µg/L	0.08501	-0.1521 ppb	0.08501	55.89%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.2	-1.7149 µg/L	1.12269	-1.7149 ppb	1.12269	65.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.8	2.3642 µg/L	2.12124	2.3642 ppb	2.12124	89.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	50.2	0.7404 µg/L	1.18445	0.7404 ppb	1.18445	159.98%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.2	0.0852 µg/L	0.03992	0.0852 ppb	0.03992	46.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	103.4	0.0257 µg/L	0.04438	0.0257 ppb	0.04438	172.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	89.7	4.9959 µg/L	0.92619	4.9959 ppb	0.92619	18.54%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	13.2	0.0823 µg/L	0.08201	0.0823 ppb	0.08201	99.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.9	0.1464 µg/L	0.02744	0.1464 ppb	0.02744	18.74%

Cr	267.716†	15.4	0.1268 µg/L	0.11872	0.1268 ppb	0.11872	93.63%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-46.7	-0.1880 µg/L	0.33551	-0.1880 ppb	0.33551	178.43%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	9.2	0.5699 µg/L	0.80892	0.5699 ppb	0.80892	141.94%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	247.8	90.715 µg/L	19.7374	90.715 ppb	19.7374	21.76%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	3.2	1.1938 µg/L	7.55858	1.1938 ppb	7.55858	633.14%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	30.9	0.0382 µg/L	0.01490	0.0382 ppb	0.01490	38.98%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	2.7	0.0783 µg/L	0.34173	0.0783 ppb	0.34173	436.17%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	207.0	28.195 µg/L	15.0656	28.195 ppb	15.0656	53.43%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-7.1	-0.0815 µg/L	0.16123	-0.0815 ppb	0.16123	197.84%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-2.8	-0.5934 µg/L	1.48237	-0.5934 ppb	1.48237	249.82%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-10.4	-0.5737 µg/L	0.57348	-0.5737 ppb	0.57348	99.97%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	15.2	11.310 µg/L	7.6051	11.310 ppb	7.6051	67.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-10.5	-1.2526 µg/L	1.36613	-1.2526 ppb	1.36613	109.06%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-3.9	-1.42 µg/L	4.177	-1.42 ppb	4.177	294.77%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		2.6	0.2467 µg/L	1.58234	0.2467 ppb	1.58234	641.29%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	54.7	0.8015 µg/L	0.78785	0.8015 ppb	0.78785	98.29%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	8.2	0.5097 µg/L	0.15517	0.5097 ppb	0.15517	30.44%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-158.5	-0.3295 µg/L	0.07245	-0.3295 ppb	0.07245	21.99%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-78.3	-0.0699 µg/L	0.07531	-0.0699 ppb	0.07531	107.82%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.9	0.2315 µg/L	1.10938	0.2315 ppb	1.10938	479.17%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-138.3	-8.1038 µg/L	4.05883	-8.1038 ppb	4.05883	50.09%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-64.3	-0.3180 µg/L	0.44583	-0.3180 ppb	0.44583	140.21%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	25.1	0.1413 µg/L	0.04962	0.1413 ppb	0.04962	35.11%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 189

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 2:19:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142482.1	142482.1	97.6 %		02:19:37
1	Al 396.153Radial†	25864.4	26553.4	4900.9 µg/L	4900.9 ppb	02:19:37
1	Ca 317.933Radial†	85331.9	86836.1	4837.1 µg/L	4837.1 ppb	02:19:37
1	Fe 238.204 Radial†	75728.7	77413.1	4771.3 µg/L	4771.3 ppb	02:19:37
1	K 766.490 Radial†	14888.6	13704.1	5013.3 µg/L	5013.3 ppb	02:19:37
1	Mg 279.077 IEC†	12988.0	13111.5	4892.7 µg/L	4892.7 ppb	02:19:37
1	Na 589.592 Radial†	71527.5	71967.5	9827.2 µg/L	9827.2 ppb	02:19:37
1	Sr 421.552†	227636.6	233280.1	484.94 µg/L	484.94 ppb	02:19:35
1	Sc 361.383	1730429.7	1730429.7	100.71 %		02:20:04
1	Y 371.029	1022608.2	1022608.2	99.603 %		02:20:04
1	Ag 328.068†	131919.2	126896.9	475.83 µg/L	475.83 ppb	02:20:04
1	As 188.979†	1608.5	1617.5	496.07 µg/L	496.07 ppb	02:20:24
1	B 249.677†	35428.5	31672.6	465.47 µg/L	465.47 ppb	02:20:04
1	Ba 233.527†	118521.9	117821.3	475.17 µg/L	475.17 ppb	02:20:04
1	Be 313.107†	1771161.4	1759726.5	479.27 µg/L	479.27 ppb	02:20:04
1	Cd 226.502†	75681.8	75265.9	469.84 µg/L	469.84 ppb	02:20:04
1	Co 228.616†	38563.9	38482.0	475.06 µg/L	475.06 ppb	02:20:04
1	Cr 267.716†	60790.8	60183.2	471.23 µg/L	471.23 ppb	02:20:04
1	Cu 324.752†	125721.3	121861.9	475.05 µg/L	475.05 ppb	02:20:04
1	Mn 257.610†	388444.5	385465.8	476.73 µg/L	476.73 ppb	02:20:04
1	Mo 202.031†	16270.9	16176.2	475.83 µg/L	475.83 ppb	02:20:24
1	Ni 231.604†	41269.7	41054.9	472.72 µg/L	472.72 ppb	02:20:04
1	P 214.914†	11152.5	11091.7	2364.2 µg/L	2364.2 ppb	02:20:24
1	Pb 220.353†	8708.1	8560.3	479.37 µg/L	479.37 ppb	02:20:24
1	S 181.975 Axial†	1839.5	1721.4	1282.3 µg/L	1282.3 ppb	02:20:24
1	Sb 206.836†	4096.9	3987.2	475.12 µg/L	475.12 ppb	02:20:24
1	Se 196.026†	1319.7	1295.1	470 µg/L	470 ppb	02:20:24
1	SiO2†	54111.4	51954.2	5057.7 µg/L	5057.7 ppb	02:20:04
1	Si 251.611†	163829.4	161836.7	2376.5 µg/L	2376.5 ppb	02:20:04
1	Sn 189.927†	7696.6	7643.4	478.09 µg/L	478.09 ppb	02:20:24
1	Ti 334.940†	514200.9	509619.5	475.51 µg/L	475.51 ppb	02:20:04
1	Tl 190.801†	3756.8	3847.0	479.82 µg/L	479.82 ppb	02:20:24
1	U 409.014†	7265.9	7484.6	466.47 µg/L	466.47 ppb	02:20:04
1	V 292.402†	97858.9	96764.5	478.34 µg/L	478.34 ppb	02:20:04
1	Zn 213.857†	85251.2	84085.2	468.63 µg/L	468.63 ppb	02:20:04
2	Sc RADIAL	143417.3	143417.3	98.3 %		02:19:41
2	Al 396.153Radial†	26013.9	26532.9	4897.2 µg/L	4897.2 ppb	02:19:41
2	Ca 317.933Radial†	85954.2	86899.4	4840.6 µg/L	4840.6 ppb	02:19:41
2	Fe 238.204 Radial†	76353.0	77542.5	4779.2 µg/L	4779.2 ppb	02:19:41
2	K 766.490 Radial†	14792.4	13506.7	4941.0 µg/L	4941.0 ppb	02:19:41
2	Mg 279.077 IEC†	13150.5	13190.2	4921.9 µg/L	4921.9 ppb	02:19:41
2	Na 589.592 Radial†	72142.5	72115.6	9847.5 µg/L	9847.5 ppb	02:19:41
2	Sr 421.552†	229319.1	233471.7	485.34 µg/L	485.34 ppb	02:19:39
2	Sc 361.383	1743349.5	1743349.5	101.46 %		02:20:27
2	Y 371.029	1028716.5	1028716.5	100.20 %		02:20:27
2	Ag 328.068†	133300.6	127287.6	477.31 µg/L	477.31 ppb	02:20:27
2	As 188.979†	1596.4	1593.8	488.89 µg/L	488.89 ppb	02:20:47
2	B 249.677†	35997.3	31972.5	469.88 µg/L	469.88 ppb	02:20:27
2	Ba 233.527†	120018.6	118424.3	477.60 µg/L	477.60 ppb	02:20:27
2	Be 313.107†	1796503.1	1771669.7	482.53 µg/L	482.53 ppb	02:20:27
2	Cd 226.502†	77106.3	76113.0	475.13 µg/L	475.13 ppb	02:20:27
2	Co 228.616†	39051.0	38678.3	477.48 µg/L	477.48 ppb	02:20:27
2	Cr 267.716†	61466.3	60401.6	472.94 µg/L	472.94 ppb	02:20:27
2	Cu 324.752†	126763.9	121964.2	475.45 µg/L	475.45 ppb	02:20:27
2	Mn 257.610†	393146.3	387241.5	478.93 µg/L	478.93 ppb	02:20:27
2	Mo 202.031†	16303.2	16088.2	473.25 µg/L	473.25 ppb	02:20:47
2	Ni 231.604†	41851.6	41324.8	475.83 µg/L	475.83 ppb	02:20:27
2	P 214.914†	11183.1	11039.8	2353.0 µg/L	2353.0 ppb	02:20:47
2	Pb 220.353†	8703.6	8491.7	475.54 µg/L	475.54 ppb	02:20:47

2	S 181.975 Axial†	1799.8	1668.8	1243.2 µg/L	1243.2 ppb	02:20:47
2	Sb 206.836†	4122.9	3982.7	474.52 µg/L	474.52 ppb	02:20:47
2	Se 196.026†	1342.9	1308.3	475 µg/L	475 ppb	02:20:47
2	SiO2†	55076.9	52507.6	5111.9 µg/L	5111.9 ppb	02:20:27
2	Si 251.611†	165962.8	162733.8	2389.7 µg/L	2389.7 ppb	02:20:27
2	Sn 189.927†	7680.9	7571.3	473.60 µg/L	473.60 ppb	02:20:47
2	Ti 334.940†	519896.2	511448.9	477.22 µg/L	477.22 ppb	02:20:27
2	Tl 190.801†	3764.8	3827.2	477.42 µg/L	477.42 ppb	02:20:47
2	U 409.014†	7312.8	7477.3	466.23 µg/L	466.23 ppb	02:20:27
2	V 292.402†	99237.6	97403.3	481.44 µg/L	481.44 ppb	02:20:27
2	Zn 213.857†	86569.5	84757.1	472.38 µg/L	472.38 ppb	02:20:27
3	Sc RADIAL	142522.4	142522.4	97.7 %		02:19:45
3	Al 396.153Radial†	26049.5	26735.5	4934.6 µg/L	4934.6 ppb	02:19:45
3	Ca 317.933Radial†	85524.1	87008.2	4846.7 µg/L	4846.7 ppb	02:19:45
3	Fe 238.204 Radial†	76071.6	77742.2	4791.5 µg/L	4791.5 ppb	02:19:45
3	K 766.490 Radial†	14775.5	13584.0	4969.3 µg/L	4969.3 ppb	02:19:45
3	Mg 279.077 IEC†	13130.2	13253.4	4945.6 µg/L	4945.6 ppb	02:19:45
3	Na 589.592 Radial†	71535.5	71954.9	9825.5 µg/L	9825.5 ppb	02:19:45
3	Sr 421.552†	230430.6	236074.9	490.75 µg/L	490.75 ppb	02:19:43
3	Sc 361.383	1739029.7	1739029.7	101.21 %		02:20:50
3	Y 371.029	1026889.1	1026889.1	100.02 %		02:20:50
3	Ag 328.068†	133069.1	127385.2	477.66 µg/L	477.66 ppb	02:20:50
3	As 188.979†	1625.4	1626.3	498.73 µg/L	498.73 ppb	02:21:10
3	B 249.677†	35984.4	32047.9	470.99 µg/L	470.99 ppb	02:20:50
3	Ba 233.527†	119885.1	118586.2	478.26 µg/L	478.26 ppb	02:20:50
3	Be 313.107†	1792265.9	1771881.4	482.58 µg/L	482.58 ppb	02:20:50
3	Cd 226.502†	76820.8	76019.6	474.55 µg/L	474.55 ppb	02:20:50
3	Co 228.616†	39099.9	38822.3	479.26 µg/L	479.26 ppb	02:20:50
3	Cr 267.716†	61364.7	60451.8	473.33 µg/L	473.33 ppb	02:20:50
3	Cu 324.752†	126363.1	121878.6	475.12 µg/L	475.12 ppb	02:20:50
3	Mn 257.610†	392632.0	387695.9	479.49 µg/L	479.49 ppb	02:20:50
3	Mo 202.031†	16380.6	16204.6	476.67 µg/L	476.67 ppb	02:21:10
3	Ni 231.604†	41859.0	41434.6	477.09 µg/L	477.09 ppb	02:20:50
3	P 214.914†	11258.2	11141.4	2374.8 µg/L	2374.8 ppb	02:21:10
3	Pb 220.353†	8758.8	8567.6	479.78 µg/L	479.78 ppb	02:21:10
3	S 181.975 Axial†	1801.3	1674.7	1247.6 µg/L	1247.6 ppb	02:21:10
3	Sb 206.836†	4138.4	4008.0	477.59 µg/L	477.59 ppb	02:21:10
3	Se 196.026†	1350.9	1319.5	479 µg/L	479 ppb	02:21:10
3	SiO2†	54848.5	52416.7	5102.8 µg/L	5102.8 ppb	02:20:50
3	Si 251.611†	165580.0	162761.9	2390.1 µg/L	2390.1 ppb	02:20:50
3	Sn 189.927†	7757.7	7666.0	479.50 µg/L	479.50 ppb	02:21:10
3	Ti 334.940†	519132.4	511967.1	477.70 µg/L	477.70 ppb	02:20:50
3	Tl 190.801†	3760.5	3832.2	478.02 µg/L	478.02 ppb	02:21:10
3	U 409.014†	7409.7	7590.9	472.81 µg/L	472.81 ppb	02:20:50
3	V 292.402†	98761.8	97176.0	480.37 µg/L	480.37 ppb	02:20:50
3	Zn 213.857†	86374.1	84776.0	472.48 µg/L	472.48 ppb	02:20:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1737602.9	101.13 %	0.383			0.38%
Sc RADIAL	142807.3	97.9 %	0.36			0.37%
Y 371.029	1026071.2	99.940 %	0.3054			0.31%
Ag 328.068†	127189.9	476.93 µg/L	0.975	476.93 ppb	0.975	0.20%
QC value within limits for Ag 328.068 Recovery = 95.39%						
Al 396.153Radial†	26607.3	4910.9 µg/L	20.62	4910.9 ppb	20.62	0.42%
QC value within limits for Al 396.153Radial Recovery = 98.22%						
As 188.979†	1612.5	494.56 µg/L	5.091	494.56 ppb	5.091	1.03%
QC value within limits for As 188.979 Recovery = 98.91%						
B 249.677†	31897.6	468.78 µg/L	2.921	468.78 ppb	2.921	0.62%
QC value within limits for B 249.677 Recovery = 93.76%						
Ba 233.527†	118277.3	477.01 µg/L	1.625	477.01 ppb	1.625	0.34%
QC value within limits for Ba 233.527 Recovery = 95.40%						
Be 313.107†	1767759.2	481.46 µg/L	1.895	481.46 ppb	1.895	0.39%
QC value within limits for Be 313.107 Recovery = 96.29%						
Ca 317.933Radial†	86914.6	4841.5 µg/L	4.85	4841.5 ppb	4.85	0.10%
QC value within limits for Ca 317.933Radial Recovery = 96.83%						
Cd 226.502†	75799.5	473.17 µg/L	2.901	473.17 ppb	2.901	0.61%
QC value within limits for Cd 226.502 Recovery = 94.63%						
Co 228.616†	38660.9	477.27 µg/L	2.108	477.27 ppb	2.108	0.44%

Cr	267.716†	60345.5	472.50 µg/L	1.117	472.50 ppb	1.117	0.24%
QC value within limits for Cr 267.716 Recovery = 94.50%							
Cu	324.752†	121901.6	475.21 µg/L	0.213	475.21 ppb	0.213	0.04%
QC value within limits for Cu 324.752 Recovery = 95.04%							
Fe	238.204 Radial†	77565.9	4780.7 µg/L	10.22	4780.7 ppb	10.22	0.21%
QC value within limits for Fe 238.204 Radial Recovery = 95.61%							
K	766.490 Radial†	13598.3	4974.5 µg/L	36.41	4974.5 ppb	36.41	0.73%
QC value within limits for K 766.490 Radial Recovery = 99.49%							
Mg	279.077 IEC†	13185.0	4920.1 µg/L	26.48	4920.1 ppb	26.48	0.54%
QC value within limits for Mg 279.077 IEC Recovery = 98.40%							
Mn	257.610†	386801.1	478.38 µg/L	1.457	478.38 ppb	1.457	0.30%
QC value within limits for Mn 257.610 Recovery = 95.68%							
Mo	202.031†	16156.3	475.25 µg/L	1.783	475.25 ppb	1.783	0.38%
QC value within limits for Mo 202.031 Recovery = 95.05%							
Na	589.592 Radial†	72012.7	9833.4 µg/L	12.23	9833.4 ppb	12.23	0.12%
QC value within limits for Na 589.592 Radial Recovery = 98.33%							
Ni	231.604†	41271.4	475.21 µg/L	2.249	475.21 ppb	2.249	0.47%
QC value within limits for Ni 231.604 Recovery = 95.04%							
P	214.914†	11091.0	2364.0 µg/L	10.88	2364.0 ppb	10.88	0.46%
QC value within limits for P 214.914 Recovery = 94.56%							
Pb	220.353†	8539.8	478.23 µg/L	2.340	478.23 ppb	2.340	0.49%
QC value within limits for Pb 220.353 Recovery = 95.65%							
S	181.975 Axial†	1688.3	1257.7 µg/L	21.41	1257.7 ppb	21.41	1.70%
QC value greater than the upper limit for S 181.975 Axial Recovery = 125.77%							
Sb	206.836†	3992.6	475.74 µg/L	1.625	475.74 ppb	1.625	0.34%
QC value within limits for Sb 206.836 Recovery = 95.15%							
Se	196.026†	1307.6	475 µg/L	4.4	475 ppb	4.4	0.93%
QC value within limits for Se 196.026 Recovery = 94.96%							
SiO2†		52292.8	5090.8 µg/L	29.05	5090.8 ppb	29.05	0.57%
QC value within limits for SiO2 Recovery = 95.20%							
Si	251.611†	162444.1	2385.4 µg/L	7.77	2385.4 ppb	7.77	0.33%
QC value within limits for Si 251.611 Recovery = 95.42%							
Sn	189.927†	7626.9	477.06 µg/L	3.084	477.06 ppb	3.084	0.65%
QC value within limits for Sn 189.927 Recovery = 95.41%							
Sr	421.552†	234275.6	487.01 µg/L	3.246	487.01 ppb	3.246	0.67%
QC value within limits for Sr 421.552 Recovery = 97.40%							
Ti	334.940†	511011.8	476.81 µg/L	1.149	476.81 ppb	1.149	0.24%
QC value within limits for Ti 334.940 Recovery = 95.36%							
Tl	190.801†	3835.5	478.42 µg/L	1.250	478.42 ppb	1.250	0.26%
QC value within limits for Tl 190.801 Recovery = 95.68%							
U	409.014†	7517.6	468.51 µg/L	3.732	468.51 ppb	3.732	0.80%
QC value within limits for U 409.014 Recovery = 93.70%							
V	292.402†	97114.6	480.05 µg/L	1.572	480.05 ppb	1.572	0.33%
QC value within limits for V 292.402 Recovery = 96.01%							
Zn	213.857†	84539.4	471.17 µg/L	2.196	471.17 ppb	2.196	0.47%
QC value within limits for Zn 213.857 Recovery = 94.23%							
QC Failed. Continue with analysis.							

Sequence No.: 190

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 2:21:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142533.7	142533.7	97.7 %		02:21:48
1	Al 396.153Radial†	-46.3	15.8	2.9384 µg/L	2.9384 ppb	02:22:08
1	Ca 317.933Radial†	812.0	270.8	15.085 µg/L	15.085 ppb	02:22:08
1	Fe 238.204 Radial†	148.9	4.3	0.2664 µg/L	0.2664 ppb	02:22:08
1	K 766.490 Radial†	1893.6	393.9	144.21 µg/L	144.21 ppb	02:21:48
1	Mg 279.077 IEC†	191.4	5.2	1.9452 µg/L	1.9452 ppb	02:22:08
1	Na 589.592 Radial†	2030.7	788.2	107.55 µg/L	107.55 ppb	02:21:48
1	Sr 421.552†	35.6	171.7	0.3569 µg/L	0.3569 ppb	02:21:48
1	Sc 361.383	1757302.0	1757302.0	102.27 %		02:22:56
1	Y 371.029	1047691.3	1047691.3	102.05 %		02:22:56
1	Ag 328.068†	4173.8	-10.5	-0.0333 µg/L	-0.0333 ppb	02:22:58
1	As 188.979†	-24.8	-3.9	-1.1733 µg/L	-1.1733 ppb	02:23:18
1	B 249.677†	3656.0	68.8	1.0136 µg/L	1.0136 ppb	02:22:58
1	Ba 233.527†	-145.3	-6.2	-0.0251 µg/L	-0.0251 ppb	02:23:18
1	Be 313.107†	-953.7	132.2	0.0373 µg/L	0.0373 ppb	02:22:58
1	Cd 226.502†	-109.3	11.3	0.0707 µg/L	0.0707 ppb	02:23:18
1	Co 228.616†	-176.7	17.5	0.2164 µg/L	0.2164 ppb	02:23:18
1	Cr 267.716†	172.3	-10.1	-0.0824 µg/L	-0.0824 ppb	02:23:18
1	Cu 324.752†	2966.4	-71.8	-0.2751 µg/L	-0.2751 ppb	02:22:58
1	Mn 257.610†	287.6	44.0	0.0543 µg/L	0.0543 ppb	02:23:18
1	Mo 202.031†	-24.1	-3.5	-0.1021 µg/L	-0.1021 ppb	02:23:18
1	Ni 231.604†	-64.1	13.9	0.1596 µg/L	0.1596 ppb	02:23:18
1	P 214.914†	-11.1	7.1	1.5277 µg/L	1.5277 ppb	02:23:18
1	Pb 220.353†	81.6	-6.6	-0.3717 µg/L	-0.3717 ppb	02:23:18
1	S 181.975 Axial†	419.7	305.3	226.72 µg/L	226.72 ppb	02:23:18
1	Sb 206.836†	83.6	0.9	0.1126 µg/L	0.1126 ppb	02:23:18
1	Se 196.026†	22.7	6.9	2.50 µg/L	2.50 ppb	02:23:18
1	SiO2†	1807.8	-7.8	-0.7674 µg/L	-0.7674 ppb	02:23:18
1	Si 251.611†	1015.5	156.3	2.3014 µg/L	2.3014 ppb	02:22:58
1	Sn 189.927†	11.0	11.9	0.7393 µg/L	0.7393 ppb	02:23:18
1	Ti 334.940†	1008.0	33.1	0.0294 µg/L	0.0294 ppb	02:22:58
1	Tl 190.801†	-73.5	44.8	5.5056 µg/L	5.5056 ppb	02:23:18
1	U 409.014†	-199.5	74.9	4.3804 µg/L	4.3804 ppb	02:22:58
1	V 292.402†	420.5	7.4	0.0374 µg/L	0.0374 ppb	02:22:58
1	Zn 213.857†	628.6	50.2	0.2812 µg/L	0.2812 ppb	02:23:18
2	Sc RADIAL	140995.2	140995.2	96.6 %		02:22:10
2	Al 396.153Radial†	-49.6	11.8	2.2042 µg/L	2.2042 ppb	02:22:30
2	Ca 317.933Radial†	775.8	242.4	13.501 µg/L	13.501 ppb	02:22:30
2	Fe 238.204 Radial†	150.8	8.0	0.4928 µg/L	0.4928 ppb	02:22:30
2	K 766.490 Radial†	1849.8	369.8	135.37 µg/L	135.37 ppb	02:22:10
2	Mg 279.077 IEC†	181.9	-2.5	-0.9202 µg/L	-0.9202 ppb	02:22:30
2	Na 589.592 Radial†	2008.5	787.9	107.52 µg/L	107.52 ppb	02:22:10
2	Sr 421.552†	-96.1	35.9	0.0745 µg/L	0.0745 ppb	02:22:10
2	Sc 361.383	1746876.6	1746876.6	101.67 %		02:23:21
2	Y 371.029	1042581.7	1042581.7	101.55 %		02:23:21
2	Ag 328.068†	4096.2	-62.4	-0.2478 µg/L	-0.2478 ppb	02:23:23
2	As 188.979†	-17.8	2.8	0.8504 µg/L	0.8504 ppb	02:23:43
2	B 249.677†	3611.1	45.9	0.6766 µg/L	0.6766 ppb	02:23:23
2	Ba 233.527†	-113.1	24.6	0.0985 µg/L	0.0985 ppb	02:23:43
2	Be 313.107†	-508.9	564.1	0.1524 µg/L	0.1524 ppb	02:23:23
2	Cd 226.502†	-89.1	30.5	0.1906 µg/L	0.1906 ppb	02:23:43
2	Co 228.616†	-178.9	14.3	0.1770 µg/L	0.1770 ppb	02:23:43
2	Cr 267.716†	186.9	5.3	0.0438 µg/L	0.0438 ppb	02:23:43
2	Cu 324.752†	2747.0	-270.3	-1.0536 µg/L	-1.0536 ppb	02:23:23
2	Mn 257.610†	273.0	31.2	0.0387 µg/L	0.0387 ppb	02:23:43
2	Mo 202.031†	-29.7	-9.1	-0.2682 µg/L	-0.2682 ppb	02:23:43
2	Ni 231.604†	-105.3	-27.1	-0.3115 µg/L	-0.3115 ppb	02:23:43
2	P 214.914†	-22.0	-3.6	-0.7656 µg/L	-0.7656 ppb	02:23:43
2	Pb 220.353†	78.2	-9.5	-0.5265 µg/L	-0.5265 ppb	02:23:43

2	S 181.975 Axial†	415.2	303.3	225.21 µg/L	225.21 ppb	02:23:43
2	Sb 206.836†	72.3	-9.7	-1.1644 µg/L	-1.1644 ppb	02:23:43
2	Se 196.026†	13.2	-2.3	-0.833 µg/L	-0.833 ppb	02:23:43
2	SiO2†	1822.3	17.1	1.6785 µg/L	1.6785 ppb	02:23:43
2	Si 251.611†	1063.6	209.5	3.0940 µg/L	3.0940 ppb	02:23:23
2	Sn 189.927†	-4.2	-3.0	-0.1854 µg/L	-0.1854 ppb	02:23:43
2	Ti 334.940†	904.9	-62.5	-0.0564 µg/L	-0.0564 ppb	02:23:23
2	Tl 190.801†	-70.1	47.7	5.8552 µg/L	5.8552 ppb	02:23:43
2	U 409.014†	-342.8	-67.3	-3.9879 µg/L	-3.9879 ppb	02:23:23
2	V 292.402†	211.0	-196.3	-0.9629 µg/L	-0.9629 ppb	02:23:23
2	Zn 213.857†	601.6	27.3	0.1562 µg/L	0.1562 ppb	02:23:43
3	Sc RADIAL	142382.8	142382.8	97.6 %		02:22:32
3	Al 396.153Radial†	-56.5	5.3	0.9959 µg/L	0.9959 ppb	02:22:53
3	Ca 317.933Radial†	740.0	197.9	11.024 µg/L	11.024 ppb	02:22:53
3	Fe 238.204 Radial†	137.9	-6.8	-0.4201 µg/L	-0.4201 ppb	02:22:53
3	K 766.490 Radial†	1843.8	344.9	126.26 µg/L	126.26 ppb	02:22:32
3	Mg 279.077 IEC†	185.6	-0.4	-0.1653 µg/L	-0.1653 ppb	02:22:53
3	Na 589.592 Radial†	1905.7	662.4	90.378 µg/L	90.378 ppb	02:22:32
3	Sr 421.552†	-190.5	-59.9	-0.1247 µg/L	-0.1247 ppb	02:22:32
3	Sc 361.383	1733759.3	1733759.3	100.90 %		02:23:45
3	Y 371.029	1035483.6	1035483.6	100.86 %		02:23:45
3	Ag 328.068†	3971.4	-155.6	-0.5722 µg/L	-0.5722 ppb	02:23:47
3	As 188.979†	-15.3	5.2	1.5781 µg/L	1.5781 ppb	02:24:07
3	B 249.677†	3495.0	-42.2	-0.6226 µg/L	-0.6226 ppb	02:23:47
3	Ba 233.527†	-129.0	8.0	0.0318 µg/L	0.0318 ppb	02:24:07
3	Be 313.107†	-783.0	288.7	0.0811 µg/L	0.0811 ppb	02:23:47
3	Cd 226.502†	-94.8	24.2	0.1513 µg/L	0.1513 ppb	02:24:07
3	Co 228.616†	-199.6	-7.5	-0.0925 µg/L	-0.0925 ppb	02:24:07
3	Cr 267.716†	165.2	-14.9	-0.1233 µg/L	-0.1233 ppb	02:24:07
3	Cu 324.752†	3082.5	82.7	0.3282 µg/L	0.3282 ppb	02:23:47
3	Mn 257.610†	277.9	38.1	0.0471 µg/L	0.0471 ppb	02:24:07
3	Mo 202.031†	-27.7	-7.4	-0.2175 µg/L	-0.2175 ppb	02:24:07
3	Ni 231.604†	-100.3	-22.8	-0.2630 µg/L	-0.2630 ppb	02:24:07
3	P 214.914†	3.0	20.9	4.4747 µg/L	4.4747 ppb	02:24:07
3	Pb 220.353†	86.0	-1.2	-0.0714 µg/L	-0.0714 ppb	02:24:07
3	S 181.975 Axial†	402.3	293.6	218.02 µg/L	218.02 ppb	02:24:07
3	Sb 206.836†	82.0	0.5	0.0548 µg/L	0.0548 ppb	02:24:07
3	Se 196.026†	21.9	6.5	2.35 µg/L	2.35 ppb	02:24:07
3	SiO2†	1796.2	4.7	0.4621 µg/L	0.4621 ppb	02:24:07
3	Si 251.611†	1001.5	155.9	2.2994 µg/L	2.2994 ppb	02:23:47
3	Sn 189.927†	4.7	5.8	0.3603 µg/L	0.3603 ppb	02:24:07
3	Ti 334.940†	986.8	25.4	0.0207 µg/L	0.0207 ppb	02:23:47
3	Tl 190.801†	-44.3	72.8	8.9372 µg/L	8.9372 ppb	02:24:07
3	U 409.014†	-127.6	143.4	8.3576 µg/L	8.3576 ppb	02:23:47
3	V 292.402†	301.5	-105.0	-0.5092 µg/L	-0.5092 ppb	02:23:47
3	Zn 213.857†	581.7	12.1	0.0693 µg/L	0.0693 ppb	02:24:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745979.3	101.62 %		0.687			0.68%
Sc RADIAL	141970.6	97.3 %		0.58			0.60%
Y 371.029	1041918.9	101.48 %		0.597			0.59%
Ag 328.068†	-76.2	-0.2844 µg/L		0.27132	-0.2844 ppb	0.27132	95.39%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	11.0	2.0462 µg/L		0.98085	2.0462 ppb	0.98085	47.94%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.4	0.4184 µg/L		1.42565	0.4184 ppb	1.42565	340.75%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	24.2	0.3559 µg/L		0.86394	0.3559 ppb	0.86394	242.77%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.8	0.0350 µg/L		0.06186	0.0350 ppb	0.06186	176.58%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	328.3	0.0903 µg/L		0.05810	0.0903 ppb	0.05810	64.34%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	237.0	13.203 µg/L		2.0466	13.203 ppb	2.0466	15.50%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	22.0	0.1375 µg/L		0.06111	0.1375 ppb	0.06111	44.43%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	8.1	0.1003 µg/L		0.16815	0.1003 ppb	0.16815	167.65%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -6.6 -0.0540 µg/L 0.08710 -0.0540 ppb 0.08710 161.40%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -86.5 -0.3335 µg/L 0.69273 -0.3335 ppb 0.69273 207.71%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 1.8 0.1130 µg/L 0.47541 0.1130 ppb 0.47541 420.63%

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

K 766.490 Radial† 369.6 135.28 µg/L 8.974 135.28 ppb 8.974 6.63%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 0.8 0.2866 µg/L 1.48517 0.2866 ppb 1.48517 518.27%

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

Mn 257.610† 37.8 0.0467 µg/L 0.00782 0.0467 ppb 0.00782 16.75%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -6.7 -0.1959 µg/L 0.08513 -0.1959 ppb 0.08513 43.45%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 746.2 101.82 µg/L 9.907 101.82 ppb 9.907 9.73%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† -12.0 -0.1383 µg/L 0.25912 -0.1383 ppb 0.25912 187.35%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 8.1 1.7456 µg/L 2.62689 1.7456 ppb 2.62689 150.49%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -5.7 -0.3232 µg/L 0.23141 -0.3232 ppb 0.23141 71.60%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 300.7 223.31 µg/L 4.649 223.31 ppb 4.649 2.08%

QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated

Sb 206.836† -2.8 -0.3323 µg/L 0.72115 -0.3323 ppb 0.72115 217.00%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† 3.7 1.34 µg/L 1.882 1.34 ppb 1.882 140.61%

QC value within limits for Se 196.026 Recovery = Not calculated

SiO2† 4.7 0.4577 µg/L 1.22296 0.4577 ppb 1.22296 267.19%

QC value within limits for SiO2 Recovery = Not calculated

Si 251.611† 173.9 2.5649 µg/L 0.45818 2.5649 ppb 0.45818 17.86%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† 4.9 0.3047 µg/L 0.46487 0.3047 ppb 0.46487 152.55%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 49.2 0.1022 µg/L 0.24199 0.1022 ppb 0.24199 236.77%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -1.3 -0.0021 µg/L 0.04720 -0.0021 ppb 0.04720 >999.9%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† 55.1 6.7660 µg/L 1.88839 6.7660 ppb 1.88839 27.91%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 50.3 2.9167 µg/L 6.30153 2.9167 ppb 6.30153 216.05%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† -98.0 -0.4782 µg/L 0.50087 -0.4782 ppb 0.50087 104.74%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 29.9 0.1689 µg/L 0.10651 0.1689 ppb 0.10651 63.06%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 200

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 2:47:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144350.1	144350.1	98.9 %		02:47:33
1	Al 396.153Radial†	26228.7	26578.9	4905.8 µg/L	4905.8 ppb	02:47:33
1	Ca 317.933Radial†	86007.1	86387.7	4812.1 µg/L	4812.1 ppb	02:47:33
1	Fe 238.204 Radial†	76839.4	77532.2	4778.6 µg/L	4778.6 ppb	02:47:33
1	K 766.490 Radial†	15343.0	13966.1	5108.9 µg/L	5108.9 ppb	02:47:33
1	Mg 279.077 IEC†	13163.3	13116.7	4894.5 µg/L	4894.5 ppb	02:47:33
1	Na 589.592 Radial†	85523.5	85168.6	11631 µg/L	11631 ppb	02:47:33
1	Sr 421.552†	229491.2	232137.9	482.56 µg/L	482.56 ppb	02:47:31
1	Sc 361.383	1735080.7	1735080.7	100.98 %		02:47:46
1	Y 371.029	1023835.7	1023835.7	99.722 %		02:47:46
1	Ag 328.068†	132112.4	126737.1	475.24 µg/L	475.24 ppb	02:47:46
1	As 188.979†	1600.3	1605.1	492.29 µg/L	492.29 ppb	02:48:06
1	B 249.677†	35710.3	31857.4	468.19 µg/L	468.19 ppb	02:47:46
1	Ba 233.527†	119099.4	118077.7	476.20 µg/L	476.20 ppb	02:47:46
1	Be 313.107†	1782783.3	1766521.3	481.13 µg/L	481.13 ppb	02:47:46
1	Cd 226.502†	75967.8	75347.7	470.35 µg/L	470.35 ppb	02:47:46
1	Co 228.616†	38757.3	38570.9	476.16 µg/L	476.16 ppb	02:47:46
1	Cr 267.716†	60943.8	60172.9	471.14 µg/L	471.14 ppb	02:47:46
1	Cu 324.752†	126054.9	121857.5	475.04 µg/L	475.04 ppb	02:47:46
1	Mn 257.610†	390617.1	386583.5	478.11 µg/L	478.11 ppb	02:47:46
1	Mo 202.031†	16192.2	16054.9	472.27 µg/L	472.27 ppb	02:48:06
1	Ni 231.604†	41343.1	41017.9	472.29 µg/L	472.29 ppb	02:47:46
1	P 214.914†	11104.9	11015.0	2347.7 µg/L	2347.7 ppb	02:48:06
1	Pb 220.353†	8631.3	8461.0	473.82 µg/L	473.82 ppb	02:48:06
1	S 181.975 Axial†	1898.0	1774.5	1321.7 µg/L	1321.7 ppb	02:48:06
1	Sb 206.836†	4090.9	3970.4	473.06 µg/L	473.06 ppb	02:48:06
1	Se 196.026†	1334.9	1306.7	474 µg/L	474 ppb	02:48:06
1	SiO2†	54695.2	52388.2	5100.2 µg/L	5100.2 ppb	02:47:46
1	Si 251.611†	165090.7	162649.7	2388.5 µg/L	2388.5 ppb	02:47:46
1	Sn 189.927†	7654.2	7581.0	474.20 µg/L	474.20 ppb	02:48:06
1	Ti 334.940†	517218.9	511239.5	477.02 µg/L	477.02 ppb	02:47:46
1	Tl 190.801†	3732.0	3812.4	475.58 µg/L	475.58 ppb	02:48:06
1	U 409.014†	7426.6	7624.3	474.65 µg/L	474.65 ppb	02:47:46
1	V 292.402†	98126.3	96768.8	478.33 µg/L	478.33 ppb	02:47:46
1	Zn 213.857†	85631.0	84234.3	469.47 µg/L	469.47 ppb	02:47:46
2	Sc RADIAL	143197.9	143197.9	98.1 %		02:47:37
2	Al 396.153Radial†	26070.2	26630.7	4915.4 µg/L	4915.4 ppb	02:47:37
2	Ca 317.933Radial†	85328.2	86395.4	4812.6 µg/L	4812.6 ppb	02:47:37
2	Fe 238.204 Radial†	76209.4	77515.2	4777.6 µg/L	4777.6 ppb	02:47:37
2	K 766.490 Radial†	15238.0	13983.9	5115.5 µg/L	5115.5 ppb	02:47:37
2	Mg 279.077 IEC†	12996.4	13053.6	4871.0 µg/L	4871.0 ppb	02:47:37
2	Na 589.592 Radial†	84353.8	84672.3	11563 µg/L	11563 ppb	02:47:37
2	Sr 421.552†	228444.9	232938.2	484.23 µg/L	484.23 ppb	02:47:35
2	Sc 361.383	1729977.8	1729977.8	100.68 %		02:48:09
2	Y 371.029	1021138.1	1021138.1	99.459 %		02:48:09
2	Ag 328.068†	132255.3	127264.8	477.20 µg/L	477.20 ppb	02:48:09
2	As 188.979†	1600.4	1609.8	493.75 µg/L	493.75 ppb	02:48:29
2	B 249.677†	35924.0	32173.9	472.86 µg/L	472.86 ppb	02:48:09
2	Ba 233.527†	118874.7	118202.5	476.71 µg/L	476.71 ppb	02:48:09
2	Be 313.107†	1779803.9	1768769.7	481.74 µg/L	481.74 ppb	02:48:09
2	Cd 226.502†	76106.7	75707.5	472.60 µg/L	472.60 ppb	02:48:09
2	Co 228.616†	38701.0	38628.3	476.87 µg/L	476.87 ppb	02:48:09
2	Cr 267.716†	61014.5	60421.2	473.09 µg/L	473.09 ppb	02:48:09
2	Cu 324.752†	126154.1	122324.3	476.85 µg/L	476.85 ppb	02:48:09
2	Mn 257.610†	389925.2	387037.3	478.68 µg/L	478.68 ppb	02:48:09
2	Mo 202.031†	16171.0	16081.2	473.04 µg/L	473.04 ppb	02:48:29
2	Ni 231.604†	41427.6	41222.5	474.65 µg/L	474.65 ppb	02:48:09
2	P 214.914†	11099.7	11042.2	2353.5 µg/L	2353.5 ppb	02:48:29
2	Pb 220.353†	8601.5	8456.6	473.58 µg/L	473.58 ppb	02:48:29

2	S 181.975 Axial†	1845.1	1727.5	1286.8 µg/L	1286.8 ppb	02:48:29
2	Sb 206.836†	4100.2	3991.5	475.56 µg/L	475.56 ppb	02:48:29
2	Se 196.026†	1327.8	1303.5	473 µg/L	473 ppb	02:48:29
2	SiO2†	54326.1	52181.4	5080.0 µg/L	5080.0 ppb	02:48:09
2	Si 251.611†	164905.6	162948.1	2392.9 µg/L	2392.9 ppb	02:48:09
2	Sn 189.927†	7653.3	7602.4	475.54 µg/L	475.54 ppb	02:48:29
2	Ti 334.940†	516285.7	511823.6	477.57 µg/L	477.57 ppb	02:48:09
2	Tl 190.801†	3663.6	3755.4	468.58 µg/L	468.58 ppb	02:48:29
2	U 409.014†	7377.7	7597.4	473.10 µg/L	473.10 ppb	02:48:09
2	V 292.402†	97929.6	96860.1	478.79 µg/L	478.79 ppb	02:48:09
2	Zn 213.857†	85635.6	84489.1	470.89 µg/L	470.89 ppb	02:48:09
3	Sc RADIAL	145242.2	145242.2	99.5 %		02:47:41
3	Al 396.153Radial†	26268.1	26455.7	4882.8 µg/L	4882.8 ppb	02:47:41
3	Ca 317.933Radial†	86324.1	86172.1	4800.1 µg/L	4800.1 ppb	02:47:41
3	Fe 238.204 Radial†	77185.1	77402.4	4770.6 µg/L	4770.6 ppb	02:47:41
3	K 766.490 Radial†	15378.8	13906.8	5087.2 µg/L	5087.2 ppb	02:47:41
3	Mg 279.077 IEC†	13138.0	13009.5	4854.7 µg/L	4854.7 ppb	02:47:41
3	Na 589.592 Radial†	85226.4	84339.0	11517 µg/L	11517 ppb	02:47:41
3	Sr 421.552†	228321.6	229537.8	477.16 µg/L	477.16 ppb	02:47:39
3	Sc 361.383	1722897.8	1722897.8	100.27 %		02:48:32
3	Y 371.029	1017279.7	1017279.7	99.084 %		02:48:32
3	Ag 328.068†	131579.2	127130.4	476.70 µg/L	476.70 ppb	02:48:32
3	As 188.979†	1572.0	1588.0	487.15 µg/L	487.15 ppb	02:48:52
3	B 249.677†	35666.5	32063.7	471.23 µg/L	471.23 ppb	02:48:32
3	Ba 233.527†	118266.8	118081.4	476.22 µg/L	476.22 ppb	02:48:32
3	Be 313.107†	1769881.6	1766138.5	481.02 µg/L	481.02 ppb	02:48:32
3	Cd 226.502†	75739.9	75652.3	472.25 µg/L	472.25 ppb	02:48:32
3	Co 228.616†	38545.9	38631.5	476.90 µg/L	476.90 ppb	02:48:32
3	Cr 267.716†	60533.7	60190.7	471.28 µg/L	471.28 ppb	02:48:32
3	Cu 324.752†	125338.4	122025.7	475.69 µg/L	475.69 ppb	02:48:32
3	Mn 257.610†	387950.9	386659.8	478.21 µg/L	478.21 ppb	02:48:32
3	Mo 202.031†	16180.5	16156.6	475.26 µg/L	475.26 ppb	02:48:52
3	Ni 231.604†	41057.6	41022.6	472.35 µg/L	472.35 ppb	02:48:32
3	P 214.914†	11090.2	11078.0	2361.2 µg/L	2361.2 ppb	02:48:52
3	Pb 220.353†	8596.5	8486.8	475.26 µg/L	475.26 ppb	02:48:52
3	S 181.975 Axial†	1808.3	1698.3	1265.1 µg/L	1265.1 ppb	02:48:52
3	Sb 206.836†	4086.2	3994.3	475.96 µg/L	475.96 ppb	02:48:52
3	Se 196.026†	1329.9	1311.0	476 µg/L	476 ppb	02:48:52
3	SiO2†	54093.6	52171.3	5078.9 µg/L	5078.9 ppb	02:48:32
3	Si 251.611†	163851.5	162569.8	2387.3 µg/L	2387.3 ppb	02:48:32
3	Sn 189.927†	7645.7	7626.1	477.02 µg/L	477.02 ppb	02:48:52
3	Ti 334.940†	513965.1	511616.4	477.38 µg/L	477.38 ppb	02:48:32
3	Tl 190.801†	3647.7	3754.5	468.47 µg/L	468.47 ppb	02:48:52
3	U 409.014†	7387.3	7637.1	475.41 µg/L	475.41 ppb	02:48:32
3	V 292.402†	97466.6	96798.1	478.51 µg/L	478.51 ppb	02:48:32
3	Zn 213.857†	85311.1	84515.0	471.05 µg/L	471.05 ppb	02:48:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729318.8	100.65 %	0.356			0.35%
Sc RADIAL	144263.4	98.9 %	0.70			0.71%
Y 371.029	1020751.1	99.422 %	0.3209			0.32%
Ag 328.068†	127044.1	476.38 µg/L	1.017	476.38 ppb	1.017	0.21%
QC value within limits for Ag 328.068 Recovery = 95.28%						
Al 396.153Radial†	26555.1	4901.3 µg/L	16.73	4901.3 ppb	16.73	0.34%
QC value within limits for Al 396.153Radial Recovery = 98.03%						
As 188.979†	1601.0	491.06 µg/L	3.468	491.06 ppb	3.468	0.71%
QC value within limits for As 188.979 Recovery = 98.21%						
B 249.677†	32031.7	470.76 µg/L	2.368	470.76 ppb	2.368	0.50%
QC value within limits for B 249.677 Recovery = 94.15%						
Ba 233.527†	118120.5	476.38 µg/L	0.286	476.38 ppb	0.286	0.06%
QC value within limits for Ba 233.527 Recovery = 95.28%						
Be 313.107†	1767143.2	481.30 µg/L	0.387	481.30 ppb	0.387	0.08%
QC value within limits for Be 313.107 Recovery = 96.26%						
Ca 317.933Radial†	86318.4	4808.3 µg/L	7.06	4808.3 ppb	7.06	0.15%
QC value within limits for Ca 317.933Radial Recovery = 96.17%						
Cd 226.502†	75569.2	471.73 µg/L	1.211	471.73 ppb	1.211	0.26%
QC value within limits for Cd 226.502 Recovery = 94.35%						
Co 228.616†	38610.2	476.64 µg/L	0.421	476.64 ppb	0.421	0.09%

QC value within limits for Co 228.616 Recovery = 95.33%							
Cr 267.716†	60261.6	471.83 µg/L	1.086	471.83 ppb	1.086	0.23%	
QC value within limits for Cr 267.716 Recovery = 94.37%							
Cu 324.752†	122069.2	475.86 µg/L	0.918	475.86 ppb	0.918	0.19%	
QC value within limits for Cu 324.752 Recovery = 95.17%							
Fe 238.204 Radial†	77483.3	4775.6 µg/L	4.35	4775.6 ppb	4.35	0.09%	
QC value within limits for Fe 238.204 Radial Recovery = 95.51%							
K 766.490 Radial†	13952.3	5103.9 µg/L	14.77	5103.9 ppb	14.77	0.29%	
QC value within limits for K 766.490 Radial Recovery = 102.08%							
Mg 279.077 IEC†	13059.9	4873.4 µg/L	20.02	4873.4 ppb	20.02	0.41%	
QC value within limits for Mg 279.077 IEC Recovery = 97.47%							
Mn 257.610†	386760.2	478.33 µg/L	0.301	478.33 ppb	0.301	0.06%	
QC value within limits for Mn 257.610 Recovery = 95.67%							
Mo 202.031†	16097.6	473.52 µg/L	1.551	473.52 ppb	1.551	0.33%	
QC value within limits for Mo 202.031 Recovery = 94.70%							
Na 589.592 Radial†	84726.6	11570 µg/L	57.0	11570 ppb	57.0	0.49%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.70%							
Ni 231.604†	41087.6	473.09 µg/L	1.345	473.09 ppb	1.345	0.28%	
QC value within limits for Ni 231.604 Recovery = 94.62%							
P 214.914†	11045.1	2354.2 µg/L	6.76	2354.2 ppb	6.76	0.29%	
QC value within limits for P 214.914 Recovery = 94.17%							
Pb 220.353†	8468.1	474.22 µg/L	0.911	474.22 ppb	0.911	0.19%	
QC value within limits for Pb 220.353 Recovery = 94.84%							
S 181.975 Axial†	1733.4	1291.2 µg/L	28.53	1291.2 ppb	28.53	2.21%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 129.12%							
Sb 206.836†	3985.4	474.86 µg/L	1.568	474.86 ppb	1.568	0.33%	
QC value within limits for Sb 206.836 Recovery = 94.97%							
Se 196.026†	1307.1	475 µg/L	1.4	475 ppb	1.4	0.29%	
QC value within limits for Se 196.026 Recovery = 94.93%							
SiO2†	52247.0	5086.4 µg/L	12.02	5086.4 ppb	12.02	0.24%	
QC value within limits for SiO2 Recovery = 95.12%							
Si 251.611†	162722.5	2389.6 µg/L	2.95	2389.6 ppb	2.95	0.12%	
QC value within limits for Si 251.611 Recovery = 95.58%							
Sn 189.927†	7603.1	475.58 µg/L	1.408	475.58 ppb	1.408	0.30%	
QC value within limits for Sn 189.927 Recovery = 95.12%							
Sr 421.552†	231538.0	481.32 µg/L	3.696	481.32 ppb	3.696	0.77%	
QC value within limits for Sr 421.552 Recovery = 96.26%							
Ti 334.940†	511559.8	477.32 µg/L	0.278	477.32 ppb	0.278	0.06%	
QC value within limits for Ti 334.940 Recovery = 95.46%							
Tl 190.801†	3774.1	470.88 µg/L	4.075	470.88 ppb	4.075	0.87%	
QC value within limits for Tl 190.801 Recovery = 94.18%							
U 409.014†	7619.6	474.39 µg/L	1.174	474.39 ppb	1.174	0.25%	
QC value within limits for U 409.014 Recovery = 94.88%							
V 292.402†	96809.0	478.54 µg/L	0.232	478.54 ppb	0.232	0.05%	
QC value within limits for V 292.402 Recovery = 95.71%							
Zn 213.857†	84412.8	470.47 µg/L	0.867	470.47 ppb	0.867	0.18%	
QC value within limits for Zn 213.857 Recovery = 94.09%							
QC Failed. Continue with analysis.							

Sequence No.: 201

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 2:49:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143285.4	143285.4	98.2 %		02:49:29
1	Al 396.153Radial†	-71.7	-9.8	-1.8058 µg/L	-1.8058 ppb	02:49:49
1	Ca 317.933Radial†	595.1	45.5	2.5347 µg/L	2.5347 ppb	02:49:49
1	Fe 238.204 Radial†	146.6	1.2	0.0760 µg/L	0.0760 ppb	02:49:49
1	K 766.490 Radial†	1934.3	425.2	155.46 µg/L	155.46 ppb	02:49:29
1	Mg 279.077 IEC†	167.1	-20.5	-7.6406 µg/L	-7.6406 ppb	02:49:49
1	Na 589.592 Radial†	11220.6	10136.9	1384.7 µg/L	1384.7 ppb	02:49:29
1	Sr 421.552†	-193.9	-62.2	-0.1292 µg/L	-0.1292 ppb	02:49:29
1	Sc 361.383	1752326.8	1752326.8	101.99 %		02:50:37
1	Y 371.029	1044520.1	1044520.1	101.74 %		02:50:37
1	Ag 328.068†	3984.9	-184.1	-0.6824 µg/L	-0.6824 ppb	02:50:39
1	As 188.979†	-14.0	6.6	1.9969 µg/L	1.9969 ppb	02:50:59
1	B 249.677†	3624.3	47.8	0.7042 µg/L	0.7042 ppb	02:50:39
1	Ba 233.527†	-123.5	14.7	0.0593 µg/L	0.0593 ppb	02:50:59
1	Be 313.107†	-829.9	251.0	0.0684 µg/L	0.0684 ppb	02:50:39
1	Cd 226.502†	-84.0	35.8	0.2237 µg/L	0.2237 ppb	02:50:59
1	Co 228.616†	-162.6	30.8	0.3804 µg/L	0.3804 ppb	02:50:59
1	Cr 267.716†	186.9	4.7	0.0364 µg/L	0.0364 ppb	02:50:59
1	Cu 324.752†	2988.3	-42.0	-0.1631 µg/L	-0.1631 ppb	02:50:39
1	Mn 257.610†	271.5	29.0	0.0361 µg/L	0.0361 ppb	02:50:59
1	Mo 202.031†	-30.2	-9.6	-0.2810 µg/L	-0.2810 ppb	02:50:59
1	Ni 231.604†	-95.4	-17.1	-0.1966 µg/L	-0.1966 ppb	02:50:59
1	P 214.914†	-38.5	-19.8	-4.2327 µg/L	-4.2327 ppb	02:50:59
1	Pb 220.353†	75.5	-12.4	-0.6917 µg/L	-0.6917 ppb	02:50:59
1	S 181.975 Axial†	433.7	320.2	237.80 µg/L	237.80 ppb	02:50:59
1	Sb 206.836†	88.2	5.6	0.6633 µg/L	0.6633 ppb	02:50:59
1	Se 196.026†	18.1	2.5	0.898 µg/L	0.898 ppb	02:50:59
1	SiO2†	1786.4	-23.7	-2.3127 µg/L	-2.3127 ppb	02:50:59
1	Si 251.611†	933.6	78.8	1.1640 µg/L	1.1640 ppb	02:50:39
1	Sn 189.927†	3.6	4.6	0.2882 µg/L	0.2882 ppb	02:50:59
1	Ti 334.940†	1101.4	127.4	0.1196 µg/L	0.1196 ppb	02:50:39
1	Tl 190.801†	-18.8	98.2	12.068 µg/L	12.068 ppb	02:50:59
1	U 409.014†	-269.8	5.3	0.3076 µg/L	0.3076 ppb	02:50:39
1	V 292.402†	393.5	-18.0	-0.0903 µg/L	-0.0903 ppb	02:50:39
1	Zn 213.857†	640.1	63.2	0.3564 µg/L	0.3564 ppb	02:50:59
2	Sc RADIAL	142448.9	142448.9	97.6 %		02:49:51
2	Al 396.153Radial†	-80.1	-18.9	-3.4987 µg/L	-3.4987 ppb	02:50:11
2	Ca 317.933Radial†	604.0	58.1	3.2391 µg/L	3.2391 ppb	02:50:11
2	Fe 238.204 Radial†	136.7	-8.1	-0.4962 µg/L	-0.4962 ppb	02:50:11
2	K 766.490 Radial†	1971.5	474.9	173.64 µg/L	173.64 ppb	02:49:51
2	Mg 279.077 IEC†	181.3	-4.9	-1.8347 µg/L	-1.8347 ppb	02:50:11
2	Na 589.592 Radial†	11007.1	9985.3	1364.0 µg/L	1364.0 ppb	02:49:51
2	Sr 421.552†	-296.7	-168.7	-0.3506 µg/L	-0.3506 ppb	02:49:51
2	Sc 361.383	1743448.5	1743448.5	101.47 %		02:51:01
2	Y 371.029	1039864.1	1039864.1	101.28 %		02:51:01
2	Ag 328.068†	4186.0	34.1	0.0996 µg/L	0.0996 ppb	02:51:04
2	As 188.979†	-18.5	2.2	0.6509 µg/L	0.6509 ppb	02:51:24
2	B 249.677†	3669.2	110.2	1.6256 µg/L	1.6256 ppb	02:51:04
2	Ba 233.527†	-125.5	12.1	0.0485 µg/L	0.0485 ppb	02:51:24
2	Be 313.107†	-764.5	311.2	0.0800 µg/L	0.0800 ppb	02:51:04
2	Cd 226.502†	-111.8	8.0	0.0499 µg/L	0.0499 ppb	02:51:24
2	Co 228.616†	-195.5	-2.4	-0.0291 µg/L	-0.0291 ppb	02:51:24
2	Cr 267.716†	178.0	-3.1	-0.0126 µg/L	-0.0126 ppb	02:51:24
2	Cu 324.752†	3031.4	15.3	0.0464 µg/L	0.0464 ppb	02:51:04
2	Mn 257.610†	270.9	29.7	0.0368 µg/L	0.0368 ppb	02:51:24
2	Mo 202.031†	-18.7	1.6	0.0481 µg/L	0.0481 ppb	02:51:24
2	Ni 231.604†	-92.0	-14.2	-0.1629 µg/L	-0.1629 ppb	02:51:24
2	P 214.914†	-21.9	-3.6	-0.7804 µg/L	-0.7804 ppb	02:51:24
2	Pb 220.353†	94.2	6.4	0.3702 µg/L	0.3702 ppb	02:51:24

2	S 181.975 Axial†	418.8	307.7	228.47 µg/L	228.47 ppb	02:51:24
2	Sb 206.836†	71.8	-10.1	-1.1978 µg/L	-1.1978 ppb	02:51:24
2	Se 196.026†	10.4	-5.0	-1.84 µg/L	-1.84 ppb	02:51:24
2	SiO2†	1814.8	13.2	1.2903 µg/L	1.2903 ppb	02:51:24
2	Si 251.611†	895.5	45.9	0.6794 µg/L	0.6794 ppb	02:51:04
2	Sn 189.927†	-7.6	-6.4	-0.3979 µg/L	-0.3979 ppb	02:51:24
2	Ti 334.940†	806.3	-157.9	-0.1409 µg/L	-0.1409 ppb	02:51:04
2	Tl 190.801†	-3.5	113.3	13.912 µg/L	13.912 ppb	02:51:24
2	U 409.014†	-544.2	-266.5	-15.615 µg/L	-15.615 ppb	02:51:04
2	V 292.402†	282.2	-125.7	-0.6229 µg/L	-0.6229 ppb	02:51:04
2	Zn 213.857†	590.2	17.3	0.0980 µg/L	0.0980 ppb	02:51:24
3	Sc RADIAL	145771.5	145771.5	99.9 %		02:50:13
3	Al 396.153Radial†	-87.3	-24.2	-4.4567 µg/L	-4.4567 ppb	02:50:33
3	Ca 317.933Radial†	622.8	62.9	3.5055 µg/L	3.5055 ppb	02:50:33
3	Fe 238.204 Radial†	153.4	5.5	0.3375 µg/L	0.3375 ppb	02:50:33
3	K 766.490 Radial†	2120.5	578.0	211.41 µg/L	211.41 ppb	02:50:13
3	Mg 279.077 IEC†	197.6	7.1	2.6404 µg/L	2.6404 ppb	02:50:33
3	Na 589.592 Radial†	10446.1	9166.6	1252.1 µg/L	1252.1 ppb	02:50:13
3	Sr 421.552†	-272.9	-137.9	-0.2867 µg/L	-0.2867 ppb	02:50:13
3	Sc 361.383	1749649.9	1749649.9	101.83 %		02:51:26
3	Y 371.029	1043874.1	1043874.1	101.67 %		02:51:26
3	Ag 328.068†	3981.6	-181.3	-0.6631 µg/L	-0.6631 ppb	02:51:28
3	As 188.979†	-17.4	3.3	0.9850 µg/L	0.9850 ppb	02:51:48
3	B 249.677†	3525.0	-44.2	-0.6527 µg/L	-0.6527 ppb	02:51:28
3	Ba 233.527†	-136.8	1.5	0.0057 µg/L	0.0057 ppb	02:51:48
3	Be 313.107†	-989.5	93.0	0.0288 µg/L	0.0288 ppb	02:51:28
3	Cd 226.502†	-106.6	13.6	0.0847 µg/L	0.0847 ppb	02:51:48
3	Co 228.616†	-172.6	20.8	0.2569 µg/L	0.2569 ppb	02:51:48
3	Cr 267.716†	208.9	26.6	0.1986 µg/L	0.1986 ppb	02:51:48
3	Cu 324.752†	2628.4	-391.1	-1.5098 µg/L	-1.5098 ppb	02:51:28
3	Mn 257.610†	274.5	32.3	0.0398 µg/L	0.0398 ppb	02:51:48
3	Mo 202.031†	-38.7	-17.9	-0.5273 µg/L	-0.5273 ppb	02:51:48
3	Ni 231.604†	-80.2	-2.2	-0.0256 µg/L	-0.0256 ppb	02:51:48
3	P 214.914†	-9.6	8.5	1.8368 µg/L	1.8368 ppb	02:51:48
3	Pb 220.353†	66.4	-21.2	-1.1913 µg/L	-1.1913 ppb	02:51:48
3	S 181.975 Axial†	404.6	292.3	217.02 µg/L	217.02 ppb	02:51:48
3	Sb 206.836†	87.9	5.5	0.6461 µg/L	0.6461 ppb	02:51:48
3	Se 196.026†	5.0	-10.4	-3.73 µg/L	-3.73 ppb	02:51:48
3	SiO2†	1783.0	-24.4	-2.3667 µg/L	-2.3667 ppb	02:51:48
3	Si 251.611†	951.4	97.7	1.4500 µg/L	1.4500 ppb	02:51:28
3	Sn 189.927†	-5.8	-4.6	-0.2885 µg/L	-0.2885 ppb	02:51:48
3	Ti 334.940†	790.5	-176.3	-0.1697 µg/L	-0.1697 ppb	02:51:28
3	Tl 190.801†	34.7	150.7	18.513 µg/L	18.513 ppb	02:51:48
3	U 409.014†	-71.7	199.5	11.634 µg/L	11.634 ppb	02:51:28
3	V 292.402†	308.0	-101.3	-0.4907 µg/L	-0.4907 ppb	02:51:28
3	Zn 213.857†	628.3	52.6	0.2965 µg/L	0.2965 ppb	02:51:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1748475.0	101.76 %	0.265			0.26%
Sc RADIAL	143835.3	98.6 %	1.18			1.20%
Y 371.029	1042752.8	101.56 %	0.246			0.24%
Ag 328.068†	-110.4	-0.4153 µg/L	0.44602	-0.4153 ppb	0.44602	107.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-17.6	-3.2537 µg/L	1.34234	-3.2537 ppb	1.34234	41.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.0	1.2109 µg/L	0.70088	1.2109 ppb	0.70088	57.88%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	38.0	0.5590 µg/L	1.14606	0.5590 ppb	1.14606	205.01%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.5	0.0379 µg/L	0.02832	0.0379 ppb	0.02832	74.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	218.4	0.0591 µg/L	0.02684	0.0591 ppb	0.02684	45.41%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	55.5	3.0931 µg/L	0.50159	3.0931 ppb	0.50159	16.22%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	19.1	0.1194 µg/L	0.09196	0.1194 ppb	0.09196	77.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	16.4	0.2027 µg/L	0.21008	0.2027 ppb	0.21008	103.62%

Cr 267.716†	9.4	0.0741 µg/L	0.11055	0.0741 ppb	0.11055	149.18%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cu 324.752†	-139.3	-0.5421 µg/L	0.84454	-0.5421 ppb	0.84454	155.78%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.4	-0.0276 µg/L	0.42641	-0.0276 ppb	0.42641	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	492.7	180.17 µg/L	28.541	180.17 ppb	28.541	15.84%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-6.1	-2.2783 µg/L	5.15483	-2.2783 ppb	5.15483	226.26%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	30.3	0.0376 µg/L	0.00196	0.0376 ppb	0.00196	5.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-8.6	-0.2534 µg/L	0.28865	-0.2534 ppb	0.28865	113.92%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	9762.9	1333.6 µg/L	71.33	1333.6 ppb	71.33	5.35%
QC value greater than the upper limit for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-11.2	-0.1284 µg/L	0.09057	-0.1284 ppb	0.09057	70.55%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.0	-1.0588 µg/L	3.04432	-1.0588 ppb	3.04432	287.53%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-9.0	-0.5043 µg/L	0.79745	-0.5043 ppb	0.79745	158.14%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	306.7	227.76 µg/L	10.409	227.76 ppb	10.409	4.57%
QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	0.4	0.0372 µg/L	1.06958	0.0372 ppb	1.06958	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.3	-1.56 µg/L	2.327	-1.56 ppb	2.327	149.47%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-11.7	-1.1297 µg/L	2.09595	-1.1297 ppb	2.09595	185.53%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	74.2	1.0978 µg/L	0.38957	1.0978 ppb	0.38957	35.49%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-2.1	-0.1327 µg/L	0.36862	-0.1327 ppb	0.36862	277.72%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-122.9	-0.2555 µg/L	0.11395	-0.2555 ppb	0.11395	44.59%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-68.9	-0.0636 µg/L	0.15935	-0.0636 ppb	0.15935	250.39%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	120.7	14.831 µg/L	3.3194	14.831 ppb	3.3194	22.38%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-20.6	-1.2243 µg/L	13.68877	-1.2243 ppb	13.68877	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-81.6	-0.4013 µg/L	0.27732	-0.4013 ppb	0.27732	69.10%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	44.4	0.2503 µg/L	0.13524	0.2503 ppb	0.13524	54.03%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 212

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 3:13:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141609.9	141609.9	97.0 %		03:13:57
1	Al 396.153Radial†	25900.5	26753.8	4938.0 µg/L	4938.0 ppb	03:13:57
1	Ca 317.933Radial†	84686.8	86709.6	4830.1 µg/L	4830.1 ppb	03:13:57
1	Fe 238.204 Radial†	75392.8	77544.5	4779.4 µg/L	4779.4 ppb	03:13:57
1	K 766.490 Radial†	14527.6	13426.0	4911.4 µg/L	4911.4 ppb	03:13:57
1	Mg 279.077 IEC†	12920.6	13124.0	4897.4 µg/L	4897.4 ppb	03:13:57
1	Na 589.592 Radial†	74132.9	75103.5	10256 µg/L	10256 ppb	03:13:57
1	Sr 421.552†	227259.6	234327.5	487.12 µg/L	487.12 ppb	03:13:55
1	Sc 361.383	1724519.1	1724519.1	100.37 %		03:14:24
1	Y 371.029	1016919.2	1016919.2	99.048 %		03:14:24
1	Ag 328.068†	131759.4	127186.5	476.91 µg/L	476.91 ppb	03:14:24
1	As 188.979†	1617.4	1631.9	500.43 µg/L	500.43 ppb	03:14:44
1	B 249.677†	35573.7	31937.8	469.37 µg/L	469.37 ppb	03:14:24
1	Ba 233.527†	118495.9	118198.7	476.69 µg/L	476.69 ppb	03:14:24
1	Be 313.107†	1772888.7	1767475.2	481.39 µg/L	481.39 ppb	03:14:24
1	Cd 226.502†	76042.0	75882.4	473.69 µg/L	473.69 ppb	03:14:24
1	Co 228.616†	38682.7	38731.7	478.14 µg/L	478.14 ppb	03:14:24
1	Cr 267.716†	60883.2	60482.1	473.56 µg/L	473.56 ppb	03:14:24
1	Cu 324.752†	125481.8	122051.1	475.79 µg/L	475.79 ppb	03:14:24
1	Mn 257.610†	388799.5	387141.5	478.80 µg/L	478.80 ppb	03:14:24
1	Mo 202.031†	16283.3	16243.8	477.82 µg/L	477.82 ppb	03:14:44
1	Ni 231.604†	41425.2	41350.3	476.12 µg/L	476.12 ppb	03:14:24
1	P 214.914†	11209.4	11186.4	2384.4 µg/L	2384.4 ppb	03:14:44
1	Pb 220.353†	8704.1	8585.9	480.80 µg/L	480.80 ppb	03:14:44
1	S 181.975 Axial†	1493.0	1382.4	1030.6 µg/L	1030.6 ppb	03:14:44
1	Sb 206.836†	4161.7	4065.7	484.45 µg/L	484.45 ppb	03:14:44
1	Se 196.026†	1343.1	1322.9	480 µg/L	480 ppb	03:14:44
1	SiO2†	54169.2	52195.9	5081.2 µg/L	5081.2 ppb	03:14:24
1	Si 251.611†	163798.3	162363.2	2384.2 µg/L	2384.2 ppb	03:14:24
1	Sn 189.927†	7708.8	7681.8	480.49 µg/L	480.49 ppb	03:14:44
1	Ti 334.940†	514144.0	511312.8	477.09 µg/L	477.09 ppb	03:14:24
1	Tl 190.801†	3782.7	3885.5	484.56 µg/L	484.56 ppb	03:14:44
1	U 409.014†	7391.9	7634.8	475.26 µg/L	475.26 ppb	03:14:24
1	V 292.402†	97528.5	96768.3	478.40 µg/L	478.40 ppb	03:14:24
1	Zn 213.857†	85289.7	84413.7	470.45 µg/L	470.45 ppb	03:14:24
2	Sc RADIAL	143935.9	143935.9	98.6 %		03:14:01
2	Al 396.153Radial†	26331.1	26759.0	4939.2 µg/L	4939.2 ppb	03:14:01
2	Ca 317.933Radial†	86594.3	87233.3	4859.2 µg/L	4859.2 ppb	03:14:01
2	Fe 238.204 Radial†	76913.8	77831.2	4797.0 µg/L	4797.0 ppb	03:14:01
2	K 766.490 Radial†	14816.5	13476.9	4930.0 µg/L	4930.0 ppb	03:14:01
2	Mg 279.077 IEC†	13220.5	13212.9	4930.4 µg/L	4930.4 ppb	03:14:01
2	Na 589.592 Radial†	75550.6	75306.4	10283 µg/L	10283 ppb	03:14:01
2	Sr 421.552†	228497.8	231798.4	481.86 µg/L	481.86 ppb	03:13:59
2	Sc 361.383	1738137.6	1738137.6	101.16 %		03:14:47
2	Y 371.029	1025437.7	1025437.7	99.878 %		03:14:47
2	Ag 328.068†	132376.0	126767.5	475.37 µg/L	475.37 ppb	03:14:47
2	As 188.979†	1591.5	1593.6	488.85 µg/L	488.85 ppb	03:15:07
2	B 249.677†	35851.5	31934.8	469.33 µg/L	469.33 ppb	03:14:47
2	Ba 233.527†	119360.5	118128.5	476.41 µg/L	476.41 ppb	03:14:47
2	Be 313.107†	1783349.2	1763975.7	480.43 µg/L	480.43 ppb	03:14:47
2	Cd 226.502†	76462.8	75704.7	472.58 µg/L	472.58 ppb	03:14:47
2	Co 228.616†	38867.0	38611.9	476.66 µg/L	476.66 ppb	03:14:47
2	Cr 267.716†	61200.5	60320.6	472.29 µg/L	472.29 ppb	03:14:47
2	Cu 324.752†	126080.6	121663.5	474.29 µg/L	474.29 ppb	03:14:47
2	Mn 257.610†	391256.7	386535.4	478.05 µg/L	478.05 ppb	03:14:47
2	Mo 202.031†	16230.4	16064.5	472.55 µg/L	472.55 ppb	03:15:07
2	Ni 231.604†	41463.0	41064.4	472.83 µg/L	472.83 ppb	03:14:47
2	P 214.914†	11143.5	11033.8	2351.8 µg/L	2351.8 ppb	03:15:07
2	Pb 220.353†	8645.1	8459.7	473.74 µg/L	473.74 ppb	03:15:07

2	S 181.975 Axial†	1480.0	1357.9	1012.4 µg/L	1012.4 ppb	03:15:07
2	Sb 206.836†	4116.5	3988.5	475.20 µg/L	475.20 ppb	03:15:07
2	Se 196.026†	1336.1	1305.6	474 µg/L	474 ppb	03:15:07
2	SiO2†	54693.6	52291.4	5090.8 µg/L	5090.8 ppb	03:14:47
2	Si 251.611†	165270.6	162539.9	2386.9 µg/L	2386.9 ppb	03:14:47
2	Sn 189.927†	7648.8	7562.3	473.03 µg/L	473.03 ppb	03:15:07
2	Ti 334.940†	517308.4	510427.2	476.26 µg/L	476.26 ppb	03:14:47
2	Tl 190.801†	3752.9	3826.6	477.32 µg/L	477.32 ppb	03:15:07
2	U 409.014†	7552.0	7735.3	481.16 µg/L	481.16 ppb	03:14:47
2	V 292.402†	98376.4	96845.2	478.71 µg/L	478.71 ppb	03:14:47
2	Zn 213.857†	86281.1	84727.8	472.24 µg/L	472.24 ppb	03:14:47
3	Sc RADIAL	140443.4	140443.4	96.2 %		03:14:05
3	Al 396.153Radial†	25676.7	26743.0	4936.2 µg/L	4936.2 ppb	03:14:05
3	Ca 317.933Radial†	83864.4	86579.9	4822.8 µg/L	4822.8 ppb	03:14:05
3	Fe 238.204 Radial†	74604.1	77370.4	4768.6 µg/L	4768.6 ppb	03:14:05
3	K 766.490 Radial†	14449.6	13469.3	4927.2 µg/L	4927.2 ppb	03:14:05
3	Mg 279.077 IEC†	12779.0	13087.5	4883.7 µg/L	4883.7 ppb	03:14:05
3	Na 589.592 Radial†	73771.5	75362.6	10291 µg/L	10291 ppb	03:14:05
3	Sr 421.552†	229430.1	238528.0	495.85 µg/L	495.85 ppb	03:14:03
3	Sc 361.383	1744274.4	1744274.4	101.52 %		03:15:10
3	Y 371.029	1028879.6	1028879.6	100.21 %		03:15:10
3	Ag 328.068†	133589.1	127502.1	478.11 µg/L	478.11 ppb	03:15:10
3	As 188.979†	1613.5	1609.8	493.74 µg/L	493.74 ppb	03:15:30
3	B 249.677†	36166.0	32119.8	472.05 µg/L	472.05 ppb	03:15:10
3	Ba 233.527†	120009.6	118352.7	477.31 µg/L	477.31 ppb	03:15:10
3	Be 313.107†	1795578.5	1769820.0	482.02 µg/L	482.02 ppb	03:15:10
3	Cd 226.502†	77434.5	76396.0	476.90 µg/L	476.90 ppb	03:15:10
3	Co 228.616†	39130.1	38735.9	478.19 µg/L	478.19 ppb	03:15:10
3	Cr 267.716†	61711.0	60610.6	474.57 µg/L	474.57 ppb	03:15:10
3	Cu 324.752†	126753.5	121887.8	475.15 µg/L	475.15 ppb	03:15:10
3	Mn 257.610†	393731.0	387612.0	479.39 µg/L	479.39 ppb	03:15:10
3	Mo 202.031†	16276.7	16053.6	472.23 µg/L	472.23 ppb	03:15:30
3	Ni 231.604†	41761.2	41213.9	474.55 µg/L	474.55 ppb	03:15:10
3	P 214.914†	11200.9	11051.6	2355.6 µg/L	2355.6 ppb	03:15:30
3	Pb 220.353†	8718.4	8501.8	476.10 µg/L	476.10 ppb	03:15:30
3	S 181.975 Axial†	1486.9	1359.7	1013.6 µg/L	1013.6 ppb	03:15:30
3	Sb 206.836†	4107.0	3964.8	472.37 µg/L	472.37 ppb	03:15:30
3	Se 196.026†	1339.3	1304.0	474 µg/L	474 ppb	03:15:30
3	SiO2†	55056.5	52458.7	5107.1 µg/L	5107.1 ppb	03:15:10
3	Si 251.611†	166125.1	162806.9	2390.8 µg/L	2390.8 ppb	03:15:10
3	Sn 189.927†	7727.3	7613.0	476.20 µg/L	476.20 ppb	03:15:30
3	Ti 334.940†	520001.8	511281.2	477.06 µg/L	477.06 ppb	03:15:10
3	Tl 190.801†	3778.8	3839.0	478.87 µg/L	478.87 ppb	03:15:30
3	U 409.014†	7370.2	7530.0	469.31 µg/L	469.31 ppb	03:15:10
3	V 292.402†	99255.0	97368.5	481.27 µg/L	481.27 ppb	03:15:10
3	Zn 213.857†	86767.5	84906.9	473.24 µg/L	473.24 ppb	03:15:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735643.7	101.01 %	0.588			0.58%
Sc RADIAL	141996.4	97.3 %	1.22			1.25%
Y 371.029	1023745.5	99.713 %	0.5997			0.60%
Ag 328.068†	127152.0	476.79 µg/L	1.372	476.79 ppb	1.372	0.29%
QC value within limits for Ag 328.068 Recovery = 95.36%						
Al 396.153Radial†	26751.9	4937.8 µg/L	1.49	4937.8 ppb	1.49	0.03%
QC value within limits for Al 396.153Radial Recovery = 98.76%						
As 188.979†	1611.8	494.34 µg/L	5.814	494.34 ppb	5.814	1.18%
QC value within limits for As 188.979 Recovery = 98.87%						
B 249.677†	31997.5	470.25 µg/L	1.562	470.25 ppb	1.562	0.33%
QC value within limits for B 249.677 Recovery = 94.05%						
Ba 233.527†	118226.6	476.81 µg/L	0.463	476.81 ppb	0.463	0.10%
QC value within limits for Ba 233.527 Recovery = 95.36%						
Be 313.107†	1767090.3	481.28 µg/L	0.799	481.28 ppb	0.799	0.17%
QC value within limits for Be 313.107 Recovery = 96.26%						
Ca 317.933Radial†	86840.9	4837.4 µg/L	19.27	4837.4 ppb	19.27	0.40%
QC value within limits for Ca 317.933Radial Recovery = 96.75%						
Cd 226.502†	75994.4	474.39 µg/L	2.244	474.39 ppb	2.244	0.47%
QC value within limits for Cd 226.502 Recovery = 94.88%						
Co 228.616†	38693.1	477.67 µg/L	0.870	477.67 ppb	0.870	0.18%

Cr	267.716†	60471.1	473.47 µg/L	1.143	473.47 ppb	1.143	0.24%
Cu	324.752†	121867.4	475.08 µg/L	0.752	475.08 ppb	0.752	0.16%
Fe	238.204 Radial†	77582.0	4781.7 µg/L	14.34	4781.7 ppb	14.34	0.30%
K	766.490 Radial†	13457.4	4922.9 µg/L	10.06	4922.9 ppb	10.06	0.20%
Mg	279.077 IEC†	13141.5	4903.8 µg/L	24.00	4903.8 ppb	24.00	0.49%
Mn	257.610†	387096.3	478.75 µg/L	0.669	478.75 ppb	0.669	0.14%
Mo	202.031†	16120.7	474.20 µg/L	3.139	474.20 ppb	3.139	0.66%
Na	589.592 Radial†	75257.5	10277 µg/L	18.6	10277 ppb	18.6	0.18%
Ni	231.604†	41209.5	474.50 µg/L	1.647	474.50 ppb	1.647	0.35%
P	214.914†	11090.6	2363.9 µg/L	17.85	2363.9 ppb	17.85	0.75%
Pb	220.353†	8515.8	476.88 µg/L	3.596	476.88 ppb	3.596	0.75%
S	181.975 Axial†	1366.7	1018.9 µg/L	10.18	1018.9 ppb	10.18	1.00%
Sb	206.836†	4006.3	477.34 µg/L	6.318	477.34 ppb	6.318	1.32%
Se	196.026†	1310.8	476 µg/L	3.8	476 ppb	3.8	0.80%
SiO2†		52315.3	5093.0 µg/L	13.10	5093.0 ppb	13.10	0.26%
Si	251.611†	162570.0	2387.3 µg/L	3.34	2387.3 ppb	3.34	0.14%
Sn	189.927†	7619.0	476.57 µg/L	3.740	476.57 ppb	3.740	0.78%
Sr	421.552†	234884.6	488.27 µg/L	7.067	488.27 ppb	7.067	1.45%
Ti	334.940†	511007.1	476.80 µg/L	0.473	476.80 ppb	0.473	0.10%
Tl	190.801†	3850.4	480.25 µg/L	3.815	480.25 ppb	3.815	0.79%
U	409.014†	7633.4	475.24 µg/L	5.925	475.24 ppb	5.925	1.25%
V	292.402†	96994.0	479.46 µg/L	1.574	479.46 ppb	1.574	0.33%
Zn	213.857†	84682.8	471.98 µg/L	1.410	471.98 ppb	1.410	0.30%

QC value within limits for Co 228.616 Recovery = 95.53%

QC value within limits for Cr 267.716 Recovery = 94.69%

QC value within limits for Cu 324.752 Recovery = 95.02%

QC value within limits for Fe 238.204 Radial Recovery = 95.63%

QC value within limits for K 766.490 Radial Recovery = 98.46%

QC value within limits for Mg 279.077 IEC Recovery = 98.08%

QC value within limits for Mn 257.610 Radial Recovery = 95.75%

QC value within limits for Mo 202.031 Recovery = 94.84%

QC value within limits for Na 589.592 Radial Recovery = 102.77%

QC value within limits for Ni 231.604 Recovery = 94.90%

QC value within limits for P 214.914 Recovery = 94.56%

QC value within limits for Pb 220.353 Recovery = 95.38%

QC value within limits for S 181.975 Axial Recovery = 101.89%

QC value within limits for Sb 206.836 Recovery = 95.47%

QC value within limits for Se 196.026 Recovery = 95.20%

QC value within limits for SiO2 Recovery = 95.24%

QC value within limits for Si 251.611 Recovery = 95.49%

QC value within limits for Sn 189.927 Recovery = 95.31%

QC value within limits for Sr 421.552 Recovery = 97.65%

QC value within limits for Ti 334.940 Recovery = 95.36%

QC value within limits for Tl 190.801 Recovery = 96.05%

QC value within limits for U 409.014 Recovery = 95.05%

QC value within limits for V 292.402 Recovery = 95.89%

QC value within limits for Zn 213.857 Recovery = 94.40%

All analyte(s) passed QC.

Sequence No.: 213

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 3:15:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146013.2	146013.2	100 %		03:16:07
1	Al 396.153Radial†	-89.2	-25.9	-4.8031 µg/L	-4.8031 ppb	03:16:27
1	Ca 317.933Radial†	761.2	200.2	11.150 µg/L	11.150 ppb	03:16:27
1	Fe 238.204 Radial†	162.9	14.7	0.9060 µg/L	0.9060 ppb	03:16:27
1	K 766.490 Radial†	1654.3	108.5	39.646 µg/L	39.646 ppb	03:16:07
1	Mg 279.077 IEC†	192.8	2.0	0.7445 µg/L	0.7445 ppb	03:16:27
1	Na 589.592 Radial†	5426.7	4132.8	564.56 µg/L	564.56 ppb	03:16:07
1	Sr 421.552†	-218.9	-83.4	-0.1736 µg/L	-0.1736 ppb	03:16:07
1	Sc 361.383	1755516.5	1755516.5	102.17 %		03:17:15
1	Y 371.029	1046303.4	1046303.4	101.91 %		03:17:15
1	Ag 328.068†	4349.4	165.6	0.6100 µg/L	0.6100 ppb	03:17:17
1	As 188.979†	-32.6	-11.5	-3.4798 µg/L	-3.4798 ppb	03:17:37
1	B 249.677†	3627.4	44.4	0.6533 µg/L	0.6533 ppb	03:17:17
1	Ba 233.527†	-142.6	-3.7	-0.0155 µg/L	-0.0155 ppb	03:17:37
1	Be 313.107†	-765.9	315.0	0.0874 µg/L	0.0874 ppb	03:17:17
1	Cd 226.502†	-98.0	22.3	0.1390 µg/L	0.1390 ppb	03:17:37
1	Co 228.616†	-150.7	42.8	0.5276 µg/L	0.5276 ppb	03:17:37
1	Cr 267.716†	198.5	15.7	0.1183 µg/L	0.1183 ppb	03:17:37
1	Cu 324.752†	3047.8	10.9	0.0471 µg/L	0.0471 ppb	03:17:17
1	Mn 257.610†	326.4	82.2	0.1017 µg/L	0.1017 ppb	03:17:37
1	Mo 202.031†	-26.4	-5.8	-0.1704 µg/L	-0.1704 ppb	03:17:37
1	Ni 231.604†	-110.3	-31.4	-0.3616 µg/L	-0.3616 ppb	03:17:37
1	P 214.914†	-26.0	-7.5	-1.5967 µg/L	-1.5967 ppb	03:17:37
1	Pb 220.353†	82.4	-5.8	-0.3262 µg/L	-0.3262 ppb	03:17:37
1	S 181.975 Axial†	207.3	97.8	72.634 µg/L	72.634 ppb	03:17:37
1	Sb 206.836†	77.7	-4.8	-0.5732 µg/L	-0.5732 ppb	03:17:37
1	Se 196.026†	14.9	-0.7	-0.237 µg/L	-0.237 ppb	03:17:37
1	SiO2†	1831.7	17.5	1.7076 µg/L	1.7076 ppb	03:17:37
1	Si 251.611†	802.8	-50.8	-0.7486 µg/L	-0.7486 ppb	03:17:17
1	Sn 189.927†	3.5	4.5	0.2809 µg/L	0.2809 ppb	03:17:37
1	Ti 334.940†	712.4	-255.3	-0.2405 µg/L	-0.2405 ppb	03:17:17
1	Tl 190.801†	-96.0	22.8	2.7858 µg/L	2.7858 ppb	03:17:37
1	U 409.014†	-181.9	91.8	5.3242 µg/L	5.3242 ppb	03:17:17
1	V 292.402†	247.6	-161.5	-0.7853 µg/L	-0.7853 ppb	03:17:17
1	Zn 213.857†	614.2	36.7	0.2080 µg/L	0.2080 ppb	03:17:37
2	Sc RADIAL	141829.3	141829.3	97.2 %		03:16:29
2	Al 396.153Radial†	-77.3	-16.3	-3.0254 µg/L	-3.0254 ppb	03:16:49
2	Ca 317.933Radial†	693.9	153.4	8.5423 µg/L	8.5423 ppb	03:16:49
2	Fe 238.204 Radial†	133.5	-10.7	-0.6592 µg/L	-0.6592 ppb	03:16:49
2	K 766.490 Radial†	1842.1	350.6	128.27 µg/L	128.27 ppb	03:16:29
2	Mg 279.077 IEC†	213.2	28.7	10.681 µg/L	10.681 ppb	03:16:49
2	Na 589.592 Radial†	5347.1	4210.9	575.15 µg/L	575.15 ppb	03:16:29
2	Sr 421.552†	-126.7	4.9	0.0101 µg/L	0.0101 ppb	03:16:29
2	Sc 361.383	1757358.9	1757358.9	102.28 %		03:17:39
2	Y 371.029	1047817.2	1047817.2	102.06 %		03:17:39
2	Ag 328.068†	4203.5	18.4	0.0721 µg/L	0.0721 ppb	03:17:42
2	As 188.979†	-7.7	12.8	3.8720 µg/L	3.8720 ppb	03:18:02
2	B 249.677†	3621.3	34.7	0.5123 µg/L	0.5123 ppb	03:17:42
2	Ba 233.527†	-113.1	25.3	0.1018 µg/L	0.1018 ppb	03:18:02
2	Be 313.107†	-827.3	255.9	0.0718 µg/L	0.0718 ppb	03:17:42
2	Cd 226.502†	-109.0	11.6	0.0724 µg/L	0.0724 ppb	03:18:02
2	Co 228.616†	-206.5	-11.6	-0.1430 µg/L	-0.1430 ppb	03:18:02
2	Cr 267.716†	179.5	-3.1	-0.0299 µg/L	-0.0299 ppb	03:18:02
2	Cu 324.752†	2992.6	-46.2	-0.1738 µg/L	-0.1738 ppb	03:17:42
2	Mn 257.610†	319.5	75.1	0.0925 µg/L	0.0925 ppb	03:18:02
2	Mo 202.031†	-17.2	3.2	0.0951 µg/L	0.0951 ppb	03:18:02
2	Ni 231.604†	-94.1	-15.5	-0.1782 µg/L	-0.1782 ppb	03:18:02
2	P 214.914†	-17.1	1.3	0.2745 µg/L	0.2745 ppb	03:18:02
2	Pb 220.353†	67.0	-20.9	-1.1697 µg/L	-1.1697 ppb	03:18:02

2	S 181.975 Axial†	199.8	90.3	67.037 µg/L	67.037 ppb	03:18:02
2	Sb 206.836†	85.0	2.3	0.2720 µg/L	0.2720 ppb	03:18:02
2	Se 196.026†	11.9	-3.7	-1.31 µg/L	-1.31 ppb	03:18:02
2	SiO2†	1802.0	-13.5	-1.3278 µg/L	-1.3278 ppb	03:18:02
2	Si 251.611†	853.5	-2.1	-0.0332 µg/L	-0.0332 ppb	03:17:42
2	Sn 189.927†	2.7	3.8	0.2351 µg/L	0.2351 ppb	03:18:02
2	Ti 334.940†	1024.2	48.8	0.0421 µg/L	0.0421 ppb	03:17:42
2	Tl 190.801†	-77.9	40.5	4.9714 µg/L	4.9714 ppb	03:18:02
2	U 409.014†	-154.4	118.9	6.9321 µg/L	6.9321 ppb	03:17:42
2	V 292.402†	333.3	-77.9	-0.3746 µg/L	-0.3746 ppb	03:17:42
2	Zn 213.857†	602.9	25.1	0.1422 µg/L	0.1422 ppb	03:18:02
3	Sc RADIAL	143153.6	143153.6	98.1 %		03:16:51
3	Al 396.153Radial†	-75.1	-13.4	-2.4564 µg/L	-2.4564 ppb	03:17:11
3	Ca 317.933Radial†	714.7	168.0	9.3594 µg/L	9.3594 ppb	03:17:11
3	Fe 238.204 Radial†	146.0	0.7	0.0418 µg/L	0.0418 ppb	03:17:11
3	K 766.490 Radial†	1703.0	191.3	69.930 µg/L	69.930 ppb	03:16:51
3	Mg 279.077 IEC†	177.5	-9.7	-3.6301 µg/L	-3.6301 ppb	03:17:11
3	Na 589.592 Radial†	5368.9	4182.2	571.28 µg/L	571.28 ppb	03:16:51
3	Sr 421.552†	-157.6	-25.4	-0.0529 µg/L	-0.0529 ppb	03:16:51
3	Sc 361.383	1742509.2	1742509.2	101.41 %		03:18:04
3	Y 371.029	1039202.5	1039202.5	101.22 %		03:18:04
3	Ag 328.068†	4021.3	-126.2	-0.4729 µg/L	-0.4729 ppb	03:18:06
3	As 188.979†	-17.7	2.9	0.8639 µg/L	0.8639 ppb	03:18:26
3	B 249.677†	3474.3	-80.0	-1.1801 µg/L	-1.1801 ppb	03:18:06
3	Ba 233.527†	-135.7	2.0	0.0074 µg/L	0.0074 ppb	03:18:26
3	Be 313.107†	-1003.8	74.8	0.0214 µg/L	0.0214 ppb	03:18:06
3	Cd 226.502†	-66.8	52.3	0.3269 µg/L	0.3269 ppb	03:18:26
3	Co 228.616†	-182.8	10.1	0.1245 µg/L	0.1245 ppb	03:18:26
3	Cr 267.716†	178.6	-2.5	-0.0225 µg/L	-0.0225 ppb	03:18:26
3	Cu 324.752†	2996.2	-17.8	-0.0665 µg/L	-0.0665 ppb	03:18:06
3	Mn 257.610†	303.6	62.1	0.0770 µg/L	0.0770 ppb	03:18:26
3	Mo 202.031†	-36.1	-15.6	-0.4577 µg/L	-0.4577 ppb	03:18:26
3	Ni 231.604†	-76.5	1.0	0.0119 µg/L	0.0119 ppb	03:18:26
3	P 214.914†	-26.3	-8.0	-1.7122 µg/L	-1.7122 ppb	03:18:26
3	Pb 220.353†	16.7	-69.9	-3.9062 µg/L	-3.9062 ppb	03:18:26
3	S 181.975 Axial†	199.1	91.3	67.801 µg/L	67.801 ppb	03:18:26
3	Sb 206.836†	75.6	-6.2	-0.7491 µg/L	-0.7491 ppb	03:18:26
3	Se 196.026†	21.3	5.7	2.07 µg/L	2.07 ppb	03:18:26
3	SiO2†	1802.2	1.7	0.1875 µg/L	0.1875 ppb	03:18:26
3	Si 251.611†	978.5	128.3	1.8991 µg/L	1.8991 ppb	03:18:06
3	Sn 189.927†	-5.2	-4.0	-0.2499 µg/L	-0.2499 ppb	03:18:26
3	Ti 334.940†	957.8	-8.1	-0.0083 µg/L	-0.0083 ppb	03:18:06
3	Tl 190.801†	-79.3	38.5	4.7229 µg/L	4.7229 ppb	03:18:26
3	U 409.014†	-215.9	57.0	3.2904 µg/L	3.2904 ppb	03:18:06
3	V 292.402†	245.3	-161.9	-0.7924 µg/L	-0.7924 ppb	03:18:06
3	Zn 213.857†	594.0	21.4	0.1198 µg/L	0.1198 ppb	03:18:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751794.9	101.95 %	0.471			0.46%
Sc RADIAL	143665.3	98.4 %	1.47			1.49%
Y 371.029	1044441.0	101.73 %	0.448			0.44%
Ag 328.068†	19.3	0.0697 µg/L	0.54146	0.0697 ppb	0.54146	776.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-18.5	-3.4283 µg/L	1.22412	-3.4283 ppb	1.22412	35.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.4187 µg/L	3.69605	0.4187 ppb	3.69605	882.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-0.3	-0.0048 µg/L	1.02026	-0.0048 ppb	1.02026	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.9	0.0312 µg/L	0.06218	0.0312 ppb	0.06218	199.06%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	215.2	0.0602 µg/L	0.03450	0.0602 ppb	0.03450	57.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	173.8	9.6837 µg/L	1.33353	9.6837 ppb	1.33353	13.77%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	28.7	0.1794 µg/L	0.13199	0.1794 ppb	0.13199	73.56%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	13.8	0.1697 µg/L	0.33756	0.1697 ppb	0.33756	198.94%

Cr 267.716†	3.4	0.0219 µg/L	0.08351	0.0219 ppb	0.08351	380.68%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cu 324.752†	-17.7	-0.0644 µg/L	0.11047	-0.0644 ppb	0.11047	171.52%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.6	0.0962 µg/L	0.78405	0.0962 ppb	0.78405	815.18%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	216.8	79.281 µg/L	45.0446	79.281 ppb	45.0446	56.82%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	7.0	2.5984 µg/L	7.33330	2.5984 ppb	7.33330	282.23%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	73.1	0.0904 µg/L	0.01246	0.0904 ppb	0.01246	13.78%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-6.0	-0.1777 µg/L	0.27645	-0.1777 ppb	0.27645	155.60%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	4175.3	570.33 µg/L	5.360	570.33 ppb	5.360	0.94%
QC value greater than the upper limit for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-15.3	-0.1760 µg/L	0.18678	-0.1760 ppb	0.18678	106.15%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.7	-1.0115 µg/L	1.11516	-1.0115 ppb	1.11516	110.25%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-32.2	-1.8007 µg/L	1.87157	-1.8007 ppb	1.87157	103.93%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	93.1	69.157 µg/L	3.0351	69.157 ppb	3.0351	4.39%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-2.9	-0.3501 µg/L	0.54589	-0.3501 ppb	0.54589	155.93%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.5	0.172 µg/L	1.7265	0.172 ppb	1.7265	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	1.9	0.1891 µg/L	1.51771	0.1891 ppb	1.51771	802.57%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	25.1	0.3725 µg/L	1.36967	0.3725 ppb	1.36967	367.74%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.4	0.0887 µg/L	0.29412	0.0887 ppb	0.29412	331.60%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-34.7	-0.0721 µg/L	0.09333	-0.0721 ppb	0.09333	129.40%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-71.5	-0.0689 µg/L	0.15073	-0.0689 ppb	0.15073	218.77%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	33.9	4.1600 µg/L	1.19656	4.1600 ppb	1.19656	28.76%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	89.3	5.1822 µg/L	1.82498	5.1822 ppb	1.82498	35.22%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-133.8	-0.6508 µg/L	0.23918	-0.6508 ppb	0.23918	36.75%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	27.7	0.1566 µg/L	0.04589	0.1566 ppb	0.04589	29.30%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

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Analysis Begun

Start Time: 4/1/2010 4:39:11

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/1/2010 4:39:15

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143287.7	143287.7	98.2 %		04:39:48
1	Al 396.153Radial†	26097.1	26641.5	4917.1 µg/L	4917.1 ppb	04:39:48
1	Ca 317.933Radial†	85617.7	86635.8	4826.0 µg/L	4826.0 ppb	04:39:48
1	Fe 238.204 Radial†	76602.7	77867.1	4799.3 µg/L	4799.3 ppb	04:39:48
1	K 766.490 Radial†	14400.8	13121.5	4800.0 µg/L	4800.0 ppb	04:39:48
1	Mg 279.077 IEC†	13124.0	13175.3	4916.5 µg/L	4916.5 ppb	04:39:48
1	Na 589.592 Radial†	72250.3	72291.7	9871.7 µg/L	9871.7 ppb	04:39:48
1	Sr 421.552†	228422.2	232769.3	483.88 µg/L	483.88 ppb	04:39:46
1	Sc 361.383	1726307.9	1726307.9	100.47 %		04:40:15
1	Y 371.029	1017838.7	1017838.7	99.138 %		04:40:15
1	Ag 328.068†	131459.1	126751.6	475.29 µg/L	475.29 ppb	04:40:15
1	As 188.979†	1615.7	1628.5	499.42 µg/L	499.42 ppb	04:40:35
1	B 249.677†	35679.8	32006.7	470.38 µg/L	470.38 ppb	04:40:15
1	Ba 233.527†	118546.6	118126.9	476.40 µg/L	476.40 ppb	04:40:15
1	Be 313.107†	1779033.6	1771761.0	482.55 µg/L	482.55 ppb	04:40:15
1	Cd 226.502†	76138.3	75899.6	473.80 µg/L	473.80 ppb	04:40:15
1	Co 228.616†	38752.8	38761.5	478.51 µg/L	478.51 ppb	04:40:15
1	Cr 267.716†	60891.1	60427.2	473.15 µg/L	473.15 ppb	04:40:15
1	Cu 324.752†	125489.3	121928.9	475.31 µg/L	475.31 ppb	04:40:15
1	Mn 257.610†	389201.0	387139.7	478.80 µg/L	478.80 ppb	04:40:15
1	Mo 202.031†	16304.5	16248.1	477.95 µg/L	477.95 ppb	04:40:35
1	Ni 231.604†	41496.9	41378.9	476.45 µg/L	476.45 ppb	04:40:15
1	P 214.914†	11260.2	11225.4	2392.7 µg/L	2392.7 ppb	04:40:35
1	Pb 220.353†	8733.2	8605.9	481.93 µg/L	481.93 ppb	04:40:35
1	S 181.975 Axial†	1431.2	1319.5	983.83 µg/L	983.83 ppb	04:40:35
1	Sb 206.836†	4117.8	4017.7	478.76 µg/L	478.76 ppb	04:40:35
1	Se 196.026†	1330.5	1309.0	475 µg/L	475 ppb	04:40:35
1	SiO2†	54190.9	52161.5	5077.8 µg/L	5077.8 ppb	04:40:15
1	Si 251.611†	164264.5	162658.1	2388.5 µg/L	2388.5 ppb	04:40:15
1	Sn 189.927†	7744.6	7709.4	482.20 µg/L	482.20 ppb	04:40:35
1	Ti 334.940†	513495.3	510136.3	476.00 µg/L	476.00 ppb	04:40:15
1	Tl 190.801†	3787.9	3886.8	484.71 µg/L	484.71 ppb	04:40:35
1	U 409.014†	7087.0	7323.7	457.14 µg/L	457.14 ppb	04:40:15
1	V 292.402†	97888.5	97025.9	479.64 µg/L	479.64 ppb	04:40:15
1	Zn 213.857†	85804.6	84838.1	472.83 µg/L	472.83 ppb	04:40:15
2	Sc RADIAL	142551.2	142551.2	97.7 %		04:39:52
2	Al 396.153Radial†	25918.7	26596.2	4908.8 µg/L	4908.8 ppb	04:39:52
2	Ca 317.933Radial†	85143.9	86601.2	4824.0 µg/L	4824.0 ppb	04:39:52
2	Fe 238.204 Radial†	76012.3	77665.7	4786.8 µg/L	4786.8 ppb	04:39:52
2	K 766.490 Radial†	14216.0	13008.1	4758.5 µg/L	4758.5 ppb	04:39:52
2	Mg 279.077 IEC†	13129.0	13249.5	4944.1 µg/L	4944.1 ppb	04:39:52
2	Na 589.592 Radial†	71942.3	72356.6	9880.6 µg/L	9880.6 ppb	04:39:52
2	Sr 421.552†	228072.6	233613.4	485.63 µg/L	485.63 ppb	04:39:50
2	Sc 361.383	1732601.9	1732601.9	100.84 %		04:40:38
2	Y 371.029	1021854.8	1021854.8	99.529 %		04:40:38
2	Ag 328.068†	132036.8	126849.2	475.64 µg/L	475.64 ppb	04:40:38
2	As 188.979†	1613.9	1620.8	497.09 µg/L	497.09 ppb	04:40:58

2	B 249.677†	35753.7	31951.0	469.56 µg/L	469.56 ppb	04:40:38
2	Ba 233.527†	119080.4	118227.7	476.81 µg/L	476.81 ppb	04:40:38
2	Be 313.107†	1784759.1	1771006.5	482.34 µg/L	482.34 ppb	04:40:38
2	Cd 226.502†	76654.3	76136.1	475.28 µg/L	475.28 ppb	04:40:38
2	Co 228.616†	38853.1	38720.8	478.01 µg/L	478.01 ppb	04:40:38
2	Cr 267.716†	61138.8	60452.7	473.35 µg/L	473.35 ppb	04:40:38
2	Cu 324.752†	125614.8	121599.7	474.02 µg/L	474.02 ppb	04:40:38
2	Mn 257.610†	390618.9	387138.6	478.80 µg/L	478.80 ppb	04:40:38
2	Mo 202.031†	16345.0	16229.4	477.40 µg/L	477.40 ppb	04:40:58
2	Ni 231.604†	41628.9	41359.8	476.23 µg/L	476.23 ppb	04:40:38
2	P 214.914†	11287.1	11211.3	2389.8 µg/L	2389.8 ppb	04:40:58
2	Pb 220.353†	8756.9	8597.8	481.48 µg/L	481.48 ppb	04:40:58
2	S 181.975 Axial†	1433.6	1316.6	981.73 µg/L	981.73 ppb	04:40:58
2	Sb 206.836†	4163.7	4048.4	482.39 µg/L	482.39 ppb	04:40:58
2	Se 196.026†	1356.8	1330.3	483 µg/L	483 ppb	04:40:58
2	SiO2†	54513.7	52285.8	5090.0 µg/L	5090.0 ppb	04:40:38
2	Si 251.611†	164749.7	162545.4	2386.9 µg/L	2386.9 ppb	04:40:38
2	Sn 189.927†	7762.2	7698.9	481.55 µg/L	481.55 ppb	04:40:58
2	Ti 334.940†	515261.7	510031.4	475.90 µg/L	475.90 ppb	04:40:38
2	Tl 190.801†	3793.6	3878.7	483.72 µg/L	483.72 ppb	04:40:58
2	U 409.014†	6995.8	7207.6	450.31 µg/L	450.31 ppb	04:40:38
2	V 292.402†	98077.2	96859.1	478.82 µg/L	478.82 ppb	04:40:38
2	Zn 213.857†	86253.0	84972.5	473.59 µg/L	473.59 ppb	04:40:38
3	Sc RADIAL	145083.0	145083.0	99.4 %		04:39:56
3	Al 396.153Radial†	26230.8	26447.1	4880.9 µg/L	4880.9 ppb	04:39:56
3	Ca 317.933Radial†	86647.7	86592.8	4823.6 µg/L	4823.6 ppb	04:39:56
3	Fe 238.204 Radial†	77399.8	77703.5	4789.2 µg/L	4789.2 ppb	04:39:56
3	K 766.490 Radial†	14738.6	13279.9	4858.0 µg/L	4858.0 ppb	04:39:56
3	Mg 279.077 IEC†	13305.7	13192.7	4923.1 µg/L	4923.1 ppb	04:39:56
3	Na 589.592 Radial†	73184.6	72321.0	9875.6 µg/L	9875.6 ppb	04:39:56
3	Sr 421.552†	226923.1	228382.9	474.76 µg/L	474.76 ppb	04:39:54
3	Sc 361.383	1715600.7	1715600.7	99.848 %		04:41:01
3	Y 371.029	1011465.9	1011465.9	98.517 %		04:41:01
3	Ag 328.068†	131101.9	127210.5	477.01 µg/L	477.01 ppb	04:41:01
3	As 188.979†	1621.5	1644.3	504.20 µg/L	504.20 ppb	04:41:21
3	B 249.677†	35572.5	32120.8	472.07 µg/L	472.07 ppb	04:41:01
3	Ba 233.527†	117882.9	118198.6	476.69 µg/L	476.69 ppb	04:41:01
3	Be 313.107†	1768142.0	1771903.7	482.59 µg/L	482.59 ppb	04:41:01
3	Cd 226.502†	76042.9	76277.0	476.16 µg/L	476.16 ppb	04:41:01
3	Co 228.616†	38526.8	38775.8	478.69 µg/L	478.69 ppb	04:41:01
3	Cr 267.716†	60518.3	60432.1	473.17 µg/L	473.17 ppb	04:41:01
3	Cu 324.752†	124833.7	122051.9	475.80 µg/L	475.80 ppb	04:41:01
3	Mn 257.610†	387412.1	387765.8	479.57 µg/L	479.57 ppb	04:41:01
3	Mo 202.031†	16333.0	16378.0	481.77 µg/L	481.77 ppb	04:41:21
3	Ni 231.604†	41283.4	41422.9	476.95 µg/L	476.95 ppb	04:41:01
3	P 214.914†	11331.2	11366.5	2422.9 µg/L	2422.9 ppb	04:41:21
3	Pb 220.353†	8778.6	8705.6	487.49 µg/L	487.49 ppb	04:41:21
3	S 181.975 Axial†	1431.3	1328.5	990.54 µg/L	990.54 ppb	04:41:21
3	Sb 206.836†	4139.6	4065.1	484.45 µg/L	484.45 ppb	04:41:21
3	Se 196.026†	1365.1	1351.9	491 µg/L	491 ppb	04:41:21
3	SiO2†	53906.3	52213.2	5082.7 µg/L	5082.7 ppb	04:41:01
3	Si 251.611†	163125.7	162537.9	2386.7 µg/L	2386.7 ppb	04:41:01
3	Sn 189.927†	7757.8	7770.8	486.03 µg/L	486.03 ppb	04:41:21
3	Ti 334.940†	510802.1	510628.7	476.45 µg/L	476.45 ppb	04:41:01
3	Tl 190.801†	3813.8	3936.3	490.80 µg/L	490.80 ppb	04:41:21
3	U 409.014†	7313.0	7594.1	472.95 µg/L	472.95 ppb	04:41:01
3	V 292.402†	97247.2	96991.7	479.52 µg/L	479.52 ppb	04:41:01
3	Zn 213.857†	85421.1	84987.0	473.67 µg/L	473.67 ppb	04:41:01

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724836.8	100.39 %	0.500			0.50%
Sc RADIAL	143640.6	98.4 %	0.89			0.91%
Y 371.029	1017053.1	99.061 %	0.5103			0.52%
Ag 328.068†	126937.1	475.98 µg/L	0.908	475.98 ppb	0.908	0.19%
QC value within limits for Ag 328.068 Recovery = 95.20%						
Al 396.153Radial†	26561.6	4902.3 µg/L	18.96	4902.3 ppb	18.96	0.39%
QC value within limits for Al 396.153Radial Recovery = 98.05%						
As 188.979†	1631.2	500.24 µg/L	3.626	500.24 ppb	3.626	0.72%

QC value within limits for As 188.979 Recovery = 100.05%							
B 249.677†	32026.2	470.67 µg/L	1.276	470.67 ppb	1.276	0.27%	
QC value within limits for B 249.677 Recovery = 94.13%							
Ba 233.527†	118184.4	476.64 µg/L	0.209	476.64 ppb	0.209	0.04%	
QC value within limits for Ba 233.527 Recovery = 95.33%							
Be 313.107†	1771557.1	482.49 µg/L	0.134	482.49 ppb	0.134	0.03%	
QC value within limits for Be 313.107 Recovery = 96.50%							
Ca 317.933Radial†	86610.0	4824.5 µg/L	1.27	4824.5 ppb	1.27	0.03%	
QC value within limits for Ca 317.933Radial Recovery = 96.49%							
Cd 226.502†	76104.3	475.08 µg/L	1.192	475.08 ppb	1.192	0.25%	
QC value within limits for Cd 226.502 Recovery = 95.02%							
Co 228.616†	38752.7	478.40 µg/L	0.352	478.40 ppb	0.352	0.07%	
QC value within limits for Co 228.616 Recovery = 95.68%							
Cr 267.716†	60437.3	473.22 µg/L	0.111	473.22 ppb	0.111	0.02%	
QC value within limits for Cr 267.716 Recovery = 94.64%							
Cu 324.752†	121860.2	475.04 µg/L	0.917	475.04 ppb	0.917	0.19%	
QC value within limits for Cu 324.752 Recovery = 95.01%							
Fe 238.204 Radial†	77745.4	4791.8 µg/L	6.60	4791.8 ppb	6.60	0.14%	
QC value within limits for Fe 238.204 Radial Recovery = 95.84%							
K 766.490 Radial†	13136.5	4805.5 µg/L	49.98	4805.5 ppb	49.98	1.04%	
QC value within limits for K 766.490 Radial Recovery = 96.11%							
Mg 279.077 IEC†	13205.8	4927.9 µg/L	14.43	4927.9 ppb	14.43	0.29%	
QC value within limits for Mg 279.077 IEC Recovery = 98.56%							
Mn 257.610†	387348.0	479.06 µg/L	0.448	479.06 ppb	0.448	0.09%	
QC value within limits for Mn 257.610 Recovery = 95.81%							
Mo 202.031†	16285.2	479.04 µg/L	2.378	479.04 ppb	2.378	0.50%	
QC value within limits for Mo 202.031 Recovery = 95.81%							
Na 589.592 Radial†	72323.1	9875.9 µg/L	4.46	9875.9 ppb	4.46	0.05%	
QC value within limits for Na 589.592 Radial Recovery = 98.76%							
Ni 231.604†	41387.2	476.54 µg/L	0.373	476.54 ppb	0.373	0.08%	
QC value within limits for Ni 231.604 Recovery = 95.31%							
P 214.914†	11267.7	2401.8 µg/L	18.34	2401.8 ppb	18.34	0.76%	
QC value within limits for P 214.914 Recovery = 96.07%							
Pb 220.353†	8636.4	483.63 µg/L	3.350	483.63 ppb	3.350	0.69%	
QC value within limits for Pb 220.353 Recovery = 96.73%							
S 181.975 Axial†	1321.5	985.37 µg/L	4.601	985.37 ppb	4.601	0.47%	
QC value within limits for S 181.975 Axial Recovery = 98.54%							
Sb 206.836†	4043.7	481.86 µg/L	2.883	481.86 ppb	2.883	0.60%	
QC value within limits for Sb 206.836 Recovery = 96.37%							
Se 196.026†	1330.4	483 µg/L	7.8	483 ppb	7.8	1.61%	
QC value within limits for Se 196.026 Recovery = 96.61%							
SiO2†	52220.2	5083.5 µg/L	6.12	5083.5 ppb	6.12	0.12%	
QC value within limits for SiO2 Recovery = 95.06%							
Si 251.611†	162580.5	2387.3 µg/L	1.01	2387.3 ppb	1.01	0.04%	
QC value within limits for Si 251.611 Recovery = 95.49%							
Sn 189.927†	7726.3	483.26 µg/L	2.422	483.26 ppb	2.422	0.50%	
QC value within limits for Sn 189.927 Recovery = 96.65%							
Sr 421.552†	231588.5	481.42 µg/L	5.838	481.42 ppb	5.838	1.21%	
QC value within limits for Sr 421.552 Recovery = 96.28%							
Ti 334.940†	510265.5	476.11 µg/L	0.294	476.11 ppb	0.294	0.06%	
QC value within limits for Ti 334.940 Recovery = 95.22%							
Tl 190.801†	3900.6	486.41 µg/L	3.834	486.41 ppb	3.834	0.79%	
QC value within limits for Tl 190.801 Recovery = 97.28%							
U 409.014†	7375.1	460.13 µg/L	11.614	460.13 ppb	11.614	2.52%	
QC value within limits for U 409.014 Recovery = 92.03%							
V 292.402†	96958.9	479.33 µg/L	0.445	479.33 ppb	0.445	0.09%	
QC value within limits for V 292.402 Recovery = 95.87%							
Zn 213.857†	84932.5	473.36 µg/L	0.461	473.36 ppb	0.461	0.10%	
QC value within limits for Zn 213.857 Recovery = 94.67%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 4:41:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143373.6	143373.6	98.2 %			04:41:57
1	Al 396.153Radial†	-59.0	3.2	0.6063 µg/L	0.6063 ppb	0.6063 ppb	04:42:17
1	Ca 317.933Radial†	610.3	60.6	3.3742 µg/L	3.3742 ppb	3.3742 ppb	04:42:17
1	Fe 238.204 Radial†	143.9	-1.6	-0.1011 µg/L	-0.1011 ppb	-0.1011 ppb	04:42:17
1	K 766.490 Radial†	1628.1	112.4	41.110 µg/L	41.110 ppb	41.110 ppb	04:41:57
1	Mg 279.077 IEC†	185.8	-1.6	-0.5987 µg/L	-0.5987 ppb	-0.5987 ppb	04:42:17
1	Na 589.592 Radial†	2734.6	1492.5	203.86 µg/L	203.86 ppb	203.86 ppb	04:41:57
1	Sr 421.552†	-214.3	-82.8	-0.1722 µg/L	-0.1722 ppb	-0.1722 ppb	04:41:57
1	Sc 361.383	1732099.1	1732099.1	100.81 %			04:43:19
1	Y 371.029	1032748.2	1032748.2	100.59 %			04:43:19
1	Ag 328.068†	4008.6	-114.9	-0.4361 µg/L	-0.4361 ppb	-0.4361 ppb	04:43:21
1	As 188.979†	-17.1	3.4	1.0343 µg/L	1.0343 ppb	1.0343 ppb	04:43:41
1	B 249.677†	3528.4	-5.8	-0.0861 µg/L	-0.0861 ppb	-0.0861 ppb	04:43:41
1	Ba 233.527†	-146.5	-9.4	-0.0381 µg/L	-0.0381 ppb	-0.0381 ppb	04:43:41
1	Be 313.107†	-845.1	226.4	0.0592 µg/L	0.0592 ppb	0.0592 ppb	04:43:21
1	Cd 226.502†	-90.7	28.2	0.1764 µg/L	0.1764 ppb	0.1764 ppb	04:43:41
1	Co 228.616†	-169.3	22.3	0.2757 µg/L	0.2757 ppb	0.2757 ppb	04:43:41
1	Cr 267.716†	178.0	-2.0	-0.0096 µg/L	-0.0096 ppb	-0.0096 ppb	04:43:41
1	Cu 324.752†	2996.2	-0.0	-0.0066 µg/L	-0.0066 ppb	-0.0066 ppb	04:43:21
1	Mn 257.610†	282.8	43.2	0.0535 µg/L	0.0535 ppb	0.0535 ppb	04:43:41
1	Mo 202.031†	-29.9	-9.5	-0.2805 µg/L	-0.2805 ppb	-0.2805 ppb	04:43:41
1	Ni 231.604†	-73.9	3.2	0.0369 µg/L	0.0369 ppb	0.0369 ppb	04:43:41
1	P 214.914†	-36.9	-18.6	-3.9857 µg/L	-3.9857 ppb	-3.9857 ppb	04:43:41
1	Pb 220.353†	70.2	-16.8	-0.9308 µg/L	-0.9308 ppb	-0.9308 ppb	04:43:41
1	S 181.975 Axial†	133.9	27.8	20.636 µg/L	20.636 ppb	20.636 ppb	04:43:41
1	Sb 206.836†	78.1	-3.3	-0.3983 µg/L	-0.3983 ppb	-0.3983 ppb	04:43:41
1	Se 196.026†	32.9	17.4	6.28 µg/L	6.28 ppb	6.28 ppb	04:43:41
1	SiO2†	1779.2	-10.4	-1.0120 µg/L	-1.0120 ppb	-1.0120 ppb	04:43:41
1	Si 251.611†	845.5	2.1	0.0358 µg/L	0.0358 ppb	0.0358 ppb	04:43:21
1	Sn 189.927†	-2.5	-1.4	-0.0870 µg/L	-0.0870 ppb	-0.0870 ppb	04:43:41
1	Ti 334.940†	882.6	-77.0	-0.0685 µg/L	-0.0685 ppb	-0.0685 ppb	04:43:21
1	Tl 190.801†	-105.8	11.7	1.4409 µg/L	1.4409 ppb	1.4409 ppb	04:43:41
1	U 409.014†	-411.3	-138.2	-8.0813 µg/L	-8.0813 ppb	-8.0813 ppb	04:43:21
1	V 292.402†	394.9	-12.0	-0.0670 µg/L	-0.0670 ppb	-0.0670 ppb	04:43:21
1	Zn 213.857†	593.5	24.3	0.1361 µg/L	0.1361 ppb	0.1361 ppb	04:43:41
2	Sc RADIAL	143802.0	143802.0	98.5 %			04:42:19
2	Al 396.153Radial†	-54.2	8.2	1.5220 µg/L	1.5220 ppb	1.5220 ppb	04:42:39
2	Ca 317.933Radial†	610.8	59.2	3.2991 µg/L	3.2991 ppb	3.2991 ppb	04:42:39
2	Fe 238.204 Radial†	141.6	-4.4	-0.2687 µg/L	-0.2687 ppb	-0.2687 ppb	04:42:39
2	K 766.490 Radial†	1509.8	-12.6	-4.6466 µg/L	-4.6466 ppb	-4.6466 ppb	04:42:19
2	Mg 279.077 IEC†	191.0	3.1	1.1672 µg/L	1.1672 ppb	1.1672 ppb	04:42:39
2	Na 589.592 Radial†	2525.6	1272.1	173.79 µg/L	173.79 ppb	173.79 ppb	04:42:19
2	Sr 421.552†	-133.7	-0.4	-0.0008 µg/L	-0.0008 ppb	-0.0008 ppb	04:42:19
2	Sc 361.383	1725107.0	1725107.0	100.40 %			04:43:43
2	Y 371.029	1028743.2	1028743.2	100.20 %			04:43:43
2	Ag 328.068†	4338.9	230.2	0.8513 µg/L	0.8513 ppb	0.8513 ppb	04:43:45
2	As 188.979†	-24.2	-3.8	-1.1405 µg/L	-1.1405 ppb	-1.1405 ppb	04:44:06
2	B 249.677†	3556.5	36.4	0.5369 µg/L	0.5369 ppb	0.5369 ppb	04:44:06
2	Ba 233.527†	-138.7	-2.3	-0.0093 µg/L	-0.0093 ppb	-0.0093 ppb	04:44:06
2	Be 313.107†	-958.2	110.3	0.0305 µg/L	0.0305 ppb	0.0305 ppb	04:43:45
2	Cd 226.502†	-124.6	-5.9	-0.0369 µg/L	-0.0369 ppb	-0.0369 ppb	04:44:06
2	Co 228.616†	-183.4	7.7	0.0945 µg/L	0.0945 ppb	0.0945 ppb	04:44:06
2	Cr 267.716†	193.1	13.7	0.1062 µg/L	0.1062 ppb	0.1062 ppb	04:44:06
2	Cu 324.752†	2935.8	-48.1	-0.1859 µg/L	-0.1859 ppb	-0.1859 ppb	04:43:45
2	Mn 257.610†	275.2	36.8	0.0455 µg/L	0.0455 ppb	0.0455 ppb	04:44:06
2	Mo 202.031†	-24.3	-4.1	-0.1207 µg/L	-0.1207 ppb	-0.1207 ppb	04:44:06
2	Ni 231.604†	-96.5	-19.6	-0.2260 µg/L	-0.2260 ppb	-0.2260 ppb	04:44:06
2	P 214.914†	-28.9	-10.9	-2.3173 µg/L	-2.3173 ppb	-2.3173 ppb	04:44:06
2	Pb 220.353†	68.9	-17.7	-0.9902 µg/L	-0.9902 ppb	-0.9902 ppb	04:44:06

2	S 181.975 Axial†	144.6	39.0	28.959 µg/L	28.959 ppb	04:44:06
2	Sb 206.836†	82.8	1.6	0.1930 µg/L	0.1930 ppb	04:44:06
2	Se 196.026†	13.2	-2.1	-0.772 µg/L	-0.772 ppb	04:44:06
2	SiO2†	1774.3	-8.1	-0.7975 µg/L	-0.7975 ppb	04:44:06
2	Si 251.611†	687.2	-152.1	-2.2442 µg/L	-2.2442 ppb	04:43:45
2	Sn 189.927†	7.2	8.3	0.5190 µg/L	0.5190 ppb	04:44:06
2	Ti 334.940†	945.0	-11.3	-0.0112 µg/L	-0.0112 ppb	04:43:45
2	Tl 190.801†	-90.8	26.2	3.2215 µg/L	3.2215 ppb	04:44:06
2	U 409.014†	-245.8	25.1	1.4530 µg/L	1.4530 ppb	04:43:45
2	V 292.402†	358.7	-46.5	-0.2265 µg/L	-0.2265 ppb	04:43:45
2	Zn 213.857†	578.1	11.4	0.0658 µg/L	0.0658 ppb	04:44:06
3	Sc RADIAL	141813.5	141813.5	97.2 %		04:42:41
3	Al 396.153Radial†	-65.8	-4.5	-0.8345 µg/L	-0.8345 ppb	04:43:01
3	Ca 317.933Radial†	618.1	75.5	4.2049 µg/L	4.2049 ppb	04:43:01
3	Fe 238.204 Radial†	142.6	-1.4	-0.0853 µg/L	-0.0853 ppb	04:43:01
3	K 766.490 Radial†	1729.0	234.4	85.796 µg/L	85.796 ppb	04:42:41
3	Mg 279.077 IEC†	198.0	13.1	4.8715 µg/L	4.8715 ppb	04:43:01
3	Na 589.592 Radial†	2673.4	1460.2	199.40 µg/L	199.40 ppb	04:42:41
3	Sr 421.552†	-143.1	-12.0	-0.0250 µg/L	-0.0250 ppb	04:42:41
3	Sc 361.383	1732501.7	1732501.7	100.83 %		04:44:08
3	Y 371.029	1032645.9	1032645.9	100.58 %		04:44:08
3	Ag 328.068†	3993.4	-130.9	-0.4838 µg/L	-0.4838 ppb	04:44:10
3	As 188.979†	-18.1	2.4	0.7230 µg/L	0.7230 ppb	04:44:30
3	B 249.677†	3533.8	-1.3	-0.0196 µg/L	-0.0196 ppb	04:44:30
3	Ba 233.527†	-129.6	7.4	0.0296 µg/L	0.0296 ppb	04:44:30
3	Be 313.107†	-1067.5	6.0	0.0021 µg/L	0.0021 ppb	04:44:10
3	Cd 226.502†	-108.9	10.2	0.0637 µg/L	0.0637 ppb	04:44:30
3	Co 228.616†	-170.6	21.1	0.2607 µg/L	0.2607 ppb	04:44:30
3	Cr 267.716†	195.5	15.4	0.1189 µg/L	0.1189 ppb	04:44:30
3	Cu 324.752†	2879.6	-116.3	-0.4504 µg/L	-0.4504 ppb	04:44:10
3	Mn 257.610†	262.7	23.2	0.0286 µg/L	0.0286 ppb	04:44:30
3	Mo 202.031†	-19.1	1.1	0.0321 µg/L	0.0321 ppb	04:44:30
3	Ni 231.604†	-96.0	-18.7	-0.2148 µg/L	-0.2148 ppb	04:44:30
3	P 214.914†	-20.0	-1.8	-0.3852 µg/L	-0.3852 ppb	04:44:30
3	Pb 220.353†	56.6	-30.2	-1.6887 µg/L	-1.6887 ppb	04:44:30
3	S 181.975 Axial†	141.1	34.9	25.923 µg/L	25.923 ppb	04:44:30
3	Sb 206.836†	81.1	-0.4	-0.0510 µg/L	-0.0510 ppb	04:44:30
3	Se 196.026†	12.9	-2.5	-0.899 µg/L	-0.899 ppb	04:44:30
3	SiO2†	1779.3	-10.8	-1.0593 µg/L	-1.0593 ppb	04:44:30
3	Si 251.611†	861.9	18.2	0.2649 µg/L	0.2649 ppb	04:44:10
3	Sn 189.927†	5.8	6.8	0.4260 µg/L	0.4260 ppb	04:44:30
3	Ti 334.940†	938.4	-21.9	-0.0215 µg/L	-0.0215 ppb	04:44:10
3	Tl 190.801†	-79.9	37.4	4.5956 µg/L	4.5956 ppb	04:44:30
3	U 409.014†	-243.8	28.1	1.6356 µg/L	1.6356 ppb	04:44:10
3	V 292.402†	389.1	-17.9	-0.0856 µg/L	-0.0856 ppb	04:44:10
3	Zn 213.857†	585.6	16.3	0.0935 µg/L	0.0935 ppb	04:44:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729902.6	100.68 %	0.242			0.24%
Sc RADIAL	142996.4	98.0 %	0.72			0.73%
Y 371.029	1031379.1	100.46 %	0.222			0.22%
Ag 328.068†	-5.2	-0.0229 µg/L	0.75745	-0.0229 ppb	0.75745	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.3	0.4313 µg/L	1.18793	0.4313 ppb	1.18793	275.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.7	0.2056 µg/L	1.17610	0.2056 ppb	1.17610	571.96%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.8	0.1437 µg/L	0.34209	0.1437 ppb	0.34209	237.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.4	-0.0059 µg/L	0.03400	-0.0059 ppb	0.03400	572.37%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	114.2	0.0306 µg/L	0.02853	0.0306 ppb	0.02853	93.24%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	65.1	3.6261 µg/L	0.50270	3.6261 ppb	0.50270	13.86%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.9	0.0678 µg/L	0.10671	0.0678 ppb	0.10671	157.49%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	17.0	0.2103 µg/L	0.10057	0.2103 ppb	0.10057	47.83%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	9.0	0.0718 µg/L	0.07083	0.0718 ppb	0.07083	98.61%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-54.8	-0.2143 µg/L	0.22327	-0.2143 ppb	0.22327	104.19%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.5	-0.1517 µg/L	0.10163	-0.1517 ppb	0.10163	67.00%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	111.4	40.753 µg/L	45.2224	40.753 ppb	45.2224	110.97%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	4.9	1.8133 µg/L	2.79173	1.8133 ppb	2.79173	153.96%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	34.4	0.0425 µg/L	0.01273	0.0425 ppb	0.01273	29.95%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-4.2	-0.1230 µg/L	0.15627	-0.1230 ppb	0.15627	127.01%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	1408.3	192.35 µg/L	16.225	192.35 ppb	16.225	8.43%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-11.7	-0.1346 µg/L	0.14863	-0.1346 ppb	0.14863	110.41%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.5	-2.2294 µg/L	1.80186	-2.2294 ppb	1.80186	80.82%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-21.6	-1.2032 µg/L	0.42148	-1.2032 ppb	0.42148	35.03%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	33.9	25.173 µg/L	4.2121	25.173 ppb	4.2121	16.73%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-0.7	-0.0854 µg/L	0.29713	-0.0854 ppb	0.29713	347.82%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.3	1.54 µg/L	4.109	1.54 ppb	4.109	267.42%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-9.8	-0.9563 µg/L	0.13954	-0.9563 ppb	0.13954	14.59%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-43.9	-0.6479 µg/L	1.38724	-0.6479 ppb	1.38724	214.13%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.6	0.2860 µg/L	0.32637	0.2860 ppb	0.32637	114.11%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-31.7	-0.0660 µg/L	0.09279	-0.0660 ppb	0.09279	140.62%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-36.7	-0.0337 µg/L	0.03052	-0.0337 ppb	0.03052	90.51%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	25.1	3.0860 µg/L	1.58170	3.0860 ppb	1.58170	51.25%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-28.3	-1.6643 µg/L	5.55810	-1.6643 ppb	5.55810	333.97%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-25.5	-0.1264 µg/L	0.08722	-0.1264 ppb	0.08722	69.01%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	17.4	0.0985 µg/L	0.03542	0.0985 ppb	0.03542	35.97%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 5:03:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142807.7	142807.7	97.9 %		05:04:01
1	Al 396.153Radial†	25827.6	26455.4	4882.8 µg/L	4882.8 ppb	05:04:01
1	Ca 317.933Radial†	85131.8	86432.4	4814.6 µg/L	4814.6 ppb	05:04:01
1	Fe 238.204 Radial†	76139.6	77656.0	4786.2 µg/L	4786.2 ppb	05:04:01
1	K 766.490 Radial†	14464.3	13235.7	4841.8 µg/L	4841.8 ppb	05:04:01
1	Mg 279.077 IEC†	13031.2	13125.4	4897.8 µg/L	4897.8 ppb	05:04:01
1	Na 589.592 Radial†	71380.8	71650.5	9784.0 µg/L	9784.0 ppb	05:04:01
1	Sr 421.552†	227350.2	232455.8	483.22 µg/L	483.22 ppb	05:03:59
1	Sc 361.383	1717799.5	1717799.5	99.976 %		05:04:14
1	Y 371.029	1012953.8	1012953.8	98.662 %		05:04:14
1	Ag 328.068†	130945.5	126886.0	475.82 µg/L	475.82 ppb	05:04:14
1	As 188.979†	1607.9	1628.6	499.44 µg/L	499.44 ppb	05:04:34
1	B 249.677†	35595.1	32097.9	471.73 µg/L	471.73 ppb	05:04:14
1	Ba 233.527†	118233.7	118398.3	477.50 µg/L	477.50 ppb	05:04:14
1	Be 313.107†	1774199.8	1775696.3	483.62 µg/L	483.62 ppb	05:04:14
1	Cd 226.502†	76081.9	76218.6	475.79 µg/L	475.79 ppb	05:04:14
1	Co 228.616†	38613.8	38813.5	479.15 µg/L	479.15 ppb	05:04:14
1	Cr 267.716†	60590.4	60426.6	473.13 µg/L	473.13 ppb	05:04:14
1	Cu 324.752†	125518.0	122576.4	477.83 µg/L	477.83 ppb	05:04:14
1	Mn 257.610†	388744.5	388601.9	480.61 µg/L	480.61 ppb	05:04:14
1	Mo 202.031†	16098.9	16122.9	474.27 µg/L	474.27 ppb	05:04:34
1	Ni 231.604†	41299.4	41386.0	476.53 µg/L	476.53 ppb	05:04:14
1	P 214.914†	11164.5	11185.1	2384.1 µg/L	2384.1 ppb	05:04:34
1	Pb 220.353†	8658.1	8573.8	480.12 µg/L	480.12 ppb	05:04:34
1	S 181.975 Axial†	1400.4	1295.7	966.14 µg/L	966.14 ppb	05:04:34
1	Sb 206.836†	4069.8	3989.9	475.40 µg/L	475.40 ppb	05:04:34
1	Se 196.026†	1337.9	1323.0	480 µg/L	480 ppb	05:04:34
1	SiO2†	54209.1	52446.9	5105.9 µg/L	5105.9 ppb	05:04:14
1	Si 251.611†	164159.3	163362.7	2399.0 µg/L	2399.0 ppb	05:04:14
1	Sn 189.927†	7642.2	7645.2	478.20 µg/L	478.20 ppb	05:04:34
1	Ti 334.940†	511471.4	510643.4	476.46 µg/L	476.46 ppb	05:04:14
1	Tl 190.801†	3776.4	3894.0	485.62 µg/L	485.62 ppb	05:04:34
1	U 409.014†	7331.2	7602.9	473.54 µg/L	473.54 ppb	05:04:14
1	V 292.402†	97611.9	97231.8	480.62 µg/L	480.62 ppb	05:04:14
1	Zn 213.857†	85344.1	84800.5	472.62 µg/L	472.62 ppb	05:04:14
2	Sc RADIAL	142177.1	142177.1	97.4 %		05:04:05
2	Al 396.153Radial†	25933.0	26680.7	4924.5 µg/L	4924.5 ppb	05:04:05
2	Ca 317.933Radial†	84882.8	86562.6	4821.9 µg/L	4821.9 ppb	05:04:05
2	Fe 238.204 Radial†	75981.4	77838.8	4797.5 µg/L	4797.5 ppb	05:04:05
2	K 766.490 Radial†	14617.1	13458.2	4923.2 µg/L	4923.2 ppb	05:04:05
2	Mg 279.077 IEC†	13046.8	13200.5	4925.8 µg/L	4925.8 ppb	05:04:05
2	Na 589.592 Radial†	71119.0	71705.3	9791.4 µg/L	9791.4 ppb	05:04:05
2	Sr 421.552†	226461.7	232574.3	483.47 µg/L	483.47 ppb	05:04:03
2	Sc 361.383	1718896.3	1718896.3	100.04 %		05:04:37
2	Y 371.029	1012872.8	1012872.8	98.654 %		05:04:37
2	Ag 328.068†	131183.7	127040.5	476.38 µg/L	476.38 ppb	05:04:37
2	As 188.979†	1601.5	1621.2	497.20 µg/L	497.20 ppb	05:04:57
2	B 249.677†	35702.0	32182.0	472.96 µg/L	472.96 ppb	05:04:37
2	Ba 233.527†	118547.9	118637.0	478.46 µg/L	478.46 ppb	05:04:37
2	Be 313.107†	1777707.2	1778070.0	484.27 µg/L	484.27 ppb	05:04:37
2	Cd 226.502†	76355.4	76443.4	477.19 µg/L	477.19 ppb	05:04:37
2	Co 228.616†	38719.9	38894.9	480.16 µg/L	480.16 ppb	05:04:37
2	Cr 267.716†	60616.0	60413.5	473.03 µg/L	473.03 ppb	05:04:37
2	Cu 324.752†	125459.3	122437.5	477.29 µg/L	477.29 ppb	05:04:37
2	Mn 257.610†	388816.5	388425.7	480.39 µg/L	480.39 ppb	05:04:37
2	Mo 202.031†	16138.4	16152.1	475.13 µg/L	475.13 ppb	05:04:57
2	Ni 231.604†	41418.0	41478.1	477.59 µg/L	477.59 ppb	05:04:37
2	P 214.914†	11169.5	11183.1	2383.7 µg/L	2383.7 ppb	05:04:57
2	Pb 220.353†	8675.4	8585.6	480.78 µg/L	480.78 ppb	05:04:57

2	S 181.975 Axial†	1419.5	1313.8	979.63 µg/L	979.63 ppb	05:04:57
2	Sb 206.836†	4079.9	3997.5	476.31 µg/L	476.31 ppb	05:04:57
2	Se 196.026†	1332.5	1316.7	478 µg/L	478 ppb	05:04:57
2	SiO2†	54300.2	52503.4	5111.4 µg/L	5111.4 ppb	05:04:37
2	Si 251.611†	164532.5	163631.0	2402.9 µg/L	2402.9 ppb	05:04:37
2	Sn 189.927†	7645.3	7643.4	478.09 µg/L	478.09 ppb	05:04:57
2	Ti 334.940†	511854.9	510700.3	476.52 µg/L	476.52 ppb	05:04:37
2	Tl 190.801†	3771.1	3886.3	484.66 µg/L	484.66 ppb	05:04:57
2	U 409.014†	7189.9	7456.9	465.01 µg/L	465.01 ppb	05:04:37
2	V 292.402†	97709.7	97267.3	480.79 µg/L	480.79 ppb	05:04:37
2	Zn 213.857†	85652.3	85054.1	474.04 µg/L	474.04 ppb	05:04:37
3	Sc RADIAL	142516.5	142516.5	97.7 %		05:04:10
3	Al 396.153Radial†	26016.1	26702.4	4928.5 µg/L	4928.5 ppb	05:04:10
3	Ca 317.933Radial†	85309.6	86792.2	4834.7 µg/L	4834.7 ppb	05:04:10
3	Fe 238.204 Radial†	76361.8	78042.5	4810.1 µg/L	4810.1 ppb	05:04:10
3	K 766.490 Radial†	14534.2	13337.5	4879.1 µg/L	4879.1 ppb	05:04:10
3	Mg 279.077 IEC†	13094.3	13217.2	4932.1 µg/L	4932.1 ppb	05:04:10
3	Na 589.592 Radial†	71498.7	71920.3	9820.8 µg/L	9820.8 ppb	05:04:10
3	Sr 421.552†	226956.2	232527.1	483.37 µg/L	483.37 ppb	05:04:07
3	Sc 361.383	1715888.7	1715888.7	99.864 %		05:05:00
3	Y 371.029	1012085.0	1012085.0	98.578 %		05:05:00
3	Ag 328.068†	130932.7	127019.0	476.29 µg/L	476.29 ppb	05:05:00
3	As 188.979†	1600.5	1623.0	497.74 µg/L	497.74 ppb	05:05:21
3	B 249.677†	35703.4	32246.0	473.91 µg/L	473.91 ppb	05:05:00
3	Ba 233.527†	118252.2	118548.6	478.10 µg/L	478.10 ppb	05:05:00
3	Be 313.107†	1772238.1	1775708.2	483.62 µg/L	483.62 ppb	05:05:00
3	Cd 226.502†	75982.3	76203.6	475.70 µg/L	475.70 ppb	05:05:00
3	Co 228.616†	38592.7	38835.4	479.42 µg/L	479.42 ppb	05:05:00
3	Cr 267.716†	60479.0	60382.5	472.79 µg/L	472.79 ppb	05:05:00
3	Cu 324.752†	125163.3	122361.0	476.99 µg/L	476.99 ppb	05:05:00
3	Mn 257.610†	387741.8	388030.8	479.90 µg/L	479.90 ppb	05:05:00
3	Mo 202.031†	16166.2	16208.2	476.78 µg/L	476.78 ppb	05:05:21
3	Ni 231.604†	41397.3	41530.0	478.19 µg/L	478.19 ppb	05:05:00
3	P 214.914†	11229.6	11262.8	2400.7 µg/L	2400.7 ppb	05:05:21
3	Pb 220.353†	8666.5	8591.9	481.14 µg/L	481.14 ppb	05:05:21
3	S 181.975 Axial†	1402.0	1298.8	968.50 µg/L	968.50 ppb	05:05:21
3	Sb 206.836†	4079.3	4004.1	477.12 µg/L	477.12 ppb	05:05:21
3	Se 196.026†	1348.8	1335.4	485 µg/L	485 ppb	05:05:21
3	SiO2†	54197.4	52495.6	5110.5 µg/L	5110.5 ppb	05:05:00
3	Si 251.611†	164034.6	163420.6	2399.8 µg/L	2399.8 ppb	05:05:00
3	Sn 189.927†	7674.5	7686.0	480.75 µg/L	480.75 ppb	05:05:21
3	Ti 334.940†	510082.1	509821.9	475.70 µg/L	475.70 ppb	05:05:00
3	Tl 190.801†	3787.1	3908.9	487.43 µg/L	487.43 ppb	05:05:21
3	U 409.014†	7110.7	7390.3	461.07 µg/L	461.07 ppb	05:05:00
3	V 292.402†	97399.7	97128.1	480.12 µg/L	480.12 ppb	05:05:00
3	Zn 213.857†	85456.2	85007.8	473.77 µg/L	473.77 ppb	05:05:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717528.2	99.960 %	0.0886			0.09%
Sc RADIAL	142500.4	97.7 %	0.22			0.22%
Y 371.029	1012637.2	98.631 %	0.0467			0.05%
Ag 328.068†	126981.9	476.17 µg/L	0.302	476.17 ppb	0.302	0.06%
QC value within limits for Ag 328.068 Recovery = 95.23%						
Al 396.153Radial†	26612.8	4911.9 µg/L	25.30	4911.9 ppb	25.30	0.52%
QC value within limits for Al 396.153Radial Recovery = 98.24%						
As 188.979†	1624.3	498.13 µg/L	1.168	498.13 ppb	1.168	0.23%
QC value within limits for As 188.979 Recovery = 99.63%						
B 249.677†	32175.3	472.87 µg/L	1.095	472.87 ppb	1.095	0.23%
QC value within limits for B 249.677 Recovery = 94.57%						
Ba 233.527†	118528.0	478.02 µg/L	0.486	478.02 ppb	0.486	0.10%
QC value within limits for Ba 233.527 Recovery = 95.60%						
Be 313.107†	1776491.5	483.84 µg/L	0.372	483.84 ppb	0.372	0.08%
QC value within limits for Be 313.107 Recovery = 96.77%						
Ca 317.933Radial†	86595.7	4823.7 µg/L	10.15	4823.7 ppb	10.15	0.21%
QC value within limits for Ca 317.933Radial Recovery = 96.47%						
Cd 226.502†	76288.5	476.23 µg/L	0.839	476.23 ppb	0.839	0.18%
QC value within limits for Cd 226.502 Recovery = 95.25%						
Co 228.616†	38847.9	479.58 µg/L	0.520	479.58 ppb	0.520	0.11%

Cr	267.716†	60407.5	472.98 µg/L	0.173	472.98 ppb	0.173	0.04%
Cu	324.752†	122458.3	477.37 µg/L	0.427	477.37 ppb	0.427	0.09%
Fe	238.204 Radial†	77845.8	4797.9 µg/L	11.92	4797.9 ppb	11.92	0.25%
K	766.490 Radial†	13343.8	4881.4 µg/L	40.76	4881.4 ppb	40.76	0.83%
Mg	279.077 IEC†	13181.0	4918.5 µg/L	18.24	4918.5 ppb	18.24	0.37%
Mn	257.610†	388352.8	480.30 µg/L	0.362	480.30 ppb	0.362	0.08%
Mo	202.031†	16161.0	475.39 µg/L	1.275	475.39 ppb	1.275	0.27%
Na	589.592 Radial†	71758.7	9798.8 µg/L	19.47	9798.8 ppb	19.47	0.20%
Ni	231.604†	41464.7	477.44 µg/L	0.840	477.44 ppb	0.840	0.18%
P	214.914†	11210.3	2389.5 µg/L	9.72	2389.5 ppb	9.72	0.41%
Pb	220.353†	8583.8	480.68 µg/L	0.522	480.68 ppb	0.522	0.11%
S	181.975 Axial†	1302.8	971.42 µg/L	7.208	971.42 ppb	7.208	0.74%
Sb	206.836†	3997.2	476.28 µg/L	0.861	476.28 ppb	0.861	0.18%
Se	196.026†	1325.0	481 µg/L	3.4	481 ppb	3.4	0.71%
SiO2†		52482.0	5109.3 µg/L	2.96	5109.3 ppb	2.96	0.06%
Si	251.611†	163471.4	2400.6 µg/L	2.08	2400.6 ppb	2.08	0.09%
Sn	189.927†	7658.2	479.01 µg/L	1.501	479.01 ppb	1.501	0.31%
Sr	421.552†	232519.1	483.36 µg/L	0.124	483.36 ppb	0.124	0.03%
Ti	334.940†	510388.5	476.23 µg/L	0.458	476.23 ppb	0.458	0.10%
Tl	190.801†	3896.4	485.90 µg/L	1.405	485.90 ppb	1.405	0.29%
U	409.014†	7483.4	466.54 µg/L	6.373	466.54 ppb	6.373	1.37%
V	292.402†	97209.1	480.51 µg/L	0.345	480.51 ppb	0.345	0.07%
Zn	213.857†	84954.1	473.48 µg/L	0.754	473.48 ppb	0.754	0.16%

QC value within limits for Co 228.616 Recovery = 95.92%

QC value within limits for Cr 267.716 Recovery = 94.60%

QC value within limits for Cu 324.752 Recovery = 95.47%

QC value within limits for Fe 238.204 Radial Recovery = 95.96%

QC value within limits for K 766.490 Radial Recovery = 97.63%

QC value within limits for Mg 279.077 IEC Recovery = 98.37%

QC value within limits for Mn 257.610 Recovery = 96.06%

QC value within limits for Mo 202.031 Recovery = 95.08%

QC value within limits for Na 589.592 Radial Recovery = 97.99%

QC value within limits for Ni 231.604 Recovery = 95.49%

QC value within limits for P 214.914 Recovery = 95.58%

QC value within limits for Pb 220.353 Recovery = 96.14%

QC value within limits for S 181.975 Axial Recovery = 97.14%

QC value within limits for Sb 206.836 Recovery = 95.26%

QC value within limits for Se 196.026 Recovery = 96.22%

QC value within limits for SiO2 Recovery = 95.54%

QC value within limits for Si 251.611 Recovery = 96.02%

QC value within limits for Sn 189.927 Recovery = 95.80%

QC value within limits for Sr 421.552 Recovery = 96.67%

QC value within limits for Ti 334.940 Recovery = 95.25%

QC value within limits for Tl 190.801 Recovery = 97.18%

QC value within limits for U 409.014 Recovery = 93.31%

QC value within limits for V 292.402 Recovery = 96.10%

QC value within limits for Zn 213.857 Recovery = 94.70%

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:05:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145743.0	145743.0	99.9 %		05:05:57
1	Al 396.153Radial†	-25.5	37.7	6.9946 µg/L	6.9946 ppb	05:06:17
1	Ca 317.933Radial†	624.7	64.9	3.6148 µg/L	3.6148 ppb	05:06:17
1	Fe 238.204 Radial†	160.3	12.4	0.7656 µg/L	0.7656 ppb	05:06:17
1	K 766.490 Radial†	1619.2	76.5	27.962 µg/L	27.962 ppb	05:05:57
1	Mg 279.077 IEC†	177.4	-13.0	-4.8668 µg/L	-4.8668 ppb	05:06:17
1	Na 589.592 Radial†	2580.0	1292.5	176.54 µg/L	176.54 ppb	05:05:57
1	Sr 421.552†	-206.7	-71.7	-0.1490 µg/L	-0.1490 ppb	05:05:57
1	Sc 361.383	1758359.3	1758359.3	102.34 %		05:07:19
1	Y 371.029	1047204.1	1047204.1	102.00 %		05:07:19
1	Ag 328.068†	4319.7	129.7	0.4450 µg/L	0.4450 ppb	05:07:21
1	As 188.979†	-5.9	14.6	4.3999 µg/L	4.3999 ppb	05:07:41
1	B 249.677†	3629.0	40.2	0.5931 µg/L	0.5931 ppb	05:07:21
1	Ba 233.527†	-169.9	-30.2	-0.1218 µg/L	-0.1218 ppb	05:07:41
1	Be 313.107†	-1022.3	65.7	0.0101 µg/L	0.0101 ppb	05:07:21
1	Cd 226.502†	-89.3	30.9	0.1929 µg/L	0.1929 ppb	05:07:41
1	Co 228.616†	-193.1	1.7	0.0204 µg/L	0.0204 ppb	05:07:41
1	Cr 267.716†	166.1	-16.3	-0.1072 µg/L	-0.1072 ppb	05:07:41
1	Cu 324.752†	2915.1	-123.7	-0.5021 µg/L	-0.5021 ppb	05:07:21
1	Mn 257.610†	289.9	46.0	0.0571 µg/L	0.0571 ppb	05:07:41
1	Mo 202.031†	-26.5	-5.8	-0.1707 µg/L	-0.1707 ppb	05:07:41
1	Ni 231.604†	-96.2	-17.5	-0.2015 µg/L	-0.2015 ppb	05:07:41
1	P 214.914†	-38.6	-19.8	-4.2211 µg/L	-4.2211 ppb	05:07:41
1	Pb 220.353†	57.3	-30.4	-1.6754 µg/L	-1.6754 ppb	05:07:41
1	S 181.975 Axial†	137.0	28.8	21.413 µg/L	21.413 ppb	05:07:41
1	Sb 206.836†	81.3	-1.4	-0.1639 µg/L	-0.1639 ppb	05:07:41
1	Se 196.026†	14.5	-1.1	-0.428 µg/L	-0.428 ppb	05:07:41
1	SiO2†	1795.9	-20.4	-2.0072 µg/L	-2.0072 ppb	05:07:41
1	Si 251.611†	842.2	-13.6	-0.2043 µg/L	-0.2043 ppb	05:07:21
1	Sn 189.927†	14.5	15.3	0.9535 µg/L	0.9535 ppb	05:07:41
1	Ti 334.940†	896.1	-76.9	-0.0607 µg/L	-0.0607 ppb	05:07:21
1	Tl 190.801†	-107.4	11.8	1.4419 µg/L	1.4419 ppb	05:07:41
1	U 409.014†	-728.7	-442.1	-25.868 µg/L	-25.868 ppb	05:07:21
1	V 292.402†	356.0	-55.9	-0.2924 µg/L	-0.2924 ppb	05:07:21
1	Zn 213.857†	611.8	33.4	0.1892 µg/L	0.1892 ppb	05:07:41
2	Sc RADIAL	143898.7	143898.7	98.6 %		05:06:19
2	Al 396.153Radial†	-55.8	6.7	1.2330 µg/L	1.2330 ppb	05:06:39
2	Ca 317.933Radial†	606.4	54.4	3.0284 µg/L	3.0284 ppb	05:06:39
2	Fe 238.204 Radial†	158.8	12.9	0.7968 µg/L	0.7968 ppb	05:06:39
2	K 766.490 Radial†	1417.0	-107.8	-39.494 µg/L	-39.494 ppb	05:06:19
2	Mg 279.077 IEC†	183.4	-4.7	-1.7523 µg/L	-1.7523 ppb	05:06:39
2	Na 589.592 Radial†	2345.9	1088.2	148.69 µg/L	148.69 ppb	05:06:19
2	Sr 421.552†	-178.6	-45.8	-0.0953 µg/L	-0.0953 ppb	05:06:19
2	Sc 361.383	1742400.7	1742400.7	101.41 %		05:07:43
2	Y 371.029	1037760.1	1037760.1	101.08 %		05:07:43
2	Ag 328.068†	4154.9	5.9	0.0126 µg/L	0.0126 ppb	05:07:46
2	As 188.979†	-12.6	8.0	2.4108 µg/L	2.4108 ppb	05:08:06
2	B 249.677†	3668.4	111.6	1.6444 µg/L	1.6444 ppb	05:07:46
2	Ba 233.527†	-119.9	17.6	0.0702 µg/L	0.0702 ppb	05:08:06
2	Be 313.107†	-953.3	124.6	0.0347 µg/L	0.0347 ppb	05:07:46
2	Cd 226.502†	-98.5	21.1	0.1314 µg/L	0.1314 ppb	05:08:06
2	Co 228.616†	-169.6	23.1	0.2846 µg/L	0.2846 ppb	05:08:06
2	Cr 267.716†	210.1	28.6	0.2214 µg/L	0.2214 ppb	05:08:06
2	Cu 324.752†	3022.7	8.5	0.0356 µg/L	0.0356 ppb	05:07:46
2	Mn 257.610†	280.0	38.8	0.0481 µg/L	0.0481 ppb	05:08:06
2	Mo 202.031†	-19.8	0.6	0.0163 µg/L	0.0163 ppb	05:08:06
2	Ni 231.604†	-119.3	-41.2	-0.4741 µg/L	-0.4741 ppb	05:08:06
2	P 214.914†	-19.4	-1.2	-0.2554 µg/L	-0.2554 ppb	05:08:06
2	Pb 220.353†	78.8	-8.6	-0.4842 µg/L	-0.4842 ppb	05:08:06

2	S 181.975 Axial†	123.0	16.3	12.075 µg/L	12.075 ppb	05:08:06
2	Sb 206.836†	74.6	-7.2	-0.8639 µg/L	-0.8639 ppb	05:08:06
2	Se 196.026†	21.6	6.0	2.19 µg/L	2.19 ppb	05:08:06
2	SiO2†	1761.0	-38.8	-3.8022 µg/L	-3.8022 ppb	05:08:06
2	Si 251.611†	806.3	-41.5	-0.6147 µg/L	-0.6147 ppb	05:07:46
2	Sn 189.927†	5.9	6.9	0.4326 µg/L	0.4326 ppb	05:08:06
2	Ti 334.940†	926.6	-38.8	-0.0372 µg/L	-0.0372 ppb	05:07:46
2	Tl 190.801†	-119.0	-0.7	-0.0930 µg/L	-0.0930 ppb	05:08:06
2	U 409.014†	-227.2	45.8	2.6178 µg/L	2.6178 ppb	05:07:46
2	V 292.402†	193.5	-213.0	-1.0360 µg/L	-1.0360 ppb	05:07:46
2	Zn 213.857†	609.0	36.1	0.2058 µg/L	0.2058 ppb	05:08:06
3	Sc RADIAL	142638.4	142638.4	97.7 %		05:06:41
3	Al 396.153Radial†	-22.0	40.7	7.5557 µg/L	7.5557 ppb	05:07:01
3	Ca 317.933Radial†	630.0	84.0	4.6771 µg/L	4.6771 ppb	05:07:01
3	Fe 238.204 Radial†	132.8	-12.2	-0.7538 µg/L	-0.7538 ppb	05:07:01
3	K 766.490 Radial†	1613.6	106.1	38.801 µg/L	38.801 ppb	05:06:41
3	Mg 279.077 IEC†	175.0	-11.7	-4.3601 µg/L	-4.3601 ppb	05:07:01
3	Na 589.592 Radial†	2479.7	1246.1	170.20 µg/L	170.20 ppb	05:06:41
3	Sr 421.552†	-208.4	-77.9	-0.1620 µg/L	-0.1620 ppb	05:06:41
3	Sc 361.383	1738163.3	1738163.3	101.16 %		05:08:08
3	Y 371.029	1035970.5	1035970.5	100.90 %		05:08:08
3	Ag 328.068†	4302.8	162.0	0.5833 µg/L	0.5833 ppb	05:08:10
3	As 188.979†	-21.8	-1.2	-0.3610 µg/L	-0.3610 ppb	05:08:30
3	B 249.677†	3574.8	27.9	0.4114 µg/L	0.4114 ppb	05:08:10
3	Ba 233.527†	-149.0	-11.4	-0.0465 µg/L	-0.0465 ppb	05:08:30
3	Be 313.107†	-873.2	201.5	0.0526 µg/L	0.0526 ppb	05:08:10
3	Cd 226.502†	-120.0	-0.4	-0.0024 µg/L	-0.0024 ppb	05:08:30
3	Co 228.616†	-182.7	9.7	0.1193 µg/L	0.1193 ppb	05:08:30
3	Cr 267.716†	174.3	-6.2	-0.0433 µg/L	-0.0433 ppb	05:08:30
3	Cu 324.752†	2971.9	-34.4	-0.1402 µg/L	-0.1402 ppb	05:08:10
3	Mn 257.610†	245.6	5.5	0.0070 µg/L	0.0070 ppb	05:08:30
3	Mo 202.031†	-34.6	-14.1	-0.4150 µg/L	-0.4150 ppb	05:08:30
3	Ni 231.604†	-92.5	-15.0	-0.1724 µg/L	-0.1724 ppb	05:08:30
3	P 214.914†	-13.5	4.6	0.9950 µg/L	0.9950 ppb	05:08:30
3	Pb 220.353†	106.1	18.5	1.0399 µg/L	1.0399 ppb	05:08:30
3	S 181.975 Axial†	143.8	37.1	27.534 µg/L	27.534 ppb	05:08:30
3	Sb 206.836†	58.1	-23.4	-2.7867 µg/L	-2.7867 ppb	05:08:30
3	Se 196.026†	4.1	-11.2	-4.05 µg/L	-4.05 ppb	05:08:30
3	SiO2†	1756.7	-38.8	-3.7752 µg/L	-3.7752 ppb	05:08:30
3	Si 251.611†	899.3	52.4	0.7804 µg/L	0.7804 ppb	05:08:10
3	Sn 189.927†	-7.1	-5.9	-0.3704 µg/L	-0.3704 ppb	05:08:30
3	Ti 334.940†	1084.8	119.8	0.1155 µg/L	0.1155 ppb	05:08:10
3	Tl 190.801†	-119.1	-1.1	-0.1349 µg/L	-0.1349 ppb	05:08:30
3	U 409.014†	-403.1	-128.6	-7.5533 µg/L	-7.5533 ppb	05:08:10
3	V 292.402†	284.4	-122.7	-0.6080 µg/L	-0.6080 ppb	05:08:10
3	Zn 213.857†	580.8	9.7	0.0558 µg/L	0.0558 ppb	05:08:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1746307.8	101.63 %	0.620			0.61%
Sc RADIAL	144093.4	98.7 %	1.07			1.08%
Y 371.029	1040311.6	101.33 %	0.588			0.58%
Ag 328.068†	99.2	0.3470 µg/L	0.29770	0.3470 ppb	0.29770	85.80%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	28.3	5.2611 µg/L	3.49970	5.2611 ppb	3.49970	66.52%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.1	2.1499 µg/L	2.39113	2.1499 ppb	2.39113	111.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	59.9	0.8830 µg/L	0.66564	0.8830 ppb	0.66564	75.39%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.0	-0.0327 µg/L	0.09673	-0.0327 ppb	0.09673	295.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	130.6	0.0325 µg/L	0.02135	0.0325 ppb	0.02135	65.76%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	67.7	3.7735 µg/L	0.83573	3.7735 ppb	0.83573	22.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.2	0.1073 µg/L	0.09986	0.1073 ppb	0.09986	93.05%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.5	0.1414 µg/L	0.13348	0.1414 ppb	0.13348	94.37%

Cr 267.716†	2.0	0.0236 µg/L	0.17422	0.0236 ppb	0.17422	737.23%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-49.9	-0.2022 µg/L	0.27414	-0.2022 ppb	0.27414	135.56%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	4.4	0.2695 µg/L	0.88639	0.2695 ppb	0.88639	328.85%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	24.9	9.0894 µg/L	42.42237	9.0894 ppb	42.42237	466.72%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-9.8	-3.6597 µg/L	1.67122	-3.6597 ppb	1.67122	45.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	30.1	0.0374 µg/L	0.02669	0.0374 ppb	0.02669	71.39%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-6.4	-0.1898 µg/L	0.21627	-0.1898 ppb	0.21627	113.95%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	1208.9	165.15 µg/L	14.597	165.15 ppb	14.597	8.84%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-24.5	-0.2827 µg/L	0.16642	-0.2827 ppb	0.16642	58.87%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.5	-1.1605 µg/L	2.72331	-1.1605 ppb	2.72331	234.67%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-6.8	-0.3732 µg/L	1.36106	-0.3732 ppb	1.36106	364.65%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	27.4	20.340 µg/L	7.7851	20.340 ppb	7.7851	38.27%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-10.7	-1.2715 µg/L	1.35806	-1.2715 ppb	1.35806	106.81%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.1	-0.764 µg/L	3.1328	-0.764 ppb	3.1328	410.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	-32.7	-3.1949 µg/L	1.02864	-3.1949 ppb	1.02864	32.20%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-0.9	-0.0129 µg/L	0.71695	-0.0129 ppb	0.71695	>999.9%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.4	0.3386 µg/L	0.66691	0.3386 ppb	0.66691	196.97%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-65.1	-0.1354 µg/L	0.03536	-0.1354 ppb	0.03536	26.10%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	1.4	0.0059 µg/L	0.09568	0.0059 ppb	0.09568	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.3	0.4047 µg/L	0.89852	0.4047 ppb	0.89852	222.02%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-175.0	-10.268 µg/L	14.4354	-10.268 ppb	14.4354	140.59%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-130.5	-0.6455 µg/L	0.37319	-0.6455 ppb	0.37319	57.82%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	26.4	0.1503 µg/L	0.08227	0.1503 ppb	0.08227	54.74%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 4/1/2010 5:25:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142109.2	142109.2	97.4 %		05:25:54
1	Al 396.153Radial†	25776.4	26532.6	4897.2 µg/L	4897.2 ppb	05:25:54
1	Ca 317.933Radial†	84821.4	86541.3	4820.7 µg/L	4820.7 ppb	05:25:54
1	Fe 238.204 Radial†	76100.5	77998.3	4807.3 µg/L	4807.3 ppb	05:25:54
1	K 766.490 Radial†	14457.5	13301.4	4865.9 µg/L	4865.9 ppb	05:25:54
1	Mg 279.077 IEC†	12927.9	13084.8	4882.6 µg/L	4882.6 ppb	05:25:54
1	Na 589.592 Radial†	70953.9	71570.7	9773.1 µg/L	9773.1 ppb	05:25:54
1	Sr 421.552†	225114.8	231302.2	480.83 µg/L	480.83 ppb	05:25:52
1	Sc 361.383	1720021.0	1720021.0	100.10 %		05:26:07
1	Y 371.029	1014640.3	1014640.3	98.826 %		05:26:07
1	Ag 328.068†	131353.4	127124.2	476.69 µg/L	476.69 ppb	05:26:07
1	As 188.979†	1548.2	1566.9	480.79 µg/L	480.79 ppb	05:26:27
1	B 249.677†	35677.1	32133.8	472.25 µg/L	472.25 ppb	05:26:07
1	Ba 233.527†	118456.3	118468.0	477.78 µg/L	477.78 ppb	05:26:07
1	Be 313.107†	1773301.1	1772506.5	482.75 µg/L	482.75 ppb	05:26:07
1	Cd 226.502†	76144.4	76182.7	475.57 µg/L	475.57 ppb	05:26:07
1	Co 228.616†	38814.2	38963.8	481.01 µg/L	481.01 ppb	05:26:07
1	Cr 267.716†	60767.8	60525.5	473.92 µg/L	473.92 ppb	05:26:07
1	Cu 324.752†	125732.9	122628.8	478.03 µg/L	478.03 ppb	05:26:07
1	Mn 257.610†	389049.0	388403.8	480.37 µg/L	480.37 ppb	05:26:07
1	Mo 202.031†	16074.3	16077.5	472.94 µg/L	472.94 ppb	05:26:27
1	Ni 231.604†	41434.5	41467.6	477.47 µg/L	477.47 ppb	05:26:07
1	P 214.914†	11070.6	11076.9	2360.9 µg/L	2360.9 ppb	05:26:27
1	Pb 220.353†	8624.5	8529.0	477.63 µg/L	477.63 ppb	05:26:27
1	S 181.975 Axial†	1382.5	1276.0	951.51 µg/L	951.51 ppb	05:26:27
1	Sb 206.836†	4042.7	3957.6	471.52 µg/L	471.52 ppb	05:26:27
1	Se 196.026†	1318.0	1301.4	473 µg/L	473 ppb	05:26:27
1	SiO2†	54725.0	52892.3	5149.5 µg/L	5149.5 ppb	05:26:07
1	Si 251.611†	165361.4	164351.5	2413.6 µg/L	2413.6 ppb	05:26:07
1	Sn 189.927†	7550.2	7543.4	471.86 µg/L	471.86 ppb	05:26:27
1	Ti 334.940†	512626.4	511136.4	476.93 µg/L	476.93 ppb	05:26:07
1	Tl 190.801†	3775.0	3887.7	484.84 µg/L	484.84 ppb	05:26:27
1	U 409.014†	7058.9	7321.4	457.10 µg/L	457.10 ppb	05:26:07
1	V 292.402†	97846.4	97340.0	481.12 µg/L	481.12 ppb	05:26:07
1	Zn 213.857†	85664.4	85010.2	473.79 µg/L	473.79 ppb	05:26:07
2	Sc RADIAL	141199.5	141199.5	96.8 %		05:25:58
2	Al 396.153Radial†	25565.2	26484.9	4888.2 µg/L	4888.2 ppb	05:25:58
2	Ca 317.933Radial†	84361.1	86626.7	4825.4 µg/L	4825.4 ppb	05:25:58
2	Fe 238.204 Radial†	75494.7	77875.7	4799.8 µg/L	4799.8 ppb	05:25:58
2	K 766.490 Radial†	14378.9	13315.8	4871.1 µg/L	4871.1 ppb	05:25:58
2	Mg 279.077 IEC†	12864.9	13105.1	4890.3 µg/L	4890.3 ppb	05:25:58
2	Na 589.592 Radial†	70502.5	71573.6	9773.5 µg/L	9773.5 ppb	05:25:58
2	Sr 421.552†	225485.6	233174.7	484.72 µg/L	484.72 ppb	05:25:56
2	Sc 361.383	1714706.6	1714706.6	99.796 %		05:26:30
2	Y 371.029	1012156.1	1012156.1	98.585 %		05:26:30
2	Ag 328.068†	130751.1	126927.5	475.95 µg/L	475.95 ppb	05:26:30
2	As 188.979†	1581.6	1605.2	492.35 µg/L	492.35 ppb	05:26:50
2	B 249.677†	35530.5	32097.4	471.72 µg/L	471.72 ppb	05:26:30
2	Ba 233.527†	118013.0	118390.5	477.47 µg/L	477.47 ppb	05:26:30
2	Be 313.107†	1765713.5	1770393.6	482.18 µg/L	482.18 ppb	05:26:30
2	Cd 226.502†	75961.6	76235.3	475.89 µg/L	475.89 ppb	05:26:30
2	Co 228.616†	38581.1	38850.4	479.61 µg/L	479.61 ppb	05:26:30
2	Cr 267.716†	60576.5	60522.0	473.88 µg/L	473.88 ppb	05:26:30
2	Cu 324.752†	125190.1	122474.3	477.44 µg/L	477.44 ppb	05:26:30
2	Mn 257.610†	388016.0	388573.2	480.57 µg/L	480.57 ppb	05:26:30
2	Mo 202.031†	16143.1	16196.2	476.42 µg/L	476.42 ppb	05:26:50
2	Ni 231.604†	41114.6	41275.3	475.25 µg/L	475.25 ppb	05:26:30
2	P 214.914†	11143.5	11184.3	2383.9 µg/L	2383.9 ppb	05:26:50
2	Pb 220.353†	8667.0	8598.3	481.49 µg/L	481.49 ppb	05:26:50

2	S 181.975 Axial†	1406.7	1304.5	972.73 µg/L	972.73 ppb	05:26:50
2	Sb 206.836†	4072.2	3999.7	476.57 µg/L	476.57 ppb	05:26:50
2	Se 196.026†	1332.7	1320.2	479 µg/L	479 ppb	05:26:50
2	SiO2†	54308.5	52644.4	5125.1 µg/L	5125.1 ppb	05:26:30
2	Si 251.611†	164475.8	163976.0	2408.0 µg/L	2408.0 ppb	05:26:30
2	Sn 189.927†	7621.3	7638.0	477.75 µg/L	477.75 ppb	05:26:50
2	Ti 334.940†	510463.7	510556.4	476.39 µg/L	476.39 ppb	05:26:30
2	Tl 190.801†	3772.9	3897.3	486.00 µg/L	486.00 ppb	05:26:50
2	U 409.014†	7234.6	7519.3	468.54 µg/L	468.54 ppb	05:26:30
2	V 292.402†	97054.2	96849.2	478.77 µg/L	478.77 ppb	05:26:30
2	Zn 213.857†	85259.7	84869.8	473.02 µg/L	473.02 ppb	05:26:30
3	Sc RADIAL	140766.0	140766.0	96.5 %		05:26:03
3	Al 396.153Radial†	25588.2	26590.1	4907.9 µg/L	4907.9 ppb	05:26:03
3	Ca 317.933Radial†	83962.6	86482.1	4817.4 µg/L	4817.4 ppb	05:26:03
3	Fe 238.204 Radial†	75418.7	78037.2	4809.7 µg/L	4809.7 ppb	05:26:03
3	K 766.490 Radial†	14639.8	13632.1	4986.9 µg/L	4986.9 ppb	05:26:03
3	Mg 279.077 IEC†	12762.5	13040.0	4865.9 µg/L	4865.9 ppb	05:26:03
3	Na 589.592 Radial†	70478.6	71773.2	9800.7 µg/L	9800.7 ppb	05:26:03
3	Sr 421.552†	226456.8	234899.3	488.30 µg/L	488.30 ppb	05:26:01
3	Sc 361.383	1728398.3	1728398.3	100.59 %		05:26:54
3	Y 371.029	1020054.8	1020054.8	99.354 %		05:26:54
3	Ag 328.068†	131808.1	126940.3	475.98 µg/L	475.98 ppb	05:26:54
3	As 188.979†	1576.6	1587.7	487.06 µg/L	487.06 ppb	05:27:14
3	B 249.677†	35623.6	31907.9	468.93 µg/L	468.93 ppb	05:26:54
3	Ba 233.527†	118888.6	118324.1	477.20 µg/L	477.20 ppb	05:26:54
3	Be 313.107†	1775775.0	1766380.0	481.08 µg/L	481.08 ppb	05:26:54
3	Cd 226.502†	76473.6	76141.3	475.31 µg/L	475.31 ppb	05:26:54
3	Co 228.616†	38807.3	38769.0	478.60 µg/L	478.60 ppb	05:26:54
3	Cr 267.716†	60978.6	60440.9	473.26 µg/L	473.26 ppb	05:26:54
3	Cu 324.752†	125716.1	122003.4	475.59 µg/L	475.59 ppb	05:26:54
3	Mn 257.610†	390074.1	387539.2	479.30 µg/L	479.30 ppb	05:26:54
3	Mo 202.031†	16123.4	16048.6	472.08 µg/L	472.08 ppb	05:27:14
3	Ni 231.604†	41447.0	41279.4	475.30 µg/L	475.30 ppb	05:26:54
3	P 214.914†	11104.3	11056.9	2356.7 µg/L	2356.7 ppb	05:27:14
3	Pb 220.353†	8630.8	8493.6	475.65 µg/L	475.65 ppb	05:27:14
3	S 181.975 Axial†	1393.5	1280.2	954.65 µg/L	954.65 ppb	05:27:14
3	Sb 206.836†	4077.0	3972.1	473.24 µg/L	473.24 ppb	05:27:14
3	Se 196.026†	1316.6	1293.6	470 µg/L	470 ppb	05:27:14
3	SiO2†	54892.1	52793.4	5139.9 µg/L	5139.9 ppb	05:26:54
3	Si 251.611†	165940.5	164126.5	2410.3 µg/L	2410.3 ppb	05:26:54
3	Sn 189.927†	7579.1	7535.6	471.37 µg/L	471.37 ppb	05:27:14
3	Ti 334.940†	513415.9	509439.2	475.35 µg/L	475.35 ppb	05:26:54
3	Tl 190.801†	3764.6	3859.1	481.31 µg/L	481.31 ppb	05:27:14
3	U 409.014†	7012.8	7241.4	452.32 µg/L	452.32 ppb	05:26:54
3	V 292.402†	97958.8	96978.0	479.34 µg/L	479.34 ppb	05:26:54
3	Zn 213.857†	85992.9	84922.0	473.31 µg/L	473.31 ppb	05:26:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1721042.0	100.16 %	0.402			0.40%
Sc RADIAL	141358.2	96.9 %	0.47			0.48%
Y 371.029	1015617.1	98.922 %	0.3934			0.40%
Ag 328.068†	126997.3	476.21 µg/L	0.419	476.21 ppb	0.419	0.09%
QC value within limits for Ag 328.068 Recovery = 95.24%						
Al 396.153Radial†	26535.9	4897.7 µg/L	9.87	4897.7 ppb	9.87	0.20%
QC value within limits for Al 396.153Radial Recovery = 97.95%						
As 188.979†	1586.6	486.74 µg/L	5.788	486.74 ppb	5.788	1.19%
QC value within limits for As 188.979 Recovery = 97.35%						
B 249.677†	32046.4	470.96 µg/L	1.785	470.96 ppb	1.785	0.38%
QC value within limits for B 249.677 Recovery = 94.19%						
Ba 233.527†	118394.2	477.48 µg/L	0.291	477.48 ppb	0.291	0.06%
QC value within limits for Ba 233.527 Recovery = 95.50%						
Be 313.107†	1769760.0	482.00 µg/L	0.848	482.00 ppb	0.848	0.18%
QC value within limits for Be 313.107 Recovery = 96.40%						
Ca 317.933Radial†	86550.0	4821.2 µg/L	4.05	4821.2 ppb	4.05	0.08%
QC value within limits for Ca 317.933Radial Recovery = 96.42%						
Cd 226.502†	76186.5	475.59 µg/L	0.295	475.59 ppb	0.295	0.06%
QC value within limits for Cd 226.502 Recovery = 95.12%						
Co 228.616†	38861.1	479.74 µg/L	1.208	479.74 ppb	1.208	0.25%

Cr	267.716†	60496.1	473.68 µg/L	0.370	473.68 ppb	0.370	0.08%
Cu	324.752†	122368.8	477.02 µg/L	1.270	477.02 ppb	1.270	0.27%
Fe	238.204 Radial†	77970.4	4805.6 µg/L	5.20	4805.6 ppb	5.20	0.11%
K	766.490 Radial†	13416.5	4908.0 µg/L	68.42	4908.0 ppb	68.42	1.39%
Mg	279.077 IEC†	13076.6	4879.6 µg/L	12.46	4879.6 ppb	12.46	0.26%
Mn	257.610†	388172.1	480.08 µg/L	0.686	480.08 ppb	0.686	0.14%
Mo	202.031†	16107.4	473.81 µg/L	2.300	473.81 ppb	2.300	0.49%
Na	589.592 Radial†	71639.1	9782.4 µg/L	15.80	9782.4 ppb	15.80	0.16%
Ni	231.604†	41340.7	476.01 µg/L	1.265	476.01 ppb	1.265	0.27%
P	214.914†	11106.0	2367.2 µg/L	14.66	2367.2 ppb	14.66	0.62%
Pb	220.353†	8540.3	478.26 µg/L	2.974	478.26 ppb	2.974	0.62%
S	181.975 Axial†	1286.9	959.63 µg/L	11.455	959.63 ppb	11.455	1.19%
Sb	206.836†	3976.5	473.78 µg/L	2.571	473.78 ppb	2.571	0.54%
Se	196.026†	1305.0	474 µg/L	5.0	474 ppb	5.0	1.05%
SiO2†		52776.7	5138.2 µg/L	12.30	5138.2 ppb	12.30	0.24%
Si	251.611†	164151.3	2410.6 µg/L	2.83	2410.6 ppb	2.83	0.12%
Sn	189.927†	7572.3	473.66 µg/L	3.553	473.66 ppb	3.553	0.75%
Sr	421.552†	233125.4	484.62 µg/L	3.740	484.62 ppb	3.740	0.77%
Ti	334.940†	510377.3	476.22 µg/L	0.804	476.22 ppb	0.804	0.17%
Tl	190.801†	3881.4	484.05 µg/L	2.444	484.05 ppb	2.444	0.50%
U	409.014†	7360.7	459.32 µg/L	8.335	459.32 ppb	8.335	1.81%
V	292.402†	97055.7	479.74 µg/L	1.225	479.74 ppb	1.225	0.26%
Zn	213.857†	84934.0	473.37 µg/L	0.390	473.37 ppb	0.390	0.08%

QC value within limits for Co 228.616 Recovery = 95.95%
 QC value within limits for Cr 267.716 Recovery = 94.74%
 QC value within limits for Cu 324.752 Recovery = 95.40%
 QC value within limits for Fe 238.204 Radial Recovery = 96.11%
 QC value within limits for K 766.490 Radial Recovery = 98.16%
 QC value within limits for Mg 279.077 IEC Recovery = 97.59%
 QC value within limits for Mn 257.610 Recovery = 96.02%
 QC value within limits for Mo 202.031 Recovery = 94.76%
 QC value within limits for Na 589.592 Radial Recovery = 97.82%
 QC value within limits for Ni 231.604 Recovery = 95.20%
 QC value within limits for P 214.914 Recovery = 94.69%
 QC value within limits for Pb 220.353 Recovery = 95.65%
 QC value within limits for S 181.975 Axial Recovery = 95.96%
 QC value within limits for Sb 206.836 Recovery = 94.76%
 QC value within limits for Se 196.026 Recovery = 94.78%
 QC value within limits for SiO2 Recovery = 96.09%
 QC value within limits for Si 251.611 Recovery = 96.43%
 QC value within limits for Sn 189.927 Recovery = 94.73%
 QC value within limits for Sr 421.552 Recovery = 96.92%
 QC value within limits for Ti 334.940 Recovery = 95.24%
 QC value within limits for Tl 190.801 Recovery = 96.81%
 QC value within limits for U 409.014 Recovery = 91.86%
 QC value within limits for V 292.402 Recovery = 95.95%
 QC value within limits for Zn 213.857 Recovery = 94.67%

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:27:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145094.0	145094.0	99.4 %		05:27:51
1	Al 396.153Radial†	-59.9	3.0	0.5652 µg/L	0.5652 ppb	05:28:11
1	Ca 317.933Radial†	628.5	71.6	3.9876 µg/L	3.9876 ppb	05:28:11
1	Fe 238.204 Radial†	231.1	84.3	5.1988 µg/L	5.1988 ppb	05:28:11
1	K 766.490 Radial†	1820.3	286.0	104.68 µg/L	104.68 ppb	05:27:51
1	Mg 279.077 IEC†	165.9	-23.8	-8.8786 µg/L	-8.8786 ppb	05:28:11
1	Na 589.592 Radial†	2325.2	1047.8	143.05 µg/L	143.05 ppb	05:27:51
1	Sr 421.552†	-266.7	-132.9	-0.2764 µg/L	-0.2764 ppb	05:27:51
1	Sc 361.383	1722926.7	1722926.7	100.27 %		05:29:12
1	Y 371.029	1027333.0	1027333.0	100.06 %		05:29:12
1	Ag 328.068†	4191.9	89.0	0.3300 µg/L	0.3300 ppb	05:29:14
1	As 188.979†	-14.3	6.1	1.8420 µg/L	1.8420 ppb	05:29:35
1	B 249.677†	3542.8	27.2	0.3995 µg/L	0.3995 ppb	05:29:14
1	Ba 233.527†	-162.8	-26.5	-0.1069 µg/L	-0.1069 ppb	05:29:35
1	Be 313.107†	-852.4	214.6	0.0591 µg/L	0.0591 ppb	05:29:14
1	Cd 226.502†	-86.1	32.3	0.2010 µg/L	0.2010 ppb	05:29:35
1	Co 228.616†	-156.4	34.4	0.4236 µg/L	0.4236 ppb	05:29:35
1	Cr 267.716†	203.5	24.4	0.1896 µg/L	0.1896 ppb	05:29:35
1	Cu 324.752†	2961.9	-18.5	-0.0692 µg/L	-0.0692 ppb	05:29:14
1	Mn 257.610†	392.9	154.6	0.1916 µg/L	0.1916 ppb	05:29:35
1	Mo 202.031†	-28.3	-8.1	-0.2386 µg/L	-0.2386 ppb	05:29:35
1	Ni 231.604†	-88.9	-12.2	-0.1403 µg/L	-0.1403 ppb	05:29:35
1	P 214.914†	-15.1	2.9	0.6266 µg/L	0.6266 ppb	05:29:35
1	Pb 220.353†	85.7	-0.9	-0.0513 µg/L	-0.0513 ppb	05:29:35
1	S 181.975 Axial†	131.0	25.6	19.013 µg/L	19.013 ppb	05:29:35
1	Sb 206.836†	80.9	-0.1	-0.0219 µg/L	-0.0219 ppb	05:29:35
1	Se 196.026†	19.7	4.3	1.57 µg/L	1.57 ppb	05:29:35
1	SiO2†	1905.1	124.5	12.167 µg/L	12.167 ppb	05:29:35
1	Si 251.611†	1275.1	435.1	6.4120 µg/L	6.4120 ppb	05:29:14
1	Sn 189.927†	11.4	12.5	0.7792 µg/L	0.7792 ppb	05:29:35
1	Ti 334.940†	919.0	-36.1	-0.0338 µg/L	-0.0338 ppb	05:29:14
1	Tl 190.801†	-127.5	-10.5	-1.2909 µg/L	-1.2909 ppb	05:29:35
1	U 409.014†	-235.2	35.4	2.0582 µg/L	2.0582 ppb	05:29:14
1	V 292.402†	370.1	-34.7	-0.1702 µg/L	-0.1702 ppb	05:29:14
1	Zn 213.857†	634.8	68.7	0.3862 µg/L	0.3862 ppb	05:29:35
2	Sc RADIAL	144080.7	144080.7	98.7 %		05:28:13
2	Al 396.153Radial†	-53.3	9.2	1.7250 µg/L	1.7250 ppb	05:28:33
2	Ca 317.933Radial†	591.5	38.5	2.1464 µg/L	2.1464 ppb	05:28:33
2	Fe 238.204 Radial†	210.0	64.6	3.9798 µg/L	3.9798 ppb	05:28:33
2	K 766.490 Radial†	1746.6	224.2	82.066 µg/L	82.066 ppb	05:28:13
2	Mg 279.077 IEC†	193.0	4.8	1.7636 µg/L	1.7636 ppb	05:28:33
2	Na 589.592 Radial†	2300.1	1038.8	141.84 µg/L	141.84 ppb	05:28:13
2	Sr 421.552†	-165.2	-32.0	-0.0666 µg/L	-0.0666 ppb	05:28:13
2	Sc 361.383	1740859.5	1740859.5	101.32 %		05:29:37
2	Y 371.029	1036711.8	1036711.8	100.98 %		05:29:37
2	Ag 328.068†	4348.9	200.9	0.7572 µg/L	0.7572 ppb	05:29:39
2	As 188.979†	-20.1	0.5	0.1512 µg/L	0.1512 ppb	05:29:59
2	B 249.677†	3481.8	-69.4	-1.0237 µg/L	-1.0237 ppb	05:29:39
2	Ba 233.527†	-139.2	-1.6	-0.0061 µg/L	-0.0061 ppb	05:29:59
2	Be 313.107†	-922.0	154.7	0.0434 µg/L	0.0434 ppb	05:29:39
2	Cd 226.502†	-72.0	47.2	0.2941 µg/L	0.2941 ppb	05:29:59
2	Co 228.616†	-175.5	17.1	0.2107 µg/L	0.2107 ppb	05:29:59
2	Cr 267.716†	196.7	15.6	0.1188 µg/L	0.1188 ppb	05:29:59
2	Cu 324.752†	2833.0	-176.1	-0.6798 µg/L	-0.6798 ppb	05:29:39
2	Mn 257.610†	379.8	137.6	0.1701 µg/L	0.1701 ppb	05:29:59
2	Mo 202.031†	-32.1	-11.6	-0.3419 µg/L	-0.3419 ppb	05:29:59
2	Ni 231.604†	-73.2	4.3	0.0493 µg/L	0.0493 ppb	05:29:59
2	P 214.914†	-25.7	-7.4	-1.5832 µg/L	-1.5832 ppb	05:29:59
2	Pb 220.353†	91.3	3.7	0.2019 µg/L	0.2019 ppb	05:29:59

2	S 181.975 Axial†	123.5	16.9	12.513 µg/L	12.513 ppb	05:29:59
2	Sb 206.836†	64.2	-17.5	-2.0852 µg/L	-2.0852 ppb	05:29:59
2	Se 196.026†	10.7	-4.7	-1.68 µg/L	-1.68 ppb	05:29:59
2	SiO2†	1876.6	76.9	7.5240 µg/L	7.5240 ppb	05:29:59
2	Si 251.611†	1432.5	577.3	8.5170 µg/L	8.5170 ppb	05:29:39
2	Sn 189.927†	-4.1	-2.9	-0.1802 µg/L	-0.1802 ppb	05:29:59
2	Ti 334.940†	871.5	-92.4	-0.0882 µg/L	-0.0882 ppb	05:29:39
2	Tl 190.801†	-105.4	12.6	1.5543 µg/L	1.5543 ppb	05:29:59
2	U 409.014†	-197.5	74.9	4.4195 µg/L	4.4195 ppb	05:29:39
2	V 292.402†	546.5	135.6	0.6611 µg/L	0.6611 ppb	05:29:39
2	Zn 213.857†	610.3	38.0	0.2130 µg/L	0.2130 ppb	05:29:59
3	Sc RADIAL	142537.5	142537.5	97.7 %		05:28:35
3	Al 396.153Radial†	-60.6	1.2	0.2221 µg/L	0.2221 ppb	05:28:55
3	Ca 317.933Radial†	625.4	79.7	4.4403 µg/L	4.4403 ppb	05:28:55
3	Fe 238.204 Radial†	216.0	73.0	4.4993 µg/L	4.4993 ppb	05:28:55
3	K 766.490 Radial†	1767.0	264.3	96.750 µg/L	96.750 ppb	05:28:35
3	Mg 279.077 IEC†	187.3	1.1	0.4011 µg/L	0.4011 ppb	05:28:55
3	Na 589.592 Radial†	2058.1	816.3	111.43 µg/L	111.43 ppb	05:28:35
3	Sr 421.552†	-153.3	-21.6	-0.0450 µg/L	-0.0450 ppb	05:28:35
3	Sc 361.383	1734315.4	1734315.4	100.94 %		05:30:01
3	Y 371.029	1034008.1	1034008.1	100.71 %		05:30:01
3	Ag 328.068†	3960.1	-168.1	-0.6218 µg/L	-0.6218 ppb	05:30:03
3	As 188.979†	-1.8	18.5	5.6093 µg/L	5.6093 ppb	05:30:23
3	B 249.677†	3485.6	-52.6	-0.7772 µg/L	-0.7772 ppb	05:30:03
3	Ba 233.527†	-157.6	-20.3	-0.0820 µg/L	-0.0820 ppb	05:30:23
3	Be 313.107†	-656.4	414.4	0.1129 µg/L	0.1129 ppb	05:30:03
3	Cd 226.502†	-113.8	5.5	0.0337 µg/L	0.0337 ppb	05:30:23
3	Co 228.616†	-169.5	22.4	0.2758 µg/L	0.2758 ppb	05:30:23
3	Cr 267.716†	226.0	45.3	0.3548 µg/L	0.3548 ppb	05:30:23
3	Cu 324.752†	2923.9	-75.5	-0.2921 µg/L	-0.2921 ppb	05:30:03
3	Mn 257.610†	366.0	125.3	0.1550 µg/L	0.1550 ppb	05:30:23
3	Mo 202.031†	-25.2	-4.9	-0.1429 µg/L	-0.1429 ppb	05:30:23
3	Ni 231.604†	-101.4	-24.0	-0.2758 µg/L	-0.2758 ppb	05:30:23
3	P 214.914†	-13.1	5.0	1.0675 µg/L	1.0675 ppb	05:30:23
3	Pb 220.353†	64.9	-22.1	-1.2346 µg/L	-1.2346 ppb	05:30:23
3	S 181.975 Axial†	129.8	23.6	17.494 µg/L	17.494 ppb	05:30:23
3	Sb 206.836†	87.0	5.4	0.6334 µg/L	0.6334 ppb	05:30:23
3	Se 196.026†	10.7	-4.7	-1.70 µg/L	-1.70 ppb	05:30:23
3	SiO2†	1882.5	89.6	8.7541 µg/L	8.7541 ppb	05:30:23
3	Si 251.611†	1382.2	532.8	7.8517 µg/L	7.8517 ppb	05:30:03
3	Sn 189.927†	11.8	12.8	0.7982 µg/L	0.7982 ppb	05:30:23
3	Ti 334.940†	879.1	-81.6	-0.0764 µg/L	-0.0764 ppb	05:30:03
3	Tl 190.801†	-116.9	0.8	0.1011 µg/L	0.1011 ppb	05:30:23
3	U 409.014†	-266.9	5.4	0.3199 µg/L	0.3199 ppb	05:30:03
3	V 292.402†	413.0	5.4	0.0263 µg/L	0.0263 ppb	05:30:03
3	Zn 213.857†	613.4	43.3	0.2445 µg/L	0.2445 ppb	05:30:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732700.5	100.84 %	0.528			0.52%
Sc RADIAL	143904.1	98.6 %	0.88			0.89%
Y 371.029	1032684.3	100.58 %	0.470			0.47%
Ag 328.068†	40.6	0.1551 µg/L	0.70592	0.1551 ppb	0.70592	455.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.5	0.8374 µg/L	0.78760	0.8374 ppb	0.78760	94.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.4	2.5342 µg/L	2.79413	2.5342 ppb	2.79413	110.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-31.6	-0.4672 µg/L	0.76060	-0.4672 ppb	0.76060	162.81%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-16.1	-0.0650 µg/L	0.05251	-0.0650 ppb	0.05251	80.77%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	261.2	0.0718 µg/L	0.03646	0.0718 ppb	0.03646	50.77%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	63.3	3.5248 µg/L	1.21495	3.5248 ppb	1.21495	34.47%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	28.3	0.1763 µg/L	0.13198	0.1763 ppb	0.13198	74.87%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	24.6	0.3034 µg/L	0.10911	0.3034 ppb	0.10911	35.97%

Cr	267.716†	28.4	0.2211 µg/L	0.12108	0.2211 ppb	0.12108	54.77%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-90.0	-0.3471 µg/L	0.30898	-0.3471 ppb	0.30898	89.03%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	74.0	4.5593 µg/L	0.61170	4.5593 ppb	0.61170	13.42%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	258.2	94.499 µg/L	11.4743	94.499 ppb	11.4743	12.14%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-6.0	-2.2380 µg/L	5.79119	-2.2380 ppb	5.79119	258.77%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	139.1	0.1722 µg/L	0.01838	0.1722 ppb	0.01838	10.67%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-8.2	-0.2411 µg/L	0.09951	-0.2411 ppb	0.09951	41.27%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	967.6	132.11 µg/L	17.919	132.11 ppb	17.919	13.56%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-10.6	-0.1222 µg/L	0.16331	-0.1222 ppb	0.16331	133.60%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.1	0.0370 µg/L	1.42036	0.0370 ppb	1.42036	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-6.4	-0.3613 µg/L	0.76677	-0.3613 ppb	0.76677	212.21%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	22.0	16.340 µg/L	3.4002	16.340 ppb	3.4002	20.81%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-4.1	-0.4912 µg/L	1.41878	-0.4912 ppb	1.41878	288.83%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-1.7	-0.603 µg/L	1.8834	-0.603 ppb	1.8834	312.20%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		97.0	9.4816 µg/L	2.40526	9.4816 ppb	2.40526	25.37%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	515.1	7.5935 µg/L	1.07596	7.5935 ppb	1.07596	14.17%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	7.5	0.4657 µg/L	0.55945	0.4657 ppb	0.55945	120.12%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-62.2	-0.1293 µg/L	0.12779	-0.1293 ppb	0.12779	98.81%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-70.0	-0.0661 µg/L	0.02865	-0.0661 ppb	0.02865	43.32%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.0	0.1215 µg/L	1.42267	0.1215 ppb	1.42267	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	38.6	2.2659 µg/L	2.05768	2.2659 ppb	2.05768	90.81%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	35.4	0.1724 µg/L	0.43447	0.1724 ppb	0.43447	252.00%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	50.0	0.2812 µg/L	0.09229	0.2812 ppb	0.09229	32.82%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 25

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 5:48:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143412.4	143412.4	98.3	%		05:49:20
1	Al 396.153Radial†	26401.8	26928.4	4970.4	µg/L	4970.4 ppb	05:49:20
1	Ca 317.933Radial†	85354.2	86291.8	4806.8	µg/L	4806.8 ppb	05:49:20
1	Fe 238.204 Radial†	76673.8	77871.6	4799.5	µg/L	4799.5 ppb	05:49:20
1	K 766.490 Radial†	14895.1	13611.7	4979.5	µg/L	4979.5 ppb	05:49:20
1	Mg 279.077 IEC†	13059.8	13098.4	4887.8	µg/L	4887.8 ppb	05:49:20
1	Na 589.592 Radial†	71028.8	70984.7	9692.9	µg/L	9692.9 ppb	05:49:20
1	Sr 421.552†	229178.2	233336.3	485.05	µg/L	485.05 ppb	05:49:18
1	Sc 361.383	1730211.6	1730211.6	100.70	%		05:49:47
1	Y 371.029	1019921.2	1019921.2	99.341	%		05:49:47
1	Ag 328.068†	132371.2	127362.2	477.57	µg/L	477.57 ppb	05:49:47
1	As 188.979†	1580.3	1589.7	487.69	µg/L	487.69 ppb	05:50:07
1	B 249.677†	35992.5	32237.1	473.77	µg/L	473.77 ppb	05:49:47
1	Ba 233.527†	119122.3	118432.3	477.63	µg/L	477.63 ppb	05:49:47
1	Be 313.107†	1783529.6	1772230.7	482.68	µg/L	482.68 ppb	05:49:47
1	Cd 226.502†	76519.0	76106.7	475.09	µg/L	475.09 ppb	05:49:47
1	Co 228.616†	39087.0	39006.3	481.53	µg/L	481.53 ppb	05:49:47
1	Cr 267.716†	61067.6	60465.7	473.44	µg/L	473.44 ppb	05:49:47
1	Cu 324.752†	126249.6	122402.2	477.15	µg/L	477.15 ppb	05:49:47
1	Mn 257.610†	390842.1	387895.4	479.74	µg/L	479.74 ppb	05:49:47
1	Mo 202.031†	16272.1	16179.3	475.93	µg/L	475.93 ppb	05:50:07
1	Ni 231.604†	41554.3	41342.8	476.03	µg/L	476.03 ppb	05:49:47
1	P 214.914†	11229.3	11169.4	2380.7	µg/L	2380.7 ppb	05:50:07
1	Pb 220.353†	8733.4	8586.5	480.84	µg/L	480.84 ppb	05:50:07
1	S 181.975 Axial†	1425.4	1310.4	977.11	µg/L	977.11 ppb	05:50:07
1	Sb 206.836†	4105.8	3996.5	476.20	µg/L	476.20 ppb	05:50:07
1	Se 196.026†	1349.6	1324.9	481	µg/L	481 ppb	05:50:07
1	SiO2†	54887.0	52731.2	5133.6	µg/L	5133.6 ppb	05:49:47
1	Si 251.611†	166441.0	164450.6	2415.0	µg/L	2415.0 ppb	05:49:47
1	Sn 189.927†	7680.6	7628.5	477.17	µg/L	477.17 ppb	05:50:07
1	Ti 334.940†	515593.8	511067.1	476.86	µg/L	476.86 ppb	05:49:47
1	Tl 190.801†	3810.3	3900.6	486.41	µg/L	486.41 ppb	05:50:07
1	U 409.014†	7255.0	7474.6	465.99	µg/L	465.99 ppb	05:49:47
1	V 292.402†	98177.3	97092.9	479.95	µg/L	479.95 ppb	05:49:47
1	Zn 213.857†	86203.6	85041.6	473.98	µg/L	473.98 ppb	05:49:47
2	Sc RADIAL	142196.1	142196.1	97.4	%		05:49:24
2	Al 396.153Radial†	26051.6	26798.8	4946.2	µg/L	4946.2 ppb	05:49:24
2	Ca 317.933Radial†	84815.3	86481.7	4817.4	µg/L	4817.4 ppb	05:49:24
2	Fe 238.204 Radial†	76151.2	78002.6	4807.6	µg/L	4807.6 ppb	05:49:24
2	K 766.490 Radial†	14651.7	13491.6	4935.5	µg/L	4935.5 ppb	05:49:24
2	Mg 279.077 IEC†	12902.3	13050.4	4870.0	µg/L	4870.0 ppb	05:49:24
2	Na 589.592 Radial†	70951.4	71523.6	9766.6	µg/L	9766.6 ppb	05:49:24
2	Sr 421.552†	226963.0	233057.6	484.48	µg/L	484.48 ppb	05:49:22
2	Sc 361.383	1711422.3	1711422.3	99.605	%		05:50:10
2	Y 371.029	1009637.8	1009637.8	98.339	%		05:50:10
2	Ag 328.068†	130850.2	127278.3	477.22	µg/L	477.22 ppb	05:50:10
2	As 188.979†	1598.7	1625.4	498.49	µg/L	498.49 ppb	05:50:30
2	B 249.677†	35154.5	31788.2	467.16	µg/L	467.16 ppb	05:50:10
2	Ba 233.527†	117404.2	118006.2	475.92	µg/L	475.92 ppb	05:50:10
2	Be 313.107†	1756284.2	1764322.3	480.52	µg/L	480.52 ppb	05:50:10
2	Cd 226.502†	75197.1	75613.9	472.01	µg/L	472.01 ppb	05:50:10
2	Co 228.616†	38365.9	38708.5	477.85	µg/L	477.85 ppb	05:50:10
2	Cr 267.716†	60355.4	60416.4	473.07	µg/L	473.07 ppb	05:50:10
2	Cu 324.752†	124533.5	122055.7	475.79	µg/L	475.79 ppb	05:50:10
2	Mn 257.610†	385706.8	387001.0	478.63	µg/L	478.63 ppb	05:50:10
2	Mo 202.031†	16262.3	16346.9	480.85	µg/L	480.85 ppb	05:50:30
2	Ni 231.604†	41042.2	41281.7	475.33	µg/L	475.33 ppb	05:50:10
2	P 214.914†	11266.0	11328.7	2414.8	µg/L	2414.8 ppb	05:50:30
2	Pb 220.353†	8729.0	8677.3	485.93	µg/L	485.93 ppb	05:50:30

2	S 181.975 Axial†	1419.3	1319.9	984.19 µg/L	984.19 ppb	05:50:30
2	Sb 206.836†	4110.4	4045.9	482.15 µg/L	482.15 ppb	05:50:30
2	Se 196.026†	1329.1	1319.1	479 µg/L	479 ppb	05:50:30
2	SiO2†	54209.3	52649.2	5125.4 µg/L	5125.4 ppb	05:50:10
2	Si 251.611†	164109.6	163924.7	2407.1 µg/L	2407.1 ppb	05:50:10
2	Sn 189.927†	7715.7	7747.5	484.58 µg/L	484.58 ppb	05:50:30
2	Ti 334.940†	508781.4	509849.0	475.74 µg/L	475.74 ppb	05:50:10
2	Tl 190.801†	3813.9	3945.7	491.95 µg/L	491.95 ppb	05:50:30
2	U 409.014†	6854.2	7151.3	447.01 µg/L	447.01 ppb	05:50:10
2	V 292.402†	96859.0	96839.8	478.75 µg/L	478.75 ppb	05:50:10
2	Zn 213.857†	84794.5	84566.7	471.31 µg/L	471.31 ppb	05:50:10
3	Sc RADIAL	141335.7	141335.7	96.9 %		05:49:28
3	Al 396.153Radial†	26120.4	27032.6	4989.8 µg/L	4989.8 ppb	05:49:28
3	Ca 317.933Radial†	84304.0	86483.7	4817.5 µg/L	4817.5 ppb	05:49:28
3	Fe 238.204 Radial†	75608.4	77917.9	4802.4 µg/L	4802.4 ppb	05:49:28
3	K 766.490 Radial†	14536.3	13464.0	4925.4 µg/L	4925.4 ppb	05:49:28
3	Mg 279.077 IEC†	12814.7	13040.5	4866.2 µg/L	4866.2 ppb	05:49:28
3	Na 589.592 Radial†	70539.5	71541.6	9769.1 µg/L	9769.1 ppb	05:49:28
3	Sr 421.552†	227249.7	234771.7	488.04 µg/L	488.04 ppb	05:49:26
3	Sc 361.383	1733201.8	1733201.8	100.87 %		05:50:33
3	Y 371.029	1022663.1	1022663.1	99.608 %		05:50:33
3	Ag 328.068†	132633.2	127395.2	477.67 µg/L	477.67 ppb	05:50:33
3	As 188.979†	1582.5	1589.2	487.52 µg/L	487.52 ppb	05:50:53
3	B 249.677†	36094.1	32276.2	474.35 µg/L	474.35 ppb	05:50:33
3	Ba 233.527†	119057.4	118163.9	476.55 µg/L	476.55 ppb	05:50:33
3	Be 313.107†	1787762.0	1773370.8	482.99 µg/L	482.99 ppb	05:50:33
3	Cd 226.502†	76586.0	76042.1	474.69 µg/L	474.69 ppb	05:50:33
3	Co 228.616†	38990.5	38843.7	479.52 µg/L	479.52 ppb	05:50:33
3	Cr 267.716†	61083.4	60376.7	472.75 µg/L	472.75 ppb	05:50:33
3	Cu 324.752†	126318.2	122253.9	476.57 µg/L	476.57 ppb	05:50:33
3	Mn 257.610†	391061.7	387443.6	479.18 µg/L	479.18 ppb	05:50:33
3	Mo 202.031†	16268.9	16148.3	475.02 µg/L	475.02 ppb	05:50:53
3	Ni 231.604†	41668.5	41384.8	476.52 µg/L	476.52 ppb	05:50:33
3	P 214.914†	11230.7	11151.6	2376.9 µg/L	2376.9 ppb	05:50:53
3	Pb 220.353†	8738.5	8576.5	480.29 µg/L	480.29 ppb	05:50:53
3	S 181.975 Axial†	1428.3	1310.9	977.43 µg/L	977.43 ppb	05:50:53
3	Sb 206.836†	4099.1	3982.8	474.57 µg/L	474.57 ppb	05:50:53
3	Se 196.026†	1336.9	1310.1	476 µg/L	476 ppb	05:50:53
3	SiO2†	55101.1	52849.4	5145.2 µg/L	5145.2 ppb	05:50:33
3	Si 251.611†	166788.7	164510.2	2415.9 µg/L	2415.9 ppb	05:50:33
3	Sn 189.927†	7690.0	7624.6	476.92 µg/L	476.92 ppb	05:50:53
3	Ti 334.940†	516020.5	510606.7	476.44 µg/L	476.44 ppb	05:50:33
3	Tl 190.801†	3800.5	3884.3	484.40 µg/L	484.40 ppb	05:50:53
3	U 409.014†	7160.9	7368.9	459.75 µg/L	459.75 ppb	05:50:33
3	V 292.402†	98149.4	96897.1	478.98 µg/L	478.98 ppb	05:50:33
3	Zn 213.857†	86284.5	84974.1	473.60 µg/L	473.60 ppb	05:50:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724945.2	100.39 %	0.687			0.68%
Sc RADIAL	142314.7	97.5 %	0.72			0.73%
Y 371.029	1017407.4	99.096 %	0.6688			0.67%
Ag 328.068†	127345.2	477.49 µg/L	0.237	477.49 ppb	0.237	0.05%
QC value within limits for Ag 328.068 Recovery = 95.50%						
Al 396.153Radial†	26919.9	4968.8 µg/L	21.86	4968.8 ppb	21.86	0.44%
QC value within limits for Al 396.153Radial Recovery = 99.38%						
As 188.979†	1601.5	491.23 µg/L	6.288	491.23 ppb	6.288	1.28%
QC value within limits for As 188.979 Recovery = 98.25%						
B 249.677†	32100.5	471.76 µg/L	3.994	471.76 ppb	3.994	0.85%
QC value within limits for B 249.677 Recovery = 94.35%						
Ba 233.527†	118200.8	476.70 µg/L	0.868	476.70 ppb	0.868	0.18%
QC value within limits for Ba 233.527 Recovery = 95.34%						
Be 313.107†	1769974.6	482.06 µg/L	1.344	482.06 ppb	1.344	0.28%
QC value within limits for Be 313.107 Recovery = 96.41%						
Ca 317.933Radial†	86419.1	4813.9 µg/L	6.14	4813.9 ppb	6.14	0.13%
QC value within limits for Ca 317.933Radial Recovery = 96.28%						
Cd 226.502†	75920.9	473.93 µg/L	1.674	473.93 ppb	1.674	0.35%
QC value within limits for Cd 226.502 Recovery = 94.79%						
Co 228.616†	38852.9	479.64 µg/L	1.841	479.64 ppb	1.841	0.38%

QC value within limits for Co 228.616 Recovery = 95.93%							
Cr 267.716†	60419.6	473.09 µg/L	0.346	473.09 ppb	0.346	0.07%	
QC value within limits for Cr 267.716 Recovery = 94.62%							
Cu 324.752†	122237.3	476.51 µg/L	0.684	476.51 ppb	0.684	0.14%	
QC value within limits for Cu 324.752 Recovery = 95.30%							
Fe 238.204 Radial†	77930.7	4803.2 µg/L	4.09	4803.2 ppb	4.09	0.09%	
QC value within limits for Fe 238.204 Radial Recovery = 96.06%							
K 766.490 Radial†	13522.5	4946.8 µg/L	28.77	4946.8 ppb	28.77	0.58%	
QC value within limits for K 766.490 Radial Recovery = 98.94%							
Mg 279.077 IEC†	13063.1	4874.6 µg/L	11.52	4874.6 ppb	11.52	0.24%	
QC value within limits for Mg 279.077 IEC Recovery = 97.49%							
Mn 257.610†	387446.7	479.18 µg/L	0.553	479.18 ppb	0.553	0.12%	
QC value within limits for Mn 257.610 Recovery = 95.84%							
Mo 202.031†	16224.9	477.27 µg/L	3.139	477.27 ppb	3.139	0.66%	
QC value within limits for Mo 202.031 Recovery = 95.45%							
Na 589.592 Radial†	71350.0	9742.9 µg/L	43.25	9742.9 ppb	43.25	0.44%	
QC value within limits for Na 589.592 Radial Recovery = 97.43%							
Ni 231.604†	41336.4	475.96 µg/L	0.597	475.96 ppb	0.597	0.13%	
QC value within limits for Ni 231.604 Recovery = 95.19%							
P 214.914†	11216.5	2390.8 µg/L	20.86	2390.8 ppb	20.86	0.87%	
QC value within limits for P 214.914 Recovery = 95.63%							
Pb 220.353†	8613.4	482.35 µg/L	3.112	482.35 ppb	3.112	0.65%	
QC value within limits for Pb 220.353 Recovery = 96.47%							
S 181.975 Axial†	1313.7	979.57 µg/L	4.000	979.57 ppb	4.000	0.41%	
QC value within limits for S 181.975 Axial Recovery = 97.96%							
Sb 206.836†	4008.4	477.64 µg/L	3.993	477.64 ppb	3.993	0.84%	
QC value within limits for Sb 206.836 Recovery = 95.53%							
Se 196.026†	1318.0	479 µg/L	2.7	479 ppb	2.7	0.56%	
QC value within limits for Se 196.026 Recovery = 95.72%							
SiO2†	52743.2	5134.7 µg/L	9.97	5134.7 ppb	9.97	0.19%	
QC value within limits for SiO2 Recovery = 96.02%							
Si 251.611†	164295.2	2412.7 µg/L	4.82	2412.7 ppb	4.82	0.20%	
QC value within limits for Si 251.611 Recovery = 96.51%							
Sn 189.927†	7666.9	479.55 µg/L	4.353	479.55 ppb	4.353	0.91%	
QC value within limits for Sn 189.927 Recovery = 95.91%							
Sr 421.552†	233721.9	485.86 µg/L	1.912	485.86 ppb	1.912	0.39%	
QC value within limits for Sr 421.552 Recovery = 97.17%							
Ti 334.940†	510507.6	476.35 µg/L	0.570	476.35 ppb	0.570	0.12%	
QC value within limits for Ti 334.940 Recovery = 95.27%							
Tl 190.801†	3910.2	487.59 µg/L	3.906	487.59 ppb	3.906	0.80%	
QC value within limits for Tl 190.801 Recovery = 97.52%							
U 409.014†	7331.6	457.58 µg/L	9.674	457.58 ppb	9.674	2.11%	
QC value within limits for U 409.014 Recovery = 91.52%							
V 292.402†	96943.2	479.23 µg/L	0.636	479.23 ppb	0.636	0.13%	
QC value within limits for V 292.402 Recovery = 95.85%							
Zn 213.857†	84860.8	472.96 µg/L	1.440	472.96 ppb	1.440	0.30%	
QC value within limits for Zn 213.857 Recovery = 94.59%							

All analyte(s) passed QC.

Sequence No.: 26

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 5:51:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143857.1	143857.1	98.6 %		05:51:30
1	Al 396.153Radial†	-190.3	-129.8	-24.073 µg/L	-24.073 ppb	05:51:30
1	Ca 317.933Radial†	662.4	111.4	6.2040 µg/L	6.2040 ppb	05:51:50
1	Fe 238.204 Radial†	240.6	95.9	5.9120 µg/L	5.9120 ppb	05:51:50
1	K 766.490 Radial†	1827.4	309.0	113.10 µg/L	113.10 ppb	05:51:30
1	Mg 279.077 IEC†	175.4	-12.8	-4.7672 µg/L	-4.7672 ppb	05:51:50
1	Na 589.592 Radial†	2010.1	748.3	102.12 µg/L	102.12 ppb	05:51:30
1	Sr 421.552†	-121.3	12.2	0.0254 µg/L	0.0254 ppb	05:51:30
1	Sc 361.383	1744647.3	1744647.3	101.54 %		05:52:38
1	Y 371.029	1039852.7	1039852.7	101.28 %		05:52:38
1	Ag 328.068†	4231.3	75.8	0.2964 µg/L	0.2964 ppb	05:52:40
1	As 188.979†	-7.4	13.0	3.9399 µg/L	3.9399 ppb	05:53:00
1	B 249.677†	3576.6	16.5	0.2423 µg/L	0.2423 ppb	05:52:40
1	Ba 233.527†	-119.0	18.7	0.0755 µg/L	0.0755 ppb	05:53:00
1	Be 313.107†	-677.2	397.7	0.1113 µg/L	0.1113 ppb	05:52:40
1	Cd 226.502†	-106.3	13.5	0.0838 µg/L	0.0838 ppb	05:53:00
1	Co 228.616†	-169.0	23.9	0.2944 µg/L	0.2944 ppb	05:53:00
1	Cr 267.716†	182.7	1.3	0.0029 µg/L	0.0029 ppb	05:53:00
1	Cu 324.752†	2933.5	-83.2	-0.3139 µg/L	-0.3139 ppb	05:52:40
1	Mn 257.610†	360.3	117.6	0.1457 µg/L	0.1457 ppb	05:53:00
1	Mo 202.031†	-13.1	7.1	0.2103 µg/L	0.2103 ppb	05:53:00
1	Ni 231.604†	-81.2	-3.4	-0.0393 µg/L	-0.0393 ppb	05:53:00
1	P 214.914†	-3.1	15.0	3.1893 µg/L	3.1893 ppb	05:53:00
1	Pb 220.353†	103.2	15.2	0.8412 µg/L	0.8412 ppb	05:53:00
1	S 181.975 Axial†	129.0	22.0	16.316 µg/L	16.316 ppb	05:53:00
1	Sb 206.836†	84.3	2.2	0.2646 µg/L	0.2646 ppb	05:53:00
1	Se 196.026†	21.1	5.5	2.01 µg/L	2.01 ppb	05:53:00
1	SiO2†	1943.3	138.5	13.536 µg/L	13.536 ppb	05:52:40
1	Si 251.611†	1317.1	460.6	6.7875 µg/L	6.7875 ppb	05:52:40
1	Sn 189.927†	-1.7	-0.6	-0.0361 µg/L	-0.0361 ppb	05:53:00
1	Ti 334.940†	1048.3	79.9	0.0710 µg/L	0.0710 ppb	05:52:40
1	Tl 190.801†	-113.2	5.2	0.6447 µg/L	0.6447 ppb	05:53:00
1	U 409.014†	-98.4	172.9	10.129 µg/L	10.129 ppb	05:52:40
1	V 292.402†	473.1	62.1	0.3114 µg/L	0.3114 ppb	05:52:40
1	Zn 213.857†	651.9	77.6	0.4356 µg/L	0.4356 ppb	05:53:00
2	Sc RADIAL	142277.4	142277.4	97.5 %		05:51:52
2	Al 396.153Radial†	-195.3	-137.1	-25.405 µg/L	-25.405 ppb	05:51:52
2	Ca 317.933Radial†	631.6	87.2	4.8601 µg/L	4.8601 ppb	05:52:12
2	Fe 238.204 Radial†	243.7	101.8	6.2746 µg/L	6.2746 ppb	05:52:12
2	K 766.490 Radial†	1831.8	334.1	122.30 µg/L	122.30 ppb	05:51:52
2	Mg 279.077 IEC†	198.1	12.5	4.6598 µg/L	4.6598 ppb	05:52:12
2	Na 589.592 Radial†	1973.8	733.7	100.12 µg/L	100.12 ppb	05:51:52
2	Sr 421.552†	-198.1	-68.0	-0.1413 µg/L	-0.1413 ppb	05:51:52
2	Sc 361.383	1755613.8	1755613.8	102.18 %		05:53:02
2	Y 371.029	1045342.2	1045342.2	101.82 %		05:53:02
2	Ag 328.068†	4084.8	-93.6	-0.3512 µg/L	-0.3512 ppb	05:53:05
2	As 188.979†	-11.6	9.0	2.7333 µg/L	2.7333 ppb	05:53:25
2	B 249.677†	3520.0	-60.9	-0.8996 µg/L	-0.8996 ppb	05:53:05
2	Ba 233.527†	-151.0	-11.9	-0.0485 µg/L	-0.0485 ppb	05:53:25
2	Be 313.107†	-734.9	345.5	0.0944 µg/L	0.0944 ppb	05:53:05
2	Cd 226.502†	-81.7	38.3	0.2382 µg/L	0.2382 ppb	05:53:25
2	Co 228.616†	-166.1	27.8	0.3426 µg/L	0.3426 ppb	05:53:25
2	Cr 267.716†	197.3	14.5	0.1126 µg/L	0.1126 ppb	05:53:25
2	Cu 324.752†	2823.4	-209.0	-0.8098 µg/L	-0.8098 ppb	05:53:05
2	Mn 257.610†	296.5	52.9	0.0653 µg/L	0.0653 ppb	05:53:25
2	Mo 202.031†	-26.0	-5.3	-0.1565 µg/L	-0.1565 ppb	05:53:25
2	Ni 231.604†	-104.8	-26.1	-0.3005 µg/L	-0.3005 ppb	05:53:25
2	P 214.914†	-27.4	-8.8	-1.8872 µg/L	-1.8872 ppb	05:53:25
2	Pb 220.353†	67.2	-20.6	-1.1524 µg/L	-1.1524 ppb	05:53:25

2	S 181.975 Axial†	133.6	25.7	19.101 µg/L	19.101 ppb	05:53:25
2	Sb 206.836†	85.0	2.4	0.2820 µg/L	0.2820 ppb	05:53:25
2	Se 196.026†	5.0	-10.4	-3.75 µg/L	-3.75 ppb	05:53:25
2	SiO2†	1920.1	103.8	10.144 µg/L	10.144 ppb	05:53:05
2	Si 251.611†	1212.7	350.3	5.1635 µg/L	5.1635 ppb	05:53:05
2	Sn 189.927†	6.6	7.5	0.4712 µg/L	0.4712 ppb	05:53:25
2	Ti 334.940†	1263.1	283.7	0.2643 µg/L	0.2643 ppb	05:53:05
2	Tl 190.801†	-114.3	4.8	0.5878 µg/L	0.5878 ppb	05:53:25
2	U 409.014†	-255.6	19.7	1.1243 µg/L	1.1243 ppb	05:53:05
2	V 292.402†	308.3	-102.1	-0.4992 µg/L	-0.4992 ppb	05:53:05
2	Zn 213.857†	622.2	44.6	0.2519 µg/L	0.2519 ppb	05:53:25
3	Sc RADIAL	143992.1	143992.1	98.7 %		05:52:14
3	Al 396.153Radial†	-137.4	-76.1	-14.103 µg/L	-14.103 ppb	05:52:14
3	Ca 317.933Radial†	645.0	93.1	5.1853 µg/L	5.1853 ppb	05:52:34
3	Fe 238.204 Radial†	216.1	70.9	4.3718 µg/L	4.3718 ppb	05:52:34
3	K 766.490 Radial†	1849.6	329.7	120.69 µg/L	120.69 ppb	05:52:14
3	Mg 279.077 IEC†	181.7	-6.5	-2.4380 µg/L	-2.4380 ppb	05:52:34
3	Na 589.592 Radial†	2041.7	778.4	106.23 µg/L	106.23 ppb	05:52:14
3	Sr 421.552†	-161.6	-28.5	-0.0593 µg/L	-0.0593 ppb	05:52:14
3	Sc 361.383	1751304.2	1751304.2	101.93 %		05:53:27
3	Y 371.029	1043123.9	1043123.9	101.60 %		05:53:27
3	Ag 328.068†	4042.1	-125.7	-0.4738 µg/L	-0.4738 ppb	05:53:29
3	As 188.979†	-14.7	5.9	1.7883 µg/L	1.7883 ppb	05:53:49
3	B 249.677†	3573.4	-0.0	-0.0007 µg/L	-0.0007 ppb	05:53:29
3	Ba 233.527†	-123.8	14.4	0.0582 µg/L	0.0582 ppb	05:53:49
3	Be 313.107†	-862.8	218.2	0.0565 µg/L	0.0565 ppb	05:53:29
3	Cd 226.502†	-104.2	16.0	0.0993 µg/L	0.0993 ppb	05:53:49
3	Co 228.616†	-189.1	4.8	0.0589 µg/L	0.0589 ppb	05:53:49
3	Cr 267.716†	233.6	50.6	0.4042 µg/L	0.4042 ppb	05:53:49
3	Cu 324.752†	2978.5	-50.0	-0.2016 µg/L	-0.2016 ppb	05:53:29
3	Mn 257.610†	332.2	88.6	0.1098 µg/L	0.1098 ppb	05:53:49
3	Mo 202.031†	-22.9	-2.4	-0.0712 µg/L	-0.0712 ppb	05:53:49
3	Ni 231.604†	-83.0	-4.9	-0.0567 µg/L	-0.0567 ppb	05:53:49
3	P 214.914†	-31.5	-13.0	-2.7749 µg/L	-2.7749 ppb	05:53:49
3	Pb 220.353†	87.3	-0.8	-0.0374 µg/L	-0.0374 ppb	05:53:49
3	S 181.975 Axial†	135.1	27.5	20.442 µg/L	20.442 ppb	05:53:49
3	Sb 206.836†	71.7	-10.5	-1.2527 µg/L	-1.2527 ppb	05:53:49
3	Se 196.026†	24.8	9.1	3.28 µg/L	3.28 ppb	05:53:49
3	SiO2†	1960.3	147.9	14.451 µg/L	14.451 ppb	05:53:29
3	Si 251.611†	1381.3	518.6	7.6414 µg/L	7.6414 ppb	05:53:29
3	Sn 189.927†	11.5	12.4	0.7700 µg/L	0.7700 ppb	05:53:49
3	Ti 334.940†	924.1	-45.9	-0.0388 µg/L	-0.0388 ppb	05:53:29
3	Tl 190.801†	-113.9	4.9	0.6058 µg/L	0.6058 ppb	05:53:49
3	U 409.014†	-442.0	-163.8	-9.5606 µg/L	-9.5606 ppb	05:53:29
3	V 292.402†	473.5	60.7	0.2903 µg/L	0.2903 ppb	05:53:29
3	Zn 213.857†	619.3	43.1	0.2421 µg/L	0.2421 ppb	05:53:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750521.8	101.88 %	0.322			0.32%
Sc RADIAL	143375.5	98.2 %	0.65			0.66%
Y 371.029	1042772.9	101.57 %	0.269			0.26%
Ag 328.068†	-47.8	-0.1762 µg/L	0.41384	-0.1762 ppb	0.41384	234.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-114.3	-21.194 µg/L	6.1769	-21.194 ppb	6.1769	29.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	9.3	2.8205 µg/L	1.07844	2.8205 ppb	1.07844	38.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-14.8	-0.2194 µg/L	0.60155	-0.2194 ppb	0.60155	274.24%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.1	0.0284 µg/L	0.06714	0.0284 ppb	0.06714	236.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	320.5	0.0874 µg/L	0.02807	0.0874 ppb	0.02807	32.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	97.2	5.4165 µg/L	0.70116	5.4165 ppb	0.70116	12.94%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	22.6	0.1404 µg/L	0.08503	0.1404 ppb	0.08503	60.56%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	18.8	0.2320 µg/L	0.15179	0.2320 ppb	0.15179	65.44%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	22.2	0.1732 µg/L	0.20743	0.1732 ppb	0.20743	119.74%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-114.0	-0.4418 µg/L	0.32363	-0.4418 ppb	0.32363	73.25%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	89.6	5.5195 µg/L	1.01034	5.5195 ppb	1.01034	18.30%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	324.2	118.70 µg/L	4.914	118.70 ppb	4.914	4.14%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.3	-0.8485 µg/L	4.91038	-0.8485 ppb	4.91038	578.73%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	86.4	0.1069 µg/L	0.04026	0.1069 ppb	0.04026	37.65%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-0.2	-0.0058 µg/L	0.19198	-0.0058 ppb	0.19198	>999.9%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	753.5	102.83 µg/L	3.115	102.83 ppb	3.115	3.03%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-11.5	-0.1322 µg/L	0.14601	-0.1322 ppb	0.14601	110.48%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-2.3	-0.4909 µg/L	3.21789	-0.4909 ppb	3.21789	655.48%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-2.1	-0.1162 µg/L	0.99914	-0.1162 ppb	0.99914	859.83%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	25.1	18.620 µg/L	2.1044	18.620 ppb	2.1044	11.30%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-2.0	-0.2354 µg/L	0.88107	-0.2354 ppb	0.88107	374.30%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.4	0.512 µg/L	3.7435	0.512 ppb	3.7435	730.53%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	130.1	12.710 µg/L	2.2688	12.710 ppb	2.2688	17.85%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	443.2	6.5308 µg/L	1.25874	6.5308 ppb	1.25874	19.27%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.4	0.4017 µg/L	0.40750	0.4017 ppb	0.40750	101.44%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-28.1	-0.0584 µg/L	0.08335	-0.0584 ppb	0.08335	142.66%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	105.9	0.0989 µg/L	0.15342	0.0989 ppb	0.15342	155.20%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.0	0.6127 µg/L	0.02907	0.6127 ppb	0.02907	4.74%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	9.6	0.5642 µg/L	9.85669	0.5642 ppb	9.85669	>999.9%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	6.9	0.0342 µg/L	0.46201	0.0342 ppb	0.46201	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	55.1	0.3099 µg/L	0.10900	0.3099 ppb	0.10900	35.18%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 6:04:33

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142848.8	142848.8	97.9 %			06:05:06
1	Al 396.153Radial†	26284.1	26914.2	4967.7 µg/L	4967.7 ppb	4967.7 ppb	06:05:06
1	Ca 317.933Radial†	85756.1	87045.1	4848.8 µg/L	4848.8 ppb	4848.8 ppb	06:05:06
1	Fe 238.204 Radial†	76615.7	78120.0	4814.8 µg/L	4814.8 ppb	4814.8 ppb	06:05:06
1	K 766.490 Radial†	14635.7	13406.6	4904.4 µg/L	4904.4 ppb	4904.4 ppb	06:05:06
1	Mg 279.077 IEC†	13109.8	13201.8	4926.4 µg/L	4926.4 ppb	4926.4 ppb	06:05:06
1	Na 589.592 Radial†	71209.9	71454.9	9757.2 µg/L	9757.2 ppb	9757.2 ppb	06:05:06
1	Sr 421.552†	229336.0	234417.5	487.30 µg/L	487.30 ppb	487.30 ppb	06:05:04
1	Sc 361.383	1722533.9	1722533.9	100.25 %			06:05:19
1	Y 371.029	1016004.9	1016004.9	98.959 %			06:05:19
1	Ag 328.068†	131502.2	127081.2	476.52 µg/L	476.52 ppb	476.52 ppb	06:05:19
1	As 188.979†	1603.1	1619.4	496.68 µg/L	496.68 ppb	496.68 ppb	06:05:39
1	B 249.677†	35665.3	32070.0	471.31 µg/L	471.31 ppb	471.31 ppb	06:05:19
1	Ba 233.527†	118687.8	118526.2	478.01 µg/L	478.01 ppb	478.01 ppb	06:05:19
1	Be 313.107†	1774677.2	1771294.9	482.42 µg/L	482.42 ppb	482.42 ppb	06:05:19
1	Cd 226.502†	76426.8	76353.5	476.63 µg/L	476.63 ppb	476.63 ppb	06:05:19
1	Co 228.616†	38731.3	38824.5	479.29 µg/L	479.29 ppb	479.29 ppb	06:05:19
1	Cr 267.716†	61003.8	60672.4	475.06 µg/L	475.06 ppb	475.06 ppb	06:05:19
1	Cu 324.752†	125233.2	121947.2	475.39 µg/L	475.39 ppb	475.39 ppb	06:05:19
1	Mn 257.610†	388434.4	387223.8	478.90 µg/L	478.90 ppb	478.90 ppb	06:05:19
1	Mo 202.031†	16274.4	16253.7	478.11 µg/L	478.11 ppb	478.11 ppb	06:05:39
1	Ni 231.604†	41552.7	41525.1	478.13 µg/L	478.13 ppb	478.13 ppb	06:05:19
1	P 214.914†	11262.8	11252.5	2398.5 µg/L	2398.5 ppb	2398.5 ppb	06:05:39
1	Pb 220.353†	8749.1	8640.8	483.88 µg/L	483.88 ppb	483.88 ppb	06:05:39
1	S 181.975 Axial†	1398.8	1290.2	962.13 µg/L	962.13 ppb	962.13 ppb	06:05:39
1	Sb 206.836†	4130.9	4039.7	481.34 µg/L	481.34 ppb	481.34 ppb	06:05:39
1	Se 196.026†	1348.3	1329.7	483 µg/L	483 ppb	483 ppb	06:05:39
1	SiO2†	54482.6	52570.7	5117.8 µg/L	5117.8 ppb	5117.8 ppb	06:05:19
1	Si 251.611†	165149.6	163899.2	2406.8 µg/L	2406.8 ppb	2406.8 ppb	06:05:19
1	Sn 189.927†	7696.2	7678.0	480.25 µg/L	480.25 ppb	480.25 ppb	06:05:39
1	Ti 334.940†	511528.2	509293.9	475.20 µg/L	475.20 ppb	475.20 ppb	06:05:19
1	Tl 190.801†	3814.7	3921.9	489.01 µg/L	489.01 ppb	489.01 ppb	06:05:39
1	U 409.014†	7216.3	7468.1	465.59 µg/L	465.59 ppb	465.59 ppb	06:05:19
1	V 292.402†	97722.3	97073.6	479.89 µg/L	479.89 ppb	479.89 ppb	06:05:19
1	Zn 213.857†	85933.0	85153.3	474.59 µg/L	474.59 ppb	474.59 ppb	06:05:19
2	Sc RADIAL	143157.1	143157.1	98.1 %			06:05:11
2	Al 396.153Radial†	26258.8	26830.6	4952.3 µg/L	4952.3 ppb	4952.3 ppb	06:05:11
2	Ca 317.933Radial†	85806.3	86907.6	4841.1 µg/L	4841.1 ppb	4841.1 ppb	06:05:11
2	Fe 238.204 Radial†	76698.8	78036.1	4809.7 µg/L	4809.7 ppb	4809.7 ppb	06:05:11
2	K 766.490 Radial†	14842.8	13585.5	4969.9 µg/L	4969.9 ppb	4969.9 ppb	06:05:11
2	Mg 279.077 IEC†	13118.0	13181.3	4918.7 µg/L	4918.7 ppb	4918.7 ppb	06:05:11
2	Na 589.592 Radial†	71063.7	71149.2	9715.4 µg/L	9715.4 ppb	9715.4 ppb	06:05:11
2	Sr 421.552†	227333.3	231871.5	482.01 µg/L	482.01 ppb	482.01 ppb	06:05:08
2	Sc 361.383	1723631.7	1723631.7	100.32 %			06:05:42
2	Y 371.029	1016796.5	1016796.5	99.036 %			06:05:42
2	Ag 328.068†	131746.9	127241.7	477.09 µg/L	477.09 ppb	477.09 ppb	06:05:42
2	As 188.979†	1596.7	1612.1	494.45 µg/L	494.45 ppb	494.45 ppb	06:06:03
2	B 249.677†	35726.6	32108.4	471.89 µg/L	471.89 ppb	471.89 ppb	06:05:42
2	Ba 233.527†	118582.9	118346.3	477.29 µg/L	477.29 ppb	477.29 ppb	06:05:42
2	Be 313.107†	1774613.3	1770103.8	482.09 µg/L	482.09 ppb	482.09 ppb	06:05:42
2	Cd 226.502†	76324.6	76203.0	475.69 µg/L	475.69 ppb	475.69 ppb	06:05:42
2	Co 228.616†	38620.9	38689.9	477.62 µg/L	477.62 ppb	477.62 ppb	06:05:42
2	Cr 267.716†	60898.2	60528.3	473.95 µg/L	473.95 ppb	473.95 ppb	06:05:42
2	Cu 324.752†	125590.6	122223.9	476.44 µg/L	476.44 ppb	476.44 ppb	06:05:42
2	Mn 257.610†	388871.4	387412.6	479.14 µg/L	479.14 ppb	479.14 ppb	06:05:42
2	Mo 202.031†	16208.5	16177.7	475.88 µg/L	475.88 ppb	475.88 ppb	06:06:03
2	Ni 231.604†	41345.4	41292.0	475.45 µg/L	475.45 ppb	475.45 ppb	06:05:42
2	P 214.914†	11244.3	11227.0	2393.1 µg/L	2393.1 ppb	2393.1 ppb	06:06:03
2	Pb 220.353†	8700.1	8586.4	480.84 µg/L	480.84 ppb	480.84 ppb	06:06:03

2	S 181.975 Axial†	1408.7	1299.2	968.77 µg/L	968.77 ppb	06:06:03
2	Sb 206.836†	4113.4	4019.6	478.94 µg/L	478.94 ppb	06:06:03
2	Se 196.026†	1341.4	1321.9	480 µg/L	480 ppb	06:06:03
2	SiO2†	54603.8	52657.0	5126.3 µg/L	5126.3 ppb	06:05:42
2	Si 251.611†	165044.8	163689.8	2403.8 µg/L	2403.8 ppb	06:05:42
2	Sn 189.927†	7680.7	7657.7	478.98 µg/L	478.98 ppb	06:06:03
2	Ti 334.940†	512566.6	510004.0	475.88 µg/L	475.88 ppb	06:05:42
2	Tl 190.801†	3806.4	3911.1	487.71 µg/L	487.71 ppb	06:06:03
2	U 409.014†	6895.7	7144.0	446.60 µg/L	446.60 ppb	06:05:42
2	V 292.402†	97622.9	96912.5	479.06 µg/L	479.06 ppb	06:05:42
2	Zn 213.857†	85650.2	84816.7	472.72 µg/L	472.72 ppb	06:05:42
3	Sc RADIAL	141046.6	141046.6	96.7 %		06:05:15
3	Al 396.153Radial†	25865.4	26824.1	4951.0 µg/L	4951.0 ppb	06:05:15
3	Ca 317.933Radial†	84124.5	86476.5	4817.1 µg/L	4817.1 ppb	06:05:15
3	Fe 238.204 Radial†	75443.5	77907.3	4801.7 µg/L	4801.7 ppb	06:05:15
3	K 766.490 Radial†	14628.9	13590.6	4971.7 µg/L	4971.7 ppb	06:05:15
3	Mg 279.077 IEC†	12956.9	13214.8	4931.2 µg/L	4931.2 ppb	06:05:15
3	Na 589.592 Radial†	70294.6	71437.4	9754.8 µg/L	9754.8 ppb	06:05:15
3	Sr 421.552†	227562.4	235576.2	489.71 µg/L	489.71 ppb	06:05:13
3	Sc 361.383	1728559.5	1728559.5	100.60 %		06:06:06
3	Y 371.029	1019765.4	1019765.4	99.326 %		06:06:06
3	Ag 328.068†	131608.2	126729.4	475.23 µg/L	475.23 ppb	06:06:06
3	As 188.979†	1615.5	1626.2	498.73 µg/L	498.73 ppb	06:06:26
3	B 249.677†	35907.2	32186.5	473.03 µg/L	473.03 ppb	06:06:06
3	Ba 233.527†	118992.7	118416.6	477.57 µg/L	477.57 ppb	06:06:06
3	Be 313.107†	1782275.3	1772676.8	482.80 µg/L	482.80 ppb	06:06:06
3	Cd 226.502†	76844.3	76502.7	477.56 µg/L	477.56 ppb	06:06:06
3	Co 228.616†	38816.6	38774.7	478.67 µg/L	478.67 ppb	06:06:06
3	Cr 267.716†	61167.4	60622.9	474.68 µg/L	474.68 ppb	06:06:06
3	Cu 324.752†	125851.5	122126.3	476.08 µg/L	476.08 ppb	06:06:06
3	Mn 257.610†	390603.4	388029.2	479.90 µg/L	479.90 ppb	06:06:06
3	Mo 202.031†	16349.4	16271.6	478.64 µg/L	478.64 ppb	06:06:26
3	Ni 231.604†	41595.0	41422.7	476.95 µg/L	476.95 ppb	06:06:06
3	P 214.914†	11332.2	11282.4	2404.9 µg/L	2404.9 ppb	06:06:26
3	Pb 220.353†	8802.7	8663.7	485.16 µg/L	485.16 ppb	06:06:26
3	S 181.975 Axial†	1418.6	1305.1	973.15 µg/L	973.15 ppb	06:06:26
3	Sb 206.836†	4127.2	4021.6	479.21 µg/L	479.21 ppb	06:06:26
3	Se 196.026†	1358.4	1335.0	485 µg/L	485 ppb	06:06:26
3	SiO2†	55113.6	53008.4	5160.6 µg/L	5160.6 ppb	06:06:06
3	Si 251.611†	165801.1	163972.6	2407.9 µg/L	2407.9 ppb	06:06:06
3	Sn 189.927†	7751.7	7706.5	482.02 µg/L	482.02 ppb	06:06:26
3	Ti 334.940†	514213.3	510184.3	476.04 µg/L	476.04 ppb	06:06:06
3	Tl 190.801†	3835.7	3929.4	489.97 µg/L	489.97 ppb	06:06:26
3	U 409.014†	7159.6	7386.7	460.91 µg/L	460.91 ppb	06:06:06
3	V 292.402†	98291.0	97299.1	480.99 µg/L	480.99 ppb	06:06:06
3	Zn 213.857†	86223.5	85143.2	474.54 µg/L	474.54 ppb	06:06:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724908.4	100.39 %	0.187			0.19%
Sc RADIAL	142350.8	97.5 %	0.78			0.80%
Y 371.029	1017522.3	99.107 %	0.1931			0.19%
Ag 328.068†	127017.5	476.28 µg/L	0.952	476.28 ppb	0.952	0.20%
QC value within limits for Ag 328.068 Recovery = 95.26%						
Al 396.153Radial†	26856.3	4957.0 µg/L	9.30	4957.0 ppb	9.30	0.19%
QC value within limits for Al 396.153Radial Recovery = 99.14%						
As 188.979†	1619.2	496.62 µg/L	2.139	496.62 ppb	2.139	0.43%
QC value within limits for As 188.979 Recovery = 99.32%						
B 249.677†	32121.6	472.08 µg/L	0.876	472.08 ppb	0.876	0.19%
QC value within limits for B 249.677 Recovery = 94.42%						
Ba 233.527†	118429.7	477.62 µg/L	0.366	477.62 ppb	0.366	0.08%
QC value within limits for Ba 233.527 Recovery = 95.52%						
Be 313.107†	1771358.5	482.44 µg/L	0.353	482.44 ppb	0.353	0.07%
QC value within limits for Be 313.107 Recovery = 96.49%						
Ca 317.933Radial†	86809.7	4835.6 µg/L	16.53	4835.6 ppb	16.53	0.34%
QC value within limits for Ca 317.933Radial Recovery = 96.71%						
Cd 226.502†	76353.1	476.63 µg/L	0.937	476.63 ppb	0.937	0.20%
QC value within limits for Cd 226.502 Recovery = 95.33%						
Co 228.616†	38763.0	478.53 µg/L	0.840	478.53 ppb	0.840	0.18%

QC value within limits for Co 228.616	Recovery = 95.71%			
Cr 267.716†	60607.9	474.56 µg/L	0.566	474.56 ppb
QC value within limits for Cr 267.716	Recovery = 94.91%			
Cu 324.752†	122099.1	475.97 µg/L	0.537	475.97 ppb
QC value within limits for Cu 324.752	Recovery = 95.19%			
Fe 238.204 Radial†	78021.2	4808.7 µg/L	6.60	4808.7 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 96.17%			
K 766.490 Radial†	13527.5	4948.6 µg/L	38.37	4948.6 ppb
QC value within limits for K 766.490 Radial	Recovery = 98.97%			
Mg 279.077 IEC†	13199.3	4925.4 µg/L	6.33	4925.4 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 98.51%			
Mn 257.610†	387555.2	479.31 µg/L	0.521	479.31 ppb
QC value within limits for Mn 257.610	Recovery = 95.86%			
Mo 202.031†	16234.3	477.55 µg/L	1.466	477.55 ppb
QC value within limits for Mo 202.031	Recovery = 95.51%			
Na 589.592 Radial†	71347.2	9742.5 µg/L	23.47	9742.5 ppb
QC value within limits for Na 589.592 Radial	Recovery = 97.42%			
Ni 231.604†	41413.3	476.84 µg/L	1.345	476.84 ppb
QC value within limits for Ni 231.604	Recovery = 95.37%			
P 214.914†	11254.0	2398.8 µg/L	5.93	2398.8 ppb
QC value within limits for P 214.914	Recovery = 95.95%			
Pb 220.353†	8630.3	483.29 µg/L	2.215	483.29 ppb
QC value within limits for Pb 220.353	Recovery = 96.66%			
S 181.975 Axial†	1298.2	968.01 µg/L	5.544	968.01 ppb
QC value within limits for S 181.975 Axial	Recovery = 96.80%			
Sb 206.836†	4027.0	479.83 µg/L	1.314	479.83 ppb
QC value within limits for Sb 206.836	Recovery = 95.97%			
Se 196.026†	1328.8	482 µg/L	2.4	482 ppb
QC value within limits for Se 196.026	Recovery = 96.50%			
SiO2†	52745.4	5134.9 µg/L	22.63	5134.9 ppb
QC value within limits for SiO2	Recovery = 96.02%			
Si 251.611†	163853.8	2406.2 µg/L	2.13	2406.2 ppb
QC value within limits for Si 251.611	Recovery = 96.25%			
Sn 189.927†	7680.7	480.42 µg/L	1.529	480.42 ppb
QC value within limits for Sn 189.927	Recovery = 96.08%			
Sr 421.552†	233955.1	486.34 µg/L	3.940	486.34 ppb
QC value within limits for Sr 421.552	Recovery = 97.27%			
Ti 334.940†	509827.4	475.71 µg/L	0.442	475.71 ppb
QC value within limits for Ti 334.940	Recovery = 95.14%			
Tl 190.801†	3920.8	488.90 µg/L	1.135	488.90 ppb
QC value within limits for Tl 190.801	Recovery = 97.78%			
U 409.014†	7332.9	457.70 µg/L	9.895	457.70 ppb
QC value within limits for U 409.014	Recovery = 91.54%			
V 292.402†	97095.1	479.98 µg/L	0.967	479.98 ppb
QC value within limits for V 292.402	Recovery = 96.00%			
Zn 213.857†	85037.8	473.95 µg/L	1.068	473.95 ppb
QC value within limits for Zn 213.857	Recovery = 94.79%			

All analyte(s) passed QC.

Sequence No.: 5
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/1/2010 6:06:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141464.9	141464.9	96.9 %		06:07:02
1	Al 396.153Radial†	-69.9	-8.9	-1.6257 µg/L	-1.6257 ppb	06:07:22
1	Ca 317.933Radial†	620.8	79.8	4.4479 µg/L	4.4479 ppb	06:07:22
1	Fe 238.204 Radial†	188.4	46.2	2.8471 µg/L	2.8471 ppb	06:07:22
1	K 766.490 Radial†	1672.9	180.9	66.223 µg/L	66.223 ppb	06:07:02
1	Mg 279.077 IEC†	181.5	-3.5	-1.3105 µg/L	-1.3105 ppb	06:07:22
1	Na 589.592 Radial†	2015.0	787.8	107.57 µg/L	107.57 ppb	06:07:02
1	Sr 421.552†	-160.4	-30.2	-0.0629 µg/L	-0.0629 ppb	06:07:02
1	Sc 361.383	1739256.7	1739256.7	101.22 %		06:08:10
1	Y 371.029	1037512.8	1037512.8	101.05 %		06:08:10
1	Ag 328.068†	4217.1	74.7	0.2549 µg/L	0.2549 ppb	06:08:12
1	As 188.979†	-29.9	-9.2	-2.7714 µg/L	-2.7714 ppb	06:08:32
1	B 249.677†	3555.1	6.2	0.0910 µg/L	0.0910 ppb	06:08:12
1	Ba 233.527†	-107.8	29.4	0.1178 µg/L	0.1178 ppb	06:08:32
1	Be 313.107†	-895.9	179.7	0.0448 µg/L	0.0448 ppb	06:08:12
1	Cd 226.502†	-119.8	-0.2	-0.0016 µg/L	-0.0016 ppb	06:08:32
1	Co 228.616†	-192.4	0.3	0.0035 µg/L	0.0035 ppb	06:08:32
1	Cr 267.716†	247.4	65.8	0.5261 µg/L	0.5261 ppb	06:08:32
1	Cu 324.752†	2980.0	-28.3	-0.1208 µg/L	-0.1208 ppb	06:08:12
1	Mn 257.610†	284.9	44.2	0.0548 µg/L	0.0548 ppb	06:08:32
1	Mo 202.031†	-36.1	-15.6	-0.4591 µg/L	-0.4591 ppb	06:08:32
1	Ni 231.604†	-102.1	-24.4	-0.2804 µg/L	-0.2804 ppb	06:08:32
1	P 214.914†	-26.6	-8.3	-1.7798 µg/L	-1.7798 ppb	06:08:32
1	Pb 220.353†	103.2	15.6	0.8803 µg/L	0.8803 ppb	06:08:32
1	S 181.975 Axial†	117.0	10.5	7.8121 µg/L	7.8121 ppb	06:08:32
1	Sb 206.836†	71.9	-9.8	-1.1826 µg/L	-1.1826 ppb	06:08:32
1	Se 196.026†	30.7	15.1	5.45 µg/L	5.45 ppb	06:08:32
1	SiO2†	1811.8	14.5	1.4364 µg/L	1.4364 ppb	06:08:32
1	Si 251.611†	1024.9	175.9	2.6015 µg/L	2.6015 ppb	06:08:12
1	Sn 189.927†	-6.3	-5.1	-0.3193 µg/L	-0.3193 ppb	06:08:32
1	Ti 334.940†	984.3	19.9	0.0242 µg/L	0.0242 ppb	06:08:12
1	Tl 190.801†	-119.7	-1.6	-0.1978 µg/L	-0.1978 ppb	06:08:32
1	U 409.014†	-508.9	-232.9	-13.640 µg/L	-13.640 ppb	06:08:12
1	V 292.402†	323.8	-83.9	-0.4213 µg/L	-0.4213 ppb	06:08:12
1	Zn 213.857†	596.6	24.9	0.1416 µg/L	0.1416 ppb	06:08:32
2	Sc RADIAL	141541.1	141541.1	97.0 %		06:07:24
2	Al 396.153Radial†	-92.5	-32.2	-5.9364 µg/L	-5.9364 ppb	06:07:44
2	Ca 317.933Radial†	647.1	106.6	5.9380 µg/L	5.9380 ppb	06:07:44
2	Fe 238.204 Radial†	166.0	23.1	1.4211 µg/L	1.4211 ppb	06:07:44
2	K 766.490 Radial†	1883.9	397.6	145.54 µg/L	145.54 ppb	06:07:24
2	Mg 279.077 IEC†	188.4	3.5	1.2984 µg/L	1.2984 ppb	06:07:44
2	Na 589.592 Radial†	1902.0	670.2	91.429 µg/L	91.429 ppb	06:07:24
2	Sr 421.552†	-162.1	-31.8	-0.0662 µg/L	-0.0662 ppb	06:07:24
2	Sc 361.383	1753065.4	1753065.4	102.03 %		06:08:34
2	Y 371.029	1044680.5	1044680.5	101.75 %		06:08:34
2	Ag 328.068†	4104.7	-68.3	-0.2518 µg/L	-0.2518 ppb	06:08:36
2	As 188.979†	-5.8	14.7	4.4380 µg/L	4.4380 ppb	06:08:57
2	B 249.677†	3555.2	-21.3	-0.3162 µg/L	-0.3162 ppb	06:08:36
2	Ba 233.527†	-108.8	29.2	0.1173 µg/L	0.1173 ppb	06:08:57
2	Be 313.107†	-992.9	91.6	0.0261 µg/L	0.0261 ppb	06:08:36
2	Cd 226.502†	-129.6	-8.8	-0.0553 µg/L	-0.0553 ppb	06:08:57
2	Co 228.616†	-159.5	34.0	0.4197 µg/L	0.4197 ppb	06:08:57
2	Cr 267.716†	159.1	-22.7	-0.1807 µg/L	-0.1807 ppb	06:08:57
2	Cu 324.752†	2960.7	-70.3	-0.2696 µg/L	-0.2696 ppb	06:08:36
2	Mn 257.610†	249.8	7.6	0.0093 µg/L	0.0093 ppb	06:08:57
2	Mo 202.031†	-38.7	-17.9	-0.5247 µg/L	-0.5247 ppb	06:08:57
2	Ni 231.604†	-95.8	-17.4	-0.2000 µg/L	-0.2000 ppb	06:08:57
2	P 214.914†	-25.9	-7.4	-1.5857 µg/L	-1.5857 ppb	06:08:57
2	Pb 220.353†	91.9	3.7	0.2024 µg/L	0.2024 ppb	06:08:57

2	S 181.975 Axial†	117.0	9.6	7.1513 µg/L	7.1513 ppb	06:08:57
2	Sb 206.836†	80.1	-2.3	-0.2809 µg/L	-0.2809 ppb	06:08:57
2	Se 196.026†	9.0	-6.4	-2.31 µg/L	-2.31 ppb	06:08:57
2	SiO2†	1834.9	23.0	2.2679 µg/L	2.2679 ppb	06:08:57
2	Si 251.611†	1128.6	269.6	3.9822 µg/L	3.9822 ppb	06:08:36
2	Sn 189.927†	-1.4	-0.3	-0.0169 µg/L	-0.0169 ppb	06:08:57
2	Ti 334.940†	1073.2	99.3	0.0913 µg/L	0.0913 ppb	06:08:36
2	Tl 190.801†	-124.6	-5.4	-0.6669 µg/L	-0.6669 ppb	06:08:57
2	U 409.014†	-207.9	66.1	3.8481 µg/L	3.8481 ppb	06:08:36
2	V 292.402†	352.2	-58.6	-0.2898 µg/L	-0.2898 ppb	06:08:36
2	Zn 213.857†	609.0	32.5	0.1836 µg/L	0.1836 ppb	06:08:57
3	Sc RADIAL	144453.8	144453.8	99.0 %		06:07:46
3	Al 396.153Radial†	-42.6	20.2	3.7469 µg/L	3.7469 ppb	06:08:06
3	Ca 317.933Radial†	626.5	72.3	4.0283 µg/L	4.0283 ppb	06:08:06
3	Fe 238.204 Radial†	173.7	27.3	1.6854 µg/L	1.6854 ppb	06:08:06
3	K 766.490 Radial†	1763.8	237.1	86.784 µg/L	86.784 ppb	06:07:46
3	Mg 279.077 IEC†	167.7	-21.3	-7.9299 µg/L	-7.9299 ppb	06:08:06
3	Na 589.592 Radial†	1875.8	604.1	82.457 µg/L	82.457 ppb	06:07:46
3	Sr 421.552†	-228.9	-96.0	-0.1996 µg/L	-0.1996 ppb	06:07:46
3	Sc 361.383	1745062.4	1745062.4	101.56 %		06:08:59
3	Y 371.029	1040171.5	1040171.5	101.31 %		06:08:59
3	Ag 328.068†	4134.6	-20.3	-0.0602 µg/L	-0.0602 ppb	06:09:01
3	As 188.979†	-25.0	-4.3	-1.2996 µg/L	-1.2996 ppb	06:09:21
3	B 249.677†	3548.1	-12.4	-0.1830 µg/L	-0.1830 ppb	06:09:01
3	Ba 233.527†	-155.6	-17.4	-0.0701 µg/L	-0.0701 ppb	06:09:21
3	Be 313.107†	-930.2	148.8	0.0443 µg/L	0.0443 ppb	06:09:01
3	Cd 226.502†	-114.6	5.4	0.0333 µg/L	0.0333 ppb	06:09:21
3	Co 228.616†	-195.2	-1.9	-0.0238 µg/L	-0.0238 ppb	06:09:21
3	Cr 267.716†	183.3	1.9	0.0050 µg/L	0.0050 ppb	06:09:21
3	Cu 324.752†	2946.5	-71.0	-0.2656 µg/L	-0.2656 ppb	06:09:01
3	Mn 257.610†	289.0	47.2	0.0588 µg/L	0.0588 ppb	06:09:21
3	Mo 202.031†	-22.9	-2.5	-0.0730 µg/L	-0.0730 ppb	06:09:21
3	Ni 231.604†	-82.4	-4.6	-0.0527 µg/L	-0.0527 ppb	06:09:21
3	P 214.914†	-14.4	3.8	0.8236 µg/L	0.8236 ppb	06:09:21
3	Pb 220.353†	97.7	9.8	0.5376 µg/L	0.5376 ppb	06:09:21
3	S 181.975 Axial†	113.1	6.3	4.7120 µg/L	4.7120 ppb	06:09:21
3	Sb 206.836†	70.8	-11.2	-1.3260 µg/L	-1.3260 ppb	06:09:21
3	Se 196.026†	8.7	-6.7	-2.39 µg/L	-2.39 ppb	06:09:21
3	SiO2†	1871.0	66.8	6.5242 µg/L	6.5242 ppb	06:09:21
3	Si 251.611†	887.7	37.5	0.5500 µg/L	0.5500 ppb	06:09:01
3	Sn 189.927†	7.2	8.2	0.5133 µg/L	0.5133 ppb	06:09:21
3	Ti 334.940†	729.6	-234.2	-0.2232 µg/L	-0.2232 ppb	06:09:01
3	Tl 190.801†	-130.3	-11.6	-1.4299 µg/L	-1.4299 ppb	06:09:21
3	U 409.014†	-56.7	214.0	12.514 µg/L	12.514 ppb	06:09:01
3	V 292.402†	408.3	-1.8	-0.0011 µg/L	-0.0011 ppb	06:09:01
3	Zn 213.857†	612.1	38.3	0.2153 µg/L	0.2153 ppb	06:09:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745794.8	101.60 %	0.404			0.40%
Sc RADIAL	142486.6	97.6 %	1.17			1.20%
Y 371.029	1040788.3	101.37 %	0.353			0.35%
Ag 328.068†	-4.6	-0.0190 µg/L	0.25586	-0.0190 ppb	0.25586	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.9	-1.2717 µg/L	4.85131	-1.2717 ppb	4.85131	381.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.1223 µg/L	3.80923	0.1223 ppb	3.80923	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-9.2	-0.1361 µg/L	0.20761	-0.1361 ppb	0.20761	152.58%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.7	0.0550 µg/L	0.10831	0.0550 ppb	0.10831	196.90%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	140.0	0.0384 µg/L	0.01065	0.0384 ppb	0.01065	27.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	86.3	4.8047 µg/L	1.00363	4.8047 ppb	1.00363	20.89%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-1.2	-0.0078 µg/L	0.04462	-0.0078 ppb	0.04462	568.50%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	10.8	0.1331 µg/L	0.24853	0.1331 ppb	0.24853	186.69%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	15.0 0.1168 µg/L	0.36641 0.1168 ppb	0.36641 313.73%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-56.5 -0.2187 µg/L	0.08480 -0.2187 ppb	0.08480 38.78%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	32.2 1.9846 µg/L	0.75860 1.9846 ppb	0.75860 38.22%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	271.9 99.516 µg/L	41.1633 99.516 ppb	41.1633 41.36%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-7.1 -2.6474 µg/L	4.75720 -2.6474 ppb	4.75720 179.70%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	33.0 0.0409 µg/L	0.02746 0.0409 ppb	0.02746 67.07%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-12.0 -0.3523 µg/L	0.24406 -0.3523 ppb	0.24406 69.28%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	687.4 93.818 µg/L	12.7246 93.818 ppb	12.7246 13.56%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-15.4 -0.1777 µg/L	0.11551 -0.1777 ppb	0.11551 65.01%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-4.0 -0.8473 µg/L	1.45028 -0.8473 ppb	1.45028 171.16%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	9.7 0.5401 µg/L	0.33897 0.5401 ppb	0.33897 62.76%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	8.8 6.5585 µg/L	1.63285 6.5585 ppb	1.63285 24.90%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-7.8 -0.9298 µg/L	0.56654 -0.9298 ppb	0.56654 60.93%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.7 0.246 µg/L	4.5033 0.246 ppb	4.5033 >999.9%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	34.8 3.4095 µg/L	2.72927 3.4095 ppb	2.72927 80.05%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	161.0 2.3779 µg/L	1.72699 2.3779 ppb	1.72699 72.63%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.9 0.0591 µg/L	0.42147 0.0591 ppb	0.42147 713.75%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-52.7 -0.1095 µg/L	0.07802 -0.1095 ppb	0.07802 71.22%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-38.3 -0.0359 µg/L	0.16561 -0.0359 ppb	0.16561 461.28%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-6.2 -0.7649 µg/L	0.62189 -0.7649 ppb	0.62189 81.31%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	15.8 0.9074 µg/L	13.32231 0.9074 ppb	13.32231 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-48.1 -0.2374 µg/L	0.21493 -0.2374 ppb	0.21493 90.53%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	31.9 0.1802 µg/L	0.03700 0.1802 ppb	0.03700 20.54%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

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Analysis Begun

Start Time: 4/1/2010 6:27:43

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110B

Results Library: C:\pe\optima4\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 4/1/2010 6:27:45

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142254.8	142254.8	97.5 %		06:28:17
1	Al 396.153Radial†	25351.8	26070.0	4811.6 µg/L	4811.6 ppb	06:28:17
1	Ca 317.933Radial†	82833.4	84412.8	4702.1 µg/L	4702.1 ppb	06:28:17
1	Fe 238.204 Radial†	74224.8	75994.2	4683.8 µg/L	4683.8 ppb	06:28:17
1	K 766.490 Radial†	14203.4	13025.6	4765.0 µg/L	4765.0 ppb	06:28:17
1	Mg 279.077 IEC†	12729.5	12867.6	4801.7 µg/L	4801.7 ppb	06:28:17
1	Na 589.592 Radial†	69060.0	69553.3	9497.6 µg/L	9497.6 ppb	06:28:17
1	Sr 421.552†	223018.1	228914.8	475.86 µg/L	475.86 ppb	06:28:15
1	Sc 361.383	1709225.5	1709225.5	99.477 %		06:28:30
1	Y 371.029	1008536.9	1008536.9	98.232 %		06:28:30
1	Ag 328.068†	127499.0	124078.4	465.29 µg/L	465.29 ppb	06:28:30
1	As 188.979†	1559.7	1588.3	487.09 µg/L	487.09 ppb	06:28:50
1	B 249.677†	34379.1	31054.0	456.37 µg/L	456.37 ppb	06:28:30
1	Ba 233.527†	114708.8	115448.1	465.60 µg/L	465.60 ppb	06:28:30
1	Be 313.107†	1722557.3	1732684.2	471.91 µg/L	471.91 ppb	06:28:30
1	Cd 226.502†	73453.0	73957.6	461.67 µg/L	461.67 ppb	06:28:30
1	Co 228.616†	37435.6	37822.8	466.92 µg/L	466.92 ppb	06:28:30
1	Cr 267.716†	58912.5	59043.9	462.30 µg/L	462.30 ppb	06:28:30
1	Cu 324.752†	121839.3	119508.1	465.88 µg/L	465.88 ppb	06:28:30
1	Mn 257.610†	376566.3	378310.1	467.88 µg/L	467.88 ppb	06:28:30
1	Mo 202.031†	15809.6	15912.8	468.09 µg/L	468.09 ppb	06:28:50
1	Ni 231.604†	40079.7	40367.1	464.80 µg/L	464.80 ppb	06:28:30
1	P 214.914†	10882.7	10957.9	2335.7 µg/L	2335.7 ppb	06:28:50
1	Pb 220.353†	8419.0	8376.9	469.10 µg/L	469.10 ppb	06:28:50
1	S 181.975 Axial†	1354.7	1256.8	937.21 µg/L	937.21 ppb	06:28:50
1	Sb 206.836†	3976.4	3916.5	466.71 µg/L	466.71 ppb	06:28:50
1	Se 196.026†	1296.0	1287.5	468 µg/L	468 ppb	06:28:50
1	SiO2†	51445.1	49940.4	4861.2 µg/L	4861.2 ppb	06:28:30
1	Si 251.611†	155651.5	155633.8	2285.2 µg/L	2285.2 ppb	06:28:30
1	Sn 189.927†	7454.8	7495.1	468.81 µg/L	468.81 ppb	06:28:50
1	Ti 334.940†	496730.0	498390.7	465.03 µg/L	465.03 ppb	06:28:30
1	Tl 190.801†	3688.4	3824.5	476.91 µg/L	476.91 ppb	06:28:50
1	U 409.014†	7196.3	7504.0	467.06 µg/L	467.06 ppb	06:28:30
1	V 292.402†	94845.1	94940.3	469.34 µg/L	469.34 ppb	06:28:30
1	Zn 213.857†	82623.8	82494.0	459.76 µg/L	459.76 ppb	06:28:30
2	Sc RADIAL	142096.3	142096.3	97.4 %		06:28:21
2	Al 396.153Radial†	25425.8	26174.9	4831.2 µg/L	4831.2 ppb	06:28:21
2	Ca 317.933Radial†	82979.4	84657.4	4715.8 µg/L	4715.8 ppb	06:28:21
2	Fe 238.204 Radial†	74308.8	76165.4	4694.4 µg/L	4694.4 ppb	06:28:21
2	K 766.490 Radial†	14267.2	13107.3	4794.9 µg/L	4794.9 ppb	06:28:21
2	Mg 279.077 IEC†	12650.1	12800.7	4776.7 µg/L	4776.7 ppb	06:28:21
2	Na 589.592 Radial†	68986.7	69557.0	9498.1 µg/L	9498.1 ppb	06:28:21
2	Sr 421.552†	223055.3	229208.2	476.47 µg/L	476.47 ppb	06:28:19
2	Sc 361.383	1720198.8	1720198.8	100.12 %		06:28:53
2	Y 371.029	1013824.9	1013824.9	98.747 %		06:28:53
2	Ag 328.068†	128161.3	123922.3	464.69 µg/L	464.69 ppb	06:28:53
2	As 188.979†	1572.8	1591.3	488.02 µg/L	488.02 ppb	06:29:13

2	B 249.677†	34759.1	31213.1	458.71 µg/L	458.71 ppb	06:28:53
2	Ba 233.527†	115738.2	115740.7	466.78 µg/L	466.78 ppb	06:28:53
2	Be 313.107†	1738612.5	1737674.9	473.26 µg/L	473.26 ppb	06:28:53
2	Cd 226.502†	74240.3	74273.0	463.64 µg/L	463.64 ppb	06:28:53
2	Co 228.616†	37829.3	37976.1	468.81 µg/L	468.81 ppb	06:28:53
2	Cr 267.716†	59360.9	59114.0	462.86 µg/L	462.86 ppb	06:28:53
2	Cu 324.752†	123058.6	119944.7	467.56 µg/L	467.56 ppb	06:28:53
2	Mn 257.610†	379406.8	378732.6	468.40 µg/L	468.40 ppb	06:28:53
2	Mo 202.031†	15799.9	15801.8	464.82 µg/L	464.82 ppb	06:29:13
2	Ni 231.604†	40270.8	40300.9	464.04 µg/L	464.04 ppb	06:28:53
2	P 214.914†	10903.0	10908.4	2325.1 µg/L	2325.1 ppb	06:29:13
2	Pb 220.353†	8483.6	8387.5	469.70 µg/L	469.70 ppb	06:29:13
2	S 181.975 Axial†	1349.2	1242.6	926.62 µg/L	926.62 ppb	06:29:13
2	Sb 206.836†	3983.6	3898.2	464.48 µg/L	464.48 ppb	06:29:13
2	Se 196.026†	1289.4	1272.6	462 µg/L	462 ppb	06:29:13
2	SiO2†	52137.7	50302.3	4896.7 µg/L	4896.7 ppb	06:28:53
2	Si 251.611†	157050.5	156033.0	2291.1 µg/L	2291.1 ppb	06:28:53
2	Sn 189.927†	7489.7	7482.2	468.01 µg/L	468.01 ppb	06:29:13
2	Ti 334.940†	500704.0	499174.8	465.77 µg/L	465.77 ppb	06:28:53
2	Tl 190.801†	3707.3	3819.7	476.32 µg/L	476.32 ppb	06:29:13
2	U 409.014†	6877.2	7139.1	445.73 µg/L	445.73 ppb	06:28:53
2	V 292.402†	95466.4	94952.6	469.36 µg/L	469.36 ppb	06:28:53
2	Zn 213.857†	83420.7	82760.2	461.25 µg/L	461.25 ppb	06:28:53
3	Sc RADIAL	142990.0	142990.0	98.0 %		06:28:25
3	Al 396.153Radial†	25399.8	25985.2	4795.9 µg/L	4795.9 ppb	06:28:25
3	Ca 317.933Radial†	83117.4	84265.6	4693.9 µg/L	4693.9 ppb	06:28:25
3	Fe 238.204 Radial†	74586.1	75971.4	4682.4 µg/L	4682.4 ppb	06:28:25
3	K 766.490 Radial†	14192.8	12939.8	4733.6 µg/L	4733.6 ppb	06:28:25
3	Mg 279.077 IEC†	12667.0	12736.8	4753.0 µg/L	4753.0 ppb	06:28:25
3	Na 589.592 Radial†	69339.7	69474.5	9486.8 µg/L	9486.8 ppb	06:28:25
3	Sr 421.552†	223827.0	228564.0	475.13 µg/L	475.13 ppb	06:28:23
3	Sc 361.383	1705034.2	1705034.2	99.233 %		06:29:16
3	Y 371.029	1005547.4	1005547.4	97.941 %		06:29:16
3	Ag 328.068†	127662.0	124557.7	467.06 µg/L	467.06 ppb	06:29:16
3	As 188.979†	1560.2	1592.6	488.42 µg/L	488.42 ppb	06:29:36
3	B 249.677†	34496.6	31257.5	459.37 µg/L	459.37 ppb	06:29:16
3	Ba 233.527†	115151.6	116177.8	468.54 µg/L	468.54 ppb	06:29:16
3	Be 313.107†	1725198.8	1739602.9	473.79 µg/L	473.79 ppb	06:29:16
3	Cd 226.502†	73700.4	74388.4	464.37 µg/L	464.37 ppb	06:29:16
3	Co 228.616†	37478.0	37958.1	468.59 µg/L	468.59 ppb	06:29:16
3	Cr 267.716†	59005.2	59282.8	464.19 µg/L	464.19 ppb	06:29:16
3	Cu 324.752†	122158.9	120131.2	468.28 µg/L	468.28 ppb	06:29:16
3	Mn 257.610†	377644.3	380327.0	470.38 µg/L	470.38 ppb	06:29:16
3	Mo 202.031†	15792.1	15934.3	468.72 µg/L	468.72 ppb	06:29:36
3	Ni 231.604†	40233.2	40620.8	467.72 µg/L	467.72 ppb	06:29:16
3	P 214.914†	10905.3	11007.5	2346.3 µg/L	2346.3 ppb	06:29:36
3	Pb 220.353†	8444.2	8423.1	471.70 µg/L	471.70 ppb	06:29:36
3	S 181.975 Axial†	1340.7	1246.0	929.22 µg/L	929.22 ppb	06:29:36
3	Sb 206.836†	3978.4	3928.4	468.11 µg/L	468.11 ppb	06:29:36
3	Se 196.026†	1276.1	1270.7	461 µg/L	461 ppb	06:29:36
3	SiO2†	51678.2	50302.4	4896.5 µg/L	4896.5 ppb	06:29:16
3	Si 251.611†	156314.3	156686.4	2300.7 µg/L	2300.7 ppb	06:29:16
3	Sn 189.927†	7464.4	7523.3	470.57 µg/L	470.57 ppb	06:29:36
3	Ti 334.940†	497732.0	500628.0	467.13 µg/L	467.13 ppb	06:29:16
3	Tl 190.801†	3700.1	3845.4	479.51 µg/L	479.51 ppb	06:29:36
3	U 409.014†	6783.9	7106.3	443.92 µg/L	443.92 ppb	06:29:16
3	V 292.402†	94974.4	95304.9	471.12 µg/L	471.12 ppb	06:29:16
3	Zn 213.857†	82842.8	82918.9	462.12 µg/L	462.12 ppb	06:29:16

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1711486.1	99.608 %	0.4558			0.46%
Sc RADIAL	142447.0	97.6 %	0.33			0.33%
Y 371.029	1009303.1	98.307 %	0.4083			0.42%
Ag 328.068†	124186.1	465.68 µg/L	1.232	465.68 ppb	1.232	0.26%
QC value within limits for Ag 328.068 Recovery = 93.14%						
Al 396.153Radial†	26076.7	4812.9 µg/L	17.71	4812.9 ppb	17.71	0.37%
QC value within limits for Al 396.153Radial Recovery = 96.26%						
As 188.979†	1590.7	487.84 µg/L	0.680	487.84 ppb	0.680	0.14%

QC value within limits for As 188.979 Recovery = 97.57%							
B 249.677†	31174.9	458.15 µg/L	1.574	458.15 ppb	1.574	0.34%	
QC value within limits for B 249.677 Recovery = 91.63%							
Ba 233.527†	115788.9	466.97 µg/L	1.481	466.97 ppb	1.481	0.32%	
QC value within limits for Ba 233.527 Recovery = 93.39%							
Be 313.107†	1736654.0	472.99 µg/L	0.968	472.99 ppb	0.968	0.20%	
QC value within limits for Be 313.107 Recovery = 94.60%							
Ca 317.933Radial†	84445.3	4703.9 µg/L	11.02	4703.9 ppb	11.02	0.23%	
QC value within limits for Ca 317.933Radial Recovery = 94.08%							
Cd 226.502†	74206.4	463.23 µg/L	1.393	463.23 ppb	1.393	0.30%	
QC value within limits for Cd 226.502 Recovery = 92.65%							
Co 228.616†	37919.0	468.11 µg/L	1.035	468.11 ppb	1.035	0.22%	
QC value within limits for Co 228.616 Recovery = 93.62%							
Cr 267.716†	59146.9	463.12 µg/L	0.970	463.12 ppb	0.970	0.21%	
QC value within limits for Cr 267.716 Recovery = 92.62%							
Cu 324.752†	119861.3	467.24 µg/L	1.232	467.24 ppb	1.232	0.26%	
QC value within limits for Cu 324.752 Recovery = 93.45%							
Fe 238.204 Radial†	76043.7	4686.9 µg/L	6.54	4686.9 ppb	6.54	0.14%	
QC value within limits for Fe 238.204 Radial Recovery = 93.74%							
K 766.490 Radial†	13024.2	4764.5 µg/L	30.66	4764.5 ppb	30.66	0.64%	
QC value within limits for K 766.490 Radial Recovery = 95.29%							
Mg 279.077 IEC†	12801.7	4777.1 µg/L	24.37	4777.1 ppb	24.37	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 95.54%							
Mn 257.610†	379123.2	468.89 µg/L	1.317	468.89 ppb	1.317	0.28%	
QC value within limits for Mn 257.610 Recovery = 93.78%							
Mo 202.031†	15882.9	467.21 µg/L	2.090	467.21 ppb	2.090	0.45%	
QC value within limits for Mo 202.031 Recovery = 93.44%							
Na 589.592 Radial†	69528.3	9494.2 µg/L	6.34	9494.2 ppb	6.34	0.07%	
QC value within limits for Na 589.592 Radial Recovery = 94.94%							
Ni 231.604†	40429.6	465.52 µg/L	1.944	465.52 ppb	1.944	0.42%	
QC value within limits for Ni 231.604 Recovery = 93.10%							
P 214.914†	10957.9	2335.7 µg/L	10.59	2335.7 ppb	10.59	0.45%	
QC value within limits for P 214.914 Recovery = 93.43%							
Pb 220.353†	8395.9	470.17 µg/L	1.361	470.17 ppb	1.361	0.29%	
QC value within limits for Pb 220.353 Recovery = 94.03%							
S 181.975 Axial†	1248.5	931.02 µg/L	5.521	931.02 ppb	5.521	0.59%	
QC value within limits for S 181.975 Axial Recovery = 93.10%							
Sb 206.836†	3914.3	466.43 µg/L	1.834	466.43 ppb	1.834	0.39%	
QC value within limits for Sb 206.836 Recovery = 93.29%							
Se 196.026†	1277.0	464 µg/L	3.3	464 ppb	3.3	0.72%	
QC value within limits for Se 196.026 Recovery = 92.74%							
SiO2†	50181.7	4884.8 µg/L	20.44	4884.8 ppb	20.44	0.42%	
QC value within limits for SiO2 Recovery = 91.35%							
Si 251.611†	156117.7	2292.3 µg/L	7.82	2292.3 ppb	7.82	0.34%	
QC value within limits for Si 251.611 Recovery = 91.69%							
Sn 189.927†	7500.2	469.13 µg/L	1.312	469.13 ppb	1.312	0.28%	
QC value within limits for Sn 189.927 Recovery = 93.83%							
Sr 421.552†	228895.7	475.82 µg/L	0.670	475.82 ppb	0.670	0.14%	
QC value within limits for Sr 421.552 Recovery = 95.16%							
Ti 334.940†	499397.8	465.98 µg/L	1.066	465.98 ppb	1.066	0.23%	
QC value within limits for Ti 334.940 Recovery = 93.20%							
Tl 190.801†	3829.9	477.58 µg/L	1.698	477.58 ppb	1.698	0.36%	
QC value within limits for Tl 190.801 Recovery = 95.52%							
U 409.014†	7249.8	452.24 µg/L	12.870	452.24 ppb	12.870	2.85%	
QC value within limits for U 409.014 Recovery = 90.45%							
V 292.402†	95066.0	469.94 µg/L	1.022	469.94 ppb	1.022	0.22%	
QC value within limits for V 292.402 Recovery = 93.99%							
Zn 213.857†	82724.4	461.04 µg/L	1.197	461.04 ppb	1.197	0.26%	
QC value within limits for Zn 213.857 Recovery = 92.21%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 6:29:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142437.0	142437.0	97.6 %		06:30:13
1	Al 396.153Radial†	-264.5	-207.8	-38.519 µg/L	-38.519 ppb	06:30:13
1	Ca 317.933Radial†	646.6	101.9	5.6752 µg/L	5.6752 ppb	06:30:33
1	Fe 238.204 Radial†	170.0	26.1	1.6062 µg/L	1.6062 ppb	06:30:33
1	K 766.490 Radial†	1709.6	206.7	75.676 µg/L	75.676 ppb	06:30:13
1	Mg 279.077 IEC†	178.7	-7.7	-2.8591 µg/L	-2.8591 ppb	06:30:33
1	Na 589.592 Radial†	1934.1	690.7	94.296 µg/L	94.296 ppb	06:30:13
1	Sr 421.552†	-70.7	62.8	0.1305 µg/L	0.1305 ppb	06:30:13
1	Sc 361.383	1727133.1	1727133.1	100.52 %		06:31:21
1	Y 371.029	1029243.1	1029243.1	100.25 %		06:31:21
1	Ag 328.068†	4082.8	-29.6	-0.1055 µg/L	-0.1055 ppb	06:31:23
1	As 188.979†	-17.7	2.7	0.8318 µg/L	0.8318 ppb	06:31:43
1	B 249.677†	3469.9	-53.9	-0.7957 µg/L	-0.7957 ppb	06:31:23
1	Ba 233.527†	-140.5	-3.9	-0.0161 µg/L	-0.0161 ppb	06:31:43
1	Be 313.107†	-798.9	270.0	0.0757 µg/L	0.0757 ppb	06:31:23
1	Cd 226.502†	-112.3	6.5	0.0401 µg/L	0.0401 ppb	06:31:43
1	Co 228.616†	-180.6	10.7	0.1314 µg/L	0.1314 ppb	06:31:43
1	Cr 267.716†	197.5	17.9	0.1345 µg/L	0.1345 ppb	06:31:43
1	Cu 324.752†	3041.8	53.9	0.2156 µg/L	0.2156 ppb	06:31:23
1	Mn 257.610†	261.0	22.4	0.0278 µg/L	0.0278 ppb	06:31:43
1	Mo 202.031†	-23.5	-3.3	-0.0969 µg/L	-0.0969 ppb	06:31:43
1	Ni 231.604†	-113.3	-36.2	-0.4169 µg/L	-0.4169 ppb	06:31:43
1	P 214.914†	-25.7	-7.6	-1.6214 µg/L	-1.6214 ppb	06:31:43
1	Pb 220.353†	75.0	-11.7	-0.6633 µg/L	-0.6633 ppb	06:31:43
1	S 181.975 Axial†	112.8	7.2	5.3207 µg/L	5.3207 ppb	06:31:43
1	Sb 206.836†	71.6	-9.6	-1.1441 µg/L	-1.1441 ppb	06:31:43
1	Se 196.026†	22.4	7.0	2.55 µg/L	2.55 ppb	06:31:43
1	SiO2†	1753.3	-31.1	-3.0512 µg/L	-3.0512 ppb	06:31:43
1	Si 251.611†	758.7	-81.8	-1.2113 µg/L	-1.2113 ppb	06:31:23
1	Sn 189.927†	14.5	15.5	0.9660 µg/L	0.9660 ppb	06:31:43
1	Ti 334.940†	832.4	-124.4	-0.1189 µg/L	-0.1189 ppb	06:31:23
1	Tl 190.801†	-134.3	-16.9	-2.0804 µg/L	-2.0804 ppb	06:31:43
1	U 409.014†	-144.5	126.1	7.3508 µg/L	7.3508 ppb	06:31:23
1	V 292.402†	324.9	-80.6	-0.3886 µg/L	-0.3886 ppb	06:31:23
1	Zn 213.857†	590.9	23.5	0.1334 µg/L	0.1334 ppb	06:31:43
2	Sc RADIAL	142082.4	142082.4	97.4 %		06:30:35
2	Al 396.153Radial†	-251.5	-195.1	-36.147 µg/L	-36.147 ppb	06:30:35
2	Ca 317.933Radial†	615.4	71.5	3.9821 µg/L	3.9821 ppb	06:30:55
2	Fe 238.204 Radial†	161.6	17.9	1.1031 µg/L	1.1031 ppb	06:30:55
2	K 766.490 Radial†	1860.0	365.6	133.83 µg/L	133.83 ppb	06:30:35
2	Mg 279.077 IEC†	190.9	5.4	2.0027 µg/L	2.0027 ppb	06:30:55
2	Na 589.592 Radial†	2043.7	808.3	110.30 µg/L	110.30 ppb	06:30:35
2	Sr 421.552†	-138.2	-6.7	-0.0139 µg/L	-0.0139 ppb	06:30:35
2	Sc 361.383	1744201.5	1744201.5	101.51 %		06:31:46
2	Y 371.029	1039175.9	1039175.9	101.22 %		06:31:46
2	Ag 328.068†	4330.8	174.9	0.6455 µg/L	0.6455 ppb	06:31:48
2	As 188.979†	-1.2	19.1	5.7890 µg/L	5.7890 ppb	06:32:08
2	B 249.677†	3476.4	-81.3	-1.1995 µg/L	-1.1995 ppb	06:31:48
2	Ba 233.527†	-110.4	27.1	0.1090 µg/L	0.1090 ppb	06:32:08
2	Be 313.107†	-822.7	254.2	0.0692 µg/L	0.0692 ppb	06:31:48
2	Cd 226.502†	-100.5	19.2	0.1197 µg/L	0.1197 ppb	06:32:08
2	Co 228.616†	-173.6	19.3	0.2384 µg/L	0.2384 ppb	06:32:08
2	Cr 267.716†	196.6	15.1	0.1180 µg/L	0.1180 ppb	06:32:08
2	Cu 324.752†	2788.4	-225.4	-0.8755 µg/L	-0.8755 ppb	06:31:48
2	Mn 257.610†	300.8	59.0	0.0729 µg/L	0.0729 ppb	06:32:08
2	Mo 202.031†	-33.8	-13.2	-0.3873 µg/L	-0.3873 ppb	06:32:08
2	Ni 231.604†	-73.8	3.8	0.0442 µg/L	0.0442 ppb	06:32:08
2	P 214.914†	-28.1	-9.7	-2.0766 µg/L	-2.0766 ppb	06:32:08
2	Pb 220.353†	86.9	-0.8	-0.0481 µg/L	-0.0481 ppb	06:32:08

2	S 181.975 Axial†	99.7	-6.8	-5.0788 µg/L	-5.0788 ppb	06:32:08
2	Sb 206.836†	68.8	-13.0	-1.5530 µg/L	-1.5530 ppb	06:32:08
2	Se 196.026†	19.9	4.3	1.57 µg/L	1.57 ppb	06:32:08
2	SiO2†	1780.5	-21.4	-2.0759 µg/L	-2.0759 ppb	06:32:08
2	Si 251.611†	990.9	139.5	2.0624 µg/L	2.0624 ppb	06:31:48
2	Sn 189.927†	-1.2	-0.1	-0.0044 µg/L	-0.0044 ppb	06:32:08
2	Ti 334.940†	899.3	-66.7	-0.0624 µg/L	-0.0624 ppb	06:31:48
2	Tl 190.801†	-123.0	-4.5	-0.5578 µg/L	-0.5578 ppb	06:32:08
2	U 409.014†	-273.1	0.9	0.0412 µg/L	0.0412 ppb	06:31:48
2	V 292.402†	373.6	-35.8	-0.1780 µg/L	-0.1780 ppb	06:31:48
2	Zn 213.857†	599.5	26.2	0.1467 µg/L	0.1467 ppb	06:32:08
3	Sc RADIAL	142957.2	142957.2	98.0 %		06:30:57
3	Al 396.153Radial†	-270.8	-213.2	-39.533 µg/L	-39.533 ppb	06:30:57
3	Ca 317.933Radial†	645.8	98.6	5.4929 µg/L	5.4929 ppb	06:31:18
3	Fe 238.204 Radial†	151.9	6.9	0.4263 µg/L	0.4263 ppb	06:31:18
3	K 766.490 Radial†	1751.1	242.7	88.850 µg/L	88.850 ppb	06:30:57
3	Mg 279.077 IEC†	199.0	12.4	4.6386 µg/L	4.6386 ppb	06:31:18
3	Na 589.592 Radial†	1725.5	470.6	64.209 µg/L	64.209 ppb	06:30:57
3	Sr 421.552†	-148.0	-15.8	-0.0329 µg/L	-0.0329 ppb	06:30:57
3	Sc 361.383	1746609.7	1746609.7	101.65 %		06:32:10
3	Y 371.029	1040286.8	1040286.8	101.32 %		06:32:10
3	Ag 328.068†	3940.8	-214.7	-0.7963 µg/L	-0.7963 ppb	06:32:12
3	As 188.979†	-11.6	9.0	2.7184 µg/L	2.7184 ppb	06:32:32
3	B 249.677†	3585.2	21.1	0.3100 µg/L	0.3100 ppb	06:32:12
3	Ba 233.527†	-118.6	19.2	0.0770 µg/L	0.0770 ppb	06:32:32
3	Be 313.107†	-993.1	87.8	0.0252 µg/L	0.0252 ppb	06:32:12
3	Cd 226.502†	-88.0	31.6	0.1970 µg/L	0.1970 ppb	06:32:32
3	Co 228.616†	-178.2	15.0	0.1849 µg/L	0.1849 ppb	06:32:32
3	Cr 267.716†	188.9	7.3	0.0532 µg/L	0.0532 ppb	06:32:32
3	Cu 324.752†	3035.3	13.7	0.0571 µg/L	0.0571 ppb	06:32:12
3	Mn 257.610†	265.0	23.4	0.0287 µg/L	0.0287 ppb	06:32:32
3	Mo 202.031†	-15.5	4.8	0.1409 µg/L	0.1409 ppb	06:32:32
3	Ni 231.604†	-130.8	-52.2	-0.6005 µg/L	-0.6005 ppb	06:32:32
3	P 214.914†	-23.0	-4.6	-0.9969 µg/L	-0.9969 ppb	06:32:32
3	Pb 220.353†	60.4	-26.9	-1.5089 µg/L	-1.5089 ppb	06:32:32
3	S 181.975 Axial†	111.8	4.9	3.6683 µg/L	3.6683 ppb	06:32:32
3	Sb 206.836†	67.9	-14.1	-1.6687 µg/L	-1.6687 ppb	06:32:32
3	Se 196.026†	16.3	0.7	0.275 µg/L	0.275 ppb	06:32:32
3	SiO2†	1774.8	-29.4	-2.8940 µg/L	-2.8940 ppb	06:32:32
3	Si 251.611†	970.8	118.5	1.7392 µg/L	1.7392 ppb	06:32:12
3	Sn 189.927†	12.6	13.5	0.8437 µg/L	0.8437 ppb	06:32:32
3	Ti 334.940†	940.4	-27.4	-0.0276 µg/L	-0.0276 ppb	06:32:12
3	Tl 190.801†	-115.7	2.9	0.3509 µg/L	0.3509 ppb	06:32:32
3	U 409.014†	-199.4	73.7	4.2787 µg/L	4.2787 ppb	06:32:12
3	V 292.402†	297.6	-111.1	-0.5373 µg/L	-0.5373 ppb	06:32:12
3	Zn 213.857†	584.0	10.1	0.0598 µg/L	0.0598 ppb	06:32:32

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1739314.8	101.23 %	0.618			0.61%
Sc RADIAL	142492.2	97.6 %	0.30			0.31%
Y 371.029	1036235.3	100.93 %	0.592			0.59%
Ag 328.068†	-23.1	-0.0854 µg/L	0.72113	-0.0854 ppb	0.72113	844.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-205.4	-38.066 µg/L	1.7374	-38.066 ppb	1.7374	4.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	10.3	3.1131 µg/L	2.50205	3.1131 ppb	2.50205	80.37%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-38.0	-0.5618 µg/L	0.78148	-0.5618 ppb	0.78148	139.11%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.1	0.0567 µg/L	0.06498	0.0567 ppb	0.06498	114.71%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	204.0	0.0567 µg/L	0.02749	0.0567 ppb	0.02749	48.47%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	90.7	5.0501 µg/L	0.92933	5.0501 ppb	0.92933	18.40%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	19.1	0.1190 µg/L	0.07846	0.1190 ppb	0.07846	65.95%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	15.0	0.1849 µg/L	0.05350	0.1849 ppb	0.05350	28.93%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	13.4	0.1019 µg/L	0.04297 0.1019 ppb 0.04297 42.19%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-52.6	-0.2009 µg/L	0.58952 -0.2009 ppb 0.58952 293.42%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	17.0	1.0452 µg/L	0.59209 1.0452 ppb 0.59209 56.65%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	271.7	99.450 µg/L	30.4895 99.450 ppb 30.4895 30.66%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.4	1.2607 µg/L	3.80350 1.2607 ppb 3.80350 301.69%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	34.9	0.0432 µg/L	0.02579 0.0432 ppb 0.02579 59.72%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-3.9	-0.1145 µg/L	0.26452 -0.1145 ppb 0.26452 231.11%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	656.5	89.602 µg/L	23.4021 89.602 ppb 23.4021 26.12%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-28.2	-0.3244 µg/L	0.33218 -0.3244 ppb 0.33218 102.39%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-7.3	-1.5650 µg/L	0.54207 -1.5650 ppb 0.54207 34.64%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-13.2	-0.7401 µg/L	0.73343 -0.7401 ppb 0.73343 99.10%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.8	1.3034 µg/L	5.58858 1.3034 ppb 5.58858 428.77%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-12.2	-1.4553 µg/L	0.27561 -1.4553 ppb 0.27561 18.94%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.0	1.46 µg/L	1.139 1.46 ppb 1.139 77.90%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	-27.3	-2.6737 µg/L	0.52363 -2.6737 ppb 0.52363 19.58%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	58.7	0.8634 µg/L	1.80402 0.8634 ppb 1.80402 208.94%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	9.7	0.6018 µg/L	0.52852 0.6018 ppb 0.52852 87.83%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	13.4	0.0279 µg/L	0.08939 0.0279 ppb 0.08939 320.26%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-72.8	-0.0696 µg/L	0.04609 -0.0696 ppb 0.04609 66.18%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-6.2	-0.7624 µg/L	1.22852 -0.7624 ppb 1.22852 161.13%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	66.9	3.8902 µg/L	3.67023 3.8902 ppb 3.67023 94.34%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-75.8	-0.3679 µg/L	0.18055 -0.3679 ppb 0.18055 49.07%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	19.9	0.1133 µg/L	0.04681 0.1133 ppb 0.04681 41.31%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 3
 Sample ID: 1202056818|959093|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 301
 Date Collected: 4/1/2010 6:32:41
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056818|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	141753.6	141753.6	97.1 %		06:33:13
1	Al 396.153Radial†	-25.4	37.1	6.8823 µg/L	6.8823 ppb	06:33:33
1	Ca 317.933Radial†	837.2	301.3	16.785 µg/L	16.785 ppb	06:33:33
1	Fe 238.204 Radial†	924.5	803.7	49.534 µg/L	49.534 ppb	06:33:33
1	K 766.490 Radial†	1719.2	225.1	82.377 µg/L	82.377 ppb	06:33:13
1	Mg 279.077 IEC†	180.5	-4.9	-1.8569 µg/L	-1.8569 ppb	06:33:33
1	Na 589.592 Radial†	1885.9	650.7	88.817 µg/L	88.817 ppb	06:33:13
1	Sr 421.552†	-85.4	47.3	0.0983 µg/L	0.0983 ppb	06:33:13
1	Sc 361.383	1723178.2	1723178.2	100.29 %		06:34:21
1	Y 371.029	1024993.1	1024993.1	99.835 %		06:34:21
1	Ag 328.068†	4262.1	158.4	0.5731 µg/L	0.5731 ppb	06:34:23
1	As 188.979†	-21.3	-0.8	-0.2070 µg/L	-0.2070 ppb	06:34:43
1	B 249.677†	3419.7	-96.1	-1.4169 µg/L	-1.4169 ppb	06:34:23
1	Ba 233.527†	231.0	366.2	1.4746 µg/L	1.4746 ppb	06:34:43
1	Be 313.107†	-747.5	319.4	0.0845 µg/L	0.0845 ppb	06:34:23
1	Cd 226.502†	-122.4	-3.8	-0.0281 µg/L	-0.0281 ppb	06:34:43
1	Co 228.616†	-188.9	1.9	0.0232 µg/L	0.0232 ppb	06:34:43
1	Cr 267.716†	705.4	524.8	4.1178 µg/L	4.1178 ppb	06:34:43
1	Cu 324.752†	3009.6	28.7	0.1119 µg/L	0.1119 ppb	06:34:23
1	Mn 257.610†	1128.0	887.5	1.0981 µg/L	1.0981 ppb	06:34:43
1	Mo 202.031†	-26.9	-6.7	-0.1961 µg/L	-0.1961 ppb	06:34:43
1	Ni 231.604†	107.4	183.6	2.1141 µg/L	2.1141 ppb	06:34:43
1	P 214.914†	-35.3	-17.2	-3.6953 µg/L	-3.6953 ppb	06:34:43
1	Pb 220.353†	68.0	-18.6	-1.0334 µg/L	-1.0334 ppb	06:34:43
1	S 181.975 Axial†	122.0	16.6	12.313 µg/L	12.313 ppb	06:34:43
1	Sb 206.836†	80.3	-0.8	-0.1544 µg/L	-0.1544 ppb	06:34:43
1	Se 196.026†	2.6	-12.6	-4.56 µg/L	-4.56 ppb	06:34:43
1	SiO2†	1999.0	217.9	21.278 µg/L	21.278 ppb	06:34:23
1	Si 251.611†	1756.1	914.5	13.474 µg/L	13.474 ppb	06:34:23
1	Sn 189.927†	24.2	25.3	1.5762 µg/L	1.5762 ppb	06:34:43
1	Ti 334.940†	1077.9	122.2	0.1167 µg/L	0.1167 ppb	06:34:23
1	Tl 190.801†	-102.1	14.8	1.8261 µg/L	1.8261 ppb	06:34:43
1	U 409.014†	-411.0	-139.9	-8.2009 µg/L	-8.2009 ppb	06:34:23
1	V 292.402†	356.5	-48.4	-0.2312 µg/L	-0.2312 ppb	06:34:23
1	Zn 213.857†	1032.7	465.3	2.5947 µg/L	2.5947 ppb	06:34:43
2	Sc RADIAL	141378.4	141378.4	96.9 %		06:33:35
2	Al 396.153Radial†	-47.9	13.7	2.5495 µg/L	2.5495 ppb	06:33:55
2	Ca 317.933Radial†	834.7	301.0	16.769 µg/L	16.769 ppb	06:33:55
2	Fe 238.204 Radial†	989.0	872.7	53.790 µg/L	53.790 ppb	06:33:55
2	K 766.490 Radial†	1753.7	265.4	97.159 µg/L	97.159 ppb	06:33:35
2	Mg 279.077 IEC†	193.1	8.6	3.1526 µg/L	3.1526 ppb	06:33:55
2	Na 589.592 Radial†	1810.2	577.6	78.824 µg/L	78.824 ppb	06:33:35
2	Sr 421.552†	-285.7	-159.6	-0.3319 µg/L	-0.3319 ppb	06:33:35
2	Sc 361.383	1729015.1	1729015.1	100.63 %		06:34:45
2	Y 371.029	1027200.0	1027200.0	100.05 %		06:34:45
2	Ag 328.068†	4182.8	65.3	0.2481 µg/L	0.2481 ppb	06:34:47
2	As 188.979†	-11.3	9.1	2.8073 µg/L	2.8073 ppb	06:35:07
2	B 249.677†	3592.0	63.7	0.9386 µg/L	0.9386 ppb	06:34:47
2	Ba 233.527†	226.1	360.5	1.4522 µg/L	1.4522 ppb	06:35:07
2	Be 313.107†	-828.7	241.2	0.0666 µg/L	0.0666 ppb	06:34:47
2	Cd 226.502†	-107.8	11.1	0.0646 µg/L	0.0646 ppb	06:35:07
2	Co 228.616†	-174.0	17.4	0.2140 µg/L	0.2140 ppb	06:35:07
2	Cr 267.716†	761.9	578.6	4.5306 µg/L	4.5306 ppb	06:35:07
2	Cu 324.752†	2864.8	-125.3	-0.4762 µg/L	-0.4762 ppb	06:34:47
2	Mn 257.610†	1162.0	917.4	1.1349 µg/L	1.1349 ppb	06:35:07
2	Mo 202.031†	-24.1	-3.9	-0.1111 µg/L	-0.1111 ppb	06:35:07
2	Ni 231.604†	106.7	182.6	2.1023 µg/L	2.1023 ppb	06:35:07
2	P 214.914†	-25.6	-7.5	-1.6229 µg/L	-1.6229 ppb	06:35:07
2	Pb 220.353†	45.1	-41.5	-2.3228 µg/L	-2.3228 ppb	06:35:07

2	S 181.975 Axial†	123.0	17.2	12.767 µg/L	12.767 ppb	06:35:07
2	Sb 206.836†	67.6	-13.7	-1.6936 µg/L	-1.6936 ppb	06:35:07
2	Se 196.026†	23.8	8.4	3.05 µg/L	3.05 ppb	06:35:07
2	SiO2†	2110.8	322.3	31.496 µg/L	31.496 ppb	06:34:47
2	Si 251.611†	1983.5	1134.6	16.726 µg/L	16.726 ppb	06:34:47
2	Sn 189.927†	4.9	6.0	0.3755 µg/L	0.3755 ppb	06:35:07
2	Ti 334.940†	1175.8	215.9	0.1990 µg/L	0.1990 ppb	06:34:47
2	Tl 190.801†	-107.9	9.4	1.1658 µg/L	1.1658 ppb	06:35:07
2	U 409.014†	-216.1	55.2	3.2308 µg/L	3.2308 ppb	06:34:47
2	V 292.402†	461.2	54.6	0.2809 µg/L	0.2809 ppb	06:34:47
2	Zn 213.857†	1053.6	482.6	2.6918 µg/L	2.6918 ppb	06:35:07
3	Sc RADIAL	143478.5	143478.5	98.3 %		06:33:57
3	Al 396.153Radial†	-71.8	-9.8	-1.8031 µg/L	-1.8031 ppb	06:34:17
3	Ca 317.933Radial†	864.4	318.6	17.749 µg/L	17.749 ppb	06:34:17
3	Fe 238.204 Radial†	1030.7	900.2	55.482 µg/L	55.482 ppb	06:34:17
3	K 766.490 Radial†	1654.3	137.8	50.415 µg/L	50.415 ppb	06:33:57
3	Mg 279.077 IEC†	207.0	19.8	7.3250 µg/L	7.3250 ppb	06:34:17
3	Na 589.592 Radial†	1905.9	647.7	88.439 µg/L	88.439 ppb	06:33:57
3	Sr 421.552†	-159.3	-26.8	-0.0558 µg/L	-0.0558 ppb	06:33:57
3	Sc 361.383	1736937.0	1736937.0	101.09 %		06:35:09
3	Y 371.029	1032753.9	1032753.9	100.59 %		06:35:09
3	Ag 328.068†	4077.9	-57.4	-0.2098 µg/L	-0.2098 ppb	06:35:11
3	As 188.979†	-12.1	8.4	2.5903 µg/L	2.5903 ppb	06:35:31
3	B 249.677†	3512.3	-31.5	-0.4649 µg/L	-0.4649 ppb	06:35:11
3	Ba 233.527†	259.0	392.0	1.5792 µg/L	1.5792 ppb	06:35:31
3	Be 313.107†	-860.2	213.8	0.0577 µg/L	0.0577 ppb	06:35:11
3	Cd 226.502†	-107.1	12.2	0.0715 µg/L	0.0715 ppb	06:35:31
3	Co 228.616†	-169.7	22.5	0.2766 µg/L	0.2766 ppb	06:35:31
3	Cr 267.716†	792.6	605.5	4.7452 µg/L	4.7452 ppb	06:35:31
3	Cu 324.752†	2995.1	-9.4	-0.0295 µg/L	-0.0295 ppb	06:35:11
3	Mn 257.610†	1183.6	933.6	1.1547 µg/L	1.1547 ppb	06:35:31
3	Mo 202.031†	-35.1	-14.6	-0.4267 µg/L	-0.4267 ppb	06:35:31
3	Ni 231.604†	110.2	185.5	2.1359 µg/L	2.1359 ppb	06:35:31
3	P 214.914†	-10.1	8.0	1.6879 µg/L	1.6879 ppb	06:35:31
3	Pb 220.353†	68.1	-19.0	-1.0639 µg/L	-1.0639 ppb	06:35:31
3	S 181.975 Axial†	125.7	19.2	14.290 µg/L	14.290 ppb	06:35:31
3	Sb 206.836†	80.8	-0.9	-0.1775 µg/L	-0.1775 ppb	06:35:31
3	Se 196.026†	20.1	4.7	1.70 µg/L	1.70 ppb	06:35:31
3	SiO2†	2174.8	376.0	36.751 µg/L	36.751 ppb	06:35:11
3	Si 251.611†	1936.2	1078.8	15.904 µg/L	15.904 ppb	06:35:11
3	Sn 189.927†	14.5	15.4	0.9632 µg/L	0.9632 ppb	06:35:31
3	Ti 334.940†	1480.1	511.6	0.4769 µg/L	0.4769 ppb	06:35:11
3	Tl 190.801†	-115.9	2.0	0.2586 µg/L	0.2586 ppb	06:35:31
3	U 409.014†	-302.3	-29.2	-1.6876 µg/L	-1.6876 ppb	06:35:11
3	V 292.402†	509.2	99.9	0.4957 µg/L	0.4957 ppb	06:35:11
3	Zn 213.857†	1040.5	464.8	2.5914 µg/L	2.5914 ppb	06:35:31

Mean Data: 1202056818|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1729710.1	100.67 %	0.402			0.40%
Sc RADIAL	142203.5	97.4 %	0.77			0.79%
Y 371.029	1028315.7	100.16 %	0.389			0.39%
Ag 328.068†	55.4	0.2038 µg/L	0.39329	0.2038 ppb	0.39329	192.96%
Al 396.153Radial†	13.7	2.5429 µg/L	4.34272	2.5429 ppb	4.34272	170.78%
As 188.979†	5.5	1.7302 µg/L	1.68114	1.7302 ppb	1.68114	97.17%
B 249.677†	-21.3	-0.3144 µg/L	1.18491	-0.3144 ppb	1.18491	376.90%
Ba 233.527†	372.9	1.5020 µg/L	0.06776	1.5020 ppb	0.06776	4.51%
Be 313.107†	258.1	0.0696 µg/L	0.01364	0.0696 ppb	0.01364	19.59%
Ca 317.933Radial†	307.0	17.101 µg/L	0.5609	17.101 ppb	0.5609	3.28%
Cd 226.502†	6.5	0.0360 µg/L	0.05560	0.0360 ppb	0.05560	154.54%
Co 228.616†	13.9	0.1713 µg/L	0.13198	0.1713 ppb	0.13198	77.06%
Cr 267.716†	569.6	4.4646 µg/L	0.31885	4.4646 ppb	0.31885	7.14%
Cu 324.752†	-35.3	-0.1313 µg/L	0.30700	-0.1313 ppb	0.30700	233.88%
Fe 238.204 Radial†	858.9	52.935 µg/L	3.0647	52.935 ppb	3.0647	5.79%
K 766.490 Radial†	209.4	76.650 µg/L	23.8924	76.650 ppb	23.8924	31.17%
Mg 279.077 IEC†	7.9	2.8736 µg/L	4.59734	2.8736 ppb	4.59734	159.99%
Mn 257.610†	912.9	1.1292 µg/L	0.02874	1.1292 ppb	0.02874	2.55%
Mo 202.031†	-8.4	-0.2446 µg/L	0.16329	-0.2446 ppb	0.16329	66.75%
Na 589.592 Radial†	625.3	85.360 µg/L	5.6632	85.360 ppb	5.6632	6.63%

Ni 231.604†	183.9	2.1175 µg/L	0.01708	2.1175 ppb	0.01708	0.81%
P 214.914†	-5.6	-1.2101 µg/L	2.71525	-1.2101 ppb	2.71525	224.38%
Pb 220.353†	-26.4	-1.4734 µg/L	0.73576	-1.4734 ppb	0.73576	49.94%
S 181.975 Axial†	17.7	13.123 µg/L	1.0356	13.123 ppb	1.0356	7.89%
Sb 206.836†	-5.1	-0.6752 µg/L	0.88207	-0.6752 ppb	0.88207	130.64%
Se 196.026†	0.1	0.062 µg/L	4.0593	0.062 ppb	4.0593	>999.9%
SiO2†	305.4	29.841 µg/L	7.8682	29.841 ppb	7.8682	26.37%
Si 251.611†	1042.6	15.368 µg/L	1.6907	15.368 ppb	1.6907	11.00%
Sn 189.927†	15.6	0.9717 µg/L	0.60036	0.9717 ppb	0.60036	61.79%
Sr 421.552†	-46.3	-0.0965 µg/L	0.21796	-0.0965 ppb	0.21796	225.91%
Ti 334.940†	283.2	0.2642 µg/L	0.18875	0.2642 ppb	0.18875	71.43%
Tl 190.801†	8.8	1.0835 µg/L	0.78700	1.0835 ppb	0.78700	72.64%
U 409.014†	-38.0	-2.2192 µg/L	5.73437	-2.2192 ppb	5.73437	258.40%
V 292.402†	35.4	0.1818 µg/L	0.37343	0.1818 ppb	0.37343	205.40%
Zn 213.857†	470.9	2.6260 µg/L	0.05706	2.6260 ppb	0.05706	2.17%

Sequence No.: 4

Sample ID: 1202056823|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 302

Date Collected: 4/1/2010 6:35:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056823|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145835.5	145835.5	99.9 %		06:36:12
1	Al 396.153Radial†	513489.5	513884.5	95251 µg/L	95251 ppb	06:36:12
1	Ca 317.933Radial†	1701577.4	1702116.4	94815 µg/L	94815 ppb	06:36:12
1	Fe 238.204 Radial†	2932037.1	2933783.7	180820 µg/L	180820 ppb	06:36:10
1	K 766.490 Radial†	115131.0	113660.7	41569 µg/L	41569 ppb	06:36:12
1	Mg 279.077 IEC†	102808.6	102684.4	38115 µg/L	38115 ppb	06:36:12
1	Na 589.592 Radial†	78378.9	77138.8	10501 µg/L	10501 ppb	06:36:12
1	Sr 421.552†	1098695.1	1099540.3	2285.1 µg/L	2285.1 ppb	06:36:10
1	Sc 361.383	1748464.7	1748464.7	101.76 %		06:36:41
1	Y 371.029	1109855.5	1109855.5	108.10 %		06:36:41
1	Ag 328.068†	83321.5	77788.7	297.07 µg/L	297.07 ppb	06:36:41
1	As 188.979†	3376.0	3337.9	1073.7 µg/L	1073.7 ppb	06:36:43
1	B 249.677†	104132.7	98825.4	1454.3 µg/L	1454.3 ppb	06:36:41
1	Ba 233.527†	472593.3	464553.6	1870.6 µg/L	1870.6 ppb	06:36:41
1	Be 313.107†	2918199.8	2868781.8	781.03 µg/L	781.03 ppb	06:36:41
1	Cd 226.502†	98068.8	96490.5	584.32 µg/L	584.32 ppb	06:36:41
1	Co 228.616†	74819.7	73715.7	902.27 µg/L	902.27 ppb	06:36:41
1	Cr 267.716†	304959.8	299505.6	2351.0 µg/L	2351.0 ppb	06:36:41
1	Cu 324.752†	468439.9	457364.0	1805.1 µg/L	1805.1 ppb	06:36:41
1	Mn 257.610†	4398123.8	4321802.3	5345.4 µg/L	5345.4 ppb	06:36:41
1	Mo 202.031†	16670.0	16401.7	490.28 µg/L	490.28 ppb	06:36:43
1	Ni 231.604†	118318.6	116348.3	1339.7 µg/L	1339.7 ppb	06:36:41
1	P 214.914†	34694.6	34112.4	7178.4 µg/L	7178.4 ppb	06:36:43
1	Pb 220.353†	14065.0	13735.3	775.11 µg/L	775.11 ppb	06:36:43
1	S 181.975 Axial†	5189.2	4994.3	3712.8 µg/L	3712.8 ppb	06:36:43
1	Sb 206.836†	8929.6	8694.3	1006.0 µg/L	1006.0 ppb	06:36:43
1	Se 196.026†	7679.5	7531.4	2790 µg/L	2790 ppb	06:36:43
1	SiO2†	1002757.4	983635.0	96114 µg/L	96114 ppb	06:36:41
1	Si 251.611†	3089455.1	3035173.3	44734 µg/L	44734 ppb	06:36:41
1	Sn 189.927†	16380.6	16098.4	1022.6 µg/L	1022.6 ppb	06:36:43
1	Ti 334.940†	6153607.7	6046202.4	5647.5 µg/L	5647.5 ppb	06:36:41
1	Tl 190.801†	9054.4	9014.4	1182.5 µg/L	1182.5 ppb	06:36:43
1	U 409.014†	-5473.1	-5108.5	-234.98 µg/L	-234.98 ppb	06:36:41
1	V 292.402†	249965.1	245237.1	1186.9 µg/L	1186.9 ppb	06:36:41
1	Zn 213.857†	1038832.2	1020296.8	5706.2 µg/L	5706.2 ppb	06:36:41
2	Sc RADIAL	145998.6	145998.6	100 %		06:36:16
2	Al 396.153Radial†	515884.7	515704.8	95589 µg/L	95589 ppb	06:36:16
2	Ca 317.933Radial†	1706412.3	1705047.6	94978 µg/L	94978 ppb	06:36:16
2	Fe 238.204 Radial†	2945201.1	2943665.1	181430 µg/L	181430 ppb	06:36:14
2	K 766.490 Radial†	115708.8	114109.5	41733 µg/L	41733 ppb	06:36:16
2	Mg 279.077 IEC†	103262.2	103022.8	38241 µg/L	38241 ppb	06:36:16
2	Na 589.592 Radial†	78651.5	77323.7	10526 µg/L	10526 ppb	06:36:16
2	Sr 421.552†	1103119.1	1102734.6	2291.8 µg/L	2291.8 ppb	06:36:14
2	Sc 361.383	1741514.2	1741514.2	101.36 %		06:36:47
2	Y 371.029	1105074.2	1105074.2	107.63 %		06:36:47
2	Ag 328.068†	83045.6	77843.3	297.31 µg/L	297.31 ppb	06:36:47
2	As 188.979†	3447.2	3421.5	1099.1 µg/L	1099.1 ppb	06:36:49
2	B 249.677†	103631.5	98739.3	1453.1 µg/L	1453.1 ppb	06:36:47
2	Ba 233.527†	471443.1	465272.4	1873.5 µg/L	1873.5 ppb	06:36:47
2	Be 313.107†	2907541.9	2869711.9	781.28 µg/L	781.28 ppb	06:36:47
2	Cd 226.502†	97631.7	96443.8	583.96 µg/L	583.96 ppb	06:36:47
2	Co 228.616†	74789.2	73979.0	905.50 µg/L	905.50 ppb	06:36:47
2	Cr 267.716†	304506.7	300254.7	2356.9 µg/L	2356.9 ppb	06:36:47
2	Cu 324.752†	466882.0	457664.2	1806.3 µg/L	1806.3 ppb	06:36:47
2	Mn 257.610†	4383830.9	4324950.2	5349.3 µg/L	5349.3 ppb	06:36:47
2	Mo 202.031†	16584.8	16383.0	489.76 µg/L	489.76 ppb	06:36:49
2	Ni 231.604†	117713.2	116215.1	1338.1 µg/L	1338.1 ppb	06:36:47
2	P 214.914†	35146.3	34694.1	7302.5 µg/L	7302.5 ppb	06:36:49
2	Pb 220.353†	14184.7	13908.6	784.78 µg/L	784.78 ppb	06:36:49

2	S 181.975 Axial†	5313.1	5136.9	3818.7 µg/L	3818.7 ppb	06:36:49
2	Sb 206.836†	9102.6	8900.0	1030.3 µg/L	1030.3 ppb	06:36:49
2	Se 196.026†	7697.3	7579.1	2800 µg/L	2800 ppb	06:36:49
2	SiO2†	999570.8	984423.9	96191 µg/L	96191 ppb	06:36:47
2	Si 251.611†	3080748.4	3038700.1	44786 µg/L	44786 ppb	06:36:47
2	Sn 189.927†	16351.7	16134.1	1024.9 µg/L	1024.9 ppb	06:36:49
2	Ti 334.940†	6136848.5	6053802.2	5654.6 µg/L	5654.6 ppb	06:36:47
2	Tl 190.801†	9048.4	9044.1	1186.2 µg/L	1186.2 ppb	06:36:49
2	U 409.014†	-5245.4	-4905.3	-223.08 µg/L	-223.08 ppb	06:36:47
2	V 292.402†	249438.2	245697.6	1189.1 µg/L	1189.1 ppb	06:36:47
2	Zn 213.857†	1035712.7	1021293.4	5711.7 µg/L	5711.7 ppb	06:36:47
3	Sc RADIAL	146078.5	146078.5	100 %		06:36:21
3	Al 396.153Radial†	514601.2	514140.4	95299 µg/L	95299 ppb	06:36:21
3	Ca 317.933Radial†	1703959.8	1701664.4	94789 µg/L	94789 ppb	06:36:21
3	Fe 238.204 Radial†	2885671.2	2882585.2	177660 µg/L	177660 ppb	06:36:19
3	K 766.490 Radial†	115277.0	113614.8	41552 µg/L	41552 ppb	06:36:21
3	Mg 279.077 IEC†	103059.2	102763.5	38148 µg/L	38148 ppb	06:36:21
3	Na 589.592 Radial†	78770.5	77399.5	10537 µg/L	10537 ppb	06:36:21
3	Sr 421.552†	1087213.1	1086241.5	2257.5 µg/L	2257.5 ppb	06:36:19
3	Sc 361.383	1723982.3	1723982.3	100.34 %		06:36:53
3	Y 371.029	1094349.2	1094349.2	106.59 %		06:36:53
3	Ag 328.068†	81768.9	77404.1	295.69 µg/L	295.69 ppb	06:36:53
3	As 188.979†	3335.5	3344.7	1075.0 µg/L	1075.0 ppb	06:36:55
3	B 249.677†	102291.0	98443.1	1448.7 µg/L	1448.7 ppb	06:36:53
3	Ba 233.527†	465808.9	464387.1	1870.0 µg/L	1870.0 ppb	06:36:53
3	Be 313.107†	2870250.6	2861717.7	779.10 µg/L	779.10 ppb	06:36:53
3	Cd 226.502†	96474.1	96269.7	583.27 µg/L	583.27 ppb	06:36:53
3	Co 228.616†	73797.5	73741.1	902.75 µg/L	902.75 ppb	06:36:53
3	Cr 267.716†	300782.7	299598.3	2351.6 µg/L	2351.6 ppb	06:36:53
3	Cu 324.752†	462072.9	457555.6	1805.3 µg/L	1805.3 ppb	06:36:53
3	Mn 257.610†	4334652.7	4319921.2	5343.1 µg/L	5343.1 ppb	06:36:53
3	Mo 202.031†	16518.7	16483.5	492.56 µg/L	492.56 ppb	06:36:55
3	Ni 231.604†	116459.7	116146.8	1337.3 µg/L	1337.3 ppb	06:36:53
3	P 214.914†	34973.3	34874.3	7343.6 µg/L	7343.6 ppb	06:36:55
3	Pb 220.353†	14158.1	14024.4	791.35 µg/L	791.35 ppb	06:36:55
3	S 181.975 Axial†	5296.8	5174.0	3846.2 µg/L	3846.2 ppb	06:36:55
3	Sb 206.836†	9066.4	8955.2	1037.1 µg/L	1037.1 ppb	06:36:55
3	Se 196.026†	7628.9	7588.1	2800 µg/L	2800 ppb	06:36:55
3	SiO2†	986908.9	981833.5	95938 µg/L	95938 ppb	06:36:53
3	Si 251.611†	3042932.7	3031921.1	44686 µg/L	44686 ppb	06:36:53
3	Sn 189.927†	16336.2	16282.7	1034.1 µg/L	1034.1 ppb	06:36:55
3	Ti 334.940†	6068742.1	6047496.8	5648.7 µg/L	5648.7 ppb	06:36:53
3	Tl 190.801†	9008.8	9095.3	1192.4 µg/L	1192.4 ppb	06:36:55
3	U 409.014†	-5304.8	-5017.1	-228.89 µg/L	-228.89 ppb	06:36:53
3	V 292.402†	246626.9	245398.5	1188.1 µg/L	1188.1 ppb	06:36:53
3	Zn 213.857†	1022817.2	1018832.6	5698.3 µg/L	5698.3 ppb	06:36:53

Mean Data: 1202056823|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1737987.1	101.15 %	0.734			0.73%
Sc RADIAL	145970.9	100 %	0.1			0.08%
Y 371.029	1103093.0	107.44 %	0.773			0.72%
Ag 328.068†	77678.7	296.69 µg/L	0.876	296.69 ppb	0.876	0.30%
Al 396.153Radial†	514576.6	95380 µg/L	182.7	95380 ppb	182.7	0.19%
As 188.979†	3368.0	1082.6 µg/L	14.32	1082.6 ppb	14.32	1.32%
B 249.677†	98669.3	1452.0 µg/L	2.96	1452.0 ppb	2.96	0.20%
Ba 233.527†	464737.7	1871.3 µg/L	1.88	1871.3 ppb	1.88	0.10%
Be 313.107†	2866737.1	780.47 µg/L	1.191	780.47 ppb	1.191	0.15%
Ca 317.933Radial†	1702942.8	94861 µg/L	102.3	94861 ppb	102.3	0.11%
Cd 226.502†	96401.3	583.85 µg/L	0.533	583.85 ppb	0.533	0.09%
Co 228.616†	73811.9	903.51 µg/L	1.738	903.51 ppb	1.738	0.19%
Cr 267.716†	299786.2	2353.2 µg/L	3.23	2353.2 ppb	3.23	0.14%
Cu 324.752†	457527.9	1805.6 µg/L	0.67	1805.6 ppb	0.67	0.04%
Fe 238.204 Radial†	2920011.3	179970 µg/L	2020.8	179970 ppb	2020.8	1.12%
K 766.490 Radial†	113795.0	41618 µg/L	100.0	41618 ppb	100.0	0.24%
Mg 279.077 IEC†	102823.6	38168 µg/L	65.2	38168 ppb	65.2	0.17%
Mn 257.610†	4322224.6	5345.9 µg/L	3.14	5345.9 ppb	3.14	0.06%
Mo 202.031†	16422.8	490.86 µg/L	1.490	490.86 ppb	1.490	0.30%
Na 589.592 Radial†	77287.3	10521 µg/L	18.3	10521 ppb	18.3	0.17%

Ni 231.604†	116236.7	1338.4 µg/L	1.18	1338.4 ppb	1.18	0.09%
P 214.914†	34560.2	7274.8 µg/L	86.00	7274.8 ppb	86.00	1.18%
Pb 220.353†	13889.4	783.75 µg/L	8.169	783.75 ppb	8.169	1.04%
S 181.975 Axial†	5101.8	3792.5 µg/L	70.45	3792.5 ppb	70.45	1.86%
Sb 206.836†	8849.8	1024.5 µg/L	16.36	1024.5 ppb	16.36	1.60%
Se 196.026†	7566.2	2800 µg/L	10.7	2800 ppb	10.7	0.38%
SiO2†	983297.5	96081 µg/L	129.9	96081 ppb	129.9	0.14%
Si 251.611†	3035264.8	44735 µg/L	50.0	44735 ppb	50.0	0.11%
Sn 189.927†	16171.7	1027.2 µg/L	6.09	1027.2 ppb	6.09	0.59%
Sr 421.552†	1096172.1	2278.1 µg/L	18.18	2278.1 ppb	18.18	0.80%
Ti 334.940†	6049167.1	5650.2 µg/L	3.79	5650.2 ppb	3.79	0.07%
Tl 190.801†	9051.3	1187.0 µg/L	5.03	1187.0 ppb	5.03	0.42%
U 409.014†	-5010.3	-228.98 µg/L	5.949	-228.98 ppb	5.949	2.60%
Concentration less than lower limit for U 409.014.						
V 292.402†	245444.4	1188.0 µg/L	1.10	1188.0 ppb	1.10	0.09%
Zn 213.857†	1020140.9	5705.4 µg/L	6.75	5705.4 ppb	6.75	0.12%

Sequence No.: 5

Sample ID: 248000001|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 303

Date Collected: 4/1/2010 6:37:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248000001|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142484.6	142484.6	97.6 %		06:37:32
1	Al 396.153Radial†	81662.5	83700.2	15518 µg/L	15518 ppb	06:37:32
1	Ca 317.933Radial†	68368.2	69460.8	3869.2 µg/L	3869.2 ppb	06:37:34
1	Fe 238.204 Radial†	1130573.2	1157761.6	71357 µg/L	71357 ppb	06:37:32
1	K 766.490 Radial†	16090.5	14934.8	5462.7 µg/L	5462.7 ppb	06:37:34
1	Mg 279.077 IEC†	5873.0	5824.3	2108.9 µg/L	2108.9 ppb	06:37:34
1	Na 589.592 Radial†	38044.4	37673.5	5141.8 µg/L	5141.8 ppb	06:37:34
1	Sr 421.552†	11375.4	11785.7	24.472 µg/L	24.472 ppb	06:37:34
1	Sc 361.383	1735957.2	1735957.2	101.03 %		06:37:46
1	Y 371.029	1338092.8	1338092.8	130.33 %		06:37:46
1	Ag 328.068†	4245.6	110.8	-1.2817 µg/L	-1.2817 ppb	06:37:48
1	As 188.979†	2.4	22.8	23.012 µg/L	23.012 ppb	06:38:08
1	B 249.677†	3983.3	436.7	6.3998 µg/L	6.3998 ppb	06:37:48
1	Ba 233.527†	45647.0	45316.4	181.72 µg/L	181.72 ppb	06:37:48
1	Be 313.107†	30038.6	30796.3	8.2620 µg/L	8.2620 ppb	06:37:48
1	Cd 226.502†	1125.7	1232.4	0.1974 µg/L	0.1974 ppb	06:37:48
1	Co 228.616†	769.9	952.3	8.2082 µg/L	8.2082 ppb	06:38:08
1	Cr 267.716†	1735.5	1539.1	13.853 µg/L	13.853 ppb	06:37:48
1	Cu 324.752†	3636.4	627.0	12.558 µg/L	12.558 ppb	06:37:48
1	Mn 257.610†	3226748.7	3193537.7	3951.1 µg/L	3951.1 ppb	06:37:46
1	Mo 202.031†	53.2	72.7	5.0116 µg/L	5.0116 ppb	06:38:08
1	Ni 231.604†	652.1	722.0	8.3131 µg/L	8.3131 ppb	06:38:08
1	P 214.914†	2293.6	2288.1	444.33 µg/L	444.33 ppb	06:38:08
1	Pb 220.353†	697.6	604.1	36.728 µg/L	36.728 ppb	06:38:08
1	S 181.975 Axial†	179.6	72.7	54.010 µg/L	54.010 ppb	06:38:08
1	Sb 206.836†	61.9	-19.6	-3.3967 µg/L	-3.3967 ppb	06:38:08
1	Se 196.026†	-53.3	-68.1	-0.245 µg/L	-0.245 ppb	06:38:08
1	SiO2†	744854.6	735467.7	71886 µg/L	71886 ppb	06:37:46
1	Si 251.611†	2287606.6	2263393.3	33369 µg/L	33369 ppb	06:37:46
1	Sn 189.927†	159.4	158.9	20.167 µg/L	20.167 ppb	06:38:08
1	Ti 334.940†	3292376.8	3257779.9	3043.7 µg/L	3043.7 ppb	06:37:46
1	Tl 190.801†	-526.8	-404.7	-8.7333 µg/L	-8.7333 ppb	06:38:08
1	U 409.014†	-7318.0	-6973.3	-395.93 µg/L	-395.93 ppb	06:37:46
1	V 292.402†	8546.0	8054.8	28.743 µg/L	28.743 ppb	06:37:48
1	Zn 213.857†	99450.9	97870.2	543.93 µg/L	543.93 ppb	06:37:48
2	Sc RADIAL	142798.6	142798.6	97.9 %		06:37:36
2	Al 396.153Radial†	82221.2	84087.3	15590 µg/L	15590 ppb	06:37:36
2	Ca 317.933Radial†	69903.5	70875.7	3948.1 µg/L	3948.1 ppb	06:37:38
2	Fe 238.204 Radial†	1134183.7	1158905.1	71428 µg/L	71428 ppb	06:37:36
2	K 766.490 Radial†	16390.9	15205.5	5561.7 µg/L	5561.7 ppb	06:37:38
2	Mg 279.077 IEC†	5924.4	5863.6	2123.5 µg/L	2123.5 ppb	06:37:38
2	Na 589.592 Radial†	38985.7	38549.7	5261.4 µg/L	5261.4 ppb	06:37:38
2	Sr 421.552†	11444.0	11830.2	24.563 µg/L	24.563 ppb	06:37:38
2	Sc 361.383	1715958.3	1715958.3	99.869 %		06:38:11
2	Y 371.029	1323744.1	1323744.1	128.93 %		06:38:11
2	Ag 328.068†	4631.5	546.2	0.3638 µg/L	0.3638 ppb	06:38:13
2	As 188.979†	3.3	23.7	23.314 µg/L	23.314 ppb	06:38:33
2	B 249.677†	3986.9	486.2	7.1306 µg/L	7.1306 ppb	06:38:13
2	Ba 233.527†	46214.3	46411.0	186.13 µg/L	186.13 ppb	06:38:13
2	Be 313.107†	30033.4	31137.6	8.3588 µg/L	8.3588 ppb	06:38:13
2	Cd 226.502†	1102.7	1222.4	0.1276 µg/L	0.1276 ppb	06:38:13
2	Co 228.616†	757.7	949.0	8.1679 µg/L	8.1679 ppb	06:38:33
2	Cr 267.716†	1723.1	1546.8	13.906 µg/L	13.906 ppb	06:38:13
2	Cu 324.752†	3858.7	891.5	13.607 µg/L	13.607 ppb	06:38:13
2	Mn 257.610†	3189555.4	3193517.6	3951.1 µg/L	3951.1 ppb	06:38:11
2	Mo 202.031†	32.4	52.5	4.4226 µg/L	4.4226 ppb	06:38:33
2	Ni 231.604†	647.2	724.6	8.3433 µg/L	8.3433 ppb	06:38:33
2	P 214.914†	2278.9	2299.9	446.82 µg/L	446.82 ppb	06:38:33
2	Pb 220.353†	667.2	581.7	35.467 µg/L	35.467 ppb	06:38:33

2	S 181.975 Axial†	178.9	74.1	55.037 µg/L	55.037 ppb	06:38:33
2	Sb 206.836†	58.8	-21.9	-3.6789 µg/L	-3.6789 ppb	06:38:33
2	Se 196.026†	-35.4	-50.7	6.07 µg/L	6.07 ppb	06:38:33
2	SiO2†	735887.8	735081.3	71848 µg/L	71848 ppb	06:38:11
2	Si 251.611†	2258669.0	2260806.3	33331 µg/L	33331 ppb	06:38:11
2	Sn 189.927†	166.0	167.3	20.698 µg/L	20.698 ppb	06:38:33
2	Ti 334.940†	3256018.5	3259353.0	3045.2 µg/L	3045.2 ppb	06:38:11
2	Tl 190.801†	-513.9	-397.9	-7.8667 µg/L	-7.8667 ppb	06:38:33
2	U 409.014†	-7016.5	-6755.9	-383.14 µg/L	-383.14 ppb	06:38:11
2	V 292.402†	8796.9	8404.7	30.443 µg/L	30.443 ppb	06:38:13
2	Zn 213.857†	100534.7	100102.6	556.46 µg/L	556.46 ppb	06:38:13
3	Sc RADIAL	143480.7	143480.7	98.3 %		06:37:40
3	Al 396.153Radial†	82287.5	83755.3	15528 µg/L	15528 ppb	06:37:40
3	Ca 317.933Radial†	68454.8	69062.6	3847.1 µg/L	3847.1 ppb	06:37:42
3	Fe 238.204 Radial†	1137724.1	1156995.5	71310 µg/L	71310 ppb	06:37:40
3	K 766.490 Radial†	16421.8	15157.3	5544.1 µg/L	5544.1 ppb	06:37:42
3	Mg 279.077 IEC†	5789.9	5698.1	2061.9 µg/L	2061.9 ppb	06:37:42
3	Na 589.592 Radial†	38252.9	37615.1	5133.7 µg/L	5133.7 ppb	06:37:42
3	Sr 421.552†	11322.1	11650.7	24.191 µg/L	24.191 ppb	06:37:42
3	Sc 361.383	1733471.3	1733471.3	100.89 %		06:38:35
3	Y 371.029	1335407.5	1335407.5	130.07 %		06:38:35
3	Ag 328.068†	4325.4	195.9	-0.9657 µg/L	-0.9657 ppb	06:38:37
3	As 188.979†	8.2	28.5	24.747 µg/L	24.747 ppb	06:38:58
3	B 249.677†	3944.6	404.0	5.9167 µg/L	5.9167 ppb	06:38:37
3	Ba 233.527†	46049.4	45780.0	183.59 µg/L	183.59 ppb	06:38:37
3	Be 313.107†	29922.1	30723.5	8.2403 µg/L	8.2403 ppb	06:38:37
3	Cd 226.502†	1104.4	1212.9	0.0805 µg/L	0.0805 ppb	06:38:37
3	Co 228.616†	773.8	957.3	8.2736 µg/L	8.2736 ppb	06:38:58
3	Cr 267.716†	1805.7	1611.3	14.420 µg/L	14.420 ppb	06:38:37
3	Cu 324.752†	3832.4	826.5	13.320 µg/L	13.320 ppb	06:38:37
3	Mn 257.610†	3230398.7	3201735.5	3961.2 µg/L	3961.2 ppb	06:38:35
3	Mo 202.031†	47.4	67.0	4.8416 µg/L	4.8416 ppb	06:38:58
3	Ni 231.604†	641.2	712.1	8.1992 µg/L	8.1992 ppb	06:38:58
3	P 214.914†	2304.7	2302.4	447.41 µg/L	447.41 ppb	06:38:58
3	Pb 220.353†	657.9	565.8	34.597 µg/L	34.597 ppb	06:38:58
3	S 181.975 Axial†	158.2	51.7	38.443 µg/L	38.443 ppb	06:38:58
3	Sb 206.836†	67.8	-13.6	-2.6960 µg/L	-2.6960 ppb	06:38:58
3	Se 196.026†	-39.5	-54.4	4.66 µg/L	4.66 ppb	06:38:58
3	SiO2†	745723.1	737385.8	72073 µg/L	72073 ppb	06:38:35
3	Si 251.611†	2287013.0	2266051.8	33408 µg/L	33408 ppb	06:38:35
3	Sn 189.927†	138.7	138.6	18.918 µg/L	18.918 ppb	06:38:58
3	Ti 334.940†	3291087.9	3261175.4	3046.9 µg/L	3046.9 ppb	06:38:35
3	Tl 190.801†	-509.8	-388.6	-6.6929 µg/L	-6.6929 ppb	06:38:58
3	U 409.014†	-7413.6	-7078.5	-401.96 µg/L	-401.96 ppb	06:38:35
3	V 292.402†	8713.6	8233.1	29.611 µg/L	29.611 ppb	06:38:37
3	Zn 213.857†	100044.0	98599.2	548.03 µg/L	548.03 ppb	06:38:37

Mean Data: 248000001|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1728462.3	100.60 %	0.634			0.63%
Sc RADIAL	142921.3	97.9 %	0.35			0.36%
Y 371.029	1332414.8	129.78 %	0.743			0.57%
Ag 328.068†	284.3	-0.6279 µg/L	0.87325	-0.6279 ppb	0.87325	139.08%
Al 396.153Radial†	83847.6	15545 µg/L	38.8	15545 ppb	38.8	0.25%
As 188.979†	25.0	23.691 µg/L	0.9272	23.691 ppb	0.9272	3.91%
B 249.677†	442.3	6.4824 µg/L	0.61114	6.4824 ppb	0.61114	9.43%
Ba 233.527†	45835.8	183.81 µg/L	2.214	183.81 ppb	2.214	1.20%
Be 313.107†	30885.8	8.2870 µg/L	0.06307	8.2870 ppb	0.06307	0.76%
Ca 317.933Radial†	69799.7	3888.1 µg/L	53.08	3888.1 ppb	53.08	1.37%
Cd 226.502†	1222.5	0.1352 µg/L	0.05879	0.1352 ppb	0.05879	43.49%
Co 228.616†	952.9	8.2166 µg/L	0.05338	8.2166 ppb	0.05338	0.65%
Cr 267.716†	1565.7	14.060 µg/L	0.3130	14.060 ppb	0.3130	2.23%
Cu 324.752†	781.7	13.161 µg/L	0.5422	13.161 ppb	0.5422	4.12%
Fe 238.204 Radial†	1157887.4	71365 µg/L	59.2	71365 ppb	59.2	0.08%
K 766.490 Radial†	15099.2	5522.8 µg/L	52.85	5522.8 ppb	52.85	0.96%
Mg 279.077 IEC†	5795.3	2098.1 µg/L	32.17	2098.1 ppb	32.17	1.53%
Mn 257.610†	3196263.6	3954.5 µg/L	5.86	3954.5 ppb	5.86	0.15%
Mo 202.031†	64.1	4.7586 µg/L	0.30315	4.7586 ppb	0.30315	6.37%
Na 589.592 Radial†	37946.1	5179.0 µg/L	71.50	5179.0 ppb	71.50	1.38%

Ni 231.604†	719.6	8.2852 µg/L	0.07598	8.2852 ppb	0.07598	0.92%
P 214.914†	2296.8	446.18 µg/L	1.632	446.18 ppb	1.632	0.37%
Pb 220.353†	583.9	35.597 µg/L	1.0713	35.597 ppb	1.0713	3.01%
S 181.975 Axial†	66.2	49.163 µg/L	9.2983	49.163 ppb	9.2983	18.91%
Sb 206.836†	-18.4	-3.2572 µg/L	0.50608	-3.2572 ppb	0.50608	15.54%
Se 196.026†	-57.7	3.50 µg/L	3.317	3.50 ppb	3.317	94.86%
SiO2†	735978.3	71936 µg/L	120.6	71936 ppb	120.6	0.17%
Si 251.611†	2263417.1	33369 µg/L	38.7	33369 ppb	38.7	0.12%
Sn 189.927†	154.9	19.928 µg/L	0.9139	19.928 ppb	0.9139	4.59%
Sr 421.552†	11755.5	24.409 µg/L	0.1941	24.409 ppb	0.1941	0.80%
Ti 334.940†	3259436.1	3045.3 µg/L	1.59	3045.3 ppb	1.59	0.05%
Tl 190.801†	-397.1	-7.7643 µg/L	1.02406	-7.7643 ppb	1.02406	13.19%
U 409.014†	-6935.9	-393.68 µg/L	9.613	-393.68 ppb	9.613	2.44%
Concentration less than lower limit for U 409.014.						
V 292.402†	8230.9	29.599 µg/L	0.8503	29.599 ppb	0.8503	2.87%
Zn 213.857†	98857.4	549.47 µg/L	6.391	549.47 ppb	6.391	1.16%

Sequence No.: 6

Sample ID: 1202056819|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 304

Date Collected: 4/1/2010 6:39:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056819|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145095.5	145095.5	99.4 %			06:39:35
1	Al 396.153Radial†	79000.1	79517.5	14742 µg/L		14742 ppb	06:39:35
1	Ca 317.933Radial†	56304.1	56067.2	3123.2 µg/L		3123.2 ppb	06:39:37
1	Fe 238.204 Radial†	857732.7	862516.3	53160 µg/L		53160 ppb	06:39:35
1	K 766.490 Radial†	16006.3	14553.6	5323.5 µg/L		5323.5 ppb	06:39:37
1	Mg 279.077 IEC†	4693.6	4529.9	1642.2 µg/L		1642.2 ppb	06:39:37
1	Na 589.592 Radial†	35381.5	34294.1	4680.3 µg/L		4680.3 ppb	06:39:37
1	Sr 421.552†	7392.4	7570.2	15.713 µg/L		15.713 ppb	06:39:37
1	Sc 361.383	1757730.6	1757730.6	102.30 %			06:40:03
1	Y 371.029	1335147.7	1335147.7	130.04 %			06:40:03
1	Ag 328.068†	4113.0	-70.8	-1.4453 µg/L		-1.4453 ppb	06:40:05
1	As 188.979†	-8.0	12.5	15.792 µg/L		15.792 ppb	06:40:25
1	B 249.677†	4299.8	697.2	10.253 µg/L		10.253 ppb	06:40:05
1	Ba 233.527†	34008.2	33379.6	133.85 µg/L		133.85 ppb	06:40:05
1	Be 313.107†	22659.8	23215.1	6.2189 µg/L		6.2189 ppb	06:40:05
1	Cd 226.502†	792.6	893.0	-0.0094 µg/L		-0.0094 ppb	06:40:25
1	Co 228.616†	523.6	702.2	6.0232 µg/L		6.0232 ppb	06:40:25
1	Cr 267.716†	1114.4	910.8	8.6295 µg/L		8.6295 ppb	06:40:05
1	Cu 324.752†	3527.7	476.2	9.3642 µg/L		9.3642 ppb	06:40:05
1	Mn 257.610†	1999632.5	1954444.4	2418.0 µg/L		2418.0 ppb	06:40:03
1	Mo 202.031†	50.2	69.2	4.1750 µg/L		4.1750 ppb	06:40:25
1	Ni 231.604†	503.0	568.2	6.5427 µg/L		6.5427 ppb	06:40:25
1	P 214.914†	1846.9	1823.3	357.15 µg/L		357.15 ppb	06:40:25
1	Pb 220.353†	514.2	416.2	25.896 µg/L		25.896 ppb	06:40:25
1	S 181.975 Axial†	175.3	66.3	49.279 µg/L		49.279 ppb	06:40:25
1	Sb 206.836†	71.4	-11.0	-2.0858 µg/L		-2.0858 ppb	06:40:25
1	Se 196.026†	-34.4	-48.9	0.446 µg/L		0.446 ppb	06:40:25
1	SiO2†	740507.7	722086.1	70578 µg/L		70578 ppb	06:40:03
1	Si 251.611†	2272424.3	2220504.8	32737 µg/L		32737 ppb	06:40:03
1	Sn 189.927†	183.1	180.1	19.377 µg/L		19.377 ppb	06:40:25
1	Ti 334.940†	2647261.3	2586799.6	2416.8 µg/L		2416.8 ppb	06:40:03
1	Tl 190.801†	-406.1	-280.3	-3.7748 µg/L		-3.7748 ppb	06:40:25
1	U 409.014†	-6189.1	-5780.1	-332.67 µg/L		-332.67 ppb	06:40:03
1	V 292.402†	6177.3	5634.6	19.462 µg/L		19.462 ppb	06:40:05
1	Zn 213.857†	75369.7	73111.0	406.51 µg/L		406.51 ppb	06:40:05
2	Sc RADIAL	142523.6	142523.6	97.7 %			06:39:39
2	Al 396.153Radial†	77673.4	79592.9	14756 µg/L		14756 ppb	06:39:39
2	Ca 317.933Radial†	56333.1	57118.8	3181.7 µg/L		3181.7 ppb	06:39:41
2	Fe 238.204 Radial†	839036.2	858940.3	52940 µg/L		52940 ppb	06:39:39
2	K 766.490 Radial†	15925.7	14761.6	5399.6 µg/L		5399.6 ppb	06:39:41
2	Mg 279.077 IEC†	4670.7	4591.6	1665.4 µg/L		1665.4 ppb	06:39:41
2	Na 589.592 Radial†	35316.5	34869.8	4758.8 µg/L		4758.8 ppb	06:39:41
2	Sr 421.552†	7411.7	7724.1	16.033 µg/L		16.033 ppb	06:39:41
2	Sc 361.383	1745386.0	1745386.0	101.58 %			06:40:28
2	Y 371.029	1325895.2	1325895.2	129.14 %			06:40:28
2	Ag 328.068†	4113.8	-41.7	-1.3388 µg/L		-1.3388 ppb	06:40:30
2	As 188.979†	13.4	33.5	22.089 µg/L		22.089 ppb	06:40:50
2	B 249.677†	4307.5	734.5	10.803 µg/L		10.803 ppb	06:40:30
2	Ba 233.527†	34362.3	33963.2	136.20 µg/L		136.20 ppb	06:40:30
2	Be 313.107†	22778.5	23488.6	6.2920 µg/L		6.2920 ppb	06:40:30
2	Cd 226.502†	773.2	879.4	-0.0714 µg/L		-0.0714 ppb	06:40:50
2	Co 228.616†	519.5	701.7	6.0319 µg/L		6.0319 ppb	06:40:50
2	Cr 267.716†	1171.0	974.2	9.1232 µg/L		9.1232 ppb	06:40:30
2	Cu 324.752†	3674.9	645.5	9.9870 µg/L		9.9870 ppb	06:40:30
2	Mn 257.610†	1978936.2	1947895.1	2409.9 µg/L		2409.9 ppb	06:40:28
2	Mo 202.031†	45.9	65.3	4.0525 µg/L		4.0525 ppb	06:40:50
2	Ni 231.604†	477.5	546.6	6.2933 µg/L		6.2933 ppb	06:40:50
2	P 214.914†	1813.3	1803.0	352.94 µg/L		352.94 ppb	06:40:50
2	Pb 220.353†	494.6	400.6	25.026 µg/L		25.026 ppb	06:40:50

2	S 181.975 Axial†	180.9	73.0	54.247 µg/L	54.247 ppb	06:40:50
2	Sb 206.836†	60.9	-20.9	-3.2695 µg/L	-3.2695 ppb	06:40:50
2	Se 196.026†	-16.9	-31.9	6.49 µg/L	6.49 ppb	06:40:50
2	SiO2†	731974.5	718805.4	70257 µg/L	70257 ppb	06:40:28
2	Si 251.611†	2247106.9	2211292.3	32601 µg/L	32601 ppb	06:40:28
2	Sn 189.927†	172.4	170.8	18.785 µg/L	18.785 ppb	06:40:50
2	Ti 334.940†	2624022.2	2582224.5	2412.6 µg/L	2412.6 ppb	06:40:28
2	Tl 190.801†	-378.9	-256.3	-0.8823 µg/L	-0.8823 ppb	06:40:50
2	U 409.014†	-6222.4	-5855.6	-337.08 µg/L	-337.08 ppb	06:40:28
2	V 292.402†	6164.3	5664.6	19.633 µg/L	19.633 ppb	06:40:30
2	Zn 213.857†	75698.5	73955.8	411.28 µg/L	411.28 ppb	06:40:30
3	Sc RADIAL	145361.4	145361.4	99.6 %		06:39:43
3	Al 396.153Radial†	79025.2	79397.4	14720 µg/L	14720 ppb	06:39:43
3	Ca 317.933Radial†	56120.7	55779.5	3107.1 µg/L	3107.1 ppb	06:39:45
3	Fe 238.204 Radial†	856533.3	859734.0	52989 µg/L	52989 ppb	06:39:43
3	K 766.490 Radial†	15972.8	14490.5	5300.4 µg/L	5300.4 ppb	06:39:45
3	Mg 279.077 IEC†	4721.5	4549.3	1649.6 µg/L	1649.6 ppb	06:39:45
3	Na 589.592 Radial†	35184.4	34031.2	4644.4 µg/L	4644.4 ppb	06:39:45
3	Sr 421.552†	7384.7	7548.9	15.669 µg/L	15.669 ppb	06:39:45
3	Sc 361.383	1722608.5	1722608.5	100.26 %		06:40:52
3	Y 371.029	1310525.2	1310525.2	127.65 %		06:40:52
3	Ag 328.068†	4229.4	127.2	-0.6938 µg/L	-0.6938 ppb	06:40:54
3	As 188.979†	10.3	30.7	21.235 µg/L	21.235 ppb	06:41:15
3	B 249.677†	4232.2	715.5	10.521 µg/L	10.521 ppb	06:40:54
3	Ba 233.527†	34108.7	34157.6	136.98 µg/L	136.98 ppb	06:40:54
3	Be 313.107†	22764.2	23770.9	6.3721 µg/L	6.3721 ppb	06:40:54
3	Cd 226.502†	802.1	918.3	0.1664 µg/L	0.1664 ppb	06:41:15
3	Co 228.616†	544.7	733.6	6.4230 µg/L	6.4230 ppb	06:41:15
3	Cr 267.716†	1079.0	897.7	8.5181 µg/L	8.5181 ppb	06:40:54
3	Cu 324.752†	3643.0	661.5	10.065 µg/L	10.065 ppb	06:40:54
3	Mn 257.610†	1952451.1	1947237.0	2409.1 µg/L	2409.1 ppb	06:40:52
3	Mo 202.031†	23.8	43.8	3.4233 µg/L	3.4233 ppb	06:41:15
3	Ni 231.604†	485.2	560.5	6.4539 µg/L	6.4539 ppb	06:41:15
3	P 214.914†	1841.5	1854.8	363.98 µg/L	363.98 ppb	06:41:15
3	Pb 220.353†	496.8	409.1	25.491 µg/L	25.491 ppb	06:41:15
3	S 181.975 Axial†	175.6	70.1	52.085 µg/L	52.085 ppb	06:41:15
3	Sb 206.836†	80.1	-0.9	-0.8957 µg/L	-0.8957 ppb	06:41:15
3	Se 196.026†	-39.0	-54.1	-1.51 µg/L	-1.51 ppb	06:41:15
3	SiO2†	721246.7	717632.9	70143 µg/L	70143 ppb	06:40:52
3	Si 251.611†	2214134.1	2207653.8	32547 µg/L	32547 ppb	06:40:52
3	Sn 189.927†	180.9	181.5	19.454 µg/L	19.454 ppb	06:41:15
3	Ti 334.940†	2590389.9	2582834.5	2413.1 µg/L	2413.1 ppb	06:40:52
3	Tl 190.801†	-404.6	-286.9	-4.6343 µg/L	-4.6343 ppb	06:41:15
3	U 409.014†	-5960.7	-5675.6	-326.55 µg/L	-326.55 ppb	06:40:52
3	V 292.402†	6168.8	5749.3	20.039 µg/L	20.039 ppb	06:40:54
3	Zn 213.857†	75344.9	74588.4	414.82 µg/L	414.82 ppb	06:40:54

Mean Data: 1202056819|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1741908.4	101.38 %	1.037			1.02%
Sc RADIAL	144326.8	98.9 %	1.07			1.09%
Y 371.029	1323856.1	128.94 %	1.211			0.94%
Ag 328.068†	4.9	-1.1593 µg/L	0.40665	-1.1593 ppb	0.40665	35.08%
Al 396.153Radial†	79502.6	14740 µg/L	18.3	14740 ppb	18.3	0.12%
As 188.979†	25.6	19.705 µg/L	3.4161	19.705 ppb	3.4161	17.34%
B 249.677†	715.8	10.526 µg/L	0.2749	10.526 ppb	0.2749	2.61%
Ba 233.527†	33833.5	135.68 µg/L	1.633	135.68 ppb	1.633	1.20%
Be 313.107†	23491.5	6.2943 µg/L	0.07661	6.2943 ppb	0.07661	1.22%
Ca 317.933Radial†	56321.9	3137.3 µg/L	39.27	3137.3 ppb	39.27	1.25%
Cd 226.502†	896.9	0.0285 µg/L	0.12335	0.0285 ppb	0.12335	432.54%
Co 228.616†	712.5	6.1594 µg/L	0.22835	6.1594 ppb	0.22835	3.71%
Cr 267.716†	927.6	8.7570 µg/L	0.32204	8.7570 ppb	0.32204	3.68%
Cu 324.752†	594.4	9.8053 µg/L	0.38398	9.8053 ppb	0.38398	3.92%
Fe 238.204 Radial†	860396.9	53030 µg/L	115.7	53030 ppb	115.7	0.22%
K 766.490 Radial†	14601.9	5341.2 µg/L	51.91	5341.2 ppb	51.91	0.97%
Mg 279.077 IEC†	4556.9	1652.4 µg/L	11.85	1652.4 ppb	11.85	0.72%
Mn 257.610†	1949858.8	2412.4 µg/L	4.93	2412.4 ppb	4.93	0.20%
Mo 202.031†	59.4	3.8836 µg/L	0.40332	3.8836 ppb	0.40332	10.39%
Na 589.592 Radial†	34398.4	4694.5 µg/L	58.55	4694.5 ppb	58.55	1.25%

Ni 231.604†	558.4	6.4299 µg/L	0.12642	6.4299 ppb	0.12642	1.97%
P 214.914†	1827.0	358.02 µg/L	5.574	358.02 ppb	5.574	1.56%
Pb 220.353†	408.6	25.471 µg/L	0.4352	25.471 ppb	0.4352	1.71%
S 181.975 Axial†	69.8	51.870 µg/L	2.4908	51.870 ppb	2.4908	4.80%
Sb 206.836†	-10.9	-2.0836 µg/L	1.18690	-2.0836 ppb	1.18690	56.96%
Se 196.026†	-45.0	1.81 µg/L	4.171	1.81 ppb	4.171	230.50%
SiO2†	719508.1	70326 µg/L	225.6	70326 ppb	225.6	0.32%
Si 251.611†	2213150.3	32628 µg/L	97.7	32628 ppb	97.7	0.30%
Sn 189.927†	177.5	19.205 µg/L	0.3663	19.205 ppb	0.3663	1.91%
Sr 421.552†	7614.4	15.805 µg/L	0.1984	15.805 ppb	0.1984	1.26%
Ti 334.940†	2583952.9	2414.2 µg/L	2.32	2414.2 ppb	2.32	0.10%
Tl 190.801†	-274.5	-3.0971 µg/L	1.96565	-3.0971 ppb	1.96565	63.47%
U 409.014†	-5770.4	-332.10 µg/L	5.287	-332.10 ppb	5.287	1.59%
Concentration less than lower limit for U 409.014.						
V 292.402†	5682.8	19.712 µg/L	0.2963	19.712 ppb	0.2963	1.50%
Zn 213.857†	73885.0	410.87 µg/L	4.173	410.87 ppb	4.173	1.02%

Sequence No.: 7

Sample ID: 1202056821|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 305

Date Collected: 4/1/2010 6:41:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056821|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145840.8	145840.8	99.9 %			06:41:54
1	Al 396.153Radial†	146608.3	146760.9	27188 µg/L		27188 ppb	06:41:54
1	Ca 317.933Radial†	155987.5	155522.1	8663.2 µg/L		8663.2 ppb	06:41:54
1	Fe 238.204 Radial†	950527.7	950959.4	58611 µg/L		58611 ppb	06:41:52
1	K 766.490 Radial†	38995.8	37474.9	13710 µg/L		13710 ppb	06:41:54
1	Mg 279.077 IEC†	19382.0	19203.1	7115.6 µg/L		7115.6 ppb	06:41:54
1	Na 589.592 Radial†	94741.5	93508.4	12762 µg/L		12762 ppb	06:41:54
1	Sr 421.552†	231078.9	231355.2	480.91 µg/L		480.91 ppb	06:41:52
1	Sc 361.383	1731105.9	1731105.9	100.75 %			06:42:08
1	Y 371.029	1416193.6	1416193.6	137.94 %			06:42:08
1	Ag 328.068†	126771.9	121736.7	455.32 µg/L		455.32 ppb	06:42:08
1	As 188.979†	1610.1	1618.4	508.34 µg/L		508.34 ppb	06:42:10
1	B 249.677†	35219.9	31451.8	462.24 µg/L		462.24 ppb	06:42:08
1	Ba 233.527†	148498.1	147528.4	594.19 µg/L		594.19 ppb	06:42:08
1	Be 313.107†	1789707.2	1777447.3	484.01 µg/L		484.01 ppb	06:42:08
1	Cd 226.502†	75135.8	74694.6	460.61 µg/L		460.61 ppb	06:42:08
1	Co 228.616†	38003.7	37911.0	465.32 µg/L		465.32 ppb	06:42:10
1	Cr 267.716†	60641.6	60011.6	471.27 µg/L		471.27 ppb	06:42:10
1	Cu 324.752†	130726.8	126781.3	501.83 µg/L		501.83 ppb	06:42:08
1	Mn 257.610†	2602228.6	2582617.5	3195.0 µg/L		3195.0 ppb	06:42:08
1	Mo 202.031†	15566.9	15471.1	457.29 µg/L		457.29 ppb	06:42:10
1	Ni 231.604†	41609.3	41376.0	476.41 µg/L		476.41 ppb	06:42:10
1	P 214.914†	4244.8	4231.2	864.99 µg/L		864.99 ppb	06:42:10
1	Pb 220.353†	8726.4	8575.1	483.40 µg/L		483.40 ppb	06:42:10
1	S 181.975 Axial†	6534.4	6380.7	4742.0 µg/L		4742.0 ppb	06:42:10
1	Sb 206.836†	3831.5	3722.1	442.50 µg/L		442.50 ppb	06:42:10
1	Se 196.026†	1268.2	1243.4	470 µg/L		470 ppb	06:42:10
1	SiO2†	1039693.5	1030177.5	100670 µg/L		100670 ppb	06:42:08
1	Si 251.611†	3198105.5	3173458.7	46777 µg/L		46777 ppb	06:42:08
1	Sn 189.927†	7424.8	7370.7	469.75 µg/L		469.75 ppb	06:42:10
1	Ti 334.940†	3285330.3	3259918.1	3045.1 µg/L		3045.1 ppb	06:42:08
1	Tl 190.801†	3310.0	3402.0	458.10 µg/L		458.10 ppb	06:42:10
1	U 409.014†	2325.1	2577.7	185.87 µg/L		185.87 ppb	06:42:08
1	V 292.402†	100656.3	99503.2	483.23 µg/L		483.23 ppb	06:42:08
1	Zn 213.857†	158668.1	156922.4	873.72 µg/L		873.72 ppb	06:42:08
2	Sc RADIAL	144601.1	144601.1	99.1 %			06:41:58
2	Al 396.153Radial†	145871.3	147274.8	27284 µg/L		27284 ppb	06:41:58
2	Ca 317.933Radial†	154700.4	155561.3	8665.4 µg/L		8665.4 ppb	06:41:58
2	Fe 238.204 Radial†	959540.2	968208.8	59674 µg/L		59674 ppb	06:41:56
2	K 766.490 Radial†	38897.1	37709.7	13796 µg/L		13796 ppb	06:41:58
2	Mg 279.077 IEC†	19198.3	19184.0	7107.5 µg/L		7107.5 ppb	06:41:58
2	Na 589.592 Radial†	94127.7	93701.8	12789 µg/L		12789 ppb	06:41:58
2	Sr 421.552†	233419.4	235699.5	489.94 µg/L		489.94 ppb	06:41:56
2	Sc 361.383	1749209.7	1749209.7	101.80 %			06:42:13
2	Y 371.029	1431040.2	1431040.2	139.38 %			06:42:13
2	Ag 328.068†	128236.9	121873.5	455.83 µg/L		455.83 ppb	06:42:13
2	As 188.979†	1605.7	1597.6	502.22 µg/L		502.22 ppb	06:42:15
2	B 249.677†	35830.7	31690.0	465.77 µg/L		465.77 ppb	06:42:13
2	Ba 233.527†	150821.6	148285.2	597.23 µg/L		597.23 ppb	06:42:13
2	Be 313.107†	1817022.1	1785893.2	486.32 µg/L		486.32 ppb	06:42:13
2	Cd 226.502†	76374.8	75139.8	463.28 µg/L		463.28 ppb	06:42:13
2	Co 228.616†	37894.0	37412.9	459.13 µg/L		459.13 ppb	06:42:15
2	Cr 267.716†	60736.2	59481.6	467.15 µg/L		467.15 ppb	06:42:15
2	Cu 324.752†	132193.1	126878.7	502.37 µg/L		502.37 ppb	06:42:13
2	Mn 257.610†	2635706.2	2588770.1	3202.6 µg/L		3202.6 ppb	06:42:13
2	Mo 202.031†	15539.2	15283.9	451.83 µg/L		451.83 ppb	06:42:15
2	Ni 231.604†	41446.3	40788.4	469.65 µg/L		469.65 ppb	06:42:15
2	P 214.914†	4315.2	4256.7	869.80 µg/L		869.80 ppb	06:42:15
2	Pb 220.353†	8878.0	8634.3	486.66 µg/L		486.66 ppb	06:42:15

2	S 181.975 Axial†	6486.9	6267.0	4657.5 µg/L	4657.5 ppb	06:42:15
2	Sb 206.836†	3843.1	3694.2	439.16 µg/L	439.16 ppb	06:42:15
2	Se 196.026†	1261.1	1223.5	463 µg/L	463 ppb	06:42:15
2	SiO2†	1053070.3	1032636.8	100910 µg/L	100910 ppb	06:42:13
2	Si 251.611†	3240953.7	3182694.7	46913 µg/L	46913 ppb	06:42:13
2	Sn 189.927†	7489.6	7358.1	468.99 µg/L	468.99 ppb	06:42:15
2	Ti 334.940†	3325896.7	3266016.6	3050.8 µg/L	3050.8 ppb	06:42:13
2	Tl 190.801†	3378.3	3435.1	462.27 µg/L	462.27 ppb	06:42:15
2	U 409.014†	2580.3	2804.4	198.94 µg/L	198.94 ppb	06:42:13
2	V 292.402†	101701.7	99496.0	483.01 µg/L	483.01 ppb	06:42:13
2	Zn 213.857†	160983.2	157566.5	877.28 µg/L	877.28 ppb	06:42:13
3	Sc RADIAL	143878.6	143878.6	98.6 %		06:42:02
3	Al 396.153Radial†	145202.8	147336.1	27295 µg/L	27295 ppb	06:42:02
3	Ca 317.933Radial†	153678.7	155309.1	8651.3 µg/L	8651.3 ppb	06:42:02
3	Fe 238.204 Radial†	954391.4	967849.5	59652 µg/L	59652 ppb	06:42:00
3	K 766.490 Radial†	38480.7	37484.6	13713 µg/L	13713 ppb	06:42:02
3	Mg 279.077 IEC†	18995.7	19075.8	7067.2 µg/L	7067.2 ppb	06:42:02
3	Na 589.592 Radial†	93627.1	93671.1	12784 µg/L	12784 ppb	06:42:02
3	Sr 421.552†	232486.3	235936.0	490.43 µg/L	490.43 ppb	06:42:00
3	Sc 361.383	1730921.0	1730921.0	100.74 %		06:42:19
3	Y 371.029	1416773.0	1416773.0	137.99 %		06:42:19
3	Ag 328.068†	126976.9	121953.6	456.11 µg/L	456.11 ppb	06:42:19
3	As 188.979†	1609.0	1617.5	508.25 µg/L	508.25 ppb	06:42:21
3	B 249.677†	35393.5	31627.8	464.85 µg/L	464.85 ppb	06:42:19
3	Ba 233.527†	149088.9	148130.6	596.60 µg/L	596.60 ppb	06:42:19
3	Be 313.107†	1795881.7	1783766.3	485.73 µg/L	485.73 ppb	06:42:19
3	Cd 226.502†	75148.0	74714.7	460.62 µg/L	460.62 ppb	06:42:19
3	Co 228.616†	37533.6	37448.5	459.57 µg/L	459.57 ppb	06:42:21
3	Cr 267.716†	59994.1	59375.3	466.32 µg/L	466.32 ppb	06:42:21
3	Cu 324.752†	130993.9	127060.3	503.06 µg/L	503.06 ppb	06:42:19
3	Mn 257.610†	2609778.8	2590388.1	3204.6 µg/L	3204.6 ppb	06:42:19
3	Mo 202.031†	15371.9	15279.2	451.69 µg/L	451.69 ppb	06:42:21
3	Ni 231.604†	41105.8	40880.6	470.71 µg/L	470.71 ppb	06:42:21
3	P 214.914†	4173.0	4160.3	849.20 µg/L	849.20 ppb	06:42:21
3	Pb 220.353†	8735.0	8584.5	483.90 µg/L	483.90 ppb	06:42:21
3	S 181.975 Axial†	6365.9	6214.1	4618.2 µg/L	4618.2 ppb	06:42:21
3	Sb 206.836†	3816.4	3707.6	440.76 µg/L	440.76 ppb	06:42:21
3	Se 196.026†	1258.4	1233.9	467 µg/L	467 ppb	06:42:21
3	SiO2†	1042287.0	1032862.2	100930 µg/L	100930 ppb	06:42:19
3	Si 251.611†	3206852.0	3182480.1	46910 µg/L	46910 ppb	06:42:19
3	Sn 189.927†	7412.6	7359.4	469.08 µg/L	469.08 ppb	06:42:21
3	Ti 334.940†	3294107.3	3268979.0	3053.5 µg/L	3053.5 ppb	06:42:19
3	Tl 190.801†	3425.0	3516.5	472.30 µg/L	472.30 ppb	06:42:21
3	U 409.014†	2377.7	2630.1	188.74 µg/L	188.74 ppb	06:42:19
3	V 292.402†	100548.0	99406.3	482.56 µg/L	482.56 ppb	06:42:19
3	Zn 213.857†	159358.3	157624.3	877.60 µg/L	877.60 ppb	06:42:19

Mean Data: 1202056821|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1737078.9	101.10 %	0.611			0.60%
Sc RADIAL	144773.5	99.2 %	0.68			0.69%
Y 371.029	1421335.6	138.44 %	0.819			0.59%
Ag 328.068†	121854.6	455.76 µg/L	0.402	455.76 ppb	0.402	0.09%
Al 396.153Radial†	147123.9	27256 µg/L	58.7	27256 ppb	58.7	0.22%
As 188.979†	1611.2	506.27 µg/L	3.506	506.27 ppb	3.506	0.69%
B 249.677†	31589.9	464.29 µg/L	1.834	464.29 ppb	1.834	0.40%
Ba 233.527†	147981.4	596.01 µg/L	1.603	596.01 ppb	1.603	0.27%
Be 313.107†	1782368.9	485.35 µg/L	1.198	485.35 ppb	1.198	0.25%
Ca 317.933Radial†	155464.1	8660.0 µg/L	7.56	8660.0 ppb	7.56	0.09%
Cd 226.502†	74849.7	461.50 µg/L	1.535	461.50 ppb	1.535	0.33%
Co 228.616†	37590.8	461.34 µg/L	3.459	461.34 ppb	3.459	0.75%
Cr 267.716†	59622.8	468.25 µg/L	2.653	468.25 ppb	2.653	0.57%
Cu 324.752†	126906.8	502.42 µg/L	0.618	502.42 ppb	0.618	0.12%
Fe 238.204 Radial†	962339.2	59313 µg/L	607.5	59313 ppb	607.5	1.02%
K 766.490 Radial†	37556.4	13740 µg/L	48.6	13740 ppb	48.6	0.35%
Mg 279.077 IEC†	19154.3	7096.8 µg/L	25.93	7096.8 ppb	25.93	0.37%
Mn 257.610†	2587258.6	3200.8 µg/L	5.07	3200.8 ppb	5.07	0.16%
Mo 202.031†	15344.7	453.60 µg/L	3.193	453.60 ppb	3.193	0.70%
Na 589.592 Radial†	93627.1	12778 µg/L	14.2	12778 ppb	14.2	0.11%

Ni 231.604†	41015.0	472.26 µg/L	3.639	472.26 ppb	3.639	0.77%
P 214.914†	4216.1	861.33 µg/L	10.780	861.33 ppb	10.780	1.25%
Pb 220.353†	8597.9	484.66 µg/L	1.757	484.66 ppb	1.757	0.36%
S 181.975 Axial†	6287.3	4672.6 µg/L	63.26	4672.6 ppb	63.26	1.35%
Sb 206.836†	3708.0	440.81 µg/L	1.673	440.81 ppb	1.673	0.38%
Se 196.026†	1233.6	467 µg/L	3.4	467 ppb	3.4	0.73%
SiO2†	1031892.2	100840 µg/L	145.7	100840 ppb	145.7	0.14%
Si 251.611†	3179544.5	46867 µg/L	77.8	46867 ppb	77.8	0.17%
Sn 189.927†	7362.7	469.27 µg/L	0.418	469.27 ppb	0.418	0.09%
Sr 421.552†	234330.2	487.09 µg/L	5.362	487.09 ppb	5.362	1.10%
Ti 334.940†	3264971.2	3049.8 µg/L	4.32	3049.8 ppb	4.32	0.14%
Tl 190.801†	3451.2	464.22 µg/L	7.300	464.22 ppb	7.300	1.57%
U 409.014†	2670.7	191.19 µg/L	6.869	191.19 ppb	6.869	3.59%
V 292.402†	99468.5	482.93 µg/L	0.341	482.93 ppb	0.341	0.07%
Zn 213.857†	157371.1	876.20 µg/L	2.151	876.20 ppb	2.151	0.25%

Sequence No.: 8

Sample ID: 1202056822|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 306

Date Collected: 4/1/2010 6:42:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202056822|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc RADIAL	143477.1	143477.1	98.3	%		06:43:01
1	Al 396.153Radial†	141267.8	143745.9	26629	µg/L	26629 ppb	06:43:01
1	Ca 317.933Radial†	151050.7	153072.2	8526.7	µg/L	8526.7 ppb	06:43:01
1	Fe 238.204 Radial†	942278.6	958238.0	59060	µg/L	59060 ppb	06:42:59
1	K 766.490 Radial†	38422.3	37534.4	13732	µg/L	13732 ppb	06:43:01
1	Mg 279.077 IEC†	18249.4	18370.6	6805.0	µg/L	6805.0 ppb	06:43:01
1	Na 589.592 Radial†	92564.8	92856.3	12673	µg/L	12673 ppb	06:43:01
1	Sr 421.552†	232616.7	236728.4	492.08	µg/L	492.08 ppb	06:42:59
1	Sc 361.383	1728114.1	1728114.1	100.58	%		06:43:14
1	Y 371.029	1416334.4	1416334.4	137.95	%		06:43:14
1	Ag 328.068†	126733.3	121916.1	455.95	µg/L	455.95 ppb	06:43:14
1	As 188.979†	1572.6	1583.9	497.96	µg/L	497.96 ppb	06:43:16
1	B 249.677†	35470.9	31761.8	466.83	µg/L	466.83 ppb	06:43:14
1	Ba 233.527†	151871.9	151138.1	608.73	µg/L	608.73 ppb	06:43:14
1	Be 313.107†	1792691.2	1783489.7	485.64	µg/L	485.64 ppb	06:43:14
1	Cd 226.502†	75211.9	74899.4	461.84	µg/L	461.84 ppb	06:43:14
1	Co 228.616†	37507.9	37483.4	460.04	µg/L	460.04 ppb	06:43:16
1	Cr 267.716†	59991.1	59469.0	467.11	µg/L	467.11 ppb	06:43:16
1	Cu 324.752†	130863.1	127141.4	503.24	µg/L	503.24 ppb	06:43:14
1	Mn 257.610†	2501927.5	2487362.3	3077.2	µg/L	3077.2 ppb	06:43:14
1	Mo 202.031†	15479.2	15410.6	455.52	µg/L	455.52 ppb	06:43:16
1	Ni 231.604†	41163.7	41004.5	472.14	µg/L	472.14 ppb	06:43:16
1	P 214.914†	4779.5	4770.1	979.87	µg/L	979.87 ppb	06:43:16
1	Pb 220.353†	8727.2	8590.8	484.17	µg/L	484.17 ppb	06:43:16
1	S 181.975 Axial†	6381.3	6239.7	4637.3	µg/L	4637.3 ppb	06:43:16
1	Sb 206.836†	3757.1	3654.8	434.54	µg/L	434.54 ppb	06:43:16
1	Se 196.026†	1203.0	1180.8	447	µg/L	447 ppb	06:43:16
1	SiO2†	1026702.4	1019047.4	99584	µg/L	99584 ppb	06:43:14
1	Si 251.611†	3140231.6	3121411.8	46009	µg/L	46009 ppb	06:43:14
1	Sn 189.927†	7483.8	7442.1	473.97	µg/L	473.97 ppb	06:43:16
1	Ti 334.940†	3203311.8	3184014.7	2974.2	µg/L	2974.2 ppb	06:43:14
1	Tl 190.801†	3313.1	3410.8	458.18	µg/L	458.18 ppb	06:43:16
1	U 409.014†	1530.2	1791.4	138.99	µg/L	138.99 ppb	06:43:14
1	V 292.402†	100343.4	99365.0	482.50	µg/L	482.50 ppb	06:43:14
1	Zn 213.857†	157802.6	156334.5	870.36	µg/L	870.36 ppb	06:43:14
2	Sc RADIAL	144135.1	144135.1	98.8	%		06:43:05
2	Al 396.153Radial†	142297.0	144132.0	26701	µg/L	26701 ppb	06:43:05
2	Ca 317.933Radial†	152062.5	153395.3	8544.7	µg/L	8544.7 ppb	06:43:05
2	Fe 238.204 Radial†	950871.3	962562.8	59326	µg/L	59326 ppb	06:43:03
2	K 766.490 Radial†	38795.5	37733.8	13805	µg/L	13805 ppb	06:43:05
2	Mg 279.077 IEC†	18389.9	18428.2	6826.1	µg/L	6826.1 ppb	06:43:05
2	Na 589.592 Radial†	93302.9	93173.9	12716	µg/L	12716 ppb	06:43:05
2	Sr 421.552†	234701.5	237759.2	494.22	µg/L	494.22 ppb	06:43:03
2	Sc 361.383	1720506.6	1720506.6	100.13	%		06:43:19
2	Y 371.029	1410702.4	1410702.4	137.40	%		06:43:19
2	Ag 328.068†	126738.5	122478.5	458.04	µg/L	458.04 ppb	06:43:19
2	As 188.979†	1537.5	1555.8	489.45	µg/L	489.45 ppb	06:43:21
2	B 249.677†	35187.0	31634.3	464.97	µg/L	464.97 ppb	06:43:19
2	Ba 233.527†	151412.6	151347.0	609.57	µg/L	609.57 ppb	06:43:19
2	Be 313.107†	1782154.1	1780847.8	484.92	µg/L	484.92 ppb	06:43:19
2	Cd 226.502†	74791.2	74809.9	461.25	µg/L	461.25 ppb	06:43:19
2	Co 228.616†	36684.8	36826.3	451.92	µg/L	451.92 ppb	06:43:21
2	Cr 267.716†	59067.0	58809.9	461.96	µg/L	461.96 ppb	06:43:21
2	Cu 324.752†	130324.9	127179.3	503.42	µg/L	503.42 ppb	06:43:19
2	Mn 257.610†	2489422.1	2485872.9	3075.3	µg/L	3075.3 ppb	06:43:19
2	Mo 202.031†	15177.0	15176.9	448.66	µg/L	448.66 ppb	06:43:21
2	Ni 231.604†	40287.7	40310.6	464.15	µg/L	464.15 ppb	06:43:21
2	P 214.914†	4609.4	4621.2	947.85	µg/L	947.85 ppb	06:43:21
2	Pb 220.353†	8521.7	8424.0	474.84	µg/L	474.84 ppb	06:43:21

2	S 181.975 Axial†	6235.4	6122.1	4549.9 µg/L	4549.9 ppb	06:43:21
2	Sb 206.836†	3711.7	3626.0	431.08 µg/L	431.08 ppb	06:43:21
2	Se 196.026†	1187.7	1170.9	444 µg/L	444 ppb	06:43:21
2	SiO2†	1021793.4	1018658.6	99546 µg/L	99546 ppb	06:43:19
2	Si 251.611†	3127871.7	3122873.8	46031 µg/L	46031 ppb	06:43:19
2	Sn 189.927†	7284.4	7275.8	463.60 µg/L	463.60 ppb	06:43:21
2	Ti 334.940†	3187629.6	3182436.3	2972.7 µg/L	2972.7 ppb	06:43:19
2	Tl 190.801†	3303.9	3416.2	458.87 µg/L	458.87 ppb	06:43:21
2	U 409.014†	1442.0	1709.9	134.21 µg/L	134.21 ppb	06:43:19
2	V 292.402†	100057.8	99520.9	483.14 µg/L	483.14 ppb	06:43:19
2	Zn 213.857†	157208.6	156435.0	870.95 µg/L	870.95 ppb	06:43:19
3	Sc RADIAL	145383.5	145383.5	99.6 %		06:43:09
3	Al 396.153Radial†	143729.1	144332.4	26738 µg/L	26738 ppb	06:43:09
3	Ca 317.933Radial†	154034.6	154052.7	8581.3 µg/L	8581.3 ppb	06:43:09
3	Fe 238.204 Radial†	942588.8	945982.1	58305 µg/L	58305 ppb	06:43:07
3	K 766.490 Radial†	39164.7	37767.0	13817 µg/L	13817 ppb	06:43:09
3	Mg 279.077 IEC†	18588.3	18467.4	6841.7 µg/L	6841.7 ppb	06:43:09
3	Na 589.592 Radial†	94411.5	93475.4	12758 µg/L	12758 ppb	06:43:09
3	Sr 421.552†	233020.1	234030.9	486.47 µg/L	486.47 ppb	06:43:07
3	Sc 361.383	1732848.5	1732848.5	100.85 %		06:43:24
3	Y 371.029	1420164.1	1420164.1	138.32 %		06:43:24
3	Ag 328.068†	127265.9	122100.0	456.63 µg/L	456.63 ppb	06:43:24
3	As 188.979†	1569.1	1576.2	495.45 µg/L	495.45 ppb	06:43:26
3	B 249.677†	35555.7	31749.6	466.65 µg/L	466.65 ppb	06:43:24
3	Ba 233.527†	152249.0	151099.4	608.59 µg/L	608.59 ppb	06:43:24
3	Be 313.107†	1797242.0	1783132.2	485.54 µg/L	485.54 ppb	06:43:24
3	Cd 226.502†	75358.1	74840.0	461.55 µg/L	461.55 ppb	06:43:24
3	Co 228.616†	37461.1	37335.1	458.25 µg/L	458.25 ppb	06:43:26
3	Cr 267.716†	60125.9	59439.7	466.86 µg/L	466.86 ppb	06:43:26
3	Cu 324.752†	131101.1	127022.0	502.65 µg/L	502.65 ppb	06:43:24
3	Mn 257.610†	2508029.6	2486616.5	3076.3 µg/L	3076.3 ppb	06:43:24
3	Mo 202.031†	15423.0	15312.9	452.62 µg/L	452.62 ppb	06:43:26
3	Ni 231.604†	41138.8	40868.0	470.56 µg/L	470.56 ppb	06:43:26
3	P 214.914†	4734.0	4712.0	967.98 µg/L	967.98 ppb	06:43:26
3	Pb 220.353†	8690.6	8530.8	480.86 µg/L	480.86 ppb	06:43:26
3	S 181.975 Axial†	6467.8	6308.2	4688.1 µg/L	4688.1 ppb	06:43:26
3	Sb 206.836†	3796.8	3683.9	437.97 µg/L	437.97 ppb	06:43:26
3	Se 196.026†	1225.3	1199.6	454 µg/L	454 ppb	06:43:26
3	SiO2†	1029259.7	1018794.1	99559 µg/L	99559 ppb	06:43:24
3	Si 251.611†	3149389.2	3121961.5	46018 µg/L	46018 ppb	06:43:24
3	Sn 189.927†	7432.1	7370.5	469.50 µg/L	469.50 ppb	06:43:26
3	Ti 334.940†	3212355.5	3184280.2	2974.4 µg/L	2974.4 ppb	06:43:24
3	Tl 190.801†	3318.4	3407.1	457.74 µg/L	457.74 ppb	06:43:26
3	U 409.014†	1276.1	1535.2	124.22 µg/L	124.22 ppb	06:43:24
3	V 292.402†	100741.7	99487.3	483.14 µg/L	483.14 ppb	06:43:24
3	Zn 213.857†	158303.1	156402.1	870.83 µg/L	870.83 ppb	06:43:24

Mean Data: 1202056822|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1727156.4	100.52 %	0.362			0.36%
Sc RADIAL	144331.9	98.9 %	0.66			0.67%
Y 371.029	1415733.6	137.89 %	0.464			0.34%
Ag 328.068†	122164.9	456.87 µg/L	1.063	456.87 ppb	1.063	0.23%
Al 396.153Radial†	144070.1	26690 µg/L	55.4	26690 ppb	55.4	0.21%
As 188.979†	1572.0	494.29 µg/L	4.376	494.29 ppb	4.376	0.89%
B 249.677†	31715.3	466.15 µg/L	1.023	466.15 ppb	1.023	0.22%
Ba 233.527†	151194.8	608.96 µg/L	0.531	608.96 ppb	0.531	0.09%
Be 313.107†	1782489.9	485.37 µg/L	0.390	485.37 ppb	0.390	0.08%
Ca 317.933Radial†	153506.8	8550.9 µg/L	27.83	8550.9 ppb	27.83	0.33%
Cd 226.502†	74849.8	461.55 µg/L	0.295	461.55 ppb	0.295	0.06%
Co 228.616†	37214.9	456.74 µg/L	4.266	456.74 ppb	4.266	0.93%
Cr 267.716†	59239.5	465.31 µg/L	2.905	465.31 ppb	2.905	0.62%
Cu 324.752†	127114.2	503.10 µg/L	0.400	503.10 ppb	0.400	0.08%
Fe 238.204 Radial†	955594.3	58897 µg/L	530.1	58897 ppb	530.1	0.90%
K 766.490 Radial†	37678.4	13784 µg/L	46.0	13784 ppb	46.0	0.33%
Mg 279.077 IEC†	18422.1	6824.3 µg/L	18.39	6824.3 ppb	18.39	0.27%
Mn 257.610†	2486617.2	3076.3 µg/L	0.92	3076.3 ppb	0.92	0.03%
Mo 202.031†	15300.1	452.27 µg/L	3.442	452.27 ppb	3.442	0.76%
Na 589.592 Radial†	93168.5	12716 µg/L	42.3	12716 ppb	42.3	0.33%

Ni 231.604†	40727.7	468.95 µg/L	4.233	468.95 ppb	4.233	0.90%
P 214.914†	4701.1	965.24 µg/L	16.185	965.24 ppb	16.185	1.68%
Pb 220.353†	8515.2	479.95 µg/L	4.731	479.95 ppb	4.731	0.99%
S 181.975 Axial†	6223.3	4625.1 µg/L	69.91	4625.1 ppb	69.91	1.51%
Sb 206.836†	3654.9	434.53 µg/L	3.448	434.53 ppb	3.448	0.79%
Se 196.026†	1183.8	449 µg/L	5.1	449 ppb	5.1	1.14%
SiO2†	1018833.4	99563 µg/L	19.1	99563 ppb	19.1	0.02%
Si 251.611†	3122082.4	46019 µg/L	11.0	46019 ppb	11.0	0.02%
Sn 189.927†	7362.8	469.02 µg/L	5.201	469.02 ppb	5.201	1.11%
Sr 421.552†	236172.8	490.92 µg/L	4.003	490.92 ppb	4.003	0.82%
Ti 334.940†	3183577.1	2973.8 µg/L	0.93	2973.8 ppb	0.93	0.03%
Tl 190.801†	3411.3	458.26 µg/L	0.572	458.26 ppb	0.572	0.12%
U 409.014†	1678.9	132.47 µg/L	7.538	132.47 ppb	7.538	5.69%
V 292.402†	99457.7	482.93 µg/L	0.367	482.93 ppb	0.367	0.08%
Zn 213.857†	156390.5	870.71 µg/L	0.312	870.71 ppb	0.312	0.04%

Sequence No.: 9
 Sample ID: 1202056820|959093|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 307
 Date Collected: 4/1/2010 6:43:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202056820|959093|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148248.5	148248.5	102 %		06:44:03
1	Al 396.153Radial†	17363.8	17155.4	3180.6 µg/L	3180.6 ppb	06:44:05
1	Ca 317.933Radial†	14814.2	14021.9	781.07 µg/L	781.07 ppb	06:44:05
1	Fe 238.204 Radial†	238367.0	234490.6	14453 µg/L	14453 ppb	06:44:03
1	K 766.490 Radial†	4860.4	3239.6	1185.0 µg/L	1185.0 ppb	06:44:03
1	Mg 279.077 IEC†	1358.2	1146.2	414.69 µg/L	414.69 ppb	06:44:05
1	Na 589.592 Radial†	9341.2	7904.3	1078.8 µg/L	1078.8 ppb	06:44:03
1	Sr 421.552†	2395.1	2492.9	5.1766 µg/L	5.1766 ppb	06:44:05
1	Sc 361.383	1765400.6	1765400.6	102.75 %		06:44:31
1	Y 371.029	1109096.9	1109096.9	108.03 %		06:44:31
1	Ag 328.068†	3859.0	-335.6	-1.5832 µg/L	-1.5832 ppb	06:44:33
1	As 188.979†	-17.3	3.5	4.3186 µg/L	4.3186 ppb	06:44:53
1	B 249.677†	3656.6	53.0	0.7718 µg/L	0.7718 ppb	06:44:33
1	Ba 233.527†	9440.5	9324.1	37.392 µg/L	37.392 ppb	06:44:33
1	Be 313.107†	5507.9	6425.4	1.7274 µg/L	1.7274 ppb	06:44:33
1	Cd 226.502†	154.4	268.5	0.1580 µg/L	0.1580 ppb	06:44:53
1	Co 228.616†	29.0	218.6	1.9802 µg/L	1.9802 ppb	06:44:53
1	Cr 267.716†	539.5	346.5	3.0687 µg/L	3.0687 ppb	06:44:53
1	Cu 324.752†	3206.0	148.1	2.6332 µg/L	2.6332 ppb	06:44:33
1	Mn 257.610†	671108.2	652934.5	807.82 µg/L	807.82 ppb	06:44:31
1	Mo 202.031†	-6.9	13.4	0.9758 µg/L	0.9758 ppb	06:44:53
1	Ni 231.604†	61.1	136.0	1.5658 µg/L	1.5658 ppb	06:44:53
1	P 214.914†	427.1	433.7	83.642 µg/L	83.642 ppb	06:44:53
1	Pb 220.353†	190.6	99.1	6.1245 µg/L	6.1245 ppb	06:44:53
1	S 181.975 Axial†	116.1	8.0	5.9197 µg/L	5.9197 ppb	06:44:53
1	Sb 206.836†	69.9	-12.8	-1.7428 µg/L	-1.7428 ppb	06:44:53
1	Se 196.026†	3.0	-12.3	0.488 µg/L	0.488 ppb	06:44:53
1	SiO2†	153028.0	147162.7	14384 µg/L	14384 ppb	06:44:33
1	Si 251.611†	462766.4	449561.7	6627.8 µg/L	6627.8 ppb	06:44:31
1	Sn 189.927†	41.0	41.0	4.6044 µg/L	4.6044 ppb	06:44:53
1	Ti 334.940†	668215.9	649404.3	606.73 µg/L	606.73 ppb	06:44:31
1	Tl 190.801†	-181.9	-60.4	0.7957 µg/L	0.7957 ppb	06:44:53
1	U 409.014†	-1559.8	-1248.2	-70.583 µg/L	-70.583 ppb	06:44:33
1	V 292.402†	1955.8	1499.7	5.1953 µg/L	5.1953 ppb	06:44:33
1	Zn 213.857†	20916.8	19793.4	110.00 µg/L	110.00 ppb	06:44:33
2	Sc RADIAL	145721.6	145721.6	99.9 %		06:44:07
2	Al 396.153Radial†	17237.8	17325.6	3212.2 µg/L	3212.2 ppb	06:44:09
2	Ca 317.933Radial†	14650.5	14110.9	786.03 µg/L	786.03 ppb	06:44:09
2	Fe 238.204 Radial†	233765.7	233951.5	14419 µg/L	14419 ppb	06:44:07
2	K 766.490 Radial†	4625.4	3087.2	1129.2 µg/L	1129.2 ppb	06:44:07
2	Mg 279.077 IEC†	1372.0	1183.2	428.48 µg/L	428.48 ppb	06:44:09
2	Na 589.592 Radial†	9239.5	7961.9	1086.7 µg/L	1086.7 ppb	06:44:07
2	Sr 421.552†	2337.6	2476.2	5.1418 µg/L	5.1418 ppb	06:44:09
2	Sc 361.383	1760650.3	1760650.3	102.47 %		06:44:56
2	Y 371.029	1105893.4	1105893.4	107.71 %		06:44:56
2	Ag 328.068†	4258.6	64.6	-0.0873 µg/L	-0.0873 ppb	06:44:58
2	As 188.979†	-6.0	14.5	7.6557 µg/L	7.6557 ppb	06:45:18
2	B 249.677†	3544.3	-47.0	-0.7019 µg/L	-0.7019 ppb	06:44:58
2	Ba 233.527†	9258.2	9171.0	36.776 µg/L	36.776 ppb	06:44:58
2	Be 313.107†	5330.5	6266.7	1.6880 µg/L	1.6880 ppb	06:44:58
2	Cd 226.502†	150.5	265.1	0.1402 µg/L	0.1402 ppb	06:45:18
2	Co 228.616†	12.8	202.8	1.7863 µg/L	1.7863 ppb	06:45:18
2	Cr 267.716†	508.5	317.7	2.8308 µg/L	2.8308 ppb	06:45:18
2	Cu 324.752†	3149.0	100.9	2.4555 µg/L	2.4555 ppb	06:44:58
2	Mn 257.610†	673456.0	656988.0	812.84 µg/L	812.84 ppb	06:44:56
2	Mo 202.031†	-18.8	1.7	0.6312 µg/L	0.6312 ppb	06:45:18
2	Ni 231.604†	71.0	145.8	1.6783 µg/L	1.6783 ppb	06:45:18
2	P 214.914†	440.9	448.2	86.788 µg/L	86.788 ppb	06:45:18
2	Pb 220.353†	197.4	106.2	6.5173 µg/L	6.5173 ppb	06:45:18

2	S 181.975 Axial†	123.6	15.5	11.525 µg/L	11.525 ppb	06:45:18
2	Sb 206.836†	91.2	8.2	0.7500 µg/L	0.7500 ppb	06:45:18
2	Se 196.026†	-3.5	-18.7	-1.81 µg/L	-1.81 ppb	06:45:18
2	SiO2†	151439.6	146014.4	14272 µg/L	14272 ppb	06:44:58
2	Si 251.611†	464658.0	452622.9	6672.9 µg/L	6672.9 ppb	06:44:56
2	Sn 189.927†	37.8	38.0	4.4232 µg/L	4.4232 ppb	06:45:18
2	Ti 334.940†	669647.7	652556.3	609.67 µg/L	609.67 ppb	06:44:56
2	Tl 190.801†	-187.6	-66.4	0.1001 µg/L	0.1001 ppb	06:45:18
2	U 409.014†	-1338.5	-1036.4	-58.153 µg/L	-58.153 ppb	06:44:58
2	V 292.402†	1957.7	1506.7	5.2342 µg/L	5.2342 ppb	06:44:58
2	Zn 213.857†	20679.0	19616.2	109.01 µg/L	109.01 ppb	06:44:58
3	Sc RADIAL	145972.9	145972.9	100 %		06:44:11
3	Al 396.153Radial†	17017.6	17075.8	3165.9 µg/L	3165.9 ppb	06:44:13
3	Ca 317.933Radial†	14506.3	13941.4	776.59 µg/L	776.59 ppb	06:44:13
3	Fe 238.204 Radial†	234510.2	234292.8	14440 µg/L	14440 ppb	06:44:11
3	K 766.490 Radial†	4744.4	3198.3	1169.9 µg/L	1169.9 ppb	06:44:11
3	Mg 279.077 IEC†	1337.1	1146.0	414.58 µg/L	414.58 ppb	06:44:13
3	Na 589.592 Radial†	9354.3	8060.7	1100.2 µg/L	1100.2 ppb	06:44:11
3	Sr 421.552†	2261.5	2396.1	4.9754 µg/L	4.9754 ppb	06:44:13
3	Sc 361.383	1757605.0	1757605.0	102.29 %		06:45:20
3	Y 371.029	1104973.5	1104973.5	107.62 %		06:45:20
3	Ag 328.068†	4172.2	-12.7	-0.3843 µg/L	-0.3843 ppb	06:45:22
3	As 188.979†	-8.2	12.3	6.9791 µg/L	6.9791 ppb	06:45:42
3	B 249.677†	3660.5	72.6	1.0620 µg/L	1.0620 ppb	06:45:22
3	Ba 233.527†	9462.5	9386.3	37.643 µg/L	37.643 ppb	06:45:22
3	Be 313.107†	5163.4	6112.4	1.6432 µg/L	1.6432 ppb	06:45:22
3	Cd 226.502†	159.7	274.3	0.1953 µg/L	0.1953 ppb	06:45:42
3	Co 228.616†	2.4	192.6	1.6610 µg/L	1.6610 ppb	06:45:42
3	Cr 267.716†	437.6	249.2	2.3035 µg/L	2.3035 ppb	06:45:42
3	Cu 324.752†	3163.5	120.4	2.5262 µg/L	2.5262 ppb	06:45:22
3	Mn 257.610†	668910.9	653683.5	808.75 µg/L	808.75 ppb	06:45:20
3	Mo 202.031†	-34.4	-13.5	0.1838 µg/L	0.1838 ppb	06:45:42
3	Ni 231.604†	49.9	125.3	1.4430 µg/L	1.4430 ppb	06:45:42
3	P 214.914†	454.6	462.4	89.793 µg/L	89.793 ppb	06:45:42
3	Pb 220.353†	217.0	125.8	7.6077 µg/L	7.6077 ppb	06:45:42
3	S 181.975 Axial†	126.2	18.3	13.591 µg/L	13.591 ppb	06:45:42
3	Sb 206.836†	72.2	-10.2	-1.4391 µg/L	-1.4391 ppb	06:45:42
3	Se 196.026†	5.6	-9.8	1.39 µg/L	1.39 ppb	06:45:42
3	SiO2†	152811.5	147611.6	14428 µg/L	14428 ppb	06:45:22
3	Si 251.611†	461065.1	449896.2	6632.8 µg/L	6632.8 ppb	06:45:20
3	Sn 189.927†	21.4	22.0	3.4235 µg/L	3.4235 ppb	06:45:42
3	Ti 334.940†	666839.5	650943.3	608.17 µg/L	608.17 ppb	06:45:20
3	Tl 190.801†	-191.8	-70.9	-0.4694 µg/L	-0.4694 ppb	06:45:42
3	U 409.014†	-1496.7	-1193.3	-67.364 µg/L	-67.364 ppb	06:45:22
3	V 292.402†	1937.8	1490.6	5.1414 µg/L	5.1414 ppb	06:45:22
3	Zn 213.857†	20846.5	19814.9	110.12 µg/L	110.12 ppb	06:45:22

Mean Data: 1202056820|959093|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1761218.6	102.50 %	0.229			0.22%
Sc RADIAL	146647.7	100 %	1.0			0.95%
Y 371.029	1106654.6	107.79 %	0.211			0.20%
Ag 328.068†	-94.6	-0.6849 µg/L	0.79195	-0.6849 ppb	0.79195	115.63%
Al 396.153Radial†	17185.6	3186.2 µg/L	23.65	3186.2 ppb	23.65	0.74%
As 188.979†	10.1	6.3178 µg/L	1.76412	6.3178 ppb	1.76412	27.92%
B 249.677†	26.2	0.3773 µg/L	0.94583	0.3773 ppb	0.94583	250.67%
Ba 233.527†	9293.8	37.270 µg/L	0.4464	37.270 ppb	0.4464	1.20%
Be 313.107†	6268.1	1.6862 µg/L	0.04215	1.6862 ppb	0.04215	2.50%
Ca 317.933Radial†	14024.7	781.23 µg/L	4.722	781.23 ppb	4.722	0.60%
Cd 226.502†	269.3	0.1645 µg/L	0.02813	0.1645 ppb	0.02813	17.10%
Co 228.616†	204.7	1.8092 µg/L	0.16084	1.8092 ppb	0.16084	8.89%
Cr 267.716†	304.5	2.7343 µg/L	0.39163	2.7343 ppb	0.39163	14.32%
Cu 324.752†	123.1	2.5383 µg/L	0.08948	2.5383 ppb	0.08948	3.53%
Fe 238.204 Radial†	234245.0	14437 µg/L	16.8	14437 ppb	16.8	0.12%
K 766.490 Radial†	3175.0	1161.4 µg/L	28.85	1161.4 ppb	28.85	2.48%
Mg 279.077 IEC†	1158.5	419.25 µg/L	7.994	419.25 ppb	7.994	1.91%
Mn 257.610†	654535.4	809.80 µg/L	2.668	809.80 ppb	2.668	0.33%
Mo 202.031†	0.5	0.5969 µg/L	0.39708	0.5969 ppb	0.39708	66.52%
Na 589.592 Radial†	7975.6	1088.5 µg/L	10.81	1088.5 ppb	10.81	0.99%

Ni 231.604†	135.7	1.5624 µg/L	0.11770	1.5624 ppb	0.11770	7.53%
P 214.914†	448.1	86.741 µg/L	3.0758	86.741 ppb	3.0758	3.55%
Pb 220.353†	110.4	6.7498 µg/L	0.76844	6.7498 ppb	0.76844	11.38%
S 181.975 Axial†	13.9	10.345 µg/L	3.9694	10.345 ppb	3.9694	38.37%
Sb 206.836†	-4.9	-0.8107 µg/L	1.36005	-0.8107 ppb	1.36005	167.77%
Se 196.026†	-13.6	0.021 µg/L	1.6510	0.021 ppb	1.6510	>999.9%
SiO2†	146929.6	14361 µg/L	80.5	14361 ppb	80.5	0.56%
Si 251.611†	450693.6	6644.5 µg/L	24.76	6644.5 ppb	24.76	0.37%
Sn 189.927†	33.7	4.1503 µg/L	0.63596	4.1503 ppb	0.63596	15.32%
Sr 421.552†	2455.1	5.0979 µg/L	0.10754	5.0979 ppb	0.10754	2.11%
Ti 334.940†	650968.0	608.19 µg/L	1.470	608.19 ppb	1.470	0.24%
Tl 190.801†	-65.9	0.1421 µg/L	0.63363	0.1421 ppb	0.63363	445.78%
U 409.014†	-1159.3	-65.367 µg/L	6.4513	-65.367 ppb	6.4513	9.87%
Concentration less than lower limit for U 409.014.						
V 292.402†	1499.0	5.1903 µg/L	0.04657	5.1903 ppb	0.04657	0.90%
Zn 213.857†	19741.5	109.71 µg/L	0.611	109.71 ppb	0.611	0.56%

Sequence No.: 10

Sample ID: 248000002|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 308

Date Collected: 4/1/2010 6:45:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248000002|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145986.1	145986.1	100 %		06:46:20
1	Al 396.153Radial†	67157.8	67195.1	12458 µg/L	12458 ppb	06:46:22
1	Ca 317.933Radial†	61578.4	60994.0	3397.6 µg/L	3397.6 ppb	06:46:22
1	Fe 238.204 Radial†	1008519.3	1007982.0	62126 µg/L	62126 ppb	06:46:20
1	K 766.490 Radial†	18274.7	16722.9	6118.0 µg/L	6118.0 ppb	06:46:22
1	Mg 279.077 IEC†	4011.0	3818.7	1369.6 µg/L	1369.6 ppb	06:46:22
1	Na 589.592 Radial†	43664.2	42356.6	5781.0 µg/L	5781.0 ppb	06:46:20
1	Sr 421.552†	6621.7	6754.5	14.016 µg/L	14.016 ppb	06:46:22
1	Sc 361.383	1760218.3	1760218.3	102.44 %		06:46:48
1	Y 371.029	1392008.7	1392008.7	135.58 %		06:46:48
1	Ag 328.068†	4239.0	46.5	-1.2303 µg/L	-1.2303 ppb	06:46:50
1	As 188.979†	3.5	23.7	22.556 µg/L	22.556 ppb	06:47:10
1	B 249.677†	3796.5	200.0	2.9150 µg/L	2.9150 ppb	06:46:50
1	Ba 233.527†	30895.9	30294.5	121.30 µg/L	121.30 ppb	06:46:50
1	Be 313.107†	22551.8	23078.4	6.1690 µg/L	6.1690 ppb	06:46:50
1	Cd 226.502†	963.6	1058.8	0.1175 µg/L	0.1175 ppb	06:47:10
1	Co 228.616†	628.8	804.1	6.8276 µg/L	6.8276 ppb	06:47:10
1	Cr 267.716†	19889.2	19236.1	152.40 µg/L	152.40 ppb	06:46:50
1	Cu 324.752†	3629.8	571.0	10.997 µg/L	10.997 ppb	06:46:50
1	Mn 257.610†	2340500.0	2284416.0	2826.3 µg/L	2826.3 ppb	06:46:48
1	Mo 202.031†	87.9	105.9	5.6028 µg/L	5.6028 ppb	06:47:10
1	Ni 231.604†	6822.5	6736.3	77.563 µg/L	77.563 ppb	06:46:50
1	P 214.914†	2305.7	2268.7	445.74 µg/L	445.74 ppb	06:47:10
1	Pb 220.353†	631.3	529.9	32.408 µg/L	32.408 ppb	06:47:10
1	S 181.975 Axial†	139.8	31.4	23.332 µg/L	23.332 ppb	06:47:10
1	Sb 206.836†	78.6	-4.1	-3.5092 µg/L	-3.5092 ppb	06:47:10
1	Se 196.026†	-46.3	-60.5	-0.683 µg/L	-0.683 ppb	06:47:10
1	SiO2†	766323.4	746262.8	72941 µg/L	72941 ppb	06:46:48
1	Si 251.611†	2350789.1	2293860.2	33818 µg/L	33818 ppb	06:46:48
1	Sn 189.927†	106.3	104.9	16.126 µg/L	16.126 ppb	06:47:10
1	Ti 334.940†	3119130.0	3043751.8	2843.8 µg/L	2843.8 ppb	06:46:48
1	Tl 190.801†	-466.2	-338.4	-5.5705 µg/L	-5.5705 ppb	06:47:10
1	U 409.014†	-6931.5	-6496.2	-374.09 µg/L	-374.09 ppb	06:46:48
1	V 292.402†	6190.0	5638.5	18.739 µg/L	18.739 ppb	06:46:50
1	Zn 213.857†	86169.0	83548.5	463.90 µg/L	463.90 ppb	06:46:50
2	Sc RADIAL	145074.8	145074.8	99.4 %		06:46:24
2	Al 396.153Radial†	67588.4	68049.9	12616 µg/L	12616 ppb	06:46:26
2	Ca 317.933Radial†	61921.3	61725.6	3438.4 µg/L	3438.4 ppb	06:46:26
2	Fe 238.204 Radial†	1002400.7	1008159.9	62137 µg/L	62137 ppb	06:46:24
2	K 766.490 Radial†	18243.0	16805.8	6148.3 µg/L	6148.3 ppb	06:46:26
2	Mg 279.077 IEC†	4066.7	3900.0	1399.9 µg/L	1399.9 ppb	06:46:26
2	Na 589.592 Radial†	43527.2	42493.0	5799.6 µg/L	5799.6 ppb	06:46:24
2	Sr 421.552†	6743.0	6918.1	14.355 µg/L	14.355 ppb	06:46:26
2	Sc 361.383	1756818.8	1756818.8	102.25 %		06:47:13
2	Y 371.029	1389505.2	1389505.2	135.34 %		06:47:13
2	Ag 328.068†	4181.3	-2.0	-1.4431 µg/L	-1.4431 ppb	06:47:15
2	As 188.979†	-3.9	16.5	20.384 µg/L	20.384 ppb	06:47:35
2	B 249.677†	3867.3	276.4	4.0411 µg/L	4.0411 ppb	06:47:15
2	Ba 233.527†	31023.1	30477.3	122.04 µg/L	122.04 ppb	06:47:15
2	Be 313.107†	22582.2	23150.7	6.1802 µg/L	6.1802 ppb	06:47:15
2	Cd 226.502†	957.6	1054.7	0.0915 µg/L	0.0915 ppb	06:47:35
2	Co 228.616†	648.2	824.2	7.0758 µg/L	7.0758 ppb	06:47:35
2	Cr 267.716†	19964.7	19347.5	153.29 µg/L	153.29 ppb	06:47:15
2	Cu 324.752†	3622.0	570.2	10.973 µg/L	10.973 ppb	06:47:15
2	Mn 257.610†	2336958.3	2285372.9	2827.5 µg/L	2827.5 ppb	06:47:13
2	Mo 202.031†	88.5	106.6	5.6271 µg/L	5.6271 ppb	06:47:35
2	Ni 231.604†	6871.3	6796.8	78.261 µg/L	78.261 ppb	06:47:15
2	P 214.914†	2322.9	2289.8	450.29 µg/L	450.29 ppb	06:47:35
2	Pb 220.353†	600.2	500.6	30.809 µg/L	30.809 ppb	06:47:35

2	S 181.975 Axial†	140.0	31.9	23.719 µg/L	23.719 ppb	06:47:35
2	Sb 206.836†	94.7	11.8	-1.6326 µg/L	-1.6326 ppb	06:47:35
2	Se 196.026†	-47.3	-61.5	-1.09 µg/L	-1.09 ppb	06:47:35
2	SiO2†	764809.9	746230.0	72938 µg/L	72938 ppb	06:47:13
2	Si 251.611†	2346583.2	2294187.1	33823 µg/L	33823 ppb	06:47:13
2	Sn 189.927†	111.5	110.2	16.468 µg/L	16.468 ppb	06:47:35
2	Ti 334.940†	3116201.9	3046779.6	2846.6 µg/L	2846.6 ppb	06:47:13
2	Tl 190.801†	-457.1	-330.4	-4.5607 µg/L	-4.5607 ppb	06:47:35
2	U 409.014†	-7409.1	-6976.4	-402.15 µg/L	-402.15 ppb	06:47:13
2	V 292.402†	6223.9	5683.3	18.939 µg/L	18.939 ppb	06:47:15
2	Zn 213.857†	87294.2	84811.8	471.00 µg/L	471.00 ppb	06:47:15
3	Sc RADIAL	144060.1	144060.1	98.7 %		06:46:28
3	Al 396.153Radial†	67020.6	67953.6	12598 µg/L	12598 ppb	06:46:30
3	Ca 317.933Radial†	61388.0	61624.1	3432.7 µg/L	3432.7 ppb	06:46:30
3	Fe 238.204 Radial†	996853.2	1009642.5	62228 µg/L	62228 ppb	06:46:28
3	K 766.490 Radial†	18018.0	16707.1	6112.2 µg/L	6112.2 ppb	06:46:30
3	Mg 279.077 IEC†	3974.2	3835.1	1375.6 µg/L	1375.6 ppb	06:46:30
3	Na 589.592 Radial†	43262.4	42533.0	5805.1 µg/L	5805.1 ppb	06:46:28
3	Sr 421.552†	6660.2	6881.9	14.280 µg/L	14.280 ppb	06:46:30
3	Sc 361.383	1781770.1	1781770.1	103.70 %		06:47:37
3	Y 371.029	1407992.9	1407992.9	137.14 %		06:47:37
3	Ag 328.068†	4124.9	-113.7	-1.8321 µg/L	-1.8321 ppb	06:47:39
3	As 188.979†	8.6	28.6	24.015 µg/L	24.015 ppb	06:47:59
3	B 249.677†	3701.0	63.1	0.8951 µg/L	0.8951 ppb	06:47:39
3	Ba 233.527†	30762.0	29800.7	119.31 µg/L	119.31 ppb	06:47:39
3	Be 313.107†	22356.1	22623.4	6.0454 µg/L	6.0454 ppb	06:47:39
3	Cd 226.502†	954.4	1038.6	-0.0203 µg/L	-0.0203 ppb	06:47:59
3	Co 228.616†	654.1	821.1	7.0289 µg/L	7.0289 ppb	06:47:59
3	Cr 267.716†	19478.1	18604.8	147.46 µg/L	147.46 ppb	06:47:39
3	Cu 324.752†	3641.3	539.2	10.889 µg/L	10.889 ppb	06:47:39
3	Mn 257.610†	2373662.4	2288760.9	2831.7 µg/L	2831.7 ppb	06:47:37
3	Mo 202.031†	64.0	81.8	4.9007 µg/L	4.9007 ppb	06:47:59
3	Ni 231.604†	6709.3	6546.5	75.379 µg/L	75.379 ppb	06:47:39
3	P 214.914†	2327.4	2262.3	444.36 µg/L	444.36 ppb	06:47:59
3	Pb 220.353†	616.6	508.2	31.207 µg/L	31.207 ppb	06:47:59
3	S 181.975 Axial†	137.9	28.0	20.791 µg/L	20.791 ppb	06:47:59
3	Sb 206.836†	89.4	5.4	-2.3234 µg/L	-2.3234 ppb	06:47:59
3	Se 196.026†	-48.4	-62.0	-1.18 µg/L	-1.18 ppb	06:47:59
3	SiO2†	777597.8	748087.0	73119 µg/L	73119 ppb	06:47:37
3	Si 251.611†	2387242.6	2301257.4	33927 µg/L	33927 ppb	06:47:37
3	Sn 189.927†	113.5	110.6	16.496 µg/L	16.496 ppb	06:47:59
3	Ti 334.940†	3161171.4	3047465.5	2847.2 µg/L	2847.2 ppb	06:47:37
3	Tl 190.801†	-448.8	-316.1	-2.7889 µg/L	-2.7889 ppb	06:47:59
3	U 409.014†	-7002.6	-6483.0	-373.33 µg/L	-373.33 ppb	06:47:37
3	V 292.402†	6151.6	5528.4	18.160 µg/L	18.160 ppb	06:47:39
3	Zn 213.857†	85772.1	82148.4	456.04 µg/L	456.04 ppb	06:47:39

Mean Data: 248000002|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1766269.1	102.80 %	0.788			0.77%
Sc RADIAL	145040.3	99.4 %	0.66			0.66%
Y 371.029	1396502.3	136.02 %	0.977			0.72%
Ag 328.068†	-23.1	-1.5018 µg/L	0.30517	-1.5018 ppb	0.30517	20.32%
Al 396.153Radial†	67732.9	12557 µg/L	86.8	12557 ppb	86.8	0.69%
As 188.979†	23.0	22.318 µg/L	1.8272	22.318 ppb	1.8272	8.19%
B 249.677†	179.8	2.6171 µg/L	1.59401	2.6171 ppb	1.59401	60.91%
Ba 233.527†	30190.8	120.88 µg/L	1.412	120.88 ppb	1.412	1.17%
Be 313.107†	22950.8	6.1315 µg/L	0.07483	6.1315 ppb	0.07483	1.22%
Ca 317.933Radial†	61447.9	3422.9 µg/L	22.08	3422.9 ppb	22.08	0.65%
Cd 226.502†	1050.7	0.0629 µg/L	0.07321	0.0629 ppb	0.07321	116.40%
Co 228.616†	816.5	6.9775 µg/L	0.13186	6.9775 ppb	0.13186	1.89%
Cr 267.716†	19062.8	151.05 µg/L	3.144	151.05 ppb	3.144	2.08%
Cu 324.752†	560.1	10.953 µg/L	0.0566	10.953 ppb	0.0566	0.52%
Fe 238.204 Radial†	1008594.8	62164 µg/L	56.2	62164 ppb	56.2	0.09%
K 766.490 Radial†	16745.3	6126.2 µg/L	19.39	6126.2 ppb	19.39	0.32%
Mg 279.077 IEC†	3851.3	1381.7 µg/L	16.03	1381.7 ppb	16.03	1.16%
Mn 257.610†	2286183.3	2828.5 µg/L	2.82	2828.5 ppb	2.82	0.10%
Mo 202.031†	98.1	5.3768 µg/L	0.41256	5.3768 ppb	0.41256	7.67%
Na 589.592 Radial†	42460.8	5795.2 µg/L	12.64	5795.2 ppb	12.64	0.22%

Ni 231.604†	6693.2	77.068 µg/L	1.5036	77.068 ppb	1.5036	1.95%
P 214.914†	2273.6	446.80 µg/L	3.106	446.80 ppb	3.106	0.70%
Pb 220.353†	512.9	31.475 µg/L	0.8327	31.475 ppb	0.8327	2.65%
S 181.975 Axial†	30.4	22.614 µg/L	1.5909	22.614 ppb	1.5909	7.04%
Sb 206.836†	4.4	-2.4884 µg/L	0.94911	-2.4884 ppb	0.94911	38.14%
Se 196.026†	-61.3	-0.981 µg/L	0.2624	-0.981 ppb	0.2624	26.73%
SiO2†	746859.9	72999 µg/L	103.9	72999 ppb	103.9	0.14%
Si 251.611†	2296434.9	33856 µg/L	61.6	33856 ppb	61.6	0.18%
Sn 189.927†	108.5	16.363 µg/L	0.2058	16.363 ppb	0.2058	1.26%
Sr 421.552†	6851.5	14.217 µg/L	0.1785	14.217 ppb	0.1785	1.26%
Ti 334.940†	3045999.0	2845.9 µg/L	1.85	2845.9 ppb	1.85	0.06%
Tl 190.801†	-328.3	-4.3067 µg/L	1.40807	-4.3067 ppb	1.40807	32.69%
U 409.014†	-6651.9	-383.19 µg/L	16.423	-383.19 ppb	16.423	4.29%
Concentration less than lower limit for U 409.014.						
V 292.402†	5616.7	18.613 µg/L	0.4047	18.613 ppb	0.4047	2.17%
Zn 213.857†	83502.9	463.65 µg/L	7.480	463.65 ppb	7.480	1.61%

Sequence No.: 11
 Sample ID: 248000003|959093|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 309
 Date Collected: 4/1/2010 6:48:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248000003|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144071.2	144071.2	98.7 %		06:48:38
1	Al 396.153Radial†	84850.7	86008.6	15946 µg/L	15946 ppb	06:48:38
1	Ca 317.933Radial†	62303.5	62546.7	3484.1 µg/L	3484.1 ppb	06:48:40
1	Fe 238.204 Radial†	905377.7	916909.3	56513 µg/L	56513 ppb	06:48:38
1	K 766.490 Radial†	15442.7	14097.1	5156.1 µg/L	5156.1 ppb	06:48:40
1	Mg 279.077 IEC†	5071.6	4946.4	1794.5 µg/L	1794.5 ppb	06:48:40
1	Na 589.592 Radial†	33070.8	32206.6	4395.2 µg/L	4395.2 ppb	06:48:40
1	Sr 421.552†	7485.7	7717.6	16.017 µg/L	16.017 ppb	06:48:40
1	Sc 361.383	1746206.8	1746206.8	101.63 %		06:48:53
1	Y 371.029	1356414.4	1356414.4	132.12 %		06:48:53
1	Ag 328.068†	3909.0	-245.0	-2.1111 µg/L	-2.1111 ppb	06:48:55
1	As 188.979†	1.7	22.0	19.459 µg/L	19.459 ppb	06:49:15
1	B 249.677†	3813.2	246.2	3.5986 µg/L	3.5986 ppb	06:48:55
1	Ba 233.527†	31898.7	31523.3	126.32 µg/L	126.32 ppb	06:48:55
1	Be 313.107†	23806.1	24489.2	6.5654 µg/L	6.5654 ppb	06:48:55
1	Cd 226.502†	855.7	960.2	0.0586 µg/L	0.0586 ppb	06:49:15
1	Co 228.616†	577.9	758.9	6.5427 µg/L	6.5427 ppb	06:49:15
1	Cr 267.716†	1926.3	1716.9	15.044 µg/L	15.044 ppb	06:48:55
1	Cu 324.752†	3640.1	609.5	10.374 µg/L	10.374 ppb	06:48:55
1	Mn 257.610†	2036475.7	2003596.6	2478.8 µg/L	2478.8 ppb	06:48:53
1	Mo 202.031†	23.6	43.3	3.5509 µg/L	3.5509 ppb	06:49:15
1	Ni 231.604†	708.3	773.5	8.9059 µg/L	8.9059 ppb	06:49:15
1	P 214.914†	2091.5	2075.9	409.14 µg/L	409.14 ppb	06:49:15
1	Pb 220.353†	544.0	448.9	27.845 µg/L	27.845 ppb	06:49:15
1	S 181.975 Axial†	174.1	66.3	49.225 µg/L	49.225 ppb	06:49:15
1	Sb 206.836†	86.6	4.4	-0.4190 µg/L	-0.4190 ppb	06:49:15
1	Se 196.026†	-38.5	-53.2	0.059 µg/L	0.059 ppb	06:49:15
1	SiO2†	729934.2	716459.1	70028 µg/L	70028 ppb	06:48:53
1	Si 251.611†	2240497.3	2203748.8	32490 µg/L	32490 ppb	06:48:53
1	Sn 189.927†	127.0	126.1	16.416 µg/L	16.416 ppb	06:49:15
1	Ti 334.940†	2760213.9	2715019.0	2536.6 µg/L	2536.6 ppb	06:48:53
1	Tl 190.801†	-423.1	-299.7	-4.7781 µg/L	-4.7781 ppb	06:49:15
1	U 409.014†	-6170.0	-5801.2	-334.13 µg/L	-334.13 ppb	06:48:53
1	V 292.402†	6625.9	6115.9	21.364 µg/L	21.364 ppb	06:48:55
1	Zn 213.857†	77930.0	76116.5	423.10 µg/L	423.10 ppb	06:48:55
2	Sc RADIAL	145264.0	145264.0	99.5 %		06:48:42
2	Al 396.153Radial†	85482.8	85937.7	15933 µg/L	15933 ppb	06:48:42
2	Ca 317.933Radial†	61208.3	60928.3	3393.9 µg/L	3393.9 ppb	06:48:44
2	Fe 238.204 Radial†	916043.2	920093.3	56709 µg/L	56709 ppb	06:48:42
2	K 766.490 Radial†	15269.6	13794.8	5045.4 µg/L	5045.4 ppb	06:48:44
2	Mg 279.077 IEC†	5033.1	4865.4	1764.2 µg/L	1764.2 ppb	06:48:44
2	Na 589.592 Radial†	32632.0	31490.7	4297.5 µg/L	4297.5 ppb	06:48:44
2	Sr 421.552†	7383.1	7552.2	15.674 µg/L	15.674 ppb	06:48:44
2	Sc 361.383	1732761.4	1732761.4	100.85 %		06:49:17
2	Y 371.029	1345959.6	1345959.6	131.10 %		06:49:17
2	Ag 328.068†	4042.6	-82.7	-1.4947 µg/L	-1.4947 ppb	06:49:19
2	As 188.979†	-7.4	13.0	16.786 µg/L	16.786 ppb	06:49:39
2	B 249.677†	3737.7	200.4	2.9242 µg/L	2.9242 ppb	06:49:19
2	Ba 233.527†	31740.6	31610.0	126.67 µg/L	126.67 ppb	06:49:19
2	Be 313.107†	23803.8	24668.8	6.6175 µg/L	6.6175 ppb	06:49:19
2	Cd 226.502†	852.1	963.2	0.0566 µg/L	0.0566 ppb	06:49:39
2	Co 228.616†	548.7	734.4	6.2295 µg/L	6.2295 ppb	06:49:39
2	Cr 267.716†	1970.4	1775.3	15.501 µg/L	15.501 ppb	06:49:19
2	Cu 324.752†	3878.1	873.4	11.436 µg/L	11.436 ppb	06:49:19
2	Mn 257.610†	2019044.9	2001860.9	2476.7 µg/L	2476.7 ppb	06:49:17
2	Mo 202.031†	24.5	44.3	3.5887 µg/L	3.5887 ppb	06:49:39
2	Ni 231.604†	674.6	745.5	8.5834 µg/L	8.5834 ppb	06:49:39
2	P 214.914†	2071.7	2072.3	408.20 µg/L	408.20 ppb	06:49:39
2	Pb 220.353†	528.5	437.7	27.201 µg/L	27.201 ppb	06:49:39

2	S 181.975 Axial†	166.7	60.2	44.720 µg/L	44.720 ppb	06:49:39
2	Sb 206.836†	68.5	-12.9	-2.4864 µg/L	-2.4864 ppb	06:49:39
2	Se 196.026†	-51.6	-66.4	-4.65 µg/L	-4.65 ppb	06:49:39
2	SiO2†	723519.1	715670.9	69951 µg/L	69951 ppb	06:49:17
2	Si 251.611†	2219180.4	2199717.3	32430 µg/L	32430 ppb	06:49:17
2	Sn 189.927†	116.3	116.4	15.804 µg/L	15.804 ppb	06:49:39
2	Ti 334.940†	2735935.8	2712019.3	2533.8 µg/L	2533.8 ppb	06:49:17
2	Tl 190.801†	-407.2	-287.1	-3.2589 µg/L	-3.2589 ppb	06:49:39
2	U 409.014†	-5938.2	-5618.4	-323.51 µg/L	-323.51 ppb	06:49:17
2	V 292.402†	6583.6	6124.5	21.397 µg/L	21.397 ppb	06:49:19
2	Zn 213.857†	77916.1	76697.7	426.35 µg/L	426.35 ppb	06:49:19
3	Sc RADIAL	143343.8	143343.8	98.2 %		06:48:46
3	Al 396.153Radial†	84557.7	86146.4	15971 µg/L	15971 ppb	06:48:46
3	Ca 317.933Radial†	61865.3	62420.8	3477.1 µg/L	3477.1 ppb	06:48:48
3	Fe 238.204 Radial†	900912.6	917017.2	56519 µg/L	56519 ppb	06:48:46
3	K 766.490 Radial†	15250.6	13981.0	5113.6 µg/L	5113.6 ppb	06:48:48
3	Mg 279.077 IEC†	5097.7	4999.0	1814.1 µg/L	1814.1 ppb	06:48:48
3	Na 589.592 Radial†	32927.6	32230.8	4398.6 µg/L	4398.6 ppb	06:48:48
3	Sr 421.552†	7391.9	7660.5	15.899 µg/L	15.899 ppb	06:48:48
3	Sc 361.383	1773108.9	1773108.9	103.19 %		06:49:42
3	Y 371.029	1376778.6	1376778.6	134.10 %		06:49:42
3	Ag 328.068†	4082.1	-135.7	-1.7053 µg/L	-1.7053 ppb	06:49:44
3	As 188.979†	-6.8	13.8	16.985 µg/L	16.985 ppb	06:50:04
3	B 249.677†	3898.4	271.8	3.9774 µg/L	3.9774 ppb	06:49:44
3	Ba 233.527†	32220.5	31358.9	125.66 µg/L	125.66 ppb	06:49:44
3	Be 313.107†	24329.7	24641.2	6.6106 µg/L	6.6106 ppb	06:49:44
3	Cd 226.502†	866.6	958.0	0.0443 µg/L	0.0443 ppb	06:50:04
3	Co 228.616†	570.4	743.1	6.3462 µg/L	6.3462 ppb	06:50:04
3	Cr 267.716†	1997.5	1757.1	15.348 µg/L	15.348 ppb	06:49:44
3	Cu 324.752†	3900.7	807.7	11.156 µg/L	11.156 ppb	06:49:44
3	Mn 257.610†	2068836.0	2004552.4	2480.0 µg/L	2480.0 ppb	06:49:42
3	Mo 202.031†	37.9	56.8	3.9490 µg/L	3.9490 ppb	06:50:04
3	Ni 231.604†	686.0	741.3	8.5356 µg/L	8.5356 ppb	06:50:04
3	P 214.914†	2096.3	2049.3	403.44 µg/L	403.44 ppb	06:50:04
3	Pb 220.353†	530.7	427.9	26.667 µg/L	26.667 ppb	06:50:04
3	S 181.975 Axial†	165.6	55.4	41.151 µg/L	41.151 ppb	06:50:04
3	Sb 206.836†	80.8	-2.5	-1.2394 µg/L	-1.2394 ppb	06:50:04
3	Se 196.026†	-42.3	-56.3	-1.06 µg/L	-1.06 ppb	06:50:04
3	SiO2†	740214.0	715523.3	69936 µg/L	69936 ppb	06:49:42
3	Si 251.611†	2271751.8	2200587.1	32443 µg/L	32443 ppb	06:49:42
3	Sn 189.927†	136.0	132.9	16.839 µg/L	16.839 ppb	06:50:04
3	Ti 334.940†	2802996.3	2715269.5	2536.9 µg/L	2536.9 ppb	06:49:42
3	Tl 190.801†	-437.9	-307.6	-5.7602 µg/L	-5.7602 ppb	06:50:04
3	U 409.014†	-6043.2	-5586.2	-321.63 µg/L	-321.63 ppb	06:49:42
3	V 292.402†	6471.4	5867.2	20.163 µg/L	20.163 ppb	06:49:44
3	Zn 213.857†	78788.9	75785.4	421.24 µg/L	421.24 ppb	06:49:44

Mean Data: 248000003|959093|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1750692.4	101.89 %	%	1.196			1.17%
Sc RADIAL	144226.3	98.8 %	%	0.66			0.67%
Y 371.029	1359717.5	132.44 %	%	1.527			1.15%
Ag 328.068†	-154.5	-1.7704 µg/L	µg/L	0.31331	-1.7704 ppb	0.31331	17.70%
Al 396.153Radial†	86030.9	15950 µg/L	µg/L	19.7	15950 ppb	19.7	0.12%
As 188.979†	16.3	17.743 µg/L	µg/L	1.4894	17.743 ppb	1.4894	8.39%
B 249.677†	239.5	3.5001 µg/L	µg/L	0.53349	3.5001 ppb	0.53349	15.24%
Ba 233.527†	31497.4	126.22 µg/L	µg/L	0.513	126.22 ppb	0.513	0.41%
Be 313.107†	24599.7	6.5979 µg/L	µg/L	0.02830	6.5979 ppb	0.02830	0.43%
Ca 317.933Radial†	61965.3	3451.7 µg/L	µg/L	50.15	3451.7 ppb	50.15	1.45%
Cd 226.502†	960.4	0.0532 µg/L	µg/L	0.00778	0.0532 ppb	0.00778	14.63%
Co 228.616†	745.5	6.3728 µg/L	µg/L	0.15824	6.3728 ppb	0.15824	2.48%
Cr 267.716†	1749.8	15.297 µg/L	µg/L	0.2326	15.297 ppb	0.2326	1.52%
Cu 324.752†	763.5	10.989 µg/L	µg/L	0.5503	10.989 ppb	0.5503	5.01%
Fe 238.204 Radial†	918006.6	56580 µg/L	µg/L	111.4	56580 ppb	111.4	0.20%
K 766.490 Radial†	13957.6	5105.0 µg/L	µg/L	55.82	5105.0 ppb	55.82	1.09%
Mg 279.077 IEC†	4936.9	1790.9 µg/L	µg/L	25.16	1790.9 ppb	25.16	1.40%
Mn 257.610†	2003336.6	2478.5 µg/L	µg/L	1.69	2478.5 ppb	1.69	0.07%
Mo 202.031†	48.2	3.6962 µg/L	µg/L	0.21976	3.6962 ppb	0.21976	5.95%
Na 589.592 Radial†	31976.0	4363.8 µg/L	µg/L	57.40	4363.8 ppb	57.40	1.32%

Ni 231.604†	753.4	8.6749 µg/L	0.20142	8.6749 ppb	0.20142	2.32%
P 214.914†	2065.8	406.92 µg/L	3.057	406.92 ppb	3.057	0.75%
Pb 220.353†	438.2	27.237 µg/L	0.5900	27.237 ppb	0.5900	2.17%
S 181.975 Axial†	60.6	45.032 µg/L	4.0457	45.032 ppb	4.0457	8.98%
Sb 206.836†	-3.7	-1.3816 µg/L	1.04104	-1.3816 ppb	1.04104	75.35%
Se 196.026†	-58.6	-1.88 µg/L	2.462	-1.88 ppb	2.462	130.69%
SiO2†	715884.4	69972 µg/L	49.2	69972 ppb	49.2	0.07%
Si 251.611†	2201351.0	32454 µg/L	31.3	32454 ppb	31.3	0.10%
Sn 189.927†	125.2	16.353 µg/L	0.5203	16.353 ppb	0.5203	3.18%
Sr 421.552†	7643.4	15.863 µg/L	0.1743	15.863 ppb	0.1743	1.10%
Ti 334.940†	2714102.6	2535.8 µg/L	1.69	2535.8 ppb	1.69	0.07%
Tl 190.801†	-298.1	-4.5991 µg/L	1.26022	-4.5991 ppb	1.26022	27.40%
U 409.014†	-5668.6	-326.42 µg/L	6.744	-326.42 ppb	6.744	2.07%
Concentration less than lower limit for U 409.014.						
V 292.402†	6035.9	20.975 µg/L	0.7027	20.975 ppb	0.7027	3.35%
Zn 213.857†	76199.9	423.56 µg/L	2.583	423.56 ppb	2.583	0.61%

Sequence No.: 12

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 6:50:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143844.4	143844.4	98.6 %			06:50:47
1	Al 396.153Radial†	25788.9	26226.0	4840.9 µg/L		4840.9 ppb	06:50:47
1	Ca 317.933Radial†	84255.8	84916.7	4730.2 µg/L		4730.2 ppb	06:50:47
1	Fe 238.204 Radial†	75761.9	76712.2	4728.1 µg/L		4728.1 ppb	06:50:47
1	K 766.490 Radial†	14566.5	13232.9	4840.9 µg/L		4840.9 ppb	06:50:47
1	Mg 279.077 IEC†	12924.3	12920.9	4821.4 µg/L		4821.4 ppb	06:50:47
1	Na 589.592 Radial†	70314.2	70042.8	9564.4 µg/L		9564.4 ppb	06:50:47
1	Sr 421.552†	225416.9	228820.2	475.67 µg/L		475.67 ppb	06:50:44
1	Sc 361.383	1738802.7	1738802.7	101.20 %			06:50:59
1	Y 371.029	1024681.2	1024681.2	99.804 %			06:50:59
1	Ag 328.068†	129631.3	124005.2	465.02 µg/L		465.02 ppb	06:50:59
1	As 188.979†	1581.0	1582.6	485.39 µg/L		485.39 ppb	06:51:19
1	B 249.677†	35075.1	31154.0	457.84 µg/L		457.84 ppb	06:50:59
1	Ba 233.527†	117058.2	115808.2	467.05 µg/L		467.05 ppb	06:50:59
1	Be 313.107†	1762033.6	1742238.2	474.51 µg/L		474.51 ppb	06:50:59
1	Cd 226.502†	75208.7	74436.5	464.66 µg/L		464.66 ppb	06:50:59
1	Co 228.616†	38308.7	38045.5	469.67 µg/L		469.67 ppb	06:50:59
1	Cr 267.716†	60115.1	59224.8	463.73 µg/L		463.73 ppb	06:50:59
1	Cu 324.752†	124300.0	119856.3	467.23 µg/L		467.23 ppb	06:50:59
1	Mn 257.610†	385186.9	380389.5	470.45 µg/L		470.45 ppb	06:50:59
1	Mo 202.031†	15845.4	15677.9	461.18 µg/L		461.18 ppb	06:51:19
1	Ni 231.604†	40875.3	40467.9	465.96 µg/L		465.96 ppb	06:50:59
1	P 214.914†	10897.9	10786.9	2299.1 µg/L		2299.1 ppb	06:51:19
1	Pb 220.353†	8501.2	8314.1	465.59 µg/L		465.59 ppb	06:51:19
1	S 181.975 Axial†	1349.3	1228.3	916.01 µg/L		916.01 ppb	06:51:19
1	Sb 206.836†	3999.9	3871.7	461.25 µg/L		461.25 ppb	06:51:19
1	Se 196.026†	1285.5	1255.0	456 µg/L		456 ppb	06:51:19
1	SiO2†	52927.4	50525.5	4918.7 µg/L		4918.7 ppb	06:50:59
1	Si 251.611†	159817.6	157089.0	2306.8 µg/L		2306.8 ppb	06:50:59
1	Sn 189.927†	7465.8	7378.6	461.55 µg/L		461.55 ppb	06:51:19
1	Ti 334.940†	507519.3	500558.4	467.06 µg/L		467.06 ppb	06:50:59
1	Tl 190.801†	3702.1	3775.0	470.84 µg/L		470.84 ppb	06:51:19
1	U 409.014†	7100.0	7285.8	454.39 µg/L		454.39 ppb	06:50:59
1	V 292.402†	96772.7	95223.2	470.64 µg/L		470.64 ppb	06:50:59
1	Zn 213.857†	84427.7	82863.8	461.82 µg/L		461.82 ppb	06:50:59
2	Sc RADIAL	142781.7	142781.7	97.8 %			06:50:51
2	Al 396.153Radial†	25806.6	26438.8	4880.2 µg/L		4880.2 ppb	06:50:51
2	Ca 317.933Radial†	83572.5	84854.5	4726.7 µg/L		4726.7 ppb	06:50:51
2	Fe 238.204 Radial†	75153.5	76662.4	4725.0 µg/L		4725.0 ppb	06:50:51
2	K 766.490 Radial†	14406.6	13179.5	4821.3 µg/L		4821.3 ppb	06:50:51
2	Mg 279.077 IEC†	12796.4	12887.8	4809.1 µg/L		4809.1 ppb	06:50:51
2	Na 589.592 Radial†	69989.1	70241.4	9591.5 µg/L		9591.5 ppb	06:50:51
2	Sr 421.552†	227567.6	232720.4	483.78 µg/L		483.78 ppb	06:50:49
2	Sc 361.383	1732312.8	1732312.8	100.82 %			06:51:23
2	Y 371.029	1021720.9	1021720.9	99.516 %			06:51:23
2	Ag 328.068†	129719.1	124572.2	467.10 µg/L		467.10 ppb	06:51:23
2	As 188.979†	1588.2	1595.6	489.32 µg/L		489.32 ppb	06:51:43
2	B 249.677†	35156.8	31364.8	460.95 µg/L		460.95 ppb	06:51:23
2	Ba 233.527†	116694.9	115881.2	467.35 µg/L		467.35 ppb	06:51:23
2	Be 313.107†	1753037.6	1739838.5	473.85 µg/L		473.85 ppb	06:51:23
2	Cd 226.502†	74807.8	74317.3	463.92 µg/L		463.92 ppb	06:51:23
2	Co 228.616†	38055.2	37935.8	468.31 µg/L		468.31 ppb	06:51:23
2	Cr 267.716†	59835.7	59170.3	463.31 µg/L		463.31 ppb	06:51:23
2	Cu 324.752†	123823.7	119844.0	467.18 µg/L		467.18 ppb	06:51:23
2	Mn 257.610†	383468.0	380110.6	470.11 µg/L		470.11 ppb	06:51:23
2	Mo 202.031†	15844.0	15735.2	462.87 µg/L		462.87 ppb	06:51:43
2	Ni 231.604†	40639.5	40385.3	465.01 µg/L		465.01 ppb	06:51:23
2	P 214.914†	10909.8	10839.0	2310.2 µg/L		2310.2 ppb	06:51:43
2	Pb 220.353†	8480.2	8324.8	466.20 µg/L		466.20 ppb	06:51:43

2	S 181.975 Axial†	1346.9	1230.9	917.91 µg/L	917.91 ppb	06:51:43
2	Sb 206.836†	3980.2	3867.0	460.73 µg/L	460.73 ppb	06:51:43
2	Se 196.026†	1300.3	1274.5	463 µg/L	463 ppb	06:51:43
2	SiO2†	52827.4	50622.2	4928.0 µg/L	4928.0 ppb	06:51:23
2	Si 251.611†	159326.9	157194.0	2308.3 µg/L	2308.3 ppb	06:51:23
2	Sn 189.927†	7476.6	7416.8	463.94 µg/L	463.94 ppb	06:51:43
2	Ti 334.940†	505139.1	500076.4	466.61 µg/L	466.61 ppb	06:51:23
2	Tl 190.801†	3698.1	3784.7	472.04 µg/L	472.04 ppb	06:51:43
2	U 409.014†	6942.0	7155.4	446.72 µg/L	446.72 ppb	06:51:23
2	V 292.402†	96267.9	95080.8	469.96 µg/L	469.96 ppb	06:51:23
2	Zn 213.857†	83720.5	82474.9	459.64 µg/L	459.64 ppb	06:51:23
3	Sc RADIAL	143836.3	143836.3	98.6 %		06:50:55
3	Al 396.153Radial†	25907.3	26347.6	4863.4 µg/L	4863.4 ppb	06:50:55
3	Ca 317.933Radial†	84074.3	84737.4	4720.2 µg/L	4720.2 ppb	06:50:55
3	Fe 238.204 Radial†	75677.4	76630.7	4723.0 µg/L	4723.0 ppb	06:50:55
3	K 766.490 Radial†	14497.0	13163.2	4815.3 µg/L	4815.3 ppb	06:50:55
3	Mg 279.077 IEC†	12916.7	12914.0	4818.8 µg/L	4818.8 ppb	06:50:55
3	Na 589.592 Radial†	70095.9	69825.3	9534.7 µg/L	9534.7 ppb	06:50:55
3	Sr 421.552†	224937.6	228346.7	474.68 µg/L	474.68 ppb	06:50:53
3	Sc 361.383	1745167.1	1745167.1	101.57 %		06:51:46
3	Y 371.029	1027608.6	1027608.6	100.09 %		06:51:46
3	Ag 328.068†	130622.1	124513.6	466.91 µg/L	466.91 ppb	06:51:46
3	As 188.979†	1580.0	1575.9	483.36 µg/L	483.36 ppb	06:52:06
3	B 249.677†	35677.0	31620.2	464.70 µg/L	464.70 ppb	06:51:46
3	Ba 233.527†	117945.5	116260.0	468.87 µg/L	468.87 ppb	06:51:46
3	Be 313.107†	1774480.0	1748142.5	476.11 µg/L	476.11 ppb	06:51:46
3	Cd 226.502†	75852.8	74799.7	466.93 µg/L	466.93 ppb	06:51:46
3	Co 228.616†	38673.3	38266.4	472.39 µg/L	472.39 ppb	06:51:46
3	Cr 267.716†	60484.3	59371.7	464.88 µg/L	464.88 ppb	06:51:46
3	Cu 324.752†	125032.7	120129.7	468.29 µg/L	468.29 ppb	06:51:46
3	Mn 257.610†	387230.7	381013.6	471.22 µg/L	471.22 ppb	06:51:46
3	Mo 202.031†	15902.9	15677.4	461.17 µg/L	461.17 ppb	06:52:06
3	Ni 231.604†	41266.5	40705.8	468.70 µg/L	468.70 ppb	06:51:46
3	P 214.914†	10969.1	10817.6	2305.7 µg/L	2305.7 ppb	06:52:06
3	Pb 220.353†	8529.9	8311.8	465.47 µg/L	465.47 ppb	06:52:06
3	S 181.975 Axial†	1357.3	1231.3	918.20 µg/L	918.20 ppb	06:52:06
3	Sb 206.836†	3998.4	3855.8	459.36 µg/L	459.36 ppb	06:52:06
3	Se 196.026†	1305.2	1269.7	461 µg/L	461 ppb	06:52:06
3	SiO2†	53325.5	50726.6	4938.3 µg/L	4938.3 ppb	06:51:46
3	Si 251.611†	161035.0	157711.7	2315.9 µg/L	2315.9 ppb	06:51:46
3	Sn 189.927†	7518.0	7403.0	463.08 µg/L	463.08 ppb	06:52:06
3	Ti 334.940†	510430.4	501595.6	468.03 µg/L	468.03 ppb	06:51:46
3	Tl 190.801†	3716.0	3775.3	470.89 µg/L	470.89 ppb	06:52:06
3	U 409.014†	7028.8	7190.1	448.87 µg/L	448.87 ppb	06:51:46
3	V 292.402†	97382.5	95474.9	471.87 µg/L	471.87 ppb	06:51:46
3	Zn 213.857†	84926.8	83050.9	462.85 µg/L	462.85 ppb	06:51:46

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1738760.9	101.20 %	0.374			0.37%
Sc RADIAL	143487.5	98.3 %	0.42			0.43%
Y 371.029	1024670.2	99.803 %	0.2867			0.29%
Ag 328.068†	124363.7	466.34 µg/L	1.151	466.34 ppb	1.151	0.25%
QC value within limits for Ag 328.068 Recovery = 93.27%						
Al 396.153Radial†	26337.5	4861.5 µg/L	19.75	4861.5 ppb	19.75	0.41%
QC value within limits for Al 396.153Radial Recovery = 97.23%						
As 188.979†	1584.7	486.02 µg/L	3.027	486.02 ppb	3.027	0.62%
QC value within limits for As 188.979 Recovery = 97.20%						
B 249.677†	31379.7	461.16 µg/L	3.438	461.16 ppb	3.438	0.75%
QC value within limits for B 249.677 Recovery = 92.23%						
Ba 233.527†	115983.2	467.76 µg/L	0.978	467.76 ppb	0.978	0.21%
QC value within limits for Ba 233.527 Recovery = 93.55%						
Be 313.107†	1743406.4	474.83 µg/L	1.164	474.83 ppb	1.164	0.25%
QC value within limits for Be 313.107 Recovery = 94.97%						
Ca 317.933Radial†	84836.2	4725.7 µg/L	5.07	4725.7 ppb	5.07	0.11%
QC value within limits for Ca 317.933Radial Recovery = 94.51%						
Cd 226.502†	74517.8	465.17 µg/L	1.570	465.17 ppb	1.570	0.34%
QC value within limits for Cd 226.502 Recovery = 93.03%						
Co 228.616†	38082.6	470.13 µg/L	2.078	470.13 ppb	2.078	0.44%

Cr 267.716†	59255.6	463.97 µg/L	0.816	463.97 ppb	0.816	0.18%
QC value within limits for Co 228.616 Recovery = 94.03%						
Cu 324.752†	119943.3	467.57 µg/L	0.628	467.57 ppb	0.628	0.13%
QC value within limits for Cu 324.752 Recovery = 93.51%						
Fe 238.204 Radial†	76668.4	4725.4 µg/L	2.53	4725.4 ppb	2.53	0.05%
QC value within limits for Fe 238.204 Radial Recovery = 94.51%						
K 766.490 Radial†	13191.9	4825.8 µg/L	13.36	4825.8 ppb	13.36	0.28%
QC value within limits for K 766.490 Radial Recovery = 96.52%						
Mg 279.077 IEC†	12907.6	4816.4 µg/L	6.48	4816.4 ppb	6.48	0.13%
QC value within limits for Mg 279.077 IEC Recovery = 96.33%						
Mn 257.610†	380504.6	470.59 µg/L	0.572	470.59 ppb	0.572	0.12%
QC value within limits for Mn 257.610 Recovery = 94.12%						
Mo 202.031†	15696.8	461.74 µg/L	0.976	461.74 ppb	0.976	0.21%
QC value within limits for Mo 202.031 Recovery = 92.35%						
Na 589.592 Radial†	70036.5	9563.5 µg/L	28.43	9563.5 ppb	28.43	0.30%
QC value within limits for Na 589.592 Radial Recovery = 95.64%						
Ni 231.604†	40519.7	466.55 µg/L	1.916	466.55 ppb	1.916	0.41%
QC value within limits for Ni 231.604 Recovery = 93.31%						
P 214.914†	10814.5	2305.0 µg/L	5.61	2305.0 ppb	5.61	0.24%
QC value within limits for P 214.914 Recovery = 92.20%						
Pb 220.353†	8316.9	465.75 µg/L	0.390	465.75 ppb	0.390	0.08%
QC value within limits for Pb 220.353 Recovery = 93.15%						
S 181.975 Axial†	1230.1	917.38 µg/L	1.192	917.38 ppb	1.192	0.13%
QC value within limits for S 181.975 Axial Recovery = 91.74%						
Sb 206.836†	3864.8	460.45 µg/L	0.981	460.45 ppb	0.981	0.21%
QC value within limits for Sb 206.836 Recovery = 92.09%						
Se 196.026†	1266.4	460 µg/L	3.7	460 ppb	3.7	0.80%
QC value within limits for Se 196.026 Recovery = 91.98%						
SiO2†	50624.8	4928.3 µg/L	9.82	4928.3 ppb	9.82	0.20%
QC value within limits for SiO2 Recovery = 92.16%						
Si 251.611†	157331.5	2310.3 µg/L	4.92	2310.3 ppb	4.92	0.21%
QC value within limits for Si 251.611 Recovery = 92.41%						
Sn 189.927†	7399.5	462.85 µg/L	1.208	462.85 ppb	1.208	0.26%
QC value within limits for Sn 189.927 Recovery = 92.57%						
Sr 421.552†	229962.4	478.04 µg/L	4.990	478.04 ppb	4.990	1.04%
QC value within limits for Sr 421.552 Recovery = 95.61%						
Ti 334.940†	500743.5	467.23 µg/L	0.725	467.23 ppb	0.725	0.16%
QC value within limits for Ti 334.940 Recovery = 93.45%						
Tl 190.801†	3778.3	471.26 µg/L	0.677	471.26 ppb	0.677	0.14%
QC value within limits for Tl 190.801 Recovery = 94.25%						
U 409.014†	7210.4	449.99 µg/L	3.955	449.99 ppb	3.955	0.88%
QC value less than the lower limit for U 409.014 Recovery = 90.00%						
V 292.402†	95259.6	470.83 µg/L	0.969	470.83 ppb	0.969	0.21%
QC value within limits for V 292.402 Recovery = 94.17%						
Zn 213.857†	82796.5	461.44 µg/L	1.639	461.44 ppb	1.639	0.36%
QC value within limits for Zn 213.857 Recovery = 92.29%						
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 4/1/2010 6:52:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144633.2	144633.2	99.1 %		06:52:42
1	Al 396.153Radial†	-68.4	-5.8	-1.0604 µg/L	-1.0604 ppb	06:53:02
1	Ca 317.933Radial†	627.1	72.2	4.0193 µg/L	4.0193 ppb	06:53:02
1	Fe 238.204 Radial†	233.5	87.5	5.3928 µg/L	5.3928 ppb	06:53:02
1	K 766.490 Radial†	1744.4	215.2	78.786 µg/L	78.786 ppb	06:52:42
1	Mg 279.077 IEC†	179.5	-9.6	-3.5729 µg/L	-3.5729 ppb	06:53:02
1	Na 589.592 Radial†	1752.6	477.5	65.161 µg/L	65.161 ppb	06:52:42
1	Sr 421.552†	-155.4	-21.5	-0.0447 µg/L	-0.0447 ppb	06:52:42
1	Sc 361.383	1733964.7	1733964.7	100.92 %		06:53:50
1	Y 371.029	1033335.7	1033335.7	100.65 %		06:53:50
1	Ag 328.068†	3981.0	-146.5	-0.5452 µg/L	-0.5452 ppb	06:53:52
1	As 188.979†	-23.1	-2.6	-0.7719 µg/L	-0.7719 ppb	06:54:12
1	B 249.677†	3532.8	-5.2	-0.0776 µg/L	-0.0776 ppb	06:54:12
1	Ba 233.527†	-131.9	5.2	0.0210 µg/L	0.0210 ppb	06:54:12
1	Be 313.107†	-928.7	144.4	0.0373 µg/L	0.0373 ppb	06:53:52
1	Cd 226.502†	-128.3	-9.0	-0.0567 µg/L	-0.0567 ppb	06:54:12
1	Co 228.616†	-169.5	22.4	0.2756 µg/L	0.2756 ppb	06:54:12
1	Cr 267.716†	204.4	24.0	0.1936 µg/L	0.1936 ppb	06:54:12
1	Cu 324.752†	2997.4	-2.1	-0.0126 µg/L	-0.0126 ppb	06:53:52
1	Mn 257.610†	376.2	135.5	0.1678 µg/L	0.1678 ppb	06:54:12
1	Mo 202.031†	-28.0	-7.7	-0.2256 µg/L	-0.2256 ppb	06:54:12
1	Ni 231.604†	-89.9	-12.5	-0.1442 µg/L	-0.1442 ppb	06:54:12
1	P 214.914†	-16.5	1.6	0.3492 µg/L	0.3492 ppb	06:54:12
1	Pb 220.353†	87.5	0.3	0.0206 µg/L	0.0206 ppb	06:54:12
1	S 181.975 Axial†	110.0	3.9	2.9188 µg/L	2.9188 ppb	06:54:12
1	Sb 206.836†	75.8	-5.7	-0.6867 µg/L	-0.6867 ppb	06:54:12
1	Se 196.026†	7.0	-8.4	-3.02 µg/L	-3.02 ppb	06:54:12
1	SiO2†	1830.0	38.1	3.7253 µg/L	3.7253 ppb	06:54:12
1	Si 251.611†	1070.4	224.1	3.3062 µg/L	3.3062 ppb	06:53:52
1	Sn 189.927†	-0.2	0.9	0.0580 µg/L	0.0580 ppb	06:54:12
1	Ti 334.940†	1176.4	213.2	0.2022 µg/L	0.2022 ppb	06:53:52
1	Tl 190.801†	-127.5	-9.7	-1.1871 µg/L	-1.1871 ppb	06:54:12
1	U 409.014†	-385.9	-112.5	-6.5491 µg/L	-6.5491 ppb	06:53:52
1	V 292.402†	504.0	95.6	0.4597 µg/L	0.4597 ppb	06:53:52
1	Zn 213.857†	627.6	57.5	0.3235 µg/L	0.3235 ppb	06:54:12
2	Sc RADIAL	144549.4	144549.4	99.1 %		06:53:04
2	Al 396.153Radial†	-66.1	-3.6	-0.6440 µg/L	-0.6440 ppb	06:53:24
2	Ca 317.933Radial†	630.2	75.6	4.2130 µg/L	4.2130 ppb	06:53:24
2	Fe 238.204 Radial†	209.7	63.5	3.9168 µg/L	3.9168 ppb	06:53:24
2	K 766.490 Radial†	1826.5	299.2	109.53 µg/L	109.53 ppb	06:53:04
2	Mg 279.077 IEC†	186.3	-2.6	-0.9787 µg/L	-0.9787 ppb	06:53:24
2	Na 589.592 Radial†	1914.4	641.9	87.598 µg/L	87.598 ppb	06:53:04
2	Sr 421.552†	-167.6	-33.9	-0.0705 µg/L	-0.0705 ppb	06:53:04
2	Sc 361.383	1749772.9	1749772.9	101.84 %		06:54:14
2	Y 371.029	1042212.3	1042212.3	101.51 %		06:54:14
2	Ag 328.068†	4047.6	-116.8	-0.4517 µg/L	-0.4517 ppb	06:54:16
2	As 188.979†	-10.3	10.2	3.0888 µg/L	3.0888 ppb	06:54:37
2	B 249.677†	3499.3	-69.7	-1.0282 µg/L	-1.0282 ppb	06:54:37
2	Ba 233.527†	-107.2	30.6	0.1230 µg/L	0.1230 ppb	06:54:37
2	Be 313.107†	-1027.0	56.2	0.0118 µg/L	0.0118 ppb	06:54:16
2	Cd 226.502†	-124.9	-4.4	-0.0280 µg/L	-0.0280 ppb	06:54:37
2	Co 228.616†	-180.8	12.8	0.1577 µg/L	0.1577 ppb	06:54:37
2	Cr 267.716†	221.6	39.0	0.3148 µg/L	0.3148 ppb	06:54:37
2	Cu 324.752†	2983.5	-42.5	-0.1744 µg/L	-0.1744 ppb	06:54:16
2	Mn 257.610†	338.1	94.7	0.1173 µg/L	0.1173 ppb	06:54:37
2	Mo 202.031†	-32.1	-11.5	-0.3367 µg/L	-0.3367 ppb	06:54:37
2	Ni 231.604†	-88.8	-10.7	-0.1227 µg/L	-0.1227 ppb	06:54:37
2	P 214.914†	-17.5	0.7	0.1629 µg/L	0.1629 ppb	06:54:37
2	Pb 220.353†	69.6	-18.0	-0.9973 µg/L	-0.9973 ppb	06:54:37

2	S 181.975 Axial†	96.6	-10.2	-7.5881 µg/L	-7.5881 ppb	06:54:37
2	Sb 206.836†	74.0	-8.1	-0.9755 µg/L	-0.9755 ppb	06:54:37
2	Se 196.026†	13.5	-2.0	-0.745 µg/L	-0.745 ppb	06:54:37
2	SiO2†	1845.3	36.6	3.5813 µg/L	3.5813 ppb	06:54:37
2	Si 251.611†	1001.8	147.2	2.1707 µg/L	2.1707 ppb	06:54:16
2	Sn 189.927†	7.7	8.6	0.5383 µg/L	0.5383 ppb	06:54:37
2	Ti 334.940†	1051.0	79.5	0.0792 µg/L	0.0792 ppb	06:54:16
2	Tl 190.801†	-106.8	11.8	1.4462 µg/L	1.4462 ppb	06:54:37
2	U 409.014†	-479.7	-201.2	-11.784 µg/L	-11.784 ppb	06:54:16
2	V 292.402†	330.2	-79.6	-0.3988 µg/L	-0.3988 ppb	06:54:16
2	Zn 213.857†	607.0	31.7	0.1784 µg/L	0.1784 ppb	06:54:37
3	Sc RADIAL	142441.9	142441.9	97.6 %		06:53:26
3	Al 396.153Radial†	-51.7	10.2	1.9232 µg/L	1.9232 ppb	06:53:46
3	Ca 317.933Radial†	620.5	75.1	4.1845 µg/L	4.1845 ppb	06:53:46
3	Fe 238.204 Radial†	216.2	73.4	4.5263 µg/L	4.5263 ppb	06:53:46
3	K 766.490 Radial†	1766.2	264.7	96.906 µg/L	96.906 ppb	06:53:26
3	Mg 279.077 IEC†	171.5	-15.0	-5.6050 µg/L	-5.6050 ppb	06:53:46
3	Na 589.592 Radial†	1726.0	477.4	65.136 µg/L	65.136 ppb	06:53:26
3	Sr 421.552†	-147.2	-15.5	-0.0323 µg/L	-0.0323 ppb	06:53:26
3	Sc 361.383	1739482.2	1739482.2	101.24 %		06:54:39
3	Y 371.029	1036358.4	1036358.4	100.94 %		06:54:39
3	Ag 328.068†	4348.3	203.8	0.7416 µg/L	0.7416 ppb	06:54:41
3	As 188.979†	-11.6	8.8	2.6733 µg/L	2.6733 ppb	06:55:01
3	B 249.677†	3500.3	-48.4	-0.7140 µg/L	-0.7140 ppb	06:55:01
3	Ba 233.527†	-129.2	8.3	0.0326 µg/L	0.0326 ppb	06:55:01
3	Be 313.107†	-933.4	142.7	0.0379 µg/L	0.0379 ppb	06:54:41
3	Cd 226.502†	-123.7	-4.0	-0.0256 µg/L	-0.0256 ppb	06:55:01
3	Co 228.616†	-184.7	7.9	0.0972 µg/L	0.0972 ppb	06:55:01
3	Cr 267.716†	159.4	-21.1	-0.1630 µg/L	-0.1630 ppb	06:55:01
3	Cu 324.752†	3020.7	11.5	0.0429 µg/L	0.0429 ppb	06:54:41
3	Mn 257.610†	327.3	86.0	0.1066 µg/L	0.1066 ppb	06:55:01
3	Mo 202.031†	-39.0	-18.5	-0.5424 µg/L	-0.5424 ppb	06:55:01
3	Ni 231.604†	-116.1	-38.2	-0.4397 µg/L	-0.4397 ppb	06:55:01
3	P 214.914†	-19.9	-1.7	-0.3559 µg/L	-0.3559 ppb	06:55:01
3	Pb 220.353†	78.3	-9.1	-0.5065 µg/L	-0.5065 ppb	06:55:01
3	S 181.975 Axial†	111.6	5.2	3.8338 µg/L	3.8338 ppb	06:55:01
3	Sb 206.836†	81.6	-0.2	-0.0275 µg/L	-0.0275 ppb	06:55:01
3	Se 196.026†	5.2	-10.2	-3.68 µg/L	-3.68 ppb	06:55:01
3	SiO2†	1803.0	5.6	0.5590 µg/L	0.5590 ppb	06:55:01
3	Si 251.611†	1132.3	281.9	4.1624 µg/L	4.1624 ppb	06:54:41
3	Sn 189.927†	0.1	1.2	0.0775 µg/L	0.0775 ppb	06:55:01
3	Ti 334.940†	1053.6	88.1	0.0842 µg/L	0.0842 ppb	06:54:41
3	Tl 190.801†	-105.8	12.2	1.4893 µg/L	1.4893 ppb	06:55:01
3	U 409.014†	-325.3	-51.5	-3.0531 µg/L	-3.0531 ppb	06:54:41
3	V 292.402†	251.0	-155.8	-0.7691 µg/L	-0.7691 ppb	06:54:41
3	Zn 213.857†	649.7	77.3	0.4369 µg/L	0.4369 ppb	06:55:01

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1741073.3	101.33 %	0.467			0.46%
Sc RADIAL	143874.8	98.6 %	0.85			0.86%
Y 371.029	1037302.1	101.03 %	0.440			0.44%
Ag 328.068†	-19.8	-0.0851 µg/L	0.71750	-0.0851 ppb	0.71750	843.15%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.3	0.0729 µg/L	1.61581	0.0729 ppb	1.61581	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.5	1.6634 µg/L	2.11924	1.6634 ppb	2.11924	127.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-41.1	-0.6066 µg/L	0.48430	-0.6066 ppb	0.48430	79.84%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.7	0.0589 µg/L	0.05582	0.0589 ppb	0.05582	94.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	114.4	0.0290 µg/L	0.01494	0.0290 ppb	0.01494	51.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	74.3	4.1389 µg/L	0.10460	4.1389 ppb	0.10460	2.53%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-5.8	-0.0368 µg/L	0.01731	-0.0368 ppb	0.01731	47.05%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	14.3	0.1768 µg/L	0.09071	0.1768 ppb	0.09071	51.30%

Cr	267.716†	14.0	0.1151 µg/L	0.24835	0.1151 ppb	0.24835	215.69%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-11.0	-0.0480 µg/L	0.11290	-0.0480 ppb	0.11290	235.07%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	74.8	4.6120 µg/L	0.74173	4.6120 ppb	0.74173	16.08%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	259.7	95.073 µg/L	15.4520	95.073 ppb	15.4520	16.25%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-9.1	-3.3855 µg/L	2.31885	-3.3855 ppb	2.31885	68.49%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	105.4	0.1306 µg/L	0.03271	0.1306 ppb	0.03271	25.06%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-12.5	-0.3682 µg/L	0.16075	-0.3682 ppb	0.16075	43.65%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	532.3	72.632 µg/L	12.9611	72.632 ppb	12.9611	17.84%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-20.5	-0.2356 µg/L	0.17715	-0.2356 ppb	0.17715	75.20%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.2	0.0521 µg/L	0.36541	0.0521 ppb	0.36541	701.97%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-8.9	-0.4944 µg/L	0.50904	-0.4944 ppb	0.50904	102.97%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.4	-0.2785 µg/L	6.34683	-0.2785 ppb	6.34683	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-4.7	-0.5632 µg/L	0.48593	-0.5632 ppb	0.48593	86.28%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-6.9	-2.48 µg/L	1.540	-2.48 ppb	1.540	62.03%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		26.8	2.6219 µg/L	1.78796	2.6219 ppb	1.78796	68.19%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	217.7	3.2131 µg/L	0.99909	3.2131 ppb	0.99909	31.09%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	3.6	0.2246 µg/L	0.27185	0.2246 ppb	0.27185	121.04%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-23.6	-0.0492 µg/L	0.01953	-0.0492 ppb	0.01953	39.72%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	127.0	0.1219 µg/L	0.06963	0.1219 ppb	0.06963	57.13%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.8	0.5828 µg/L	1.53292	0.5828 ppb	1.53292	263.02%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-121.7	-7.1289 µg/L	4.39443	-7.1289 ppb	4.39443	61.64%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-46.6	-0.2361 µg/L	0.63031	-0.2361 ppb	0.63031	267.01%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	55.5	0.3129 µg/L	0.12957	0.3129 ppb	0.12957	41.41%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: 248000004|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 310

Date Collected: 4/1/2010 6:55:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248000004|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	142870.7	142870.7	97.9 %		06:55:40
1	Al 396.153Radial†	84479.1	86351.1	16009 µg/L	16009 ppb	06:55:40
1	Ca 317.933Radial†	95958.0	97452.0	5428.5 µg/L	5428.5 ppb	06:55:42
1	Fe 238.204 Radial†	954224.7	974507.6	60063 µg/L	60063 ppb	06:55:40
1	K 766.490 Radial†	15573.9	14362.6	5252.9 µg/L	5252.9 ppb	06:55:42
1	Mg 279.077 IEC†	4982.5	4898.4	1773.6 µg/L	1773.6 ppb	06:55:42
1	Na 589.592 Radial†	31149.2	30525.4	4165.5 µg/L	4165.5 ppb	06:55:42
1	Sr 421.552†	8373.0	8687.5	18.018 µg/L	18.018 ppb	06:55:42
1	Sc 361.383	1746222.5	1746222.5	101.63 %		06:55:55
1	Y 371.029	1425370.6	1425370.6	138.83 %		06:55:55
1	Ag 328.068†	3912.4	-241.8	-2.2711 µg/L	-2.2711 ppb	06:55:57
1	As 188.979†	8.0	28.2	22.368 µg/L	22.368 ppb	06:56:17
1	B 249.677†	3896.4	328.1	4.8055 µg/L	4.8055 ppb	06:55:57
1	Ba 233.527†	38372.4	37892.9	151.95 µg/L	151.95 ppb	06:55:57
1	Be 313.107†	26663.8	27300.9	7.3218 µg/L	7.3218 ppb	06:55:57
1	Cd 226.502†	957.9	1060.7	0.3190 µg/L	0.3190 ppb	06:56:17
1	Co 228.616†	587.7	768.6	6.5058 µg/L	6.5058 ppb	06:56:17
1	Cr 267.716†	4908.2	4651.0	38.105 µg/L	38.105 ppb	06:55:57
1	Cu 324.752†	4250.5	1210.2	13.200 µg/L	13.200 ppb	06:55:57
1	Mn 257.610†	2252995.1	2216625.6	2742.4 µg/L	2742.4 ppb	06:55:55
1	Mo 202.031†	76.4	95.3	5.2186 µg/L	5.2186 ppb	06:56:17
1	Ni 231.604†	1721.2	1770.1	20.382 µg/L	20.382 ppb	06:56:17
1	P 214.914†	1848.7	1837.0	355.78 µg/L	355.78 ppb	06:56:17
1	Pb 220.353†	564.3	468.9	29.190 µg/L	29.190 ppb	06:56:17
1	S 181.975 Axial†	122.8	15.7	11.717 µg/L	11.717 ppb	06:56:17
1	Sb 206.836†	74.7	-7.3	-2.1306 µg/L	-2.1306 ppb	06:56:17
1	Se 196.026†	-33.2	-48.0	3.15 µg/L	3.15 ppb	06:56:17
1	SiO2†	722735.7	709369.6	69335 µg/L	69335 ppb	06:55:55
1	Si 251.611†	2218300.4	2181888.1	32167 µg/L	32167 ppb	06:55:55
1	Sn 189.927†	480.9	474.3	38.924 µg/L	38.924 ppb	06:56:17
1	Ti 334.940†	3019363.2	2969988.0	2774.9 µg/L	2774.9 ppb	06:55:55
1	Tl 190.801†	-441.8	-318.0	-3.9556 µg/L	-3.9556 ppb	06:56:17
1	U 409.014†	-6697.8	-6320.5	-363.49 µg/L	-363.49 ppb	06:55:55
1	V 292.402†	6797.6	6284.8	21.686 µg/L	21.686 ppb	06:55:57
1	Zn 213.857†	82016.8	80137.1	445.34 µg/L	445.34 ppb	06:55:57
2	Sc RADIAL	143549.0	143549.0	98.4 %		06:55:44
2	Al 396.153Radial†	84748.2	86217.0	15984 µg/L	15984 ppb	06:55:44
2	Ca 317.933Radial†	95432.1	96454.2	5372.9 µg/L	5372.9 ppb	06:55:46
2	Fe 238.204 Radial†	957628.3	973362.6	59992 µg/L	59992 ppb	06:55:44
2	K 766.490 Radial†	15264.5	13972.9	5110.3 µg/L	5110.3 ppb	06:55:46
2	Mg 279.077 IEC†	4956.7	4848.2	1755.0 µg/L	1755.0 ppb	06:55:46
2	Na 589.592 Radial†	30784.8	30004.6	4094.4 µg/L	4094.4 ppb	06:55:46
2	Sr 421.552†	8284.4	8557.1	17.748 µg/L	17.748 ppb	06:55:46
2	Sc 361.383	1755943.1	1755943.1	102.20 %		06:56:19
2	Y 371.029	1434465.7	1434465.7	139.72 %		06:56:19
2	Ag 328.068†	4531.3	342.5	-0.1118 µg/L	-0.1118 ppb	06:56:21
2	As 188.979†	5.6	25.8	21.624 µg/L	21.624 ppb	06:56:41
2	B 249.677†	3781.5	194.4	2.8324 µg/L	2.8324 ppb	06:56:21
2	Ba 233.527†	38839.3	38140.7	152.95 µg/L	152.95 ppb	06:56:21
2	Be 313.107†	27076.7	27559.6	7.3913 µg/L	7.3913 ppb	06:56:21
2	Cd 226.502†	928.1	1026.3	0.1117 µg/L	0.1117 ppb	06:56:41
2	Co 228.616†	618.6	795.6	6.8445 µg/L	6.8445 ppb	06:56:41
2	Cr 267.716†	5032.0	4745.3	38.842 µg/L	38.842 ppb	06:56:21
2	Cu 324.752†	4328.1	1262.9	13.391 µg/L	13.391 ppb	06:56:21
2	Mn 257.610†	2275596.7	2226469.4	2754.6 µg/L	2754.6 ppb	06:56:19
2	Mo 202.031†	93.2	111.3	5.6872 µg/L	5.6872 ppb	06:56:41
2	Ni 231.604†	1729.7	1769.1	20.369 µg/L	20.369 ppb	06:56:41
2	P 214.914†	1836.3	1814.8	351.07 µg/L	351.07 ppb	06:56:41
2	Pb 220.353†	595.2	496.0	30.723 µg/L	30.723 ppb	06:56:41

2	S 181.975 Axial†	117.6	10.0	7.4485 µg/L	7.4485 ppb	06:56:41
2	Sb 206.836†	70.9	-11.4	-2.6256 µg/L	-2.6256 ppb	06:56:41
2	Se 196.026†	-26.0	-40.7	5.73 µg/L	5.73 ppb	06:56:41
2	SiO2†	729283.2	711839.6	69576 µg/L	69576 ppb	06:56:19
2	Si 251.611†	2238448.2	2189519.7	32280 µg/L	32280 ppb	06:56:19
2	Sn 189.927†	473.3	464.3	38.336 µg/L	38.336 ppb	06:56:41
2	Ti 334.940†	3048009.5	2981572.1	2785.7 µg/L	2785.7 ppb	06:56:19
2	Tl 190.801†	-453.6	-327.2	-4.9437 µg/L	-4.9437 ppb	06:56:41
2	U 409.014†	-6791.6	-6375.8	-366.63 µg/L	-366.63 ppb	06:56:19
2	V 292.402†	6856.5	6305.4	21.790 µg/L	21.790 ppb	06:56:21
2	Zn 213.857†	82844.5	80500.2	447.39 µg/L	447.39 ppb	06:56:21
3	Sc RADIAL	144410.6	144410.6	99.0 %		06:55:49
3	Al 396.153Radial†	85170.9	86130.1	15968 µg/L	15968 ppb	06:55:49
3	Ca 317.933Radial†	95907.8	96356.1	5367.4 µg/L	5367.4 ppb	06:55:51
3	Fe 238.204 Radial†	964730.4	974731.1	60076 µg/L	60076 ppb	06:55:49
3	K 766.490 Radial†	15505.0	14123.3	5165.4 µg/L	5165.4 ppb	06:55:51
3	Mg 279.077 IEC†	5057.3	4919.7	1781.6 µg/L	1781.6 ppb	06:55:51
3	Na 589.592 Radial†	31229.3	30267.0	4130.2 µg/L	4130.2 ppb	06:55:51
3	Sr 421.552†	8399.8	8623.5	17.886 µg/L	17.886 ppb	06:55:51
3	Sc 361.383	1762249.7	1762249.7	102.56 %		06:56:44
3	Y 371.029	1439308.5	1439308.5	140.19 %		06:56:44
3	Ag 328.068†	4225.1	28.1	-1.2615 µg/L	-1.2615 ppb	06:56:46
3	As 188.979†	-0.5	19.9	19.840 µg/L	19.840 ppb	06:57:06
3	B 249.677†	3901.4	298.0	4.3623 µg/L	4.3623 ppb	06:56:46
3	Ba 233.527†	39232.1	38387.7	153.94 µg/L	153.94 ppb	06:56:46
3	Be 313.107†	27634.5	28008.7	7.5146 µg/L	7.5146 ppb	06:56:46
3	Cd 226.502†	929.1	1024.1	0.0887 µg/L	0.0887 ppb	06:57:06
3	Co 228.616†	593.3	768.7	6.5091 µg/L	6.5091 ppb	06:57:06
3	Cr 267.716†	4995.2	4691.9	38.426 µg/L	38.426 ppb	06:56:46
3	Cu 324.752†	4287.8	1208.4	13.195 µg/L	13.195 ppb	06:56:46
3	Mn 257.610†	2276166.6	2219056.4	2745.4 µg/L	2745.4 ppb	06:56:44
3	Mo 202.031†	75.6	93.8	5.1764 µg/L	5.1764 ppb	06:57:06
3	Ni 231.604†	1749.0	1781.8	20.516 µg/L	20.516 ppb	06:57:06
3	P 214.914†	1814.6	1787.2	345.11 µg/L	345.11 ppb	06:57:06
3	Pb 220.353†	617.5	515.7	31.802 µg/L	31.802 ppb	06:57:06
3	S 181.975 Axial†	129.5	21.2	15.751 µg/L	15.751 ppb	06:57:06
3	Sb 206.836†	69.0	-13.5	-2.8782 µg/L	-2.8782 ppb	06:57:06
3	Se 196.026†	-46.4	-60.5	-1.40 µg/L	-1.40 ppb	06:57:06
3	SiO2†	730049.1	710032.5	69399 µg/L	69399 ppb	06:56:44
3	Si 251.611†	2240583.1	2183762.7	32195 µg/L	32195 ppb	06:56:44
3	Sn 189.927†	465.5	455.0	37.727 µg/L	37.727 ppb	06:57:06
3	Ti 334.940†	3049266.8	2972124.4	2776.9 µg/L	2776.9 ppb	06:56:44
3	Tl 190.801†	-446.5	-318.6	-3.9948 µg/L	-3.9948 ppb	06:57:06
3	U 409.014†	-6758.1	-6319.3	-363.36 µg/L	-363.36 ppb	06:56:44
3	V 292.402†	7026.5	6447.2	22.476 µg/L	22.476 ppb	06:56:46
3	Zn 213.857†	83925.6	81264.2	451.67 µg/L	451.67 ppb	06:56:46

Mean Data: 248000004|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1754805.1	102.13 %	0.470			0.46%
Sc RADIAL	143610.1	98.4 %	0.53			0.54%
Y 371.029	1433048.3	139.58 %	0.689			0.49%
Ag 328.068†	43.0	-1.2148 µg/L	1.08042	-1.2148 ppb	1.08042	88.94%
Al 396.153Radial†	86232.7	15987 µg/L	20.6	15987 ppb	20.6	0.13%
As 188.979†	24.6	21.277 µg/L	1.2993	21.277 ppb	1.2993	6.11%
B 249.677†	273.5	4.0000 µg/L	1.03520	4.0000 ppb	1.03520	25.88%
Ba 233.527†	38140.4	152.94 µg/L	0.997	152.94 ppb	0.997	0.65%
Be 313.107†	27623.1	7.4092 µg/L	0.09762	7.4092 ppb	0.09762	1.32%
Ca 317.933Radial†	96754.1	5389.6 µg/L	33.78	5389.6 ppb	33.78	0.63%
Cd 226.502†	1037.0	0.1731 µg/L	0.12684	0.1731 ppb	0.12684	73.28%
Co 228.616†	777.7	6.6198 µg/L	0.19459	6.6198 ppb	0.19459	2.94%
Cr 267.716†	4696.0	38.458 µg/L	0.3691	38.458 ppb	0.3691	0.96%
Cu 324.752†	1227.1	13.262 µg/L	0.1119	13.262 ppb	0.1119	0.84%
Fe 238.204 Radial†	974200.4	60044 µg/L	45.2	60044 ppb	45.2	0.08%
K 766.490 Radial†	14152.9	5176.2 µg/L	71.93	5176.2 ppb	71.93	1.39%
Mg 279.077 IEC†	4888.8	1770.1 µg/L	13.65	1770.1 ppb	13.65	0.77%
Mn 257.610†	2220717.2	2747.5 µg/L	6.35	2747.5 ppb	6.35	0.23%
Mo 202.031†	100.1	5.3608 µg/L	0.28352	5.3608 ppb	0.28352	5.29%
Na 589.592 Radial†	30265.7	4130.1 µg/L	35.51	4130.1 ppb	35.51	0.86%

Ni 231.604†	1773.7	20.422 µg/L	0.0815	20.422 ppb	0.0815	0.40%
P 214.914†	1813.0	350.65 µg/L	5.347	350.65 ppb	5.347	1.52%
Pb 220.353†	493.5	30.572 µg/L	1.3127	30.572 ppb	1.3127	4.29%
S 181.975 Axial†	15.6	11.639 µg/L	4.1519	11.639 ppb	4.1519	35.67%
Sb 206.836†	-10.7	-2.5448 µg/L	0.38032	-2.5448 ppb	0.38032	14.94%
Se 196.026†	-49.7	2.49 µg/L	3.608	2.49 ppb	3.608	144.81%
SiO2†	710413.9	69437 µg/L	124.9	69437 ppb	124.9	0.18%
Si 251.611†	2185056.9	32214 µg/L	58.6	32214 ppb	58.6	0.18%
Sn 189.927†	464.5	38.329 µg/L	0.5982	38.329 ppb	0.5982	1.56%
Sr 421.552†	8622.7	17.884 µg/L	0.1354	17.884 ppb	0.1354	0.76%
Ti 334.940†	2974561.5	2779.2 µg/L	5.76	2779.2 ppb	5.76	0.21%
Tl 190.801†	-321.3	-4.2980 µg/L	0.55953	-4.2980 ppb	0.55953	13.02%
U 409.014†	-6338.5	-364.49 µg/L	1.849	-364.49 ppb	1.849	0.51%
Concentration less than lower limit for U 409.014.						
V 292.402†	6345.8	21.984 µg/L	0.4291	21.984 ppb	0.4291	1.95%
Zn 213.857†	80633.8	448.13 µg/L	3.230	448.13 ppb	3.230	0.72%

Sequence No.: 15

Sample ID: 248000005|959093|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 311

Date Collected: 4/1/2010 6:57:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248000005|959093|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146189.3	146189.3	100 %			06:57:43
1	Al 396.153Radial†	168729.2	168492.9	31238 µg/L		31238 ppb	06:57:43
1	Ca 317.933Radial†	93253.8	92527.6	5154.2 µg/L		5154.2 ppb	06:57:45
1	Fe 238.204 Radial†	1022471.5	1020508.3	62898 µg/L		62898 ppb	06:57:43
1	K 766.490 Radial†	13302.5	11734.1	4287.4 µg/L		4287.4 ppb	06:57:45
1	Mg 279.077 IEC†	8471.0	8265.2	3025.6 µg/L		3025.6 ppb	06:57:45
1	Na 589.592 Radial†	22535.3	21204.5	2893.0 µg/L		2893.0 ppb	06:57:45
1	Sr 421.552†	12616.8	12729.7	26.424 µg/L		26.424 ppb	06:57:45
1	Sc 361.383	1753455.8	1753455.8	102.05 %			06:57:58
1	Y 371.029	1379773.0	1379773.0	134.39 %			06:57:58
1	Ag 328.068†	3970.7	-200.5	-1.9703 µg/L		-1.9703 ppb	06:57:58
1	As 188.979†	9.5	29.7	23.686 µg/L		23.686 ppb	06:58:18
1	B 249.677†	3885.7	301.7	4.4112 µg/L		4.4112 ppb	06:57:58
1	Ba 233.527†	70587.9	69305.2	278.50 µg/L		278.50 ppb	06:57:58
1	Be 313.107†	33301.0	33696.5	9.0618 µg/L		9.0618 ppb	06:57:58
1	Cd 226.502†	980.5	1079.0	0.1431 µg/L		0.1431 ppb	06:58:18
1	Co 228.616†	713.4	889.4	7.9776 µg/L		7.9776 ppb	06:58:18
1	Cr 267.716†	8412.9	8065.2	65.003 µg/L		65.003 ppb	06:58:18
1	Cu 324.752†	4709.0	1642.2	15.322 µg/L		15.322 ppb	06:57:58
1	Mn 257.610†	2041299.8	2000039.8	2474.4 µg/L		2474.4 ppb	06:57:58
1	Mo 202.031†	59.9	78.8	4.8717 µg/L		4.8717 ppb	06:58:18
1	Ni 231.604†	3181.8	3194.4	36.781 µg/L		36.781 ppb	06:58:18
1	P 214.914†	2119.1	2094.5	412.11 µg/L		412.11 ppb	06:58:18
1	Pb 220.353†	563.2	465.5	29.778 µg/L		29.778 ppb	06:58:18
1	S 181.975 Axial†	242.1	132.1	98.149 µg/L		98.149 ppb	06:58:18
1	Sb 206.836†	71.7	-10.6	-3.0977 µg/L		-3.0977 ppb	06:58:18
1	Se 196.026†	-52.2	-66.4	-2.55 µg/L		-2.55 ppb	06:58:18
1	SiO2†	833890.3	815356.8	79694 µg/L		79694 ppb	06:57:58
1	Si 251.611†	2555027.0	2502843.6	36899 µg/L		36899 ppb	06:57:58
1	Sn 189.927†	150.0	148.1	18.383 µg/L		18.383 ppb	06:58:18
1	Ti 334.940†	2965566.7	2905017.0	2714.1 µg/L		2714.1 ppb	06:57:58
1	Tl 190.801†	-457.5	-331.6	-6.8784 µg/L		-6.8784 ppb	06:58:18
1	U 409.014†	-6809.6	-6402.8	-370.31 µg/L		-370.31 ppb	06:57:58
1	V 292.402†	8362.5	7790.6	28.896 µg/L		28.896 ppb	06:58:18
1	Zn 213.857†	79046.7	76893.7	426.95 µg/L		426.95 ppb	06:57:58
2	Sc RADIAL	144915.6	144915.6	99.3 %			06:57:47
2	Al 396.153Radial†	167642.8	168879.3	31310 µg/L		31310 ppb	06:57:47
2	Ca 317.933Radial†	93788.0	93883.8	5229.7 µg/L		5229.7 ppb	06:57:49
2	Fe 238.204 Radial†	1015648.4	1022608.4	63027 µg/L		63027 ppb	06:57:47
2	K 766.490 Radial†	13305.5	11853.8	4331.2 µg/L		4331.2 ppb	06:57:49
2	Mg 279.077 IEC†	8497.2	8365.9	3063.0 µg/L		3063.0 ppb	06:57:49
2	Na 589.592 Radial†	22474.8	21341.3	2911.6 µg/L		2911.6 ppb	06:57:49
2	Sr 421.552†	12769.2	12993.9	26.973 µg/L		26.973 ppb	06:57:49
2	Sc 361.383	1741646.7	1741646.7	101.36 %			06:58:21
2	Y 371.029	1371556.7	1371556.7	133.59 %			06:58:21
2	Ag 328.068†	4101.7	-44.9	-1.3856 µg/L		-1.3856 ppb	06:58:21
2	As 188.979†	16.3	36.5	25.774 µg/L		25.774 ppb	06:58:41
2	B 249.677†	3926.2	367.5	5.3812 µg/L		5.3812 ppb	06:58:21
2	Ba 233.527†	70126.7	69319.2	278.55 µg/L		278.55 ppb	06:58:21
2	Be 313.107†	33292.3	33909.2	9.1213 µg/L		9.1213 ppb	06:58:21
2	Cd 226.502†	987.8	1092.7	0.2148 µg/L		0.2148 ppb	06:58:41
2	Co 228.616†	708.6	889.4	7.9709 µg/L		7.9709 ppb	06:58:41
2	Cr 267.716†	8416.2	8124.4	65.468 µg/L		65.468 ppb	06:58:41
2	Cu 324.752†	4842.4	1805.1	15.980 µg/L		15.980 ppb	06:58:21
2	Mn 257.610†	2023170.1	1995716.7	2469.0 µg/L		2469.0 ppb	06:58:21
2	Mo 202.031†	33.8	53.4	4.1325 µg/L		4.1325 ppb	06:58:41
2	Ni 231.604†	3162.2	3196.1	36.801 µg/L		36.801 ppb	06:58:41
2	P 214.914†	2131.6	2120.9	417.67 µg/L		417.67 ppb	06:58:41
2	Pb 220.353†	613.0	518.4	32.719 µg/L		32.719 ppb	06:58:41

2	S 181.975 Axial†	222.6	114.6	85.101 µg/L	85.101 ppb	06:58:41
2	Sb 206.836†	84.2	2.2	-1.5926 µg/L	-1.5926 ppb	06:58:41
2	Se 196.026†	-47.1	-61.8	-0.815 µg/L	-0.815 ppb	06:58:41
2	SiO2†	825715.6	812832.5	79448 µg/L	79448 ppb	06:58:21
2	Si 251.611†	2530282.3	2495407.7	36789 µg/L	36789 ppb	06:58:21
2	Sn 189.927†	146.5	145.7	18.229 µg/L	18.229 ppb	06:58:41
2	Ti 334.940†	2944390.7	2903829.5	2713.0 µg/L	2713.0 ppb	06:58:21
2	Tl 190.801†	-440.2	-317.6	-5.1767 µg/L	-5.1767 ppb	06:58:41
2	U 409.014†	-6673.6	-6313.9	-365.15 µg/L	-365.15 ppb	06:58:21
2	V 292.402†	8364.1	7847.8	29.160 µg/L	29.160 ppb	06:58:41
2	Zn 213.857†	78302.1	76684.4	425.76 µg/L	425.76 ppb	06:58:21
3	Sc RADIAL	146703.8	146703.8	101 %		06:57:51
3	Al 396.153Radial†	169143.4	168314.2	31205 µg/L	31205 ppb	06:57:51
3	Ca 317.933Radial†	93474.4	92420.6	5148.2 µg/L	5148.2 ppb	06:57:53
3	Fe 238.204 Radial†	1025004.7	1019448.6	62833 µg/L	62833 ppb	06:57:51
3	K 766.490 Radial†	13263.4	11648.7	4256.1 µg/L	4256.1 ppb	06:57:53
3	Mg 279.077 IEC†	8476.5	8241.1	3016.7 µg/L	3016.7 ppb	06:57:53
3	Na 589.592 Radial†	22494.1	21084.7	2876.6 µg/L	2876.6 ppb	06:57:53
3	Sr 421.552†	12644.3	12712.9	26.389 µg/L	26.389 ppb	06:57:53
3	Sc 361.383	1742034.1	1742034.1	101.39 %		06:58:43
3	Y 371.029	1371382.1	1371382.1	133.57 %		06:58:43
3	Ag 328.068†	4242.4	93.0	-0.8721 µg/L	-0.8721 ppb	06:58:43
3	As 188.979†	3.8	24.1	22.001 µg/L	22.001 ppb	06:59:03
3	B 249.677†	3935.4	375.7	5.5020 µg/L	5.5020 ppb	06:58:43
3	Ba 233.527†	70080.3	69258.0	278.31 µg/L	278.31 ppb	06:58:43
3	Be 313.107†	33276.8	33886.5	9.1157 µg/L	9.1157 ppb	06:58:43
3	Cd 226.502†	979.5	1084.3	0.1826 µg/L	0.1826 ppb	06:59:03
3	Co 228.616†	713.1	893.6	8.0332 µg/L	8.0332 ppb	06:59:03
3	Cr 267.716†	8345.9	8053.2	64.902 µg/L	64.902 ppb	06:59:03
3	Cu 324.752†	4454.5	1421.4	14.461 µg/L	14.461 ppb	06:58:43
3	Mn 257.610†	2025104.4	1997180.6	2470.8 µg/L	2470.8 ppb	06:58:43
3	Mo 202.031†	57.2	76.5	4.8004 µg/L	4.8004 ppb	06:59:03
3	Ni 231.604†	3143.9	3177.4	36.586 µg/L	36.586 ppb	06:59:03
3	P 214.914†	2096.6	2085.8	410.31 µg/L	410.31 ppb	06:59:03
3	Pb 220.353†	591.6	497.1	31.534 µg/L	31.534 ppb	06:59:03
3	S 181.975 Axial†	233.6	125.3	93.090 µg/L	93.090 ppb	06:59:03
3	Sb 206.836†	73.2	-8.6	-2.8614 µg/L	-2.8614 ppb	06:59:03
3	Se 196.026†	-36.7	-51.5	2.83 µg/L	2.83 ppb	06:59:03
3	SiO2†	826738.1	813659.9	79528 µg/L	79528 ppb	06:58:43
3	Si 251.611†	2533007.6	2497540.6	36821 µg/L	36821 ppb	06:58:43
3	Sn 189.927†	147.8	146.9	18.304 µg/L	18.304 ppb	06:59:03
3	Ti 334.940†	2944851.5	2903637.9	2712.8 µg/L	2712.8 ppb	06:58:43
3	Tl 190.801†	-429.9	-307.3	-3.9156 µg/L	-3.9156 ppb	06:59:03
3	U 409.014†	-6638.9	-6278.2	-363.02 µg/L	-363.02 ppb	06:58:43
3	V 292.402†	8323.6	7806.0	28.983 µg/L	28.983 ppb	06:59:03
3	Zn 213.857†	78267.9	76633.4	425.49 µg/L	425.49 ppb	06:58:43

Mean Data: 248000005|959093|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745712.2	101.60 %	0.390			0.38%
Sc RADIAL	145936.2	100 %	0.6			0.63%
Y 371.029	1374237.3	133.85 %	0.467			0.35%
Ag 328.068†	-50.8	-1.4094 µg/L	0.54949	-1.4094 ppb	0.54949	38.99%
Al 396.153Radial†	168562.1	31251 µg/L	53.6	31251 ppb	53.6	0.17%
As 188.979†	30.1	23.820 µg/L	1.8899	23.820 ppb	1.8899	7.93%
B 249.677†	348.3	5.0982 µg/L	0.59798	5.0982 ppb	0.59798	11.73%
Ba 233.527†	69294.1	278.45 µg/L	0.128	278.45 ppb	0.128	0.05%
Be 313.107†	33830.7	9.0996 µg/L	0.03286	9.0996 ppb	0.03286	0.36%
Ca 317.933Radial†	92944.0	5177.3 µg/L	45.43	5177.3 ppb	45.43	0.88%
Cd 226.502†	1085.3	0.1801 µg/L	0.03591	0.1801 ppb	0.03591	19.93%
Co 228.616†	890.8	7.9939 µg/L	0.03420	7.9939 ppb	0.03420	0.43%
Cr 267.716†	8081.0	65.125 µg/L	0.3020	65.125 ppb	0.3020	0.46%
Cu 324.752†	1622.9	15.254 µg/L	0.7617	15.254 ppb	0.7617	4.99%
Fe 238.204 Radial†	1020855.1	62919 µg/L	99.1	62919 ppb	99.1	0.16%
K 766.490 Radial†	11745.5	4291.6 µg/L	37.69	4291.6 ppb	37.69	0.88%
Mg 279.077 IEC†	8290.8	3035.1 µg/L	24.58	3035.1 ppb	24.58	0.81%
Mn 257.610†	1997645.7	2471.4 µg/L	2.72	2471.4 ppb	2.72	0.11%
Mo 202.031†	69.6	4.6015 µg/L	0.40777	4.6015 ppb	0.40777	8.86%
Na 589.592 Radial†	21210.1	2893.7 µg/L	17.51	2893.7 ppb	17.51	0.60%

Ni 231.604†	3189.3	36.723 µg/L	0.1189	36.723 ppb	0.1189	0.32%
P 214.914†	2100.4	413.36 µg/L	3.841	413.36 ppb	3.841	0.93%
Pb 220.353†	493.7	31.343 µg/L	1.4793	31.343 ppb	1.4793	4.72%
S 181.975 Axial†	124.0	92.113 µg/L	6.5784	92.113 ppb	6.5784	7.14%
Sb 206.836†	-5.7	-2.5172 µg/L	0.80939	-2.5172 ppb	0.80939	32.15%
Se 196.026†	-59.9	-0.178 µg/L	2.7489	-0.178 ppb	2.7489	>999.9%
SiO2†	813949.7	79557 µg/L	125.8	79557 ppb	125.8	0.16%
Si 251.611†	2498597.3	36836 µg/L	56.4	36836 ppb	56.4	0.15%
Sn 189.927†	146.9	18.305 µg/L	0.0773	18.305 ppb	0.0773	0.42%
Sr 421.552†	12812.2	26.595 µg/L	0.3273	26.595 ppb	0.3273	1.23%
Ti 334.940†	2904161.5	2713.3 µg/L	0.70	2713.3 ppb	0.70	0.03%
Tl 190.801†	-318.8	-5.3236 µg/L	1.48683	-5.3236 ppb	1.48683	27.93%
U 409.014†	-6331.6	-366.16 µg/L	3.744	-366.16 ppb	3.744	1.02%
Concentration less than lower limit for U 409.014.						
V 292.402†	7814.8	29.013 µg/L	0.1345	29.013 ppb	0.1345	0.46%
Zn 213.857†	76737.1	426.07 µg/L	0.775	426.07 ppb	0.775	0.18%

Sequence No.: 24

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 4/1/2010 7:15:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	143231.7	143231.7	98.2 %			07:16:18
1	Al 396.153Radial†	25811.0	26360.4	4865.8 µg/L		4865.8 ppb	07:16:18
1	Ca 317.933Radial†	83249.0	84256.6	4693.4 µg/L		4693.4 ppb	07:16:18
1	Fe 238.204 Radial†	75045.0	76310.5	4703.3 µg/L		4703.3 ppb	07:16:18
1	K 766.490 Radial†	14476.5	13204.4	4830.5 µg/L		4830.5 ppb	07:16:18
1	Mg 279.077 IEC†	12766.9	12816.7	4782.5 µg/L		4782.5 ppb	07:16:18
1	Na 589.592 Radial†	69514.8	69533.5	9494.8 µg/L		9494.8 ppb	07:16:18
1	Sr 421.552†	225787.8	230176.3	478.49 µg/L		478.49 ppb	07:16:16
1	Sc 361.383	1750472.3	1750472.3	101.88 %			07:16:31
1	Y 371.029	1032081.8	1032081.8	100.53 %			07:16:31
1	Ag 328.068†	130816.8	124315.0	466.14 µg/L		466.14 ppb	07:16:31
1	As 188.979†	1591.5	1582.5	485.34 µg/L		485.34 ppb	07:16:51
1	B 249.677†	35273.1	31117.3	457.31 µg/L		457.31 ppb	07:16:31
1	Ba 233.527†	117743.1	115709.4	466.65 µg/L		466.65 ppb	07:16:31
1	Be 313.107†	1769884.6	1738336.9	473.44 µg/L		473.44 ppb	07:16:31
1	Cd 226.502†	75237.5	73969.4	461.75 µg/L		461.75 ppb	07:16:31
1	Co 228.616†	38300.7	37785.3	466.46 µg/L		466.46 ppb	07:16:31
1	Cr 267.716†	60334.7	59044.4	462.32 µg/L		462.32 ppb	07:16:31
1	Cu 324.752†	124729.7	119459.2	465.67 µg/L		465.67 ppb	07:16:31
1	Mn 257.610†	386052.5	378701.8	468.37 µg/L		468.37 ppb	07:16:31
1	Mo 202.031†	15962.9	15688.8	461.50 µg/L		461.50 ppb	07:16:51
1	Ni 231.604†	41025.4	40346.0	464.56 µg/L		464.56 ppb	07:16:31
1	P 214.914†	10932.1	10748.7	2290.9 µg/L		2290.9 ppb	07:16:51
1	Pb 220.353†	8545.2	8301.4	464.89 µg/L		464.89 ppb	07:16:51
1	S 181.975 Axial†	1344.3	1214.5	905.73 µg/L		905.73 ppb	07:16:51
1	Sb 206.836†	4008.2	3853.5	459.12 µg/L		459.12 ppb	07:16:51
1	Se 196.026†	1297.1	1257.9	457 µg/L		457 ppb	07:16:51
1	SiO2†	52974.9	50223.4	4889.2 µg/L		4889.2 ppb	07:16:31
1	Si 251.611†	160634.4	156838.0	2303.1 µg/L		2303.1 ppb	07:16:31
1	Sn 189.927†	7507.2	7370.0	461.01 µg/L		461.01 ppb	07:16:51
1	Ti 334.940†	509488.3	499147.7	465.74 µg/L		465.74 ppb	07:16:31
1	Tl 190.801†	3735.0	3782.9	471.81 µg/L		471.81 ppb	07:16:51
1	U 409.014†	7000.5	7141.4	445.88 µg/L		445.88 ppb	07:16:31
1	V 292.402†	97221.7	95026.5	469.68 µg/L		469.68 ppb	07:16:31
1	Zn 213.857†	84347.9	82229.2	458.27 µg/L		458.27 ppb	07:16:31
2	Sc RADIAL	143830.0	143830.0	98.6 %			07:16:22
2	Al 396.153Radial†	25997.1	26439.8	4880.6 µg/L		4880.6 ppb	07:16:22
2	Ca 317.933Radial†	83529.5	84188.4	4689.6 µg/L		4689.6 ppb	07:16:22
2	Fe 238.204 Radial†	75506.4	76460.6	4712.6 µg/L		4712.6 ppb	07:16:22
2	K 766.490 Radial†	14487.3	13154.1	4812.0 µg/L		4812.0 ppb	07:16:22
2	Mg 279.077 IEC†	12725.8	12720.9	4746.8 µg/L		4746.8 ppb	07:16:22
2	Na 589.592 Radial†	69625.8	69351.5	9470.0 µg/L		9470.0 ppb	07:16:22
2	Sr 421.552†	226337.7	229777.2	477.66 µg/L		477.66 ppb	07:16:20
2	Sc 361.383	1752200.8	1752200.8	101.98 %			07:16:54
2	Y 371.029	1031083.0	1031083.0	100.43 %			07:16:54
2	Ag 328.068†	130131.1	123515.9	463.20 µg/L		463.20 ppb	07:16:54
2	As 188.979†	1570.4	1560.3	478.61 µg/L		478.61 ppb	07:17:14
2	B 249.677†	35303.3	31112.7	457.24 µg/L		457.24 ppb	07:16:54
2	Ba 233.527†	117702.2	115555.3	466.03 µg/L		466.03 ppb	07:16:54
2	Be 313.107†	1772824.2	1739505.8	473.77 µg/L		473.77 ppb	07:16:54
2	Cd 226.502†	75437.4	74092.5	462.51 µg/L		462.51 ppb	07:16:54
2	Co 228.616†	38435.2	37880.0	467.63 µg/L		467.63 ppb	07:16:54
2	Cr 267.716†	60494.4	59142.5	463.07 µg/L		463.07 ppb	07:16:54
2	Cu 324.752†	125065.3	119667.5	466.50 µg/L		466.50 ppb	07:16:54
2	Mn 257.610†	386854.1	379114.0	468.88 µg/L		468.88 ppb	07:16:54
2	Mo 202.031†	15890.6	15602.5	458.97 µg/L		458.97 ppb	07:17:14
2	Ni 231.604†	40997.7	40279.1	463.78 µg/L		463.78 ppb	07:16:54
2	P 214.914†	10932.4	10738.3	2288.7 µg/L		2288.7 ppb	07:17:14
2	Pb 220.353†	8481.9	8231.0	460.94 µg/L		460.94 ppb	07:17:14

2	S 181.975 Axial†	1343.4	1212.2	904.05 µg/L	904.05 ppb	07:17:14
2	Sb 206.836†	3985.9	3827.7	456.01 µg/L	456.01 ppb	07:17:14
2	Se 196.026†	1302.9	1262.3	458 µg/L	458 ppb	07:17:14
2	SiO2†	53203.1	50395.9	4906.1 µg/L	4906.1 ppb	07:16:54
2	Si 251.611†	160563.7	156613.1	2299.8 µg/L	2299.8 ppb	07:16:54
2	Sn 189.927†	7505.7	7361.2	460.47 µg/L	460.47 ppb	07:17:14
2	Ti 334.940†	509577.5	498741.9	465.36 µg/L	465.36 ppb	07:16:54
2	Tl 190.801†	3714.7	3759.3	468.90 µg/L	468.90 ppb	07:17:14
2	U 409.014†	7323.9	7451.8	464.00 µg/L	464.00 ppb	07:16:54
2	V 292.402†	97209.2	94920.0	469.15 µg/L	469.15 ppb	07:16:54
2	Zn 213.857†	84688.5	82481.6	459.69 µg/L	459.69 ppb	07:16:54
3	Sc RADIAL	145082.6	145082.6	99.4 %		07:16:26
3	Al 396.153Radial†	26074.1	26289.6	4852.5 µg/L	4852.5 ppb	07:16:26
3	Ca 317.933Radial†	84338.7	84270.6	4694.2 µg/L	4694.2 ppb	07:16:26
3	Fe 238.204 Radial†	76184.1	76480.8	4713.8 µg/L	4713.8 ppb	07:16:26
3	K 766.490 Radial†	14759.8	13301.2	4865.9 µg/L	4865.9 ppb	07:16:26
3	Mg 279.077 IEC†	12907.4	12792.0	4773.4 µg/L	4773.4 ppb	07:16:26
3	Na 589.592 Radial†	70316.5	69436.3	9481.5 µg/L	9481.5 ppb	07:16:26
3	Sr 421.552†	225883.1	227337.3	472.58 µg/L	472.58 ppb	07:16:24
3	Sc 361.383	1740208.6	1740208.6	101.28 %		07:17:17
3	Y 371.029	1024774.2	1024774.2	99.814 %		07:17:17
3	Ag 328.068†	129441.3	123714.1	463.91 µg/L	463.91 ppb	07:17:17
3	As 188.979†	1581.9	1582.2	485.25 µg/L	485.25 ppb	07:17:37
3	B 249.677†	35141.2	31191.2	458.40 µg/L	458.40 ppb	07:17:17
3	Ba 233.527†	116769.3	115429.5	465.53 µg/L	465.53 ppb	07:17:17
3	Be 313.107†	1754966.8	1733854.0	472.22 µg/L	472.22 ppb	07:17:17
3	Cd 226.502†	74790.7	73963.8	461.71 µg/L	461.71 ppb	07:17:17
3	Co 228.616†	37989.5	37699.7	465.40 µg/L	465.40 ppb	07:17:17
3	Cr 267.716†	59786.0	58851.9	460.81 µg/L	460.81 ppb	07:17:17
3	Cu 324.752†	124076.7	119536.5	465.97 µg/L	465.97 ppb	07:17:17
3	Mn 257.610†	383042.2	377964.4	467.45 µg/L	467.45 ppb	07:17:17
3	Mo 202.031†	15970.9	15789.2	464.45 µg/L	464.45 ppb	07:17:37
3	Ni 231.604†	40665.5	40228.1	463.20 µg/L	463.20 ppb	07:17:17
3	P 214.914†	10982.3	10861.5	2315.0 µg/L	2315.0 ppb	07:17:37
3	Pb 220.353†	8559.5	8364.9	468.44 µg/L	468.44 ppb	07:17:37
3	S 181.975 Axial†	1355.7	1233.5	919.92 µg/L	919.92 ppb	07:17:37
3	Sb 206.836†	3981.6	3850.4	458.82 µg/L	458.82 ppb	07:17:37
3	Se 196.026†	1286.4	1254.8	456 µg/L	456 ppb	07:17:37
3	SiO2†	52793.3	50350.8	4901.5 µg/L	4901.5 ppb	07:17:17
3	Si 251.611†	159252.9	156403.8	2296.6 µg/L	2296.6 ppb	07:17:17
3	Sn 189.927†	7511.8	7418.0	464.00 µg/L	464.00 ppb	07:17:37
3	Ti 334.940†	505621.1	498279.0	464.94 µg/L	464.94 ppb	07:17:17
3	Tl 190.801†	3705.1	3775.0	470.82 µg/L	470.82 ppb	07:17:37
3	U 409.014†	6917.7	7100.1	443.43 µg/L	443.43 ppb	07:17:17
3	V 292.402†	96535.4	94911.7	469.14 µg/L	469.14 ppb	07:17:17
3	Zn 213.857†	83785.0	82161.8	457.90 µg/L	457.90 ppb	07:17:17

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1747627.2	101.71 %	0.377			0.37%
Sc RADIAL	144048.1	98.7 %	0.65			0.66%
Y 371.029	1029313.0	100.26 %	0.386			0.38%
Ag 328.068†	123848.3	464.42 µg/L	1.536	464.42 ppb	1.536	0.33%
QC value within limits for Ag 328.068 Recovery = 92.88%						
Al 396.153Radial†	26363.3	4866.3 µg/L	14.06	4866.3 ppb	14.06	0.29%
QC value within limits for Al 396.153Radial Recovery = 97.33%						
As 188.979†	1575.0	483.07 µg/L	3.863	483.07 ppb	3.863	0.80%
QC value within limits for As 188.979 Recovery = 96.61%						
B 249.677†	31140.4	457.65 µg/L	0.653	457.65 ppb	0.653	0.14%
QC value within limits for B 249.677 Recovery = 91.53%						
Ba 233.527†	115564.7	466.07 µg/L	0.565	466.07 ppb	0.565	0.12%
QC value within limits for Ba 233.527 Recovery = 93.21%						
Be 313.107†	1737232.2	473.14 µg/L	0.815	473.14 ppb	0.815	0.17%
QC value within limits for Be 313.107 Recovery = 94.63%						
Ca 317.933Radial†	84238.5	4692.4 µg/L	2.45	4692.4 ppb	2.45	0.05%
QC value within limits for Ca 317.933Radial Recovery = 93.85%						
Cd 226.502†	74008.6	461.99 µg/L	0.454	461.99 ppb	0.454	0.10%
QC value within limits for Cd 226.502 Recovery = 92.40%						
Co 228.616†	37788.3	466.49 µg/L	1.113	466.49 ppb	1.113	0.24%

Cr	267.716†	59013.0	462.07 µg/L	1.151	462.07 ppb	1.151	0.25%
Cu	324.752†	119554.4	466.05 µg/L	0.418	466.05 ppb	0.418	0.09%
Fe	238.204 Radial†	76417.3	4709.9 µg/L	5.74	4709.9 ppb	5.74	0.12%
K	766.490 Radial†	13219.9	4836.1 µg/L	27.38	4836.1 ppb	27.38	0.57%
Mg	279.077 IEC†	12776.5	4767.6 µg/L	18.58	4767.6 ppb	18.58	0.39%
Mn	257.610†	378593.4	468.23 µg/L	0.721	468.23 ppb	0.721	0.15%
Mo	202.031†	15693.5	461.64 µg/L	2.746	461.64 ppb	2.746	0.59%
Na	589.592 Radial†	69440.4	9482.1 µg/L	12.43	9482.1 ppb	12.43	0.13%
Ni	231.604†	40284.4	463.85 µg/L	0.681	463.85 ppb	0.681	0.15%
P	214.914†	10782.8	2298.2 µg/L	14.60	2298.2 ppb	14.60	0.64%
Pb	220.353†	8299.1	464.75 µg/L	3.754	464.75 ppb	3.754	0.81%
S	181.975 Axial†	1220.1	909.90 µg/L	8.718	909.90 ppb	8.718	0.96%
Sb	206.836†	3843.9	457.98 µg/L	1.718	457.98 ppb	1.718	0.38%
Se	196.026†	1258.3	457 µg/L	1.4	457 ppb	1.4	0.30%
SiO2†		50323.4	4898.9 µg/L	8.76	4898.9 ppb	8.76	0.18%
Si	251.611†	156618.3	2299.8 µg/L	3.23	2299.8 ppb	3.23	0.14%
Sn	189.927†	7383.1	461.83 µg/L	1.904	461.83 ppb	1.904	0.41%
Sr	421.552†	229097.0	476.24 µg/L	3.195	476.24 ppb	3.195	0.67%
Ti	334.940†	498722.9	465.35 µg/L	0.405	465.35 ppb	0.405	0.09%
Tl	190.801†	3772.4	470.51 µg/L	1.479	470.51 ppb	1.479	0.31%
U	409.014†	7231.1	451.10 µg/L	11.236	451.10 ppb	11.236	2.49%
V	292.402†	94952.7	469.32 µg/L	0.308	469.32 ppb	0.308	0.07%
Zn	213.857†	82290.9	458.62 µg/L	0.946	458.62 ppb	0.946	0.21%

QC value within limits for Zn 213.857 Recovery = 91.72%

All analyte(s) passed QC.

Sequence No.: 25

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 4/1/2010 7:17:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	144894.0	144894.0	99.3 %		07:18:15
1	Al 396.153Radial†	-60.2	2.5	0.4745 µg/L	0.4745 ppb	07:18:35
1	Ca 317.933Radial†	650.2	94.2	5.2485 µg/L	5.2485 ppb	07:18:35
1	Fe 238.204 Radial†	260.9	114.7	7.0666 µg/L	7.0666 ppb	07:18:35
1	K 766.490 Radial†	1743.9	211.6	77.460 µg/L	77.460 ppb	07:18:15
1	Mg 279.077 IEC†	168.3	-21.2	-7.8905 µg/L	-7.8905 ppb	07:18:35
1	Na 589.592 Radial†	1784.9	506.9	69.180 µg/L	69.180 ppb	07:18:15
1	Sr 421.552†	-213.5	-79.7	-0.1658 µg/L	-0.1658 ppb	07:18:15
1	Sc 361.383	1770863.5	1770863.5	103.06 %		07:19:23
1	Y 371.029	1054490.2	1054490.2	102.71 %		07:19:23
1	Ag 328.068†	4158.3	-56.7	-0.2179 µg/L	-0.2179 ppb	07:19:25
1	As 188.979†	-13.5	7.3	2.2031 µg/L	2.2031 ppb	07:19:45
1	B 249.677†	3391.4	-215.3	-3.1773 µg/L	-3.1773 ppb	07:19:25
1	Ba 233.527†	-132.3	7.5	0.0299 µg/L	0.0299 ppb	07:19:45
1	Be 313.107†	-856.5	233.6	0.0622 µg/L	0.0622 ppb	07:19:25
1	Cd 226.502†	-126.3	-4.4	-0.0280 µg/L	-0.0280 ppb	07:19:45
1	Co 228.616†	-166.9	28.3	0.3493 µg/L	0.3493 ppb	07:19:45
1	Cr 267.716†	189.8	5.6	0.0481 µg/L	0.0481 ppb	07:19:45
1	Cu 324.752†	3068.4	4.9	0.0163 µg/L	0.0163 ppb	07:19:25
1	Mn 257.610†	366.1	117.9	0.1462 µg/L	0.1462 ppb	07:19:45
1	Mo 202.031†	-24.1	-3.4	-0.0984 µg/L	-0.0984 ppb	07:19:45
1	Ni 231.604†	-96.2	-16.9	-0.1942 µg/L	-0.1942 ppb	07:19:45
1	P 214.914†	-30.9	-12.1	-2.5847 µg/L	-2.5847 ppb	07:19:45
1	Pb 220.353†	45.1	-42.6	-2.3754 µg/L	-2.3754 ppb	07:19:45
1	S 181.975 Axial†	97.2	-10.7	-7.9562 µg/L	-7.9562 ppb	07:19:45
1	Sb 206.836†	73.2	-9.8	-1.1686 µg/L	-1.1686 ppb	07:19:45
1	Se 196.026†	23.2	7.3	2.62 µg/L	2.62 ppb	07:19:45
1	SiO2†	1871.6	40.6	3.9693 µg/L	3.9693 ppb	07:19:45
1	Si 251.611†	1059.6	191.5	2.8238 µg/L	2.8238 ppb	07:19:25
1	Sn 189.927†	0.3	1.4	0.0884 µg/L	0.0884 ppb	07:19:45
1	Ti 334.940†	1196.8	208.7	0.1977 µg/L	0.1977 ppb	07:19:25
1	Tl 190.801†	-120.5	-0.2	-0.0259 µg/L	-0.0259 ppb	07:19:45
1	U 409.014†	-361.9	-81.3	-4.7620 µg/L	-4.7620 ppb	07:19:25
1	V 292.402†	384.8	-30.5	-0.1536 µg/L	-0.1536 ppb	07:19:25
1	Zn 213.857†	611.3	28.7	0.1616 µg/L	0.1616 ppb	07:19:45
2	Sc RADIAL	145521.1	145521.1	99.7 %		07:18:37
2	Al 396.153Radial†	-35.2	27.9	5.1474 µg/L	5.1474 ppb	07:18:57
2	Ca 317.933Radial†	623.9	65.1	3.6261 µg/L	3.6261 ppb	07:18:57
2	Fe 238.204 Radial†	222.2	74.7	4.6055 µg/L	4.6055 ppb	07:18:57
2	K 766.490 Radial†	1793.6	253.9	92.936 µg/L	92.936 ppb	07:18:37
2	Mg 279.077 IEC†	165.1	-25.1	-9.3623 µg/L	-9.3623 ppb	07:18:57
2	Na 589.592 Radial†	1538.6	252.1	34.354 µg/L	34.354 ppb	07:18:37
2	Sr 421.552†	-146.5	-11.7	-0.0243 µg/L	-0.0243 ppb	07:18:37
2	Sc 361.383	1759397.0	1759397.0	102.40 %		07:19:47
2	Y 371.029	1047911.7	1047911.7	102.07 %		07:19:47
2	Ag 328.068†	4258.3	67.2	0.2316 µg/L	0.2316 ppb	07:19:49
2	As 188.979†	-12.7	7.9	2.4012 µg/L	2.4012 ppb	07:20:10
2	B 249.677†	3505.2	-82.7	-1.2213 µg/L	-1.2213 ppb	07:19:49
2	Ba 233.527†	-104.4	33.9	0.1364 µg/L	0.1364 ppb	07:20:10
2	Be 313.107†	-1051.8	37.5	0.0076 µg/L	0.0076 ppb	07:19:49
2	Cd 226.502†	-125.2	-4.0	-0.0256 µg/L	-0.0256 ppb	07:20:10
2	Co 228.616†	-173.0	21.4	0.2638 µg/L	0.2638 ppb	07:20:10
2	Cr 267.716†	207.8	24.3	0.1972 µg/L	0.1972 ppb	07:20:10
2	Cu 324.752†	2833.5	-205.0	-0.8032 µg/L	-0.8032 ppb	07:19:49
2	Mn 257.610†	340.4	95.2	0.1182 µg/L	0.1182 ppb	07:20:10
2	Mo 202.031†	-4.2	16.0	0.4695 µg/L	0.4695 ppb	07:20:10
2	Ni 231.604†	-70.6	7.6	0.0871 µg/L	0.0871 ppb	07:20:10
2	P 214.914†	-18.2	0.2	0.0525 µg/L	0.0525 ppb	07:20:10
2	Pb 220.353†	52.6	-35.0	-1.9478 µg/L	-1.9478 ppb	07:20:10

2	S 181.975 Axial†	114.5	6.7	5.0067 µg/L	5.0067 ppb	07:20:10
2	Sb 206.836†	82.8	0.0	0.0059 µg/L	0.0059 ppb	07:20:10
2	Se 196.026†	17.9	2.2	0.800 µg/L	0.800 ppb	07:20:10
2	SiO2†	1868.1	49.0	4.7661 µg/L	4.7661 ppb	07:20:10
2	Si 251.611†	1373.5	504.8	7.4316 µg/L	7.4316 ppb	07:19:49
2	Sn 189.927†	9.6	10.5	0.6533 µg/L	0.6533 ppb	07:20:10
2	Ti 334.940†	1069.2	91.6	0.0899 µg/L	0.0899 ppb	07:19:49
2	Tl 190.801†	-122.3	-2.7	-0.3381 µg/L	-0.3381 ppb	07:20:10
2	U 409.014†	-424.3	-144.5	-8.4800 µg/L	-8.4800 ppb	07:19:49
2	V 292.402†	294.1	-116.6	-0.5692 µg/L	-0.5692 ppb	07:19:49
2	Zn 213.857†	656.8	77.0	0.4324 µg/L	0.4324 ppb	07:20:10
3	Sc RADIAL	146586.0	146586.0	100 %		07:18:59
3	Al 396.153Radial†	-94.7	-31.1	-5.7709 µg/L	-5.7709 ppb	07:19:19
3	Ca 317.933Radial†	627.7	64.3	3.5843 µg/L	3.5843 ppb	07:19:19
3	Fe 238.204 Radial†	209.2	60.2	3.7093 µg/L	3.7093 ppb	07:19:19
3	K 766.490 Radial†	1735.8	183.3	67.094 µg/L	67.094 ppb	07:18:59
3	Mg 279.077 IEC†	202.0	10.4	3.8715 µg/L	3.8715 ppb	07:19:19
3	Na 589.592 Radial†	1601.1	303.1	41.345 µg/L	41.345 ppb	07:18:59
3	Sr 421.552†	-166.1	-30.0	-0.0625 µg/L	-0.0625 ppb	07:18:59
3	Sc 361.383	1760888.9	1760888.9	102.48 %		07:20:12
3	Y 371.029	1048920.3	1048920.3	102.17 %		07:20:12
3	Ag 328.068†	4208.1	14.8	0.0389 µg/L	0.0389 ppb	07:20:14
3	As 188.979†	-5.2	15.3	4.6193 µg/L	4.6193 ppb	07:20:34
3	B 249.677†	3595.2	2.2	0.0320 µg/L	0.0320 ppb	07:20:14
3	Ba 233.527†	-113.4	25.2	0.1014 µg/L	0.1014 ppb	07:20:34
3	Be 313.107†	-831.8	253.1	0.0658 µg/L	0.0658 ppb	07:20:14
3	Cd 226.502†	-79.9	40.2	0.2505 µg/L	0.2505 ppb	07:20:34
3	Co 228.616†	-186.7	8.2	0.1004 µg/L	0.1004 ppb	07:20:34
3	Cr 267.716†	164.0	-18.5	-0.1369 µg/L	-0.1369 ppb	07:20:34
3	Cu 324.752†	2963.0	-81.0	-0.3227 µg/L	-0.3227 ppb	07:20:14
3	Mn 257.610†	342.7	97.2	0.1201 µg/L	0.1201 ppb	07:20:34
3	Mo 202.031†	-17.0	3.5	0.1023 µg/L	0.1023 ppb	07:20:34
3	Ni 231.604†	-117.2	-37.8	-0.4353 µg/L	-0.4353 ppb	07:20:34
3	P 214.914†	-46.5	-27.4	-5.8531 µg/L	-5.8531 ppb	07:20:34
3	Pb 220.353†	64.1	-23.8	-1.3218 µg/L	-1.3218 ppb	07:20:34
3	S 181.975 Axial†	98.0	-9.4	-6.9851 µg/L	-6.9851 ppb	07:20:34
3	Sb 206.836†	75.4	-7.2	-0.8539 µg/L	-0.8539 ppb	07:20:34
3	Se 196.026†	23.0	7.1	2.57 µg/L	2.57 ppb	07:20:34
3	SiO2†	1939.7	117.3	11.456 µg/L	11.456 ppb	07:20:34
3	Si 251.611†	1281.6	414.0	6.0982 µg/L	6.0982 ppb	07:20:14
3	Sn 189.927†	8.6	9.5	0.5921 µg/L	0.5921 ppb	07:20:34
3	Ti 334.940†	988.0	11.5	0.0148 µg/L	0.0148 ppb	07:20:14
3	Tl 190.801†	-115.0	4.5	0.5455 µg/L	0.5455 ppb	07:20:34
3	U 409.014†	-457.5	-176.5	-10.337 µg/L	-10.337 ppb	07:20:14
3	V 292.402†	360.5	-52.1	-0.2609 µg/L	-0.2609 ppb	07:20:14
3	Zn 213.857†	610.0	30.8	0.1755 µg/L	0.1755 ppb	07:20:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1763716.4	102.65 %	0.363			0.35%
Sc RADIAL	145667.0	99.8 %	0.59			0.59%
Y 371.029	1050440.7	102.31 %	0.345			0.34%
Ag 328.068†	8.4	0.0175 µg/L	0.22552	0.0175 ppb	0.22552	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.2	-0.0497 µg/L	5.47798	-0.0497 ppb	5.47798	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	10.2	3.0745 µg/L	1.34146	3.0745 ppb	1.34146	43.63%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-98.6	-1.4555 µg/L	1.61740	-1.4555 ppb	1.61740	111.12%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	22.2	0.0892 µg/L	0.05424	0.0892 ppb	0.05424	60.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	174.7	0.0452 µg/L	0.03257	0.0452 ppb	0.03257	72.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	74.6	4.1530 µg/L	0.94897	4.1530 ppb	0.94897	22.85%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.6	0.0656 µg/L	0.16011	0.0656 ppb	0.16011	244.04%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	19.3	0.2378 µg/L	0.12645	0.2378 ppb	0.12645	53.17%

Cr	267.716†	3.8	0.0361 µg/L	0.16737	0.0361 ppb	0.16737	462.99%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-93.7	-0.3699 µg/L	0.41180	-0.3699 ppb	0.41180	111.34%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	83.2	5.1271 µg/L	1.73839	5.1271 ppb	1.73839	33.91%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	216.2	79.163 µg/L	13.0045	79.163 ppb	13.0045	16.43%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-12.0	-4.4604 µg/L	7.25307	-4.4604 ppb	7.25307	162.61%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	103.4	0.1281 µg/L	0.01567	0.1281 ppb	0.01567	12.23%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	5.4	0.1578 µg/L	0.28799	0.1578 ppb	0.28799	182.51%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	354.0	48.293 µg/L	18.4231	48.293 ppb	18.4231	38.15%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-15.7	-0.1808 µg/L	0.26146	-0.1808 ppb	0.26146	144.62%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-13.1	-2.7951 µg/L	2.95840	-2.7951 ppb	2.95840	105.84%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-33.8	-1.8816 µg/L	0.52992	-1.8816 ppb	0.52992	28.16%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-4.5	-3.3115 µg/L	7.22011	-3.3115 ppb	7.22011	218.03%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-5.7	-0.6722 µg/L	0.60798	-0.6722 ppb	0.60798	90.45%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	5.5	2.00 µg/L	1.038	2.00 ppb	1.038	51.95%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		69.0	6.7304 µg/L	4.11166	6.7304 ppb	4.11166	61.09%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	370.1	5.4512 µg/L	2.37108	5.4512 ppb	2.37108	43.50%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	7.1	0.4446 µg/L	0.30998	0.4446 ppb	0.30998	69.72%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-40.5	-0.0842 µg/L	0.07323	-0.0842 ppb	0.07323	86.99%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	103.9	0.1008 µg/L	0.09194	0.1008 ppb	0.09194	91.24%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	0.5	0.0605 µg/L	0.44806	0.0605 ppb	0.44806	740.90%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-134.1	-7.8596 µg/L	2.83865	-7.8596 ppb	2.83865	36.12%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-66.4	-0.3279 µg/L	0.21579	-0.3279 ppb	0.21579	65.81%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	45.5	0.2565 µg/L	0.15245	0.2565 ppb	0.15245	59.43%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, April 21, 2010 15:09:19

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.8306

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

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

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	684.8	684.816	22.333	3.3
Mg	24.0	5446.2	5446.238	74.552	1.4
Co	58.9	14308.0	14307.962	178.365	1.2
Rh	102.9	53512.0	53512.045	561.686	1.0
In	114.9	72302.1	72302.119	744.681	1.0
Pb	208.0	71192.6	71192.555	291.091	0.4
[> Ba	137.9	67886.2	67886.152	498.754	0.7
[Ba++	69.0	1019.3	0.015	0.000	2.9
[> Ce	139.9	87835.2	87835.215	773.982	0.9
[CeO	155.9	2501.7	0.028	0.000	1.4
Bkgd	220.0	3.2	3.200	1.204	37.6

Current Optimization File Data

Current Value	Description
1.06	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1975.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.8	950.4
Co	59	13	6.5	21779.6
In	115	13	7.3	124445.3

ICPMS#3 Instrument Tuning Report

File Name: 100421.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	590	2060	0.644
Be	9.0	9.0	2072	2040	0.675
Mg	24.0	24.0	5706	2110	0.654
Mg	25.0	25.0	5881	2020	0.684
Mg	26.0	26.0	6225	2140	0.641
Co	58.9	58.9	14206	2115	0.652
Rh	102.9	102.9	24905	2165	0.661
In	114.9	114.9	27830	2180	0.657
Ce	139.9	140.0	33930	2220	0.621
Pb	206.0	206.0	49991	2280	0.667
Pb	207.0	207.0	50272	2310	0.657
Pb	208.0	208.0	50486	2300	0.652
U	238.1	238.1	57845	2340	0.683

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, April 21, 2010 20:35:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Blank.427

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	ug/L		4	
Sc	45	ug/L		242057	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, April 21, 2010 20:37:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Standard 1.428

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	10.000	ug/L	8.356	1008	0.004
45		ug/L		242803	242802.835	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, April 21, 2010 20:39:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\Standard 2.429

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9	99.991	ug/L	7.032	9266	0.041
> Sc 45		ug/L		226101	226101.271

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Be	9				
	Sc	45				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, April 21, 2010 20:41:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 1.430

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	51.096	ug/L	7.805	4856	0.021
Sc 45		ug/L		231615	231614.526

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9	102.192				
Sc 45		95.7			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, April 21, 2010 20:43:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 2.431

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.017 ug/L	132.472	2	-0.000
Sc	45	ug/L		244786	244786.457

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45		101.1		

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Wednesday, April 21, 2010 20:43:56

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, April 21, 2010 20:45:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 3.432

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.524 ug/L	11.086	55	0.000
Sc	45	ug/L		236461	236460.609	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	104.897			
Sc	45		97.7			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, April 21, 2010 20:47:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 4.433

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.067	ug/L	25.677	8	0.000
Sc	45		ug/L		182598	182597.930

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		75.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for QC Sc		45	

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, April 21, 2010 20:49:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 5.434

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	17.976	ug/L	4.846	1835	0.007
45		ug/L		248860	248859.896	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9	89.882				
45		102.8				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Wednesday, April 21, 2010 20:50:00

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 20:51:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.435

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9	53.017	ug/L	7.895	5230	0.022
[> Sc 45		ug/L		240422	240421.629

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be 9	106.034				
[> Sc 45		99.3			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 20:53:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.436

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.000	ug/L	7276.837	4	-0.000
[> Sc	45		ug/L		247291	247290.518

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
[> Sc	45		102.2			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 21:16:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.447

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.343 ug/L	8.360	5206	0.021
Sc	45	ug/L		242493	242492.813	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	104.685			
Sc	45		100.2			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 21:18:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.448

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.024	ug/L	25.044	2	-0.000
Sc	45		ug/L		247486	247486.215

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				102.2						

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 21:35:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.456

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean	
[Be	9	51.797	ug/L	6.677	5244	0.021
>	Sc	45	ug/L		246932	246932.463	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	103.593				
>	Sc	45		102.0			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 21:37:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.457

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.002	ug/L	196.143	4	-0.000
> Sc	45		ug/L		252740	252739.908

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Be	9					
	Sc	45		104.4			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Wednesday, April 21, 2010 21:37:32

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202056824

Sample Date/Time: Wednesday, April 21, 2010 21:39:24

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056824.458

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.001	ug/L	3154.445	4	0.000
Sc	45		ug/L		240030	240030.262

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		99.2			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056829

Sample Date/Time: Wednesday, April 21, 2010 21:41:29

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959095|40|dim

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056829.459

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	21.635	ug/L	8.762	2243	0.009
[> Sc	45		ug/L		252490	252490.276

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
[> Sc	45		104.3			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000001

Sample Date/Time: Wednesday, April 21, 2010 21:43:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\248000001.460

Concentration Results

Analyte Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.682	ug/L	10.633	170	0.001
Sc	45		ug/L		240189	240188.821

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45		99.2		

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056825

Sample Date/Time: Wednesday, April 21, 2010 21:45:42

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056825.461

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	1.782	ug/L	7.815	183	0.001
Sc 45		ug/L		245958	245958.260

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		101.6			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056827

Sample Date/Time: Wednesday, April 21, 2010 21:47:48

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056827.462

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	25.111 ug/L	10.196	2586	0.010
Sc	45	ug/L		250524	250524.019

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	103.5			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056828

Sample Date/Time: Wednesday, April 21, 2010 21:49:52

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 959095[2]dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056828.463

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	25.908	ug/L	6.913	2703	0.011
45		ug/L		254156	254155.951	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		105.0				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056826

Sample Date/Time: Wednesday, April 21, 2010 21:51:57

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959095|10|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\1202056826.464

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.292	ug/L	29.937	34	0.000
45		ug/L		249912	249911.837	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		103.2				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056826

Report Date/Time: Wednesday, April 21, 2010 21:52:11

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ICPMS#3 - Summary Report

Sample ID: 248000002

Sample Date/Time: Wednesday, April 21, 2010 21:54:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\248000002.465

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.353 ug/L	15.693	141	0.001
Sc	45	ug/L		246076	246076.432

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45		101.7		

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000003

Sample Date/Time: Wednesday, April 21, 2010 21:56:09

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|dim

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\248000003.466

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.165	ug/L	14.290	229	0.001
Sc	45		ug/L		253149	253148.756

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		104.6			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248000003

Report Date/Time: Wednesday, April 21, 2010 21:56:23

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ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 21:58:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.467

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.601 ug/L	7.604	5195	0.021
>	Sc	45	ug/L		245520	245520.036

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	103.201				
>	Sc	45		101.4			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 22:00:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.468

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.018 ug/L	39.362	2	-0.000
Sc	45	ug/L		256651	256651.173

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9									
Sc	45			106.0						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000004

Sample Date/Time: Wednesday, April 21, 2010 22:02:22

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|dlm

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\248000004.469

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.021	ug/L	5.710	207	0.001
Sc	45		ug/L		244851	244850.649

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		101.2			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000005

Sample Date/Time: Wednesday, April 21, 2010 22:04:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|dim

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\248000005.470

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	3.178 ug/L	7.925	334	0.001
Sc	45	ug/L		252896	252896.177

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45		104.5		

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, April 21, 2010 22:23:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.479

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.430 ug/L	7.722	5099	0.021
Sc	45	ug/L		241731	241731.481	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	102.860			
Sc	45		99.9			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, April 21, 2010 22:25:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.480

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.007	ug/L	249.513	3	-0.000
45		ug/L		250940	250939.502	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		103.7				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, April 22, 2010 12:49:42

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.8309

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

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

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Be	9.0		754.8		754.820		21.720		2.9
Mg	24.0		5388.8		5388.817		121.712		2.3
Co	58.9		15828.0		15827.966		283.725		1.8
Rh	102.9		60772.4		60772.401		619.861		1.0
In	114.9		72333.5		72333.477		728.645		1.0
Pb	208.0		70090.1		70090.126		430.737		0.6
[> Ba	137.9		68185.8		68185.826		1044.233		1.5
[Ba++	69.0		1148.7		0.017		0.000		1.7
[> Ce	139.9		87897.4		87897.392		682.418		0.8
[CeO	155.9		2128.5		0.024		0.000		1.4
Bkgd	220.0		2.2		2.200		2.361		107.3

Current Optimization File Data

Current Value	Description
1.08	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1975.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.8	950.4
Co	59	13	6.5	21779.6
In	115	13	7.3	124445.3

ICPMS#3 Instrument Tuning Report

File Name: 100422.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	582	2060	0.644
Be	9.0	9.0	2075	2040	0.646
Mg	24.0	24.0	5716	2110	0.631
Mg	25.0	25.0	5891	2020	0.638
Mg	26.0	26.0	6235	2140	0.622
Co	58.9	58.9	14204	2115	0.626
Rh	102.9	102.9	24910	2165	0.642
In	114.9	114.9	27823	2180	0.636
Ce	139.9	139.8	33911	2220	0.612
Pb	206.0	206.0	49991	2280	0.643
Pb	207.0	207.0	50284	2310	0.640
Pb	208.0	208.0	50486	2300	0.634
U	238.1	238.0	57839	2340	0.661

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, April 22, 2010 22:11:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\Blank.901

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc	45	ug/L		145920	
|	Cr	52	ug/L		993	
|	Cr	53	ug/L		5212	
|	Ni	60	ug/L		21	
|	Cu	63	ug/L		76	
|	Cu	65	ug/L		43	
[>	Ge	74	ug/L		79548	
|	As	75	ug/L		26	
|	Se	77	ug/L		431	
|	Se	82	ug/L		11	
|	Kr	83	ug/L		15	
[>	Lu	175	ug/L		139026	
|	Tl	205	ug/L		690	
|	U	238	ug/L		10560	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9995
Kr	83Linear Thru Zero	
Lu	175Simple Linear	
Tl	205Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45				
|	Cr	52				
|	Cr	53				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
	Kr	83				
[>	Lu	175				

Sample ID: Blank

Report Date/Time: Thursday, April 22, 2010 22:12:25

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, April 22, 2010 22:14:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\Standard 1.902

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		146272	146271.674
|	Cr 52	10.000	ug/L	3.833	11147	0.069
|	Cr 53		ug/L		6351	0.008
|	Ni 60	10.000	ug/L	2.079	1719	0.012
|	Cu 63		ug/L		4392	0.030
|	Cu 65	10.000	ug/L	3.567	2431	0.016
[>	Ge 74		ug/L		79569	79569.107
|	As 75	10.000	ug/L	1.315	2219	0.028
|	Se 77		ug/L		544	0.001
|	Se 82	10.000	ug/L	5.022	198	0.002
|	Kr 83		ug/L		17	0.000
[>	Lu 175		ug/L		138304	138304.363
|	Tl 205	10.000	ug/L	0.496	71509	0.512
|	U 238	10.000	ug/L	1.074	105880	0.690

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45					
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74					
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175					

Sample ID: Standard 1

Report Date/Time: Thursday, April 22, 2010 22:15:34

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, April 22, 2010 22:17:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\Standard 2.903

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Sc 45		ug/L		145395	145394.905
|	Cr 52	99.991	ug/L	3.292	100971	0.688
|	Cr 53		ug/L		15778	0.073
|	Ni 60	99.952	ug/L	1.022	16123	0.111
|	Cu 63		ug/L		41583	0.285
|	Cu 65	99.961	ug/L	1.068	22884	0.157
>	Ge 74		ug/L		78293	78292.740
|	As 75	100.044	ug/L	1.406	22621	0.289
|	Se 77		ug/L		2228	0.023
|	Se 82	100.134	ug/L	3.113	2134	0.027
|	Kr 83		ug/L		12	-0.000
>	Lu 175		ug/L		136293	136293.444
|	Tl 205	99.986	ug/L	0.505	688553	5.047
|	U 238	100.077	ug/L	0.318	1029908	7.481

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
>	Sc 45					
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
>	Ge 74					
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
>	Lu 175					

Sample ID: Standard 2

Report Date/Time: Thursday, April 22, 2010 22:18:44

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	TI	205
	U	238

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, April 22, 2010 22:21:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 1.904

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		146822	146821.679
|	Cr 52	50.494	ug/L	2.585	51993	0.347
|	Cr 53		ug/L		10724	0.037
|	Ni 60	53.596	ug/L	2.933	8743	0.059
|	Cu 63		ug/L		22237	0.151
|	Cu 65	52.377	ug/L	0.977	12127	0.082
[>	Ge 74		ug/L		78538	78537.761
|	As 75	53.704	ug/L	0.565	12192	0.155
|	Se 77		ug/L		1347	0.012
|	Se 82	54.494	ug/L	1.697	1170	0.015
|	Kr 83		ug/L		12	-0.000
[>	Lu 175		ug/L		138452	138451.724
|	Tl 205	50.826	ug/L	0.435	355899	2.566
|	U 238	52.177	ug/L	0.287	550504	3.900

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		100.6			
|	Cr 52	100.989				
|	Cr 53					
|	Ni 60	107.192				
|	Cu 63					
|	Cu 65	104.753				
[>	Ge 74		98.7			
|	As 75	107.408				
|	Se 77					
|	Se 82	108.987				
|	Kr 83					
[>	Lu 175		99.6			

Sample ID: QC Std 1

Report Date/Time: Thursday, April 22, 2010 22:21:54

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	TI	205	101.652
	U	238	104.354

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, April 22, 2010 22:24:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 2.905

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		146469	146469.292
|	Cr 52	-0.036	ug/L	218.241	959	-0.000
|	Cr 53		ug/L		5184	-0.000
|	Ni 60	0.019	ug/L	254.535	24	0.000
|	Cu 63		ug/L		77	0.000
|	Cu 65	-0.012	ug/L	50.163	40	-0.000
[>	Ge 74		ug/L		77964	77963.631
|	As 75	0.461	ug/L	58.180	129	0.001
|	Se 77		ug/L		487	0.001
|	Se 82	1.752	ug/L	24.497	48	0.000
|	Kr 83		ug/L		14	-0.000
[>	Lu 175		ug/L		138722	138721.720
|	Tl 205	0.211	ug/L	12.752	2169	0.011
|	U 238	0.003	ug/L	322.089	10568	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		100.4			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		98.0			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		99.8			

Sample ID: QC Std 2

Report Date/Time: Thursday, April 22, 2010 22:25:08

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, April 22, 2010 22:27:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 3.906

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc	45		ug/L		145565	145564.692
| Cr	52	11.471	ug/L	2.856	12474	0.079
| Cr	53		ug/L		6420	0.008
| Ni	60	2.316	ug/L	4.521	394	0.003
| Cu	63		ug/L		567	0.003
| Cu	65	1.201	ug/L	6.475	318	0.002
[> Ge	74		ug/L		78600	78600.110
| As	75	5.505	ug/L	9.604	1273	0.016
| Se	77		ug/L		527	0.001
| Se	82	5.549	ug/L	7.100	129	0.002
| Kr	83		ug/L		13	-0.000
[> Lu	175		ug/L		137137	137137.470
| Tl	205	1.206	ug/L	2.022	9031	0.061
| U	238	-0.714	ug/L	1.469	3099	-0.053

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc	45		99.8			
| Cr	52	114.708				
| Cr	53					
| Ni	60	115.808				
| Cu	63					
| Cu	65	120.128				
[> Ge	74		98.8			
| As	75	110.101				
| Se	77					
| Se	82	110.984				
| Kr	83					
[> Lu	175		98.6			

Sample ID: QC Std 3

Report Date/Time: Thursday, April 22, 2010 22:28:19

Page 1

|	TI	205	120.623
|	U	238	-356.947

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, April 22, 2010 22:30:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 4.907

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		119373	119372.872
|	Cr 52	3.049	ug/L	4.298	3316	0.021
|	Cr 53		ug/L		4989	0.006
|	Ni 60	2.874	ug/L	2.783	397	0.003
|	Cu 63		ug/L		801	0.006
|	Cu 65	3.160	ug/L	7.215	628	0.005
[>	Ge 74		ug/L		66897	66896.935
|	As 75	1.394	ug/L	10.523	290	0.004
|	Se 77		ug/L		803	0.007
|	Se 82	1.775	ug/L	36.881	41	0.000
|	Kr 83		ug/L		42	0.000
[>	Lu 175		ug/L		115763	115763.301
|	Tl 205	0.009	ug/L	45.171	625	0.000
|	U 238	-1.013	ug/L	0.064	29	-0.076

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			81.8		
|	Cr 52	92.385				
|	Cr 53					
|	Ni 60	86.841				
|	Cu 63					
|	Cu 65	94.605				
[>	Ge 74			84.1		
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175			83.3		

Sample ID: QC Std 4

Report Date/Time: Thursday, April 22, 2010 22:31:30

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 4	U	238ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, April 22, 2010 22:33:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 5.908

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		121338	121337.664
|	Cr 52	24.422	ug/L	2.114	21216	0.168
|	Cr 53		ug/L		6818	0.020
|	Ni 60	21.687	ug/L	3.575	2933	0.024
|	Cu 63		ug/L		6989	0.057
|	Cu 65	20.173	ug/L	1.210	3882	0.032
[>	Ge 74		ug/L		68319	68318.987
|	As 75	21.162	ug/L	1.368	4192	0.061
|	Se 77		ug/L		1096	0.011
|	Se 82	20.989	ug/L	6.242	398	0.006
|	Kr 83		ug/L		47	0.001
[>	Lu 175		ug/L		115759	115758.949
|	Tl 205	19.047	ug/L	1.268	111863	0.961
|	U 238	20.834	ug/L	0.589	189066	1.557

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			83.2		
|	Cr 52	104.816				
|	Cr 53					
|	Ni 60	93.038				
|	Cu 63					
|	Cu 65	86.431				
[>	Ge 74			85.9		
|	As 75	105.808				
|	Se 77					
|	Se 82	104.944				
|	Kr 83					
[>	Lu 175			83.3		

Sample ID: QC Std 5

Report Date/Time: Thursday, April 22, 2010 22:34:42

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	TI	205	95.233
	U	238	104.172

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 22, 2010 22:37:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.909

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		151457	151457.137
|	Cr 52	50.850	ug/L	3.246	53997	0.350
|	Cr 53		ug/L		10947	0.037
|	Ni 60	52.534	ug/L	1.603	8840	0.058
|	Cu 63		ug/L		23014	0.151
|	Cu 65	51.822	ug/L	1.955	12381	0.081
[>	Ge 74		ug/L		81727	81726.986
|	As 75	51.611	ug/L	0.838	12194	0.149
|	Se 77		ug/L		1401	0.012
|	Se 82	51.748	ug/L	5.346	1157	0.014
|	Kr 83		ug/L		17	0.000
[>	Lu 175		ug/L		138553	138553.083
|	Tl 205	50.699	ug/L	1.202	355255	2.559
|	U 238	53.137	ug/L	1.194	560814	3.972

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc 45		103.8			
| Cr 52	101.700				
| Cr 53					
| Ni 60	105.069				
| Cu 63					
| Cu 65	103.644				
[> Ge 74		102.7			
| As 75	103.222				
| Se 77					
| Se 82	103.496				
| Kr 83					
[> Lu 175		99.7			

Sample ID: QC Std 6

Report Date/Time: Thursday, April 22, 2010 22:37:54

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	TI	205	101.397
	U	238	106.274

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 22, 2010 22:40:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.910

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		149038	149037.771
|	Cr 52	0.025	ug/L	233.546	1039	0.000
|	Cr 53		ug/L		5384	0.000
|	Ni 60	-0.009	ug/L	94.897	20	-0.000
|	Cu 63		ug/L		78	0.000
|	Cu 65	-0.027	ug/L	152.001	37	-0.000
[>	Ge 74		ug/L		80959	80958.616
|	As 75	0.317	ug/L	96.593	99	0.001
|	Se 77		ug/L		454	0.000
|	Se 82	0.936	ug/L	11.190	32	0.000
|	Kr 83		ug/L		11	-0.000
[>	Lu 175		ug/L		139812	139812.041
|	Tl 205	0.173	ug/L	12.214	1918	0.009
|	U 238	-0.004	ug/L	553.345	10580	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			102.1		
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74			101.8		
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175			100.6		

Sample ID: QC Std 7

Report Date/Time: Thursday, April 22, 2010 22:41:09

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056824

Sample Date/Time: Thursday, April 22, 2010 22:43:30

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056824.911

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		149368	149368.034
|	Cr 52	0.767	ug/L	3.552	1805	0.005
|	Cr 53		ug/L		4078	-0.008
|	Ni 60	0.050	ug/L	65.117	30	0.000
|	Cu 63		ug/L		136	0.000
|	Cu 65	0.136	ug/L	20.764	76	0.000
[>	Ge 74		ug/L		76733	76733.308
|	As 75	-0.142	ug/L	216.639	-7	-0.000
|	Se 77		ug/L		335	-0.001
|	Se 82	0.534	ug/L	35.431	22	0.000
|	Kr 83		ug/L		11	-0.000
[>	Lu 175		ug/L		138025	138025.073
|	Tl 205	0.034	ug/L	14.810	924	0.002
|	U 238	-1.012	ug/L	0.076	45	-0.076

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		102.4			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		96.5			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		99.3			

Sample ID: 1202056824

Report Date/Time: Thursday, April 22, 2010 22:44:23

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type	Analyte
	U

MassOut of Limits Message
238Sample is out of limits (<-PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 1202056829

Sample Date/Time: Thursday, April 22, 2010 22:46:45

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959095[40]prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056829.912

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc	45		ug/L		152367	152366.968
| Cr	52	67.518	ug/L	4.852	71752	0.465
| Cr	53		ug/L		12335	0.045
| Ni	60	38.527	ug/L	1.769	6525	0.043
| Cu	63		ug/L		20596	0.135
| Cu	65	47.202	ug/L	1.795	11350	0.074
[> Ge	74		ug/L		81906	81905.617
| As	75	28.459	ug/L	1.405	6750	0.082
| Se	77		ug/L		1802	0.017
| Se	82	79.329	ug/L	2.370	1771	0.021
| Kr	83		ug/L		12	-0.000
[> Lu	175		ug/L		139499	139498.867
| Tl	205	32.481	ug/L	1.719	229392	1.640
| U	238	-0.470	ug/L	1.349	5692	-0.035

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc	45		104.4			
| Cr	52					
| Cr	53					
| Ni	60					
| Cu	63					
| Cu	65					
[> Ge	74		103.0			
| As	75					
| Se	77					
| Se	82					
| Kr	83					
[> Lu	175		100.3			

Sample ID: 1202056829

Report Date/Time: Thursday, April 22, 2010 22:47:39

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
	U	238Sample is out of limits (<-PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 248000001

Sample Date/Time: Thursday, April 22, 2010 22:50:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\248000001.913

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		150385	150385.354
|	Cr 52	3.794	ug/L	2.514	4949	0.026
|	Cr 53		ug/L		4305	-0.007
|	Ni 60	2.485	ug/L	9.220	436	0.003
|	Cu 63		ug/L		2086	0.013
|	Cu 65	5.264	ug/L	5.095	1288	0.008
[>	Ge 74		ug/L		76495	76494.689
|	As 75	1.591	ug/L	8.480	376	0.005
|	Se 77		ug/L		382	-0.000
|	Se 82	2.703	ug/L	5.034	66	0.001
|	Kr 83		ug/L		29	0.000
[>	Lu 175		ug/L		148469	148469.355
|	Tl 205	0.201	ug/L	12.138	2242	0.010
|	U 238	2.081	ug/L	1.504	34374	0.156

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc 45		103.1			
| Cr 52					
| Cr 53					
| Ni 60					
| Cu 63					
| Cu 65					
[> Ge 74		96.2			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		106.8			

Sample ID: 248000001

Report Date/Time: Thursday, April 22, 2010 22:50:55

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056825

Sample Date/Time: Thursday, April 22, 2010 22:53:17

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056825.914

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		150627	150627.232
|	Cr 52	3.240	ug/L	5.022	4382	0.022
|	Cr 53		ug/L		3878	-0.010
|	Ni 60	2.811	ug/L	3.093	491	0.003
|	Cu 63		ug/L		2239	0.014
|	Cu 65	5.139	ug/L	3.532	1260	0.008
[>	Ge 74		ug/L		76279	76278.887
|	As 75	1.373	ug/L	21.108	327	0.004
|	Se 77		ug/L		355	-0.001
|	Se 82	1.080	ug/L	49.884	33	0.000
|	Kr 83		ug/L		28	0.000
[>	Lu 175		ug/L		145498	145497.998
|	Tl 205	0.033	ug/L	26.303	968	0.002
|	U 238	1.967	ug/L	1.167	32440	0.147

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		103.2			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		95.9			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		104.7			

Sample ID: 1202056825

Report Date/Time: Thursday, April 22, 2010 22:54:11

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056827

Sample Date/Time: Thursday, April 22, 2010 22:56:34

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056827.915

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc	45		ug/L		152997	152996.582
| Cr	52	28.535	ug/L	3.048	31073	0.196
| Cr	53		ug/L		6756	0.008
| Ni	60	27.388	ug/L	2.394	4664	0.030
| Cu	63		ug/L		12941	0.084
| Cu	65	29.974	ug/L	1.254	7251	0.047
[> Ge	74		ug/L		76253	76252.727
| As	75	39.309	ug/L	0.351	8671	0.113
| Se	77		ug/L		486	0.001
| Se	82	10.168	ug/L	8.880	220	0.003
| Kr	83		ug/L		31	0.000
[> Lu	175		ug/L		145959	145959.027
| Tl	205	45.440	ug/L	0.878	335499	2.294
| U	238	28.550	ug/L	1.953	322532	2.134

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc	45		104.8			
| Cr	52					
| Cr	53					
| Ni	60					
| Cu	63					
| Cu	65					
[> Ge	74		95.9			
| As	75					
| Se	77					
| Se	82					
| Kr	83					
[> Lu	175		105.0			

Sample ID: 1202056827

Report Date/Time: Thursday, April 22, 2010 22:57:28

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	TI	205
	U	238

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056828

Sample Date/Time: Thursday, April 22, 2010 22:59:51

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056828.916

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		151612	151612.007
|	Cr 52	29.324	ug/L	3.660	31608	0.202
|	Cr 53		ug/L		6826	0.009
|	Ni 60	28.480	ug/L	1.110	4806	0.032
|	Cu 63		ug/L		13334	0.087
|	Cu 65	30.705	ug/L	1.287	7360	0.048
[>	Ge 74		ug/L		75572	75572.466
|	As 75	41.259	ug/L	1.437	9018	0.119
|	Se 77		ug/L		506	0.001
|	Se 82	9.862	ug/L	8.707	212	0.003
|	Kr 83		ug/L		33	0.000
[>	Lu 175		ug/L		145504	145503.712
|	Tl 205	47.657	ug/L	0.689	350738	2.406
|	U 238	29.536	ug/L	2.040	332261	2.208

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		103.9			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		95.0			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		104.7			

Sample ID: 1202056828

Report Date/Time: Thursday, April 22, 2010 23:00:46

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056826

Sample Date/Time: Thursday, April 22, 2010 23:03:09

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959095|10|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\1202056826.917

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		149419	149418.679
|	Cr 52	0.843	ug/L	2.858	1884	0.006
|	Cr 53		ug/L		4633	-0.005
|	Ni 60	0.592	ug/L	8.564	120	0.001
|	Cu 63		ug/L		532	0.003
|	Cu 65	1.123	ug/L	7.834	307	0.002
[>	Ge 74		ug/L		79351	79350.899
|	As 75	0.998	ug/L	40.718	254	0.003
|	Se 77		ug/L		418	-0.000
|	Se 82	0.359	ug/L	101.247	19	0.000
|	Kr 83		ug/L		17	0.000
[>	Lu 175		ug/L		140768	140767.955
|	Tl 205	0.190	ug/L	4.029	2047	0.010
|	U 238	-0.310	ug/L	2.808	7426	-0.023

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		102.4			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		99.8			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		101.3			

Sample ID: 1202056826

Report Date/Time: Thursday, April 22, 2010 23:04:04

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	TI	205
	U	238

QC Out Of Limits

Measurement Type	Analyte
	U

MassOut of Limits Message
238Sample is out of limits (<-PQL)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: 248000002

Sample Date/Time: Thursday, April 22, 2010 23:06:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\248000002.918

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		150684	150683.788
|	Cr 52	4.032	ug/L	3.990	5204	0.028
|	Cr 53		ug/L		4042	-0.009
|	Ni 60	2.874	ug/L	3.313	502	0.003
|	Cu 63		ug/L		1901	0.012
|	Cu 65	4.739	ug/L	1.658	1166	0.007
[>	Ge 74		ug/L		75900	75899.517
|	As 75	1.683	ug/L	15.941	393	0.005
|	Se 77		ug/L		338	-0.001
|	Se 82	0.553	ug/L	100.078	22	0.000
|	Kr 83		ug/L		33	0.000
[>	Lu 175		ug/L		146502	146501.889
|	Tl 205	0.031	ug/L	18.847	957	0.002
|	U 238	2.626	ug/L	2.299	39883	0.196

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc 45		103.3			
| Cr 52					
| Cr 53					
| Ni 60					
| Cu 63					
| Cu 65					
[> Ge 74		95.4			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		105.4			

Sample ID: 248000002

Report Date/Time: Thursday, April 22, 2010 23:07:19

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000003

Sample Date/Time: Thursday, April 22, 2010 23:09:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\248000003.919

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		150765	150765.427
|	Cr 52	7.225	ug/L	4.877	8517	0.050
|	Cr 53		ug/L		4296	-0.007
|	Ni 60	3.882	ug/L	3.580	670	0.004
|	Cu 63		ug/L		3396	0.022
|	Cu 65	8.164	ug/L	1.629	1978	0.013
[>	Ge 74		ug/L		75060	75059.755
|	As 75	2.219	ug/L	16.178	505	0.006
|	Se 77		ug/L		327	-0.001
|	Se 82	0.581	ug/L	62.318	22	0.000
|	Kr 83		ug/L		30	0.000
[>	Lu 175		ug/L		147005	147005.347
|	Tl 205	0.018	ug/L	18.545	866	0.001
|	U 238	2.331	ug/L	3.039	36774	0.174

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		103.3			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		94.4			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		105.7			

Sample ID: 248000003

Report Date/Time: Thursday, April 22, 2010 23:10:35

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248000003

Report Date/Time: Thursday, April 22, 2010 23:10:35

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ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 22, 2010 23:12:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.920

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		146573	146573.064
|	Cr 52	52.035	ug/L	1.838	53466	0.358
|	Cr 53		ug/L		10577	0.036
|	Ni 60	52.897	ug/L	2.255	8613	0.059
|	Cu 63		ug/L		22241	0.151
|	Cu 65	52.180	ug/L	2.597	12064	0.082
[>	Ge 74		ug/L		79740	79739.734
|	As 75	51.674	ug/L	0.243	11912	0.149
|	Se 77		ug/L		1298	0.011
|	Se 82	49.076	ug/L	2.606	1071	0.013
|	Kr 83		ug/L		12	-0.000
[>	Lu 175		ug/L		137249	137248.517
|	Tl 205	50.780	ug/L	0.564	352488	2.563
|	U 238	52.448	ug/L	0.801	548499	3.920

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		100.4			
|	Cr 52	104.070				
|	Cr 53					
|	Ni 60	105.794				
|	Cu 63					
|	Cu 65	104.359				
[>	Ge 74		100.2			
|	As 75	103.347				
|	Se 77					
|	Se 82	98.151				
|	Kr 83					
[>	Lu 175		98.7			

Sample ID: QC Std 6

Report Date/Time: Thursday, April 22, 2010 23:13:47

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	TI	205	101.561
	U	238	104.897

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 22, 2010 23:16:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.921

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		148046	148045.992
|	Cr 52	0.094	ug/L	80.943	1102	0.001
|	Cr 53		ug/L		5105	-0.001
|	Ni 60	0.060	ug/L	52.039	31	0.000
|	Cu 63		ug/L		70	-0.000
|	Cu 65	0.021	ug/L	233.087	48	0.000
[>	Ge 74		ug/L		79043	79043.210
|	As 75	0.333	ug/L	44.166	101	0.001
|	Se 77		ug/L		473	0.001
|	Se 82	0.928	ug/L	66.811	31	0.000
|	Kr 83		ug/L		11	-0.000
[>	Lu 175		ug/L		138187	138186.583
|	Tl 205	0.160	ug/L	2.372	1803	0.008
|	U 238	0.022	ug/L	147.953	10721	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		101.5			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		99.4			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		99.4			

Sample ID: QC Std 7

Report Date/Time: Thursday, April 22, 2010 23:17:02

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000004

Sample Date/Time: Thursday, April 22, 2010 23:19:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\248000004.922

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc	45		ug/L		149823	149823.464
| Cr	52	8.616	ug/L	0.796	9902	0.059
| Cr	53		ug/L		4607	-0.005
| Ni	60	5.300	ug/L	3.497	902	0.006
| Cu	63		ug/L		2584	0.017
| Cu	65	6.505	ug/L	2.593	1576	0.010
[> Ge	74		ug/L		75020	75019.546
| As	75	1.599	ug/L	32.325	370	0.005
| Se	77		ug/L		389	-0.000
| Se	82	1.892	ug/L	44.696	49	0.001
| Kr	83		ug/L		30	0.000
[> Lu	175		ug/L		149732	149731.775
| Ti	205	0.043	ug/L	6.180	1072	0.002
| U	238	3.456	ug/L	1.976	50052	0.258

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Sc	45	Linear Thru Zero	
Cr	52	Linear Thru Zero	1.0000
Cr	53	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	0.9999
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Ti	205	Linear Thru Zero	1.0000
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc	45		102.7			
| Cr	52					
| Cr	53					
| Ni	60					
| Cu	63					
| Cu	65					
[> Ge	74		94.3			
| As	75					
| Se	77					
| Se	82					
| Kr	83					
[> Lu	175		107.7			

Sample ID: 248000004

Report Date/Time: Thursday, April 22, 2010 23:20:18

Page 1

|	TI	205
|	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000005

Sample Date/Time: Thursday, April 22, 2010 23:22:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\248000005.923

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		152246	152246.282
|	Cr 52	15.888	ug/L	2.186	17677	0.109
|	Cr 53		ug/L		5282	-0.001
|	Ni 60	11.064	ug/L	2.909	1888	0.012
|	Cu 63		ug/L		3574	0.023
|	Cu 65	8.642	ug/L	1.986	2112	0.014
[>	Ge 74		ug/L		76143	76143.147
|	As 75	1.737	ug/L	25.994	406	0.005
|	Se 77		ug/L		332	-0.001
|	Se 82	0.209	ug/L	224.567	15	0.000
|	Kr 83		ug/L		37	0.000
[>	Lu 175		ug/L		146134	146133.792
|	Tl 205	0.108	ug/L	5.333	1520	0.005
|	U 238	2.565	ug/L	0.240	39120	0.192

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc 45		104.3			
| Cr 52					
| Cr 53					
| Ni 60					
| Cu 63					
| Cu 65					
[> Ge 74		95.7			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		105.1			

Sample ID: 248000005

Report Date/Time: Thursday, April 22, 2010 23:23:35

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	TI	205
	U	238

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, April 22, 2010 23:52:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.932

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc	45		ug/L		145201	145200.543
| Cr	52	51.983	ug/L	2.690	52905	0.358
| Cr	53		ug/L		10426	0.036
| Ni	60	53.395	ug/L	1.620	8613	0.059
| Cu	63		ug/L		21859	0.150
| Cu	65	51.587	ug/L	0.890	11816	0.081
[> Ge	74		ug/L		78608	78608.134
| As	75	52.384	ug/L	2.050	11905	0.151
| Se	77		ug/L		1278	0.011
| Se	82	48.852	ug/L	0.763	1051	0.013
| Kr	83		ug/L		17	0.000
[> Lu	175		ug/L		137459	137458.529
| Tl	205	50.240	ug/L	0.709	349273	2.536
| U	238	52.101	ug/L	0.842	545760	3.894

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc	45			99.5		
| Cr	52	103.965				
| Cr	53					
| Ni	60	106.790				
| Cu	63					
| Cu	65	103.173				
[> Ge	74			98.8		
| As	75	104.769				
| Se	77					
| Se	82	97.705				
| Kr	83					
[> Lu	175			98.9		

Sample ID: QC Std 6

Report Date/Time: Thursday, April 22, 2010 23:53:06

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	Tl	205	100.480
	U	238	104.202

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, April 22, 2010 23:55:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 3.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.933

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		146758	146757.678
|	Cr 52	0.071	ug/L	142.034	1068	0.000
|	Cr 53		ug/L		5074	-0.001
|	Ni 60	-0.019	ug/L	131.865	18	-0.000
|	Cu 63		ug/L		65	-0.000
|	Cu 65	0.013	ug/L	443.979	46	0.000
[>	Ge 74		ug/L		79648	79647.896
|	As 75	0.204	ug/L	175.847	72	0.001
|	Se 77		ug/L		472	0.001
|	Se 82	1.240	ug/L	37.967	38	0.000
|	Kr 83		ug/L		11	-0.000
[>	Lu 175		ug/L		135128	135128.098
|	Tl 205	0.142	ug/L	7.808	1640	0.007
|	U 238	0.045	ug/L	52.739	10720	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		100.6			
|	Cr 52					
|	Cr 53					
|	Ni 60					
|	Cu 63					
|	Cu 65					
[>	Ge 74		100.1			
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175		97.2			

Sample ID: QC Std 7

Report Date/Time: Thursday, April 22, 2010 23:56:21

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	TI	205
	U	238

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, April 23, 2010 09:11:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\Blank.1075

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		138619	
[	U	238	ug/L		9	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, April 23, 2010 09:13:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\Standard 1.1076

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		138118	138118.257
[	U	238	10.000 ug/L	0.938	103847	0.752

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, April 23, 2010 09:15:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\Standard 2.1077

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		136870	136870.082
[U	238	99.979	ug/L	1.101	1007162	7.360

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, April 23, 2010 09:17:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 1.1078

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140402	140402.489
[	U	238	53.113 ug/L	0.657	549014	3.910

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.3		
[U	238	106.226			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, April 23, 2010 09:19:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 2.1079

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		139053	139052.923
[	U	238	0.009 ug/L	10.588	103	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		100.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, April 23, 2010 09:21:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 3.1080

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		134126	134126.104
[U 238	0.339	ug/L	1.002	3356	0.025

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			96.8		
[U 238	169.515				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, April 23, 2010 09:23:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 4.1081

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		113170	113170.214
[	U	238	0.005 ug/L	13.370	47	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Lu	175				81.6					
[U	238									

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, April 23, 2010 09:25:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 5.1082

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		114003	114003.432
[	U	238	21.597 ug/L	1.766	181204	1.590

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Lu	175				82.2					
[	U	238	107.983								

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 23, 2010 09:27:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.1083

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		150157	150156.929
[	U	238	45.491 ug/L	6.801	501713	3.349

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		108.3		
[	U	238	90.982			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 23, 2010 09:29:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.1084

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		138210	138209.934
[U 238	0.009	ug/L	5.716	99	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		99.7			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 23, 2010 09:47:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.1092

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		137319	137318.944
[	U	238	53.578 ug/L	1.206	541575	3.944

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		99.1		
[	U	238	107.156			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 23, 2010 09:49:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.1093

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		135315	135315.169
[	U	238	0.008 ug/L	10.458	84	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.6		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056824

Sample Date/Time: Friday, April 23, 2010 09:52:02

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056824.1094

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		129358	129357.639
[	U	238	0.009 ug/L	5.390	91	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		93.3		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056829

Sample Date/Time: Friday, April 23, 2010 09:54:36

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 959095|40|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056829.1095

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		133769	133768.799
[U 238	0.551	ug/L	0.502	5437	0.041

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		96.5			
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000001

Sample Date/Time: Friday, April 23, 2010 09:57:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\248000001.1096

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		141178	141178.123
[U 238	3.137	ug/L	0.768	32609	0.231

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		101.8			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 248000001

Report Date/Time: Friday, April 23, 2010 09:57:25

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ICPMS#3 - Summary Report

Sample ID: 1202056825

Sample Date/Time: Friday, April 23, 2010 09:59:47

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056825.1097

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		139199	139198.744
[U 238	3.026	ug/L	0.784	31013	0.223

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		100.4			
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056827

Sample Date/Time: Friday, April 23, 2010 10:02:23

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056827.1098

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		139324	139323.526
[	U	238	29.567 ug/L	0.675	303243	2.177

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		100.5		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202056828

Sample Date/Time: Friday, April 23, 2010 10:05:00

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056828.1099

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		138794	138793.523
[U 238	30.831	ug/L	0.636	315041	2.270

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		100.1			
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202056828

Report Date/Time: Friday, April 23, 2010 10:05:15

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ICPMS#3 - Summary Report

Sample ID: 1202056826

Sample Date/Time: Friday, April 23, 2010 10:07:38

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 959095|10|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\1202056826.1100

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		138579	138578.658
[	U	238	0.703 ug/L	2.265	7177	0.052

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175	100.0			
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000002

Sample Date/Time: Friday, April 23, 2010 10:10:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\248000002.1101

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		143095	143095.156
[U 238	3.618	ug/L	1.400	38120	0.266

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		103.2			
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000003

Sample Date/Time: Friday, April 23, 2010 10:12:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\248000003.1102

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140554	140554.073
[	U	238	3.350 ug/L	1.117	34669	0.247

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.4		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 23, 2010 10:14:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.1103

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		135919	135919.481
[U 238	53.579	ug/L	0.806	536094	3.944

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175			98.1		
[U 238	107.158				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 23, 2010 10:16:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.1104

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		133391	133391.353
[	U 238	0.007	ug/L	11.374	79	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu 175		96.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Friday, April 23, 2010 10:16:50

Page 1

ICPMS#3 - Summary Report

Sample ID: 248000004

Sample Date/Time: Friday, April 23, 2010 10:18:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\248000004.1105

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		145636	145635.635
[U 238	4.526	ug/L	0.916	48521	0.333

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		105.1			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248000005

Sample Date/Time: Friday, April 23, 2010 10:20:48

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 959095|2|prb

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\248000005.1106

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		141515	141515.108
[U 238	3.638	ug/L	0.225	37908	0.268

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		102.1			
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, April 23, 2010 10:39:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 6.1115

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		134470	134469.965
[	U	238	53.465 ug/L	1.090	529175	3.936

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Lu	175			97.0						
[	U	238	106.929								

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, April 23, 2010 10:41:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 4.mth

Dataset File: c:\elandata\Dataset\100419\QC Std 7.1116

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		132050	132050.223
[	U	238	0.010 ug/L	11.957	109	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.3		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Method Name: SOIL
 Method Description: 7471A, ILM04 ANALYST JXL1
 Element: Hg

Date: 03/09/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 030910S1.SIF Results Data Set Name: 030910S1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 03/09/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0035	0.0035	13:08:05	No
2			0.0034	0.0034	13:08:40	No
Mean:			0.0035			
SD :			0.0000			
%RSD:			1.2804			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 03/09/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0038	0.0073	13:10:02	No
2			0.0037	0.0071	13:10:37	No
Mean:			0.0037			
SD :			0.0001			
%RSD:			2.6440			

[Hg] Standard number 1 applied. [0.200]
 Correlation Coefficient: 1.00000 Slope: 0.01872
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 03/09/2010
 Sample ID: S0.5

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0067	0.0102	13:12:01	No
2			0.0065	0.0100	13:12:36	No
Mean:			0.0066			
SD :			0.0001			
%RSD:			2.0334			

[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.98227 Slope: 0.01300
 Intercept : 0.00043

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 03/09/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0236	0.0271	13:14:01	No
2			0.0234	0.0269	13:14:36	No
Mean:			0.0235			
SD :			0.0001			
%RSD:			0.6189			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99830
Intercept : 0.00075

Slope: 0.01145

=====

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 03/09/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0585	0.0619	13:16:01	No
2			0.0577	0.0612	13:16:36	No
Mean:			0.0581			
SD :			0.0005			
%RSD:			0.9242			

[Hg] Standard number 4 applied. [5.000]

Correlation Coefficient: 0.99976

Slope: 0.01146

Intercept : 0.00074

=====

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 03/09/2010
Sample ID: S10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.1123	0.1157	13:18:02	No
2			0.1114	0.1148	13:18:37	No
Mean:			0.1118			
SD :			0.0007			
%RSD:			0.5884			

[Hg] Standard number 5 applied. [10.00]

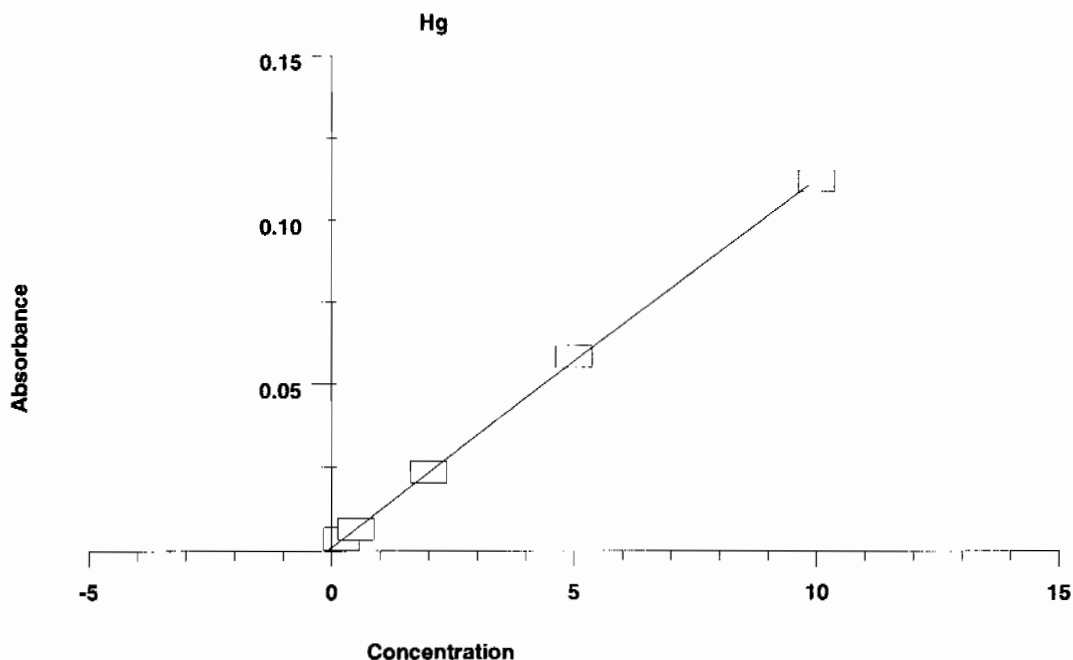
Correlation Coefficient: 0.99982

Slope: 0.01114

Intercept : 0.00111

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0035	---	----	----	----
S0.2	0.0037	0.200	0.236	0.0001	2.6
S0.5	0.0066	0.500	0.496	0.0001	2.0
S2.0	0.0235	2.000	2.013	0.0001	0.6
S5.0	0.0581	5.000	5.114	0.0005	0.9
S10	0.1118	10.000	9.940	0.0007	0.6
Correlation Coefficient: 0.99982		Slope:	0.01114	Intercept:	0.0011



=====
 Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 03/09/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.238	5.238	0.0595	0.0629	13:20:06	No
2	5.064	5.064	0.0575	0.0610	13:20:41	No
Mean:	5.151	5.151	0.0585			
SD :	0.1229	0.1229	0.0014			
%RSD:	2.4	2.4	2.3416			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 03/09/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.036	-0.036	0.0007	0.0042	13:22:03	No
2	-0.058	-0.058	0.0005	0.0039	13:22:38	No
Mean:	-0.047	-0.047	0.0006			
SD :	0.0151	0.0151	0.0002			
%RSD:	32.3	32.3	28.5272			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 03/09/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.122	0.122	0.0025	0.0059	13:24:00	No
2	0.107	0.107	0.0023	0.0058	13:24:35	No
Mean:	0.114	0.114	0.0024			
SD :	0.0106	0.0106	0.0001			
%RSD:	9.3	9.3	4.9547			

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 03/09/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.165	5.165	0.0586	0.0621	13:26:00	No
2	5.151	5.151	0.0585	0.0619	13:26:34	No
Mean:	5.158	5.158	0.0586			
SD :	0.0106	0.0106	0.0001			
%RSD:	0.2	0.2	0.2012			

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 03/09/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0008	0.0043	13:28:03	No
2	-0.019	-0.019	0.0009	0.0044	13:28:38	No
Mean:	-0.023	-0.023	0.0009			
SD :	0.0058	0.0058	0.0001			
%RSD:	25.4	25.4	7.4739			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 03/09/2010

Sample ID: 1202056145|i||958740|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.178	-0.178	-0.0009	0.0026	13:30:04	No
2	-0.171	-0.171	-0.0008	0.0027	13:30:39	No
Mean:	-0.175	-0.175	-0.0008			
SD :	0.0048	0.0048	0.0001			
%RSD:	2.7	2.7	6.3773			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 03/09/2010

Sample ID: 1202056146|i|10|LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.351	3.351	0.0384	0.0419	13:32:03	No
2	3.279	3.279	0.0376	0.0411	13:32:38	No
Mean:	3.315	3.315	0.0380			
SD :	0.0506	0.0506	0.0006			
%RSD:	1.5	1.5	1.4817			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 03/09/2010

Sample ID: 248037001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.209	0.209	0.0034	0.0069	13:34:04	No
2	0.191	0.191	0.0032	0.0067	13:34:39	No
Mean:	0.200	0.200	0.0033			
SD :	0.0126	0.0126	0.0001			
%RSD:	6.3	6.3	4.1903			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 03/09/2010

Sample ID: 1202056147|i|||DUP

%RSD: 6.9 6.9 1.8536

=====
 Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 03/09/2010
 Sample ID: 248037004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.698	0.698	0.0089	0.0123	13:47:52	No
2	0.678	0.678	0.0087	0.0121	13:48:27	No
Mean:	0.688	0.688	0.0088			
SD :	0.0139	0.0139	0.0002			
%RSD:	2.0	2.0	1.7682			

=====
 Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.061	5.061	0.0575	0.0609	13:49:53	No
2	5.063	5.063	0.0575	0.0610	13:50:28	No
Mean:	5.062	5.062	0.0575			
SD :	0.0019	0.0019	0.0000			
%RSD:						

QC value within specified limits.

=====
 Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.064	-0.064	0.0004	0.0039	13:51:56	No
2	-0.061	-0.061	0.0004	0.0039	13:52:31	No
Mean:	-0.063	-0.063	0.0004			
SD :	0.0022	0.0022	0.0000			
%RSD:	3.5	3.5	5.9263			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 03/09/2010
 Sample ID: 248037005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.843	0.843	0.0105	0.0140	13:53:56	No
2	0.838	0.838	0.0104	0.0139	13:54:31	No
Mean:	0.840	0.840	0.0105			
SD :	0.0037	0.0037	0.0000			
%RSD:	0.4	0.4	0.3904			

=====
 Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 03/09/2010
 Sample ID: 248037006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.024	0.024	0.0014	0.0048	13:55:55	No
2	0.032	0.032	0.0015	0.0049	13:56:30	No
Mean:	0.028	0.028	0.0014			
SD :	0.0058	0.0058	0.0001			
%RSD:	21.0	21.0	4.5600			

=====
 Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 03/09/2010
 Sample ID: 248037007|i|||

%RSD: 4.3 4.3 3.0086

=====
 Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 03/09/2010
 Sample ID: 248037013|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.770	0.770	0.0097	0.0131	14:09:55	No
2	0.764	0.764	0.0096	0.0131	14:10:30	No
Mean:	0.767	0.767	0.0097			
SD :	0.0038	0.0038	0.0000			
%RSD:	0.5	0.5	0.4362			

=====
 Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 03/09/2010
 Sample ID: 248037014|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.788	0.788	0.0099	0.0133	14:11:57	No
2	0.780	0.780	0.0098	0.0133	14:12:32	No
Mean:	0.784	0.784	0.0098			
SD :	0.0055	0.0055	0.0001			
%RSD:	0.7	0.7	0.6175			

=====
 Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.096	5.096	0.0579	0.0613	14:13:59	No
2	5.040	5.040	0.0572	0.0607	14:14:35	No
Mean:	5.068	5.068	0.0576			
SD :	0.0396	0.0396	0.0004			
%RSD:	0.8	0.8	0.7665			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.051	-0.051	0.0005	0.0040	14:16:03	No
2	-0.077	-0.077	0.0003	0.0037	14:16:38	No
Mean:	-0.064	-0.064	0.0004			
SD :	0.0183	0.0183	0.0002			
%RSD:	28.7	28.7	50.4071			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 03/09/2010
 Sample ID: 248037015|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.109	0.109	0.0023	0.0058	14:18:02	No
2	0.089	0.089	0.0021	0.0056	14:18:37	No
Mean:	0.099	0.099	0.0022			
SD :	0.0139	0.0139	0.0002			
%RSD:	14.0	14.0	6.9826			

=====
 Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 03/09/2010
 Sample ID: 248037016|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0014	0.0049	14:19:57	No
2	0.028	0.028	0.0014	0.0049	14:20:32	No
Mean:	0.028	0.028	0.0014			
SD :	0.0004	0.0004	0.0000			
%RSD:	1.4	1.4	0.3076			

=====
 Element: Hg Seq. No.: 38 AS Loc.: 34 Date: 03/09/2010
 Sample ID: 248037017|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.117	3.117	0.0358	0.0393	14:21:52	No
2	3.100	3.100	0.0356	0.0391	14:22:27	No
Mean:	3.108	3.108	0.0357			
SD :	0.0120	0.0120	0.0001			
%RSD:	0.4	0.4	0.3742			

=====
 Element: Hg Seq. No.: 39 AS Loc.: 35 Date: 03/09/2010
 Sample ID: 248037018|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.379	0.379	0.0053	0.0088	14:23:48	No
2	0.357	0.357	0.0051	0.0085	14:24:23	No
Mean:	0.368	0.368	0.0052			
SD :	0.0158	0.0158	0.0002			
%RSD:	4.3	4.3	3.3780			

=====
 Element: Hg Seq. No.: 40 AS Loc.: 36 Date: 03/09/2010
 Sample ID: 248037019|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.138	0.138	0.0027	0.0061	14:25:45	No
2	0.119	0.119	0.0024	0.0059	14:26:20	No
Mean:	0.129	0.129	0.0025			
SD :	0.0139	0.0139	0.0002			
%RSD:	10.8	10.8	6.0646			

=====
 Element: Hg Seq. No.: 41 AS Loc.: 37 Date: 03/09/2010
 Sample ID: 248037020|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.026	-0.026	0.0008	0.0043	14:27:42	No
2	-0.034	-0.034	0.0007	0.0042	14:28:17	No
Mean:	-0.030	-0.030	0.0008			
SD :	0.0053	0.0053	0.0001			
%RSD:	17.4	17.4	7.5352			

=====
 Element: Hg Seq. No.: 42 AS Loc.: 38 Date: 03/09/2010
 Sample ID: 1202056127|i||958731|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.152	-0.152	-0.0006	0.0029	14:29:40	No
2	-0.162	-0.162	-0.0007	0.0028	14:30:15	No
Mean:	-0.157	-0.157	-0.0006			
SD :	0.0070	0.0070	0.0001			

%RSD: 4.4 4.4 12.2548

=====
 Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 03/09/2010
 Sample ID: 1202056128|i|10|LCS
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.338	3.338	0.0383	0.0417	14:31:38	No
2	3.375	3.375	0.0387	0.0422	14:32:13	No
Mean:	3.356	3.356	0.0385			
SD :	0.0261	0.0261	0.0003			
%RSD:	0.8	0.8	0.7540			

=====
 Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 03/09/2010
 Sample ID: 247918001|i|||
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.462	0.462	0.0063	0.0097	14:33:37	No
2	0.443	0.443	0.0060	0.0095	14:34:12	No
Mean:	0.453	0.453	0.0062			
SD :	0.0135	0.0135	0.0002			
%RSD:	3.0	3.0	2.4483			

=====
 Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 03/09/2010
 Sample ID: 1202056129|i|||DUP
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.592	0.592	0.0077	0.0112	14:35:37	No
2	0.574	0.574	0.0075	0.0110	14:36:11	No
Mean:	0.583	0.583	0.0076			
SD :	0.0128	0.0128	0.0001			
%RSD:	2.2	2.2	1.8800			

=====
 Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.037	5.037	0.0572	0.0607	14:37:37	No
2	5.110	5.110	0.0580	0.0615	14:38:11	No
Mean:	5.073	5.073	0.0576			
SD :	0.0517	0.0517	0.0006			
%RSD:	1.0	1.0	0.9985			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.070	-0.070	0.0003	0.0038	14:39:39	No
2	-0.070	-0.070	0.0003	0.0038	14:40:14	No
Mean:	-0.070	-0.070	0.0003			
SD :	0.0000	0.0000	0.0000			
%RSD:						

QC value within specified limits.

=====
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 03/09/2010
 Sample ID: 1202056130|i|||MS
 =====

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      2.887      2.887      0.0333    0.0367    14:41:40  No
2      2.826      2.826      0.0326    0.0360    14:42:14  No
Mean:   2.856      2.856      0.0329
SD :    0.0432      0.0432      0.0005
%RSD:   1.5        1.5        1.4604
-----

```

```

=====
Element: Hg      Seq. No.: 49      AS Loc.: 43      Date: 03/09/2010
Sample ID: 1202056132|i||MSD
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      2.771      2.771      0.0320    0.0354    14:43:39  No
2      2.784      2.784      0.0321    0.0356    14:44:14  No
Mean:   2.777      2.777      0.0320
SD :    0.0094      0.0094      0.0001
%RSD:   0.3        0.3        0.3261
-----

```

```

=====
Element: Hg      Seq. No.: 50      AS Loc.: 44      Date: 03/09/2010
Sample ID: 1202056131|i|5||SDILT
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      -0.033     -0.033     0.0007    0.0042    14:45:39  No
2      -0.056     -0.056     0.0005    0.0039    14:46:14  No
Mean:  -0.045     -0.045     0.0006
SD :    0.0162     0.0162     0.0002
%RSD:   36.3       36.3       29.2391
-----

```

```

=====
Element: Hg      Seq. No.: 51      AS Loc.: 45      Date: 03/09/2010
Sample ID: 247918002|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      0.210      0.210      0.0035    0.0069    14:47:41  No
2      0.180      0.180      0.0031    0.0066    14:48:15  No
Mean:   0.195      0.195      0.0033
SD :    0.0218      0.0218      0.0002
%RSD:   11.2       11.2       7.3957
-----

```

```

=====
Element: Hg      Seq. No.: 52      AS Loc.: 46      Date: 03/09/2010
Sample ID: 247918003|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      0.147      0.147      0.0028    0.0062    14:49:42  No
2      0.131      0.131      0.0026    0.0060    14:50:17  No
Mean:   0.139      0.139      0.0027
SD :    0.0113      0.0113      0.0001
%RSD:   8.1        8.1        4.7387
-----

```

```

=====
Element: Hg      Seq. No.: 53      AS Loc.: 47      Date: 03/09/2010
Sample ID: 247918004|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      ug/L      ug/L      Signal    Height    Height    Stored
1      0.649      0.649      0.0083    0.0118    14:51:44  No
2      0.667      0.667      0.0085    0.0120    14:52:19  No
Mean:   0.658      0.658      0.0084
SD :    0.0125      0.0125      0.0001
-----

```

%RSD: 1.9 1.9 1.6465

=====
 Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 03/09/2010
 Sample ID: 247918005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.294	0.294	0.0044	0.0078	14:53:43	No
2	0.277	0.277	0.0042	0.0077	14:54:18	No
Mean:	0.285	0.285	0.0043			
SD :	0.0119	0.0119	0.0001			
%RSD:	4.2	4.2	3.0885			

=====
 Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 03/09/2010
 Sample ID: 247918006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.246	0.246	0.0039	0.0073	14:55:38	No
2	0.268	0.268	0.0041	0.0076	14:56:13	No
Mean:	0.257	0.257	0.0040			
SD :	0.0151	0.0151	0.0002			
%RSD:	5.9	5.9	4.2313			

=====
 Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 03/09/2010
 Sample ID: 247918007|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.987	0.987	0.0121	0.0156	14:57:33	No
2	0.988	0.988	0.0121	0.0156	14:58:08	No
Mean:	0.987	0.987	0.0121			
SD :	0.0004	0.0004	0.0000			
%RSD:						

=====
 Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 03/09/2010
 Sample ID: 247920002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	1.428	1.428	0.0170	0.0205	14:59:30	No
2	1.384	1.384	0.0165	0.0200	15:00:05	No
Mean:	1.406	1.406	0.0168			
SD :	0.0314	0.0314	0.0003			
%RSD:	2.2	2.2	2.0816			

=====
 Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.035	5.035	0.0572	0.0607	15:01:29	No
2	5.145	5.145	0.0584	0.0619	15:02:04	No
Mean:	5.090	5.090	0.0578			
SD :	0.0774	0.0774	0.0009			
%RSD:	1.5	1.5	1.4909			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.103	-0.103	0.0000	0.0034	15:03:32	No
2	-0.115	-0.115	-0.0002	0.0033	15:04:07	No
Mean:	-0.109	-0.109	-0.0001			
SD :	0.0087	0.0087	0.0001			
%RSD:	8.0	8.0	96.4094			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 03/09/2010
 Sample ID: 248000001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.096	-0.096	0.0000	0.0035	15:05:32	No
2	-0.107	-0.107	-0.0001	0.0034	15:06:07	No
Mean:	-0.102	-0.102	0.0000			
SD :	0.0075	0.0075	0.0001			
%RSD:	7.4	7.4	427.9234			

=====
 Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 03/09/2010
 Sample ID: 248000002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.098	-0.098	0.0000	0.0035	15:07:29	No
2	-0.100	-0.100	0.0000	0.0035	15:08:04	No
Mean:	-0.099	-0.099	0.0000			
SD :	0.0016	0.0016	0.0000			
%RSD:	1.6	1.6	226.0695			

=====
 Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 03/09/2010
 Sample ID: 248000003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.043	-0.043	0.0006	0.0041	15:09:27	No
2	-0.058	-0.058	0.0005	0.0039	15:10:02	No
Mean:	-0.050	-0.050	0.0006			
SD :	0.0110	0.0110	0.0001			
%RSD:	21.8	21.8	22.2071			

=====
 Element: Hg Seq. No.: 63 AS Loc.: 55 Date: 03/09/2010
 Sample ID: 248000004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.119	-0.119	-0.0002	0.0032	15:11:26	No
2	-0.116	-0.116	-0.0002	0.0033	15:12:01	No
Mean:	-0.118	-0.118	-0.0002			
SD :	0.0025	0.0025	0.0000			
%RSD:	2.1	2.1	14.0058			

=====
 Element: Hg Seq. No.: 64 AS Loc.: 56 Date: 03/09/2010
 Sample ID: 248000005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.056	-0.056	0.0005	0.0039	15:13:25	No
2	-0.061	-0.061	0.0004	0.0039	15:14:00	No
Mean:	-0.059	-0.059	0.0005			
SD :	0.0036	0.0036	0.0000			

%RSD: 6.1 6.1 8.6806

=====
 Element: Hg Seq. No.: 65 AS Loc.: 57 Date: 03/09/2010
 Sample ID: 1202063115|i||961867|MB
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	-0.088	-0.088	0.0001	0.0036	15:15:24	No
2	-0.103	-0.103	0.0000	0.0034	15:15:59	No
Mean:	-0.095	-0.095	0.0000			
SD :	0.0106	0.0106	0.0001			
%RSD:	11.1	11.1	242.6183			

=====
 Element: Hg Seq. No.: 66 AS Loc.: 58 Date: 03/09/2010
 Sample ID: 1202063116|i||LCS
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	2.013	2.013	0.0235	0.0270	15:17:23	No
2	2.004	2.004	0.0234	0.0269	15:17:58	No
Mean:	2.009	2.009	0.0235			
SD :	0.0061	0.0061	0.0001			
%RSD:	0.3	0.3	0.2914			

=====
 Element: Hg Seq. No.: 67 AS Loc.: 59 Date: 03/09/2010
 Sample ID: 248609001|i||
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	-0.086	-0.086	0.0002	0.0036	15:19:22	No
2	-0.121	-0.121	-0.0002	0.0032	15:19:57	No
Mean:	-0.104	-0.104	0.0000			
SD :	0.0250	0.0250	0.0003			
%RSD:	24.1	24.1	659.4015			

=====
 Element: Hg Seq. No.: 68 AS Loc.: 60 Date: 03/09/2010
 Sample ID: 1202063117|i||DUP
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	-0.168	-0.168	-0.0008	0.0027	15:21:22	No
2	-0.201	-0.201	-0.0011	0.0023	15:21:57	No
Mean:	-0.184	-0.184	-0.0009			
SD :	0.0229	0.0229	0.0003			
%RSD:	12.4	12.4	27.0721			

=====
 Element: Hg Seq. No.: 69 AS Loc.: 61 Date: 03/09/2010
 Sample ID: 1202063118|i||MS
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	1.890	1.890	0.0222	0.0256	15:23:24	No
2	1.865	1.865	0.0219	0.0253	15:23:59	No
Mean:	1.878	1.878	0.0220			
SD :	0.0176	0.0176	0.0002			
%RSD:	0.9	0.9	0.8900			

=====
 Element: Hg Seq. No.: 70 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV
 =====

Repl	SampleConc	StdndConc	BlndCorr	Peak	Time	Peak
------	------------	-----------	----------	------	------	------

#	µg/L	µg/L	Signal	Height		Stored
1	5.298	5.298	0.0601	0.0636	15:25:25	No
2	5.329	5.329	0.0605	0.0639	15:26:00	No
Mean:	5.314	5.314	0.0603			
SD :	0.0216	0.0216	0.0002			
%RSD:	0.4	0.4	0.3983			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 71 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.125	-0.125	-0.0003	0.0032	15:27:28	No
2	-0.174	-0.174	-0.0008	0.0026	15:28:03	No
Mean:	-0.149	-0.149	-0.0005			
SD :	0.0346	0.0346	0.0004			
%RSD:	23.2	23.2	70.3225			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 72 AS Loc.: 62 Date: 03/09/2010
 Sample ID: 1202063120|i||MSD

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.023	2.023	0.0236	0.0271	15:29:30	No
2	2.009	2.009	0.0235	0.0269	15:30:05	No
Mean:	2.016	2.016	0.0236			
SD :	0.0098	0.0098	0.0001			
%RSD:	0.5	0.5	0.4654			

=====
 Element: Hg Seq. No.: 73 AS Loc.: 63 Date: 03/09/2010
 Sample ID: 1202063119|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.251	-0.251	-0.0017	0.0018	15:31:27	No
2	-0.255	-0.255	-0.0017	0.0017	15:32:01	No
Mean:	-0.253	-0.253	-0.0017			
SD :	0.0025	0.0025	0.0000			
%RSD:	1.0	1.0	1.6196			

=====
 Element: Hg Seq. No.: 74 AS Loc.: 7 Date: 03/09/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.317	5.317	0.0603	0.0638	15:33:24	No
2	5.283	5.283	0.0600	0.0634	15:33:59	No
Mean:	5.300	5.300	0.0601			
SD :	0.0242	0.0242	0.0003			
%RSD:	0.5	0.5	0.4489			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 75 AS Loc.: 8 Date: 03/09/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.181	-0.181	-0.0009	0.0026	15:35:28	No
2	-0.179	-0.179	-0.0009	0.0026	15:36:03	No
Mean:	-0.180	-0.180	-0.0009			

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959092.0		Verified by:			
Analyst:	Francena Armstrong				
Method:	SW846 3050B				
Lab SOP:	GL-MA-E-009 REV# 19				
Instrument:	Sartorius Balance B-001				
Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056823	Metals Soil LCS SRM ICP/Hg	UI062540-I	.519	g
MS	1202056821	Metals Spike Mix I	UI100205-01	.25	mL
MS	1202056821	Metals Spike Mix II	UI100205-06	.25	mL
MSD	1202056822	Metals Spike Mix I	UI100205-01	.25	mL
MSD	1202056822	Metals Spike Mix II	UI100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202056818 MB	02-MAR-2010 14:30:00	Soil	0.534	50	93.63296	
1202056823 LCS	02-MAR-2010 14:30:00	Soil	0.519	50	96.33911	
248000001	02-MAR-2010 14:30:00	Soil	0.525	50	95.2381	
1202056819 DUP (2480000001)	02-MAR-2010 14:30:00	Soil	0.531	50	94.16196	
1202056820 SDILT (2480000001)	02-MAR-2010 14:30:00	Soil	0.525	50	95.2381	
1202056821 MS (2480000001)	02-MAR-2010 14:30:00	Soil	0.506	50	98.81423	
1202056822 MSD (2480000001)	02-MAR-2010 14:30:00	Soil	0.51	50	98.03922	
248000002	02-MAR-2010 14:30:00	Soil	0.541	50	92.42144	
2480000003	02-MAR-2010 14:30:00	Soil	0.523	50	95.60229	
2480000004	02-MAR-2010 14:30:00	Soil	0.538	50	92.9368	
2480000005	02-MAR-2010 14:30:00	Soil	0.507	50	98.61933	
248002001	02-MAR-2010 14:30:00	Soil	0.515	50	97.08738	
248002002	02-MAR-2010 14:30:00	Soil	0.518	50	96.5251	
248002003	02-MAR-2010 14:30:00	Soil	0.517	50	96.7118	
248002004	02-MAR-2010 14:30:00	Soil	0.525	50	95.2381	
248002005	02-MAR-2010 14:30:00	Soil	0.515	50	97.08738	
248002006	02-MAR-2010 14:30:00	Soil	0.53	50	94.33962	
248002007	02-MAR-2010 14:30:00	Soil	0.503	50	99.40358	
248002008	02-MAR-2010 14:30:00	Soil	0.535	50	93.45794	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1274969	Nitric Acid CONC.	1.25 mL	Brown, clumpy, soil w/rocks & other artifacts.
1274973	HYDROCHLORIC ACID	10 mL	

Analytical Logbook version 111-04-2002

GEL Laboratories LLC

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958730.0
Analyst: Lamanuel Hightower
Method: SW846 7471A Prep
Lab SOP: GL-MA-E-010 REV# 23
Instrument: Sartorius Balance B-001

Verified by: _____

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202056128	Metals LCS Soil SRM	UI031809A	.202	g
MS	1202056130	Mercury soil working intermediate standard for MS	WHG100308-14	.3	mL
MSD	1202056132	Mercury soil working intermediate standard for MS	WHG100308-14	.3	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202056127 MB	09-MAR-2010 11:00:00	Soil	0.516	30	58.13953	
1202056128 LCS	09-MAR-2010 11:00:00	Soil	0.202	30	148.51485	
247918001	09-MAR-2010 11:00:00	Soil	0.582	30	51.54639	
1202056129 DUP (247918001)	09-MAR-2010 11:00:00	Soil	0.55	30	54.54545	
1202056130 MS (247918001)	09-MAR-2010 11:00:00	Soil	0.501	30	59.88024	
1202056132 MSD (247918001)	09-MAR-2010 11:00:00	Soil	0.525	30	57.14286	
1202056131 SDILT (247918001)	09-MAR-2010 11:00:00	Soil	0.582	30	51.54639	
247918002	09-MAR-2010 11:00:00	Soil	0.566	30	53.00353	
247918003	09-MAR-2010 11:00:00	Soil	0.511	30	58.70841	
247918004	09-MAR-2010 11:00:00	Soil	0.555	30	54.05405	
247918005	09-MAR-2010 11:00:00	Soil	0.505	30	59.40594	
247918006	09-MAR-2010 11:00:00	Soil	0.501	30	59.88024	
247918007	09-MAR-2010 11:00:00	Soil	0.586	30	51.19454	
247920002	09-MAR-2010 11:00:00	Soil	0.51	30	58.82353	
2480000001	09-MAR-2010 11:00:00	Soil	0.54	30	55.55556	
2480000002	09-MAR-2010 11:00:00	Soil	0.555	30	54.05405	
2480000003	09-MAR-2010 11:00:00	Soil	0.501	30	59.88024	
2480000004	09-MAR-2010 11:00:00	Soil	0.526	30	57.03422	
2480000005	09-MAR-2010 11:00:00	Soil	0.578	30	51.90311	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1255532-C	Hg reducing agent	2 mL	Sample is a gray clumpy soil.
1274391-1	NITRIC ACID	.375 mL	Digestion Start Date: 09-MAR-10 11:00:53
1277235-A	Hydrochloric Acid Conc.	1.125 mL	Digestion End Date: 09-MAR-10 11:30:53
1277238-C	5% KMnO4 solution	7.5 mL	
WHG100308-07	Mercury Working Standard 1st Source CAL S 0.2/CRA	30 mL	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 959094.0 Verified by: _____ Lab SOP: GL-MA-E-009 REV# 19
 Analyst: Anthony Green Instrument: BAL-001
 Method: SW846 3050B

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202056824 MB	02-MAR-2010 10:25:00	0.543	50	92.08103	1
1202056829 LCS	02-MAR-2010 10:25:00	0.506	50	98.81423	
2480000001	02-MAR-2010 10:25:00	0.51	50	98.03922	
1202056825 DUP (2480000001)	02-MAR-2010 10:25:00	0.503	50	99.40358	
1202056826 SDILT (2480000001)	02-MAR-2010 10:25:00	0.51	50	98.03922	
1202056827 MS (2480000001)	02-MAR-2010 10:25:00	0.508	50	98.4252	
1202056828 MSD (2480000001)	02-MAR-2010 10:25:00	0.505	50	99.0099	
2480000002	02-MAR-2010 10:25:00	0.523	50	95.60229	
2480000003	02-MAR-2010 10:25:00	0.524	50	95.41985	
2480000004	02-MAR-2010 10:25:00	0.506	50	98.81423	
2480000005	02-MAR-2010 10:25:00	0.553	50	90.41591	
2480002001	02-MAR-2010 10:25:00	0.508	50	98.4252	
2480002002	02-MAR-2010 10:25:00	0.538	50	92.9368	
2480002003	02-MAR-2010 10:25:00	0.501	50	99.8004	
2480002004	02-MAR-2010 10:25:00	0.525	50	95.2381	
2480002005	02-MAR-2010 10:25:00	0.51	50	98.03922	
2480002006	02-MAR-2010 10:25:00	0.515	50	97.08738	
2480002007	02-MAR-2010 10:25:00	0.519	50	96.33911	
2480002008	02-MAR-2010 10:25:00	0.517	50	96.7118	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202056829	Metals Soil LCS SRM ICPMS	U1090827-A	.506	g	
MS	1202056827	ICP-MS Spike for soil products.	U1090827-B	.5	mL	Sample 2480000001 consist of brown, clumpy, soil with rocks and other artifacts.
MS	1202056827	ICP-MS Spike for Soil Products	U1090827-A	.5	mL	
MSD	1202056828	ICP-MS Spike for soil products.	U1090827-B	.5	mL	
MSD	1202056828	ICP-MS Spike for Soil Products	U1090827-A	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	I250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	I274969	.5	mL	

DATA EXCEPTION REPORT

Mo.Day Yr. 06-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 959093	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248000(10-2025-1),248002(10-2028-1)			
Application Issues: Failed Recovery for MS/PS Failed RPD for DUP Failed Recovery for LCS/LCSD Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description: 1. Failed Recovery for MS/PS: QC 1202056821MS 2. Failed RPD for DUP: QC 1202056819DUP 3. Failed Recovery for LCS/LCSD: QC 1202056823LCS 4. Failed Recovery for MSD/PSD: QC 1202056822MSD		DER Disposition: 1./4. The matrix spike and matrix spike duplicate recovery failed outside of the control limits for aluminum,potassium,sodium and zinc due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 2. The sample and sample duplicate % RPD failed outside the control limits for barium,calcium,chromium,iron,lead,magnesium,manganese,zinc and vanadium due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 3. Silver and/or antimony did not meet the recovery acceptance criteria for the LCS. Per the DOE-AL statement of work, page forty, silver and antimony are exempt from the re-digestion requirement for LCS failures.	

Originator's Name:

Helen Camello 09-APR-10

Data Validator/Group Leader:

Christopher Louviere 12-APR-10

DATA EXCEPTION REPORT

Mo.Day Yr. 23-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP/MS	Test / Method: SW846 3050B/6020	Matrix Type: Solid	Client Code: LANL
Batch ID: 959095	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248000(10-2025-1),248002(10-2028-1)			
Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202056827MS 2. Failed Recovery for MSD/PSD: QC 1202056828MSD		The matrix spike and matrix spike duplicate recovery failed outside of the control limits for Se due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Paul Boyd

23-APR-10

Data Validator/Group Leader:

Samantha Jacobs

23-APR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expres:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 22-APR-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Standard Logbook

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL Str **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090827-A **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090827-B **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514
Name: METALSPIKE-1 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515
Name: METALSPIKE-2 **Received:** 05-FEB-10
Type: Source Material **Expires:** 05-FEB-11
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: O2SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: O2SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Standard Logbook

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-MAR-10 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019163
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100325-40 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100325-41 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS100415-01 **Opened:** 15-APR-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 15-APR-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-20JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100415-02 **Opened:** 15-APR-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 15-APR-10 **Lot Number :** 22-21JB
Type: Source Material **Expires:** 28-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100415-03 **Opened:** 15-APR-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 15-APR-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-22JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100308-01 Opened: 08-MAR-10 Instrument Id : Mercury
 Name: MHGINTER1 Received: 08-MAR-10 Pipet Id : Minou1
 Type: Intermediate Expires: 09-MAR-10 Solvent : 1mL HNO3 + Typel H2O
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Intermediate 1st Source 200 ug/L
 Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100308-02 Opened: 08-MAR-10 Pipet Id : Minou1
 Name: MHGINTER2 Received: 08-MAR-10 Solvent : 2% HNO3-1274391
 Type: Intermediate Expires: 09-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Intermediate 2nd Source 200 ug/L
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100308-07 Opened: 08-MAR-10 Pipet Id : Hg1289245
 Name: MHGWORKCALSO.2CRA Received: 08-MAR-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 15-MAR-10
 Employee: Tara Griffin
 Supplier: GEL
 Description: Mercury Working Standard 1st Source CAL S 0.2/CRA
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100308-08 Opened: 08-MAR-10 Pipet Id : Hg1289245
 Name: MHGWORKCALSO.5 Received: 08-MAR-10 Solvent : 2% HNO3-1274391
 Type: Working Expires: 15-MAR-10
 Employee: Tara Griffin Verified: 20-JUL-07
 Supplier: GEL

Standard Logbook

Description: Mercury Working Standard 1st Source CAL S 0.5

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100308-09 **Opened:** 08-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 08-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 15-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL

Description: Mercury Working 1st Source CAL S 2.0

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100308-10 **Opened:** 08-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 08-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 15-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL

Description: Mercury Working 1st Source CAL S 5.0/CCV

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100308-11 **Opened:** 08-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 08-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 15-MAR-10
Employee: Tara Griffin
Supplier: GEL

Description: Mercury Working 1st Source CAL S 10.0

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100308-12 **Opened:** 08-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 08-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 15-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL

Description: Mercury Working 2nd Source S 5.0/ICV

Standard Logbook

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100308-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100308-14 **Opened:** 08-MAR-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 08-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 15-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100331-42 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100331-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100331-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100331-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100331-43 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100331-44 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1 %HNO3-1293083
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100331-45 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100331-46 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL AND 1%HNO3-1293083
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100331-47 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL & 1%HNO3-1293083
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100421-04 **Opened:** 21-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 21-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 22-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1303289
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100415-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100415-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100415-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100421-04A **Opened:** 21-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 21-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100421-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100421-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100421-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100421-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100421-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100421-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100421-05 **Opened:** 21-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 21-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100421-06 **Opened:** 21-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 21-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 22-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100422-04 **Opened:** 22-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 22-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 23-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1303289
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100415-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100415-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100415-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100422-04A **Opened:** 22-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 22-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 23-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100422-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100422-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100422-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100422-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100422-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100422-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100422-05 **Opened:** 22-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 22-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 23-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100422-06 **Opened:** 22-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 22-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 23-APR-10 **Solvent :** 2%HNO3/1%HCl - 1303289
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-08
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1250038-02 **Opened:** 04-JAN-10 **Lot Number :** ZU74081198 mL
Name: B-H2O2 **Received:** 04-JAN-10
Type: Reagent/Solvent **Expires:** 04-JAN-11
Employee: Bryan Davis
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Standard Logbook

Serial ID: 1274969 **Opened:** 24-FEB-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1274973 **Opened:** 24-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 24-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1277235-A **Opened:** 01-MAR-10 **Lot Number :** J02039
Name: B-HCL-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 01-MAR-11
Employee: Tara Griffin
Supplier: J T Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1277238-C **Opened:** 01-MAR-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1293083 **Opened:** 29-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 29-MAR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 04-APR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Standard Logbook

Serial ID: 1302252 **Opened:** 15-APR-10 **Lot Number :** J 10027 L
Name: I-HNO3 **Received:** 15-APR-10
Type: Reagent/Solvent **Expires:** 15-APR-11
Employee: Louis Hall
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1302255 **Opened:** 15-APR-10 **Lot Number :** J07033
Name: I-HCL **Received:** 15-APR-10 **Preservative Id :** 5 none
Type: Reagent/Solvent **Expires:** 15-APR-11
Employee: Louis Hall
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1303289 **Opened:** 19-APR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 19-APR-10
Type: Reagent/Solvent **Expires:** 26-APR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1302252	I-HNO3	69.0-70.0	160 mL	9 l	N/A
1302255	I-HCL	36.5-38.0	80 mL	9 l	N/A

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2025**

Method/Analysis Information

Product: Cyanide, Total

Analytical Batch: 960499 **Method:** SW9012A Cyanide and Total

Prep Batch : 960498 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
247997001	RE36-10-8492
1202060243	Method Blank (MB)
1202060244	248038001(RE11-10-1684) Sample Duplicate (DUP)
1202060245	248038002(RE11-10-1683) Sample Duplicate (DUP)
1202060246	248038001(RE11-10-1684) Matrix Spike (MS)
1202060247	248038002(RE11-10-1683) Matrix Spike (MS)
1202060248	248038001(RE11-10-1684) Matrix Spike Duplicate (MSD)
1202060249	248038002(RE11-10-1683) Matrix Spike Duplicate (MSD)
1202060250	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem FJA+ 8000 Series.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248038001 (RE11-10-1684) and 248038002 (RE11-10-1683).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202060245 (RE11-10-1683).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Nitrate Nitrite by Cadmium Reduction

Analytical Batch: 958150

Method: EPA 353.2 Nitrogen and Nitrate/Nitrite

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 353.2:

Sample ID	Client ID
247997001	RE36-10-8492
1202054725	Method Blank (MB)
1202054726	247793001(RE15-10-8330) Sample Duplicate (DUP)
1202054727	248044001(CAPA-10-12770) Sample Duplicate (DUP)
1202054728	248074001(SWWS46-10-13636) Sample Duplicate (DUP)
1202054729	247793001(RE15-10-8330) Post Spike (PS)
1202054730	248044001(CAPA-10-12770) Post Spike (PS)
1202054731	248074001(SWWS46-10-13636) Post Spike (PS)
1202054732	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-128 REV# 5.

Preparation/Analytical Method Verification

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

Calibration Information

The Nutrient analysis was performed on a Lachat QuickChem FIA+ 8500 Series.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 247793001 (RE15-10-8330), 248044001 (CAPA-10-12770) and 248074001 (SWWS46-10-13636).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202054726 (RE15-10-8330).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following samples in this sample group were diluted due to high concentration: 1202054728 (SWWS46-10-13636) and 1202054731 (SWWS46-10-13636). The following samples in this sample group were diluted due to matrix interference: 1202054726 (RE15-10-8330), 1202054727 (CAPA-10-12770), 1202054729 (RE15-10-8330), 1202054730 (CAPA-10-12770) and 247997001 (RE36-10-8492).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nick-DeA. Elmore Date: 3.22.10

Sample Data Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2025 GEL Work Order: 247997

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

Y. J. A. Elmore 3-22-10

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 15, 2010

Client SDG: 10-2025

Client Sample ID: RE36-10-8492
Sample ID: 247997001
Matrix: W
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	03/04/10	1530	960499	1
Nutrient Analysis											
<i>EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"</i>											
Nitrogen, Nitrate/Nitrite	J	0.062	0.050	0.250	mg/L	5	AXH3	03/03/10	1055	958150	2

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1259	960498

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	
2	EPA 353.2	

Quality Control Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: March 15, 2010

Page 1 of 2

Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 247997

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	960499										
QC1202060244	248038001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	03/04/10	15:34
QC1202060245	248038002	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A			03/04/10	15:41
QC1202060250	LCS										
Cyanide, Total	50.0				54.7	ug/L	109	(90%-110%)		03/04/10	15:27
QC1202060243	MB										
Cyanide, Total				U	5.00	ug/L				03/04/10	15:26
QC1202060246	248038001	MS									
Cyanide, Total	100	U	ND		115	ug/L	115	(60%-144%)		03/04/10	15:38
QC1202060247	248038002	MS									
Cyanide, Total	100	U	ND		106	ug/L	106	(60%-144%)		03/04/10	15:42
QC1202060248	248038001	MSD									
Cyanide, Total	100	U	ND		113	ug/L	1.75	113	(0%-20%)	03/04/10	15:39
QC1202060249	248038002	MSD									
Cyanide, Total	100	U	ND		117	ug/L	9.87	117	(0%-20%)	03/04/10	15:43
Nutrient Analysis											
Batch	958150										
QC1202054726	247793001	DUP									
Nitrogen, Nitrate/Nitrite		U	ND	J	0.111	mg/L	200	(+/-0.500)	AXH3	03/03/10	11:38
QC1202054727	248044001	DUP									
Nitrogen, Nitrate/Nitrite			0.446		0.428	mg/L	4.12	^	(+/-0.250)	03/03/10	11:11
QC1202054728	248074001	DUP									
Nitrogen, Nitrate/Nitrite			1.97		1.94	mg/L	1.28		(0%-20%)	03/03/10	11:28
QC1202054732	LCS										
Nitrogen, Nitrate/Nitrite	1.00				0.986	mg/L		98.6	(90%-110%)	03/03/10	10:50
QC1202054725	MB										
Nitrogen, Nitrate/Nitrite				J	0.0124	mg/L				03/03/10	10:49
QC1202054729	247793001	PS									
Nitrogen, Nitrate/Nitrite	1.00	U	ND		1.01	mg/L		100	(90%-110%)	03/03/10	11:40
QC1202054730	248044001	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.0892		1.05	mg/L		96.1	(90%-110%)	03/03/10	11:12
QC1202054731	248074001	PS									
Nitrogen, Nitrate/Nitrite	1.00		0.393		1.39	mg/L		99.7	(90%-110%)	03/03/10	11:29

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

< Result is less than value reported

> Result is greater than value reported

A The TIC is a suspected aldol-condensation product

GEL LABORATORIES LLC

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QC Summary

Workorder: 247997

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
B	For General Chemistry and Organic analysis the target analyte was detected in the associated blank.										
C	Analyte has been confirmed by GC/MS analysis										
D	Results are reported from a diluted aliquot of the sample										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
E	Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
E	Organics--Concentration of the target analyte exceeds the instrument calibration range										
F	Estimated Value										
H	Analytical holding time was exceeded										
J	Value is estimated										
M	Matrix Related Failure										
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 15-MAR-2010 11:04

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2025

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	04-MAR-2010 14:05:55	OM_3-4-2010_13-55-23	151	150	101	(90%-110%)	Yes
CCV	04-MAR-2010 15:22:30	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes
CCV	04-MAR-2010 15:35:01	OM_3-4-2010_13-55-23	103	100	103	(90%-110%)	Yes
CCV	04-MAR-2010 15:47:31	OM_3-4-2010_13-55-23	105	100	105	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	04-MAR-2010 14:07:45	OM_3-4-2010_13-55-23	-1.31	5	Yes
CCB	04-MAR-2010 15:24:20	OM_3-4-2010_13-55-23	-1.05	5	Yes
CCB	04-MAR-2010 15:36:53	OM_3-4-2010_13-55-23	-0.945	5	Yes
CCB	04-MAR-2010 15:49:22	OM_3-4-2010_13-55-23	-1.39	5	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 15-MAR-2010 11:04

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2025

Nutrient Analysis

Method: EPA 353.2

Concentration Units:mg/L

Instrument: Lachat Quickchem FIA+ 8500 Series

Parmname: Nitrogen, Nitrate/Nitrite

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	03-MAR-2010 10:40:18	OM_3-3-2010_10-30-06	0.983	1	98.3	(90%-110%)	Yes
CCV	03-MAR-2010 11:01:46	OM_3-3-2010_10-30-06	0.983	1	98.3	(90%-110%)	Yes
CCV	03-MAR-2010 11:17:24	OM_3-3-2010_10-30-06	1	1	100	(90%-110%)	Yes
CCV	03-MAR-2010 11:34:09	OM_3-3-2010_10-30-06	0.985	1	98.5	(90%-110%)	Yes
CCV	03-MAR-2010 11:50:55	OM_3-3-2010_10-30-06	0.968	1	96.8	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	03-MAR-2010 10:42:40	OM_3-3-2010_10-30-06	0.00396	0.05	Yes
CCB	03-MAR-2010 11:04:08	OM_3-3-2010_10-30-06	0.00204	0.05	Yes
CCB	03-MAR-2010 11:19:46	OM_3-3-2010_10-30-06	0.00357	0.05	Yes
CCB	03-MAR-2010 11:36:31	OM_3-3-2010_10-30-06	0.00385	0.05	Yes
CCB	03-MAR-2010 11:53:16	OM_3-3-2010_10-30-06	0.00438	0.05	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 960498.0		Verified by:			
Analyst: Alan Stanley					
Method: SW846 9010B Prep					
Lab SOP: GL-GC-E-067 REV# 13					
Instrument: Sartorius Balance B-001					
Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202060250	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
MS	1202060246	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202060247	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060248	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060249	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202060243 MB	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060250 LCS	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908001	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908002	04-MAR-2010 12:59:00	Water	25	25	1	>12
247908003	04-MAR-2010 12:59:00	Water	25	25	1	>12
247997001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248001001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248034001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248038001	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060244 DUP (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060246 MS (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060248 MSD (248038001)	04-MAR-2010 12:59:00	Water	25	25	1	>12
248038002	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060245 DUP (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060247 MS (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
1202060249 MSD (248038002)	04-MAR-2010 12:59:00	Water	25	25	1	>12
248039001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248046001	04-MAR-2010 12:59:00	Water	25	25	1	>12
248046002	04-MAR-2010 12:59:00	Water	25	25	1	>12
248053001	04-MAR-2010 12:59:00	Water	25	25	1	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 960498.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202060250	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.0125	mL
MS	1202060246	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202060247	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060248	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202060249	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
248053002	04-MAR-2010 12:59:00	Water	25	25	1	>12
248053003	04-MAR-2010 12:59:00	Water	25	25	1	>12

Comments:

Reagent/Solvent Lot ID	Description	Amount
1260189-C	50% H2SO4 CN Prep	2.5 mL
1270661-C	Bismuth Nitrate Solution	1.25 mL
1270663-C	0.8N H3NO3S	1.25 mL
1270669-C	51% MgCl2 Soln	1 mL
1273851-C	0.25N Sodium Hydroxide Solution	25 mL
WCN100304-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/4/2010 13:58:46	OM_3-4-2010_13-55-23
150 ppb		1	axc2	3/4/2010 13:59:38	OM_3-4-2010_13-55-23
100 ppb		1	axc2	3/4/2010 14:00:30	OM_3-4-2010_13-55-23
50 ppb		1	axc2	3/4/2010 14:01:23	OM_3-4-2010_13-55-23
10 ppb		1	axc2	3/4/2010 14:02:16	OM_3-4-2010_13-55-23
CRDL 5.0 ppb		1	axc2	3/4/2010 14:03:10	OM_3-4-2010_13-55-23
ICAL-00		1	axc2	3/4/2010 14:04:04	OM_3-4-2010_13-55-23
ICV		1	axc2	3/4/2010 14:05:55	OM_3-4-2010_13-55-23
ICB		1	axc2	3/4/2010 14:07:45	OM_3-4-2010_13-55-23
CRDL		1	axc2	3/4/2010 14:09:35	OM_3-4-2010_13-55-23
1202053284	957578	1	axc2	3/4/2010 14:11:25	OM_3-4-2010_13-55-23
1202053291	957578	25	axc2	3/4/2010 14:12:18	OM_3-4-2010_13-55-23
247899001	957578	1	axc2	3/4/2010 14:13:11	OM_3-4-2010_13-55-23
1202053285	957578	1	axc2	3/4/2010 14:14:05	OM_3-4-2010_13-55-23
1202053287	957578	1	axc2	3/4/2010 14:14:58	OM_3-4-2010_13-55-23
1202053289	957578	1	axc2	3/4/2010 14:15:51	OM_3-4-2010_13-55-23
247899002	957578	1	axc2	3/4/2010 14:16:44	OM_3-4-2010_13-55-23
1202053286	957578	1	axc2	3/4/2010 14:17:36	OM_3-4-2010_13-55-23
1202053288	957578	1	axc2	3/4/2010 14:18:29	OM_3-4-2010_13-55-23
1202053290	957578	1	axc2	3/4/2010 14:19:21	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:20:13	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:22:04	OM_3-4-2010_13-55-23
247899003	957578	1	axc2	3/4/2010 14:23:52	OM_3-4-2010_13-55-23
247899004	957578	1	axc2	3/4/2010 14:24:44	OM_3-4-2010_13-55-23
247899005	957578	1	axc2	3/4/2010 14:25:35	OM_3-4-2010_13-55-23
247899006	957578	1	axc2	3/4/2010 14:26:28	OM_3-4-2010_13-55-23
247899007	957578	1	axc2	3/4/2010 14:27:19	OM_3-4-2010_13-55-23
247899008	957578	1	axc2	3/4/2010 14:28:13	OM_3-4-2010_13-55-23
247899009	957578	1	axc2	3/4/2010 14:29:06	OM_3-4-2010_13-55-23
247899010	957578	1	axc2	3/4/2010 14:29:59	OM_3-4-2010_13-55-23
247899011	957578	1	axc2	3/4/2010 14:30:53	OM_3-4-2010_13-55-23
247899012	957578	1	axc2	3/4/2010 14:31:46	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:32:38	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:34:28	OM_3-4-2010_13-55-23
247899013	957578	1	axc2	3/4/2010 14:36:18	OM_3-4-2010_13-55-23
247899014	957578	1	axc2	3/4/2010 14:37:11	OM_3-4-2010_13-55-23
247899015	957578	1	axc2	3/4/2010 14:38:03	OM_3-4-2010_13-55-23
247899016	957578	1	axc2	3/4/2010 14:38:56	OM_3-4-2010_13-55-23
247899017	957578	1	axc2	3/4/2010 14:39:48	OM_3-4-2010_13-55-23
247899018	957578	1	axc2	3/4/2010 14:40:41	OM_3-4-2010_13-55-23
247899019	957578	1	axc2	3/4/2010 14:41:33	OM_3-4-2010_13-55-23
247899020	957578	1	axc2	3/4/2010 14:42:25	OM_3-4-2010_13-55-23
1202053292	957580	1	axc2	3/4/2010 14:43:17	OM_3-4-2010_13-55-23
1202053299	957580	25	axc2	3/4/2010 14:44:08	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:45:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:46:51	OM_3-4-2010_13-55-23
247907001	957580	1	axc2	3/4/2010 14:48:41	OM_3-4-2010_13-55-23
1202053293	957580	1	axc2	3/4/2010 14:49:35	OM_3-4-2010_13-55-23
1202053295*	957580	1	axc2	3/4/2010 14:50:28	OM_3-4-2010_13-55-23
1202053297	957580	1	axc2	3/4/2010 14:51:22	OM_3-4-2010_13-55-23
247907002	957580	1	axc2	3/4/2010 14:52:15	OM_3-4-2010_13-55-23
1202053294	957580	1	axc2	3/4/2010 14:53:09	OM_3-4-2010_13-55-23
1202053296	957580	1	axc2	3/4/2010 14:54:02	OM_3-4-2010_13-55-23
1202053298*	957580	1	axc2	3/4/2010 14:54:55	OM_3-4-2010_13-55-23
247907003*	957580	1	axc2	3/4/2010 14:55:47	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010 14:56:40	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010 14:57:33	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010 14:59:22	OM_3-4-2010_13-55-23

1202053295	957580	1	axc2	3/4/2010	15:01:12	OM_3-4-2010_13-55-23
1202053298	957580	1	axc2	3/4/2010	15:02:05	OM_3-4-2010_13-55-23
247907003	957580	1	axc2	3/4/2010	15:02:58	OM_3-4-2010_13-55-23
247907004	957580	1	axc2	3/4/2010	15:03:50	OM_3-4-2010_13-55-23
247907005	957580	1	axc2	3/4/2010	15:04:43	OM_3-4-2010_13-55-23
247907006	957580	1	axc2	3/4/2010	15:05:35	OM_3-4-2010_13-55-23
247907007	957580	1	axc2	3/4/2010	15:06:28	OM_3-4-2010_13-55-23
247907008	957580	1	axc2	3/4/2010	15:07:20	OM_3-4-2010_13-55-23
247907009	957580	1	axc2	3/4/2010	15:08:11	OM_3-4-2010_13-55-23
247907010	957580	1	axc2	3/4/2010	15:09:06	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:09:58	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:11:48	OM_3-4-2010_13-55-23
247907011	957580	1	axc2	3/4/2010	15:13:39	OM_3-4-2010_13-55-23
247907012	957580	1	axc2	3/4/2010	15:14:32	OM_3-4-2010_13-55-23
247907013	957580	1	axc2	3/4/2010	15:15:27	OM_3-4-2010_13-55-23
247907014	957580	1	axc2	3/4/2010	15:16:20	OM_3-4-2010_13-55-23
247907015	957580	1	axc2	3/4/2010	15:17:13	OM_3-4-2010_13-55-23
247907016	957580	1	axc2	3/4/2010	15:18:07	OM_3-4-2010_13-55-23
247907017	957580	1	axc2	3/4/2010	15:18:59	OM_3-4-2010_13-55-23
248045012	957580	1	axc2	3/4/2010	15:19:52	OM_3-4-2010_13-55-23
248045013	957580	1	axc2	3/4/2010	15:20:45	OM_3-4-2010_13-55-23
248045014	957580	1	axc2	3/4/2010	15:21:38	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:22:30	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:24:20	OM_3-4-2010_13-55-23
1202060243	960499	1	axc2	3/4/2010	15:26:09	OM_3-4-2010_13-55-23
1202060250	960499	1	axc2	3/4/2010	15:27:01	OM_3-4-2010_13-55-23
247908001	960499	1	axc2	3/4/2010	15:27:53	OM_3-4-2010_13-55-23
247908002	960499	1	axc2	3/4/2010	15:28:47	OM_3-4-2010_13-55-23
247908003	960499	1	axc2	3/4/2010	15:29:41	OM_3-4-2010_13-55-23
247997001	960499	1	axc2	3/4/2010	15:30:34	OM_3-4-2010_13-55-23
248001001	960499	1	axc2	3/4/2010	15:31:29	OM_3-4-2010_13-55-23
248034001	960499	1	axc2	3/4/2010	15:32:22	OM_3-4-2010_13-55-23
248038001	960499	1	axc2	3/4/2010	15:33:15	OM_3-4-2010_13-55-23
1202060244	960499	1	axc2	3/4/2010	15:34:09	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:35:01	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:36:53	OM_3-4-2010_13-55-23
1202060246	960499	1	axc2	3/4/2010	15:38:42	OM_3-4-2010_13-55-23
1202060248	960499	1	axc2	3/4/2010	15:39:36	OM_3-4-2010_13-55-23
248038002	960499	1	axc2	3/4/2010	15:40:29	OM_3-4-2010_13-55-23
1202060245	960499	1	axc2	3/4/2010	15:41:22	OM_3-4-2010_13-55-23
1202060247	960499	1	axc2	3/4/2010	15:42:15	OM_3-4-2010_13-55-23
1202060249	960499	1	axc2	3/4/2010	15:43:07	OM_3-4-2010_13-55-23
248039001	960499	1	axc2	3/4/2010	15:44:01	OM_3-4-2010_13-55-23
248046001	960499	1	axc2	3/4/2010	15:44:52	OM_3-4-2010_13-55-23
248046002	960499	1	axc2	3/4/2010	15:45:45	OM_3-4-2010_13-55-23
248053001	960499	1	axc2	3/4/2010	15:46:39	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:47:31	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:49:22	OM_3-4-2010_13-55-23
248053002	960499	1	axc2	3/4/2010	15:51:13	OM_3-4-2010_13-55-23
248053003	960499	1	axc2	3/4/2010	15:52:07	OM_3-4-2010_13-55-23
CCV		1	axc2	3/4/2010	15:52:59	OM_3-4-2010_13-55-23
CCB		1	axc2	3/4/2010	15:54:49	OM_3-4-2010_13-55-23

Original Run Filename: OM_3-4-2010_13-55-23.OMN created 3/4/2010 13:55:23
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-4-2010_13-55-23.OMN last modified 3/4/2010 15:55:54
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100304-01	1	S1	200	9.08	3/4/2010@13:58:46			200 ppb
WCN100304-02	1	S2	150	6.91	3/4/2010@13:59:38			150 ppb
WCN100304-03	1	S3	100	4.35	3/4/2010@14:00:30			100 ppb
WCN100304-04	1	S4	50.0	2.45	3/4/2010@14:01:23			50 ppb
WCN100304-05	1	S5	10.0	0.578	3/4/2010@14:02:16			10 ppb
WCN100304-06	1	S6	5.00	0.340	3/4/2010@14:03:10			CRDL 5.0 ppb
WCN100304-08	1	S7	0.00	0.0240	3/4/2010@14:04:04			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99948 > 0.99500					
Message			Pass					
Action			Continue					
WCN100304-07	1	S8	151	6.88	3/4/2010@14:05:55			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.8 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100304-08	1	S7	-1.31	0.0240	3/4/2010@14:07:45			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.31 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.31 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100304-06	1	S6	5.86	0.346	3/4/2010@14:09:35			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.86 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.86 > 2.50					
Message			Pass					
Action			None					
1202053284|957578|MB	1	1	-2.31	-0.0206	3/4/2010@14:11:25			
1202053291|LCS	1	2	18.3	0.904	3/4/2010@14:12:18		25.00	
247899001	1	3	-0.820	0.0461	3/4/2010@14:13:11			
1202053285|DUP	1	4	-0.872	0.0438	3/4/2010@14:14:05			
1202053287|MS	1	5	100	4.59	3/4/2010@14:14:58			
1202053289|MSD	1	6	99.8	4.57	3/4/2010@14:15:51			
247899002	1	7	1.56	0.153	3/4/2010@14:16:44			
1202053286|DUP	1	8	2.02	0.174	3/4/2010@14:17:36			
1202053288|MS	1	9	87.4	4.01	3/4/2010@14:18:29			
1202053290|MSD	1	10	94.8	4.35	3/4/2010@14:19:21			
WCN100304-03	1	S3	103	4.72	3/4/2010@14:20:13			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.1 < 10.0					

Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-1.38	0.0208	3/4/2010@14:22:04			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.38 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.38 > -5.00					
Message			CCB Passed					
Action			Continue					
247899003	1	11	-0.646	0.0540	3/4/2010@14:23:52			
247899004	1	12	-0.530	0.0592	3/4/2010@14:24:44			
247899005	1	13	-1.15	0.0313	3/4/2010@14:25:35			
247899006	1	14	0.280	0.0956	3/4/2010@14:26:28			
247899007	1	15	0.0899	0.0871	3/4/2010@14:27:19			
247899008	1	16	1.52	0.151	3/4/2010@14:28:13			
247899009	1	17	5.29	0.321	3/4/2010@14:29:06			
247899010	1	18	0.0677	0.0861	3/4/2010@14:29:59			
247899011	1	19	2.55	0.198	3/4/2010@14:30:53			
247899012	1	20	-0.401	0.0650	3/4/2010@14:31:46			
WCN100304-03	1	S3	104	4.77	3/4/2010@14:32:38			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.3 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.3 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-1.42	0.0192	3/4/2010@14:34:28			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.42 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.42 > -5.00					
Message			CCB Passed					
Action			Continue					
247899013	1	21	1.98	0.172	3/4/2010@14:36:18			
247899014	1	22	-0.282	0.0703	3/4/2010@14:37:11			
247899015	1	23	-0.685	0.0522	3/4/2010@14:38:03			
247899016	1	24	-1.13	0.0322	3/4/2010@14:38:56			
247899017	1	25	0.385	0.100	3/4/2010@14:39:48			
247899018	1	26	-0.640	0.0543	3/4/2010@14:40:41			
247899019	1	27	0.0545	0.0855	3/4/2010@14:41:33			
247899020	1	28	1.88	0.168	3/4/2010@14:42:25			
1202053292|957580|MB	1	29	-1.43	0.0185	3/4/2010@14:43:17			
1202053299|LCS	1	30	18.7	0.924	3/4/2010@14:44:08		25.00	
WCN100304-03	1	S3	104	4.75	3/4/2010@14:45:01			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-1.45	0.0178	3/4/2010@14:46:51			CCB
Known Conc:			0.00					

DQM Test: > + Concentration Limit						
Result:		-1.45 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.45 > -5.00				
Message		CCB Passed				
Action		Continue				
247907001	1	31	0.423	0.102	3/4/2010@14:48:41	
1202053293||DUP	1	32	3.32	0.232	3/4/2010@14:49:35	
1202053295||MS	1	33	45.9	2.15	3/4/2010@14:50:28	
1202053297||MSD	1	34	66.1	3.06	3/4/2010@14:51:22	
247907002	1	35	-0.678	0.0526	3/4/2010@14:52:15	
1202053294||DUP	1	36	-0.764	0.0487	3/4/2010@14:53:09	
1202053296||MS	1	37	44.0	2.06	3/4/2010@14:54:02	
1202053298||MSD	1	38	36.8	1.74	3/4/2010@14:54:55	
247907003	1	39	147	6.70	3/4/2010@14:55:47	
247907004	1	40	515	23.2	3/4/2010@14:56:40	
WCN100304-03	1	S3	105	4.80	3/4/2010@14:57:33	CCV
Known Conc:			100			
DQM Test: > + Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		4.8 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-0.946	0.0405	3/4/2010@14:59:22	CCB
Known Conc:			0.00			
DQM Test: > + Concentration Limit						
Result:		-0.946 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-0.946 > -5.00				
Message		CCB Passed				
Action		Continue				
1202053295||MS	1	33	48.1	2.24	3/4/2010@15:01:12	
1202053298||MSD	1	38	41.0	1.93	3/4/2010@15:02:05	
247907003	1	39	-0.540	0.0588	3/4/2010@15:02:58	
247907004	1	40	-0.705	0.0513	3/4/2010@15:03:50	
247907005	1	41	0.810	0.119	3/4/2010@15:04:43	
247907006	1	42	-1.32	0.0235	3/4/2010@15:05:35	
247907007	1	43	-0.570	0.0574	3/4/2010@15:06:28	
247907008	1	44	0.767	0.118	3/4/2010@15:07:20	
247907009	1	45	-1.10	0.0334	3/4/2010@15:08:11	
247907010	1	46	-0.113	0.0779	3/4/2010@15:09:06	
WCN100304-03	1	S3	103	4.72	3/4/2010@15:09:58	CCV
Known Conc:			100			
DQM Test: > + Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		3.1 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100304-08	1	S7	-1.40	0.0200	3/4/2010@15:11:48	CCB
Known Conc:			0.00			
DQM Test: > + Concentration Limit						
Result:		-1.40 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.40 > -5.00				
Message		CCB Passed				
Action		Continue				

247907011	1	47	0.796	0.119	3/4/2010@15:13:39		
247907012	1	48	-0.529	0.0593	3/4/2010@15:14:32		
247907013	1	49	-0.631	0.0547	3/4/2010@15:15:27		
247907014	1	50	-1.12	0.0329	3/4/2010@15:16:20		
247907015	1	51	-0.547	0.0584	3/4/2010@15:17:13		
247907016	1	52	-0.602	0.0560	3/4/2010@15:18:07		
247907017	1	53	-0.0840	0.0793	3/4/2010@15:18:59		
248045012	1	54	2.35	0.189	3/4/2010@15:19:52		
248045013	1	55	0.0806	0.0867	3/4/2010@15:20:45		
248045014	1	56	-0.941	0.0407	3/4/2010@15:21:38		
WCN100304-03	1	S3	103	4.71	3/4/2010@15:22:30		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100304-08	1	S7	-1.05	0.0360	3/4/2010@15:24:20		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.05 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.05 > -5.00				
Message			CCB Passed				
Action			Continue				
1202060243|960499|MB	1	57	-1.44	0.0185	3/4/2010@15:26:09		
1202060250|LCS	1	58	54.7	2.54	3/4/2010@15:27:01		
247908001	1	59	-1.24	0.0273	3/4/2010@15:27:53		
247908002	1	60	-1.23	0.0275	3/4/2010@15:28:47		
247908003	1	61	-1.31	0.0241	3/4/2010@15:29:41		
247997001	1	62	-1.39	0.0205	3/4/2010@15:30:34		
248001001	1	63	-1.27	0.0260	3/4/2010@15:31:29		
248034001	1	64	-1.28	0.0256	3/4/2010@15:32:22		
248038001	1	65	-1.45	0.0180	3/4/2010@15:33:15		
1202060244|DUP	1	66	-1.77	0.00344	3/4/2010@15:34:09		
WCN100304-03	1	S3	103	4.72	3/4/2010@15:35:01		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.1 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.1 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100304-08	1	S7	-0.945	0.0405	3/4/2010@15:36:53		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.945 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.945 > -5.00				
Message			CCB Passed				
Action			Continue				
1202060246|MS	1	67	115	5.25	3/4/2010@15:38:42		
1202060248|MSD	1	68	113	5.14	3/4/2010@15:39:36		
248038002	1	69	-1.15	0.0315	3/4/2010@15:40:29		
1202060245|DUP	1	70	-1.85	-3.69e-4	3/4/2010@15:41:22		
1202060247|MS	1	71	106	4.86	3/4/2010@15:42:15		
1202060249|MSD	1	72	117	5.36	3/4/2010@15:43:07		
248039001	1	73	-0.969	0.0395	3/4/2010@15:44:01		
248046001	1	74	-1.39	0.0206	3/4/2010@15:44:52		

248046002	1	75	-1.19	0.0296	3/4/2010@15:45:45			
248053001	1	76	-1.46	0.0172	3/4/2010@15:46:39			
WCN100304-03	1	S3	105	4.80	3/4/2010@15:47:31			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-1.39	0.0205	3/4/2010@15:49:22			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.39 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.39 > -5.00					
Message			CCB Passed					
Action			Continue					
248053002	1	77	-1.84	3.13e-4	3/4/2010@15:51:13			
248053003	1	78	-1.69	0.00722	3/4/2010@15:52:07			
WCN100304-03	1	S3	104	4.77	3/4/2010@15:52:59			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			4.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100304-08	1	S7	-1.14	0.0318	3/4/2010@15:54:49			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.14 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.14 > -5.00					
Message			CCB Passed					
Action			Continue					

Analyte Properties Table for OM_3-4-2010_13-55-23.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

3.97

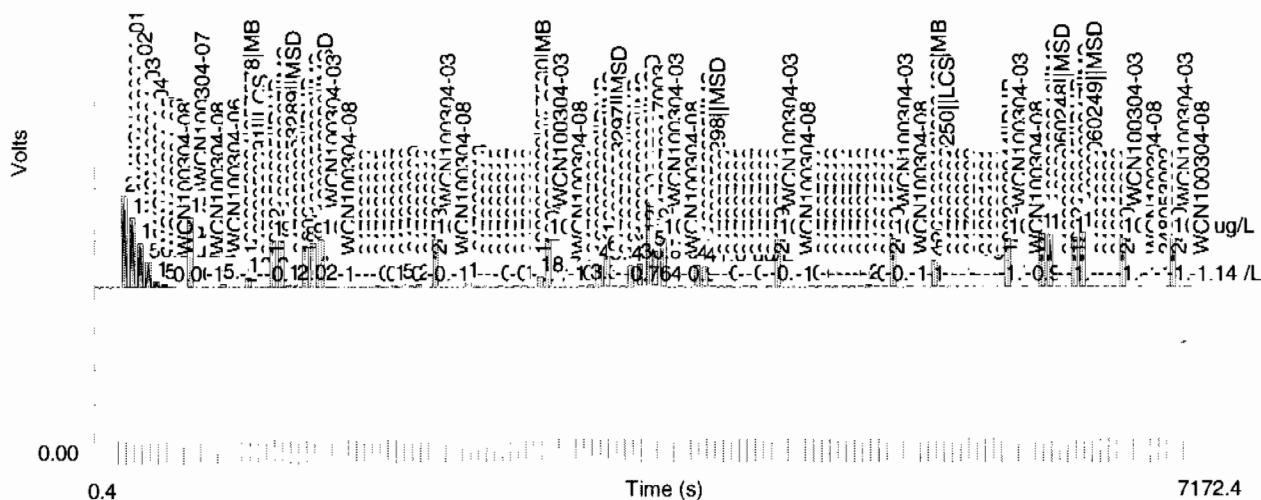
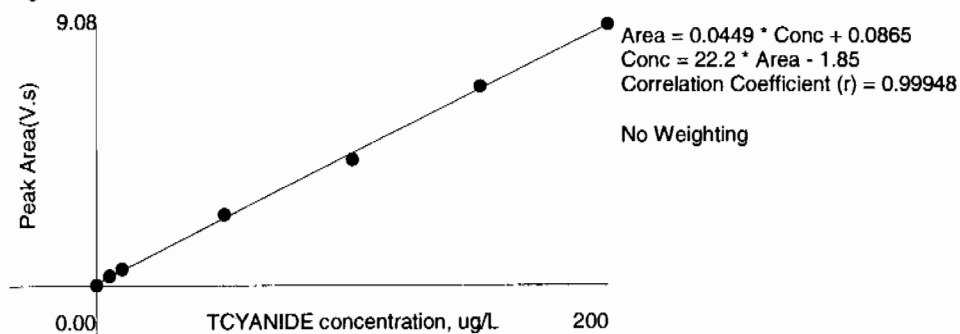


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.08	0.603	-0.2	3/4/2010	13:59:49
2	150	1	6.91	0.459	-1.3	3/4/2010	14:00:41
3	100	1	4.35	0.290	4.9	3/4/2010	14:01:33
4	50.0	1	2.45	0.161	-4.8	3/4/2010	14:02:26
5	10.0	1	0.578	0.0367	-7.9	3/4/2010	14:03:19
6	5.00	1	0.340	0.0210	-9.3	3/4/2010	14:04:13
7	0.00	1	0.0240	7.56e-4		3/4/2010	14:05:07

Figure 1: TCYANIDE



Nitrate Nitrite by Cadmium Reduction

This is runlog lachat3

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
1.5 PPM		1	axh3	3/3/2010 10:31:50	OM_3-3-2010_10-30-06
1.0 PPM		1	axh3	3/3/2010 10:33:02	OM_3-3-2010_10-30-06
0.5 ppm		1	axh3	3/3/2010 10:34:15	OM_3-3-2010_10-30-06
0.1 ppm		1	axh3	3/3/2010 10:35:29	OM_3-3-2010_10-30-06
0.05 ppm		1	axh3	3/3/2010 10:36:42	OM_3-3-2010_10-30-06
ICAL-00		1	axh3	3/3/2010 10:37:56	OM_3-3-2010_10-30-06
1.0 ppm ICV		1	axh3	3/3/2010 10:40:18	OM_3-3-2010_10-30-06
ICB		1	axh3	3/3/2010 10:42:40	OM_3-3-2010_10-30-06
Nitrate 1.0 ppm		1	axh3	3/3/2010 10:44:59	OM_3-3-2010_10-30-06
Nitrite 1.0 ppm		1	axh3	3/3/2010 10:47:19	OM_3-3-2010_10-30-06
1202054725	958150	1	axh3	3/3/2010 10:49:40	OM_3-3-2010_10-30-06
1202054732	958150	1	axh3	3/3/2010 10:50:53	OM_3-3-2010_10-30-06
247793001	958150	5	axh3	3/3/2010 10:52:06	OM_3-3-2010_10-30-06
1202054726	958150	5	axh3	3/3/2010 10:53:20	OM_3-3-2010_10-30-06
1202054729	958150	5	axh3	3/3/2010 10:54:32	OM_3-3-2010_10-30-06
247997001	958150	5	axh3	3/3/2010 10:55:44	OM_3-3-2010_10-30-06
248001001	958150	5	axh3	3/3/2010 10:56:57	OM_3-3-2010_10-30-06
248019001	958150	5	axh3	3/3/2010 10:58:10	OM_3-3-2010_10-30-06
248023001	958150	5	axh3	3/3/2010 10:59:22	OM_3-3-2010_10-30-06
248024002	958150	10	axh3	3/3/2010 11:00:34	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:01:46	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:04:08	OM_3-3-2010_10-30-06
248024004	958150	10	axh3	3/3/2010 11:05:20	OM_3-3-2010_10-30-06
248038001	958150	5	axh3	3/3/2010 11:06:32	OM_3-3-2010_10-30-06
248038002	958150	5	axh3	3/3/2010 11:07:44	OM_3-3-2010_10-30-06
248039001	958150	5	axh3	3/3/2010 11:08:55	OM_3-3-2010_10-30-06
248044001*	958150	5	axh3	3/3/2010 11:10:07	OM_3-3-2010_10-30-06
1202054727	958150	5	axh3	3/3/2010 11:11:20	OM_3-3-2010_10-30-06
1202054730	958150	5	axh3	3/3/2010 11:12:34	OM_3-3-2010_10-30-06
248044003	958150	5	axh3	3/3/2010 11:13:47	OM_3-3-2010_10-30-06
248046001	958150	5	axh3	3/3/2010 11:14:59	OM_3-3-2010_10-30-06
248046002	958150	5	axh3	3/3/2010 11:16:12	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:17:24	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:19:46	OM_3-3-2010_10-30-06
248044001	958150	5	axh3	3/3/2010 11:22:05	OM_3-3-2010_10-30-06
248053001	958150	5	axh3	3/3/2010 11:23:18	OM_3-3-2010_10-30-06
248053002	958150	5	axh3	3/3/2010 11:24:30	OM_3-3-2010_10-30-06
248053003	958150	5	axh3	3/3/2010 11:25:43	OM_3-3-2010_10-30-06
248074001	958150	5	axh3	3/3/2010 11:26:55	OM_3-3-2010_10-30-06
1202054728	958150	5	axh3	3/3/2010 11:28:07	OM_3-3-2010_10-30-06
1202054731	958150	5	axh3	3/3/2010 11:29:19	OM_3-3-2010_10-30-06
248074002	958150	5	axh3	3/3/2010 11:30:31	OM_3-3-2010_10-30-06
248074003	958150	5	axh3	3/3/2010 11:31:43	OM_3-3-2010_10-30-06
247793001	958150	10	axh3	3/3/2010 11:32:57	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:34:09	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:36:31	OM_3-3-2010_10-30-06
1202054726	958150	10	axh3	3/3/2010 11:38:51	OM_3-3-2010_10-30-06
1202054729	958150	10	axh3	3/3/2010 11:40:03	OM_3-3-2010_10-30-06
248039001	958150	10	axh3	3/3/2010 11:41:15	OM_3-3-2010_10-30-06
248046001	958150	10	axh3	3/3/2010 11:42:28	OM_3-3-2010_10-30-06
1202057088	959199	1	axh3	3/3/2010 11:43:39	OM_3-3-2010_10-30-06
1202057095	959199	1	axh3	3/3/2010 11:44:50	OM_3-3-2010_10-30-06
247853003	959199	5	axh3	3/3/2010 11:46:04	OM_3-3-2010_10-30-06
1202057089	959199	5	axh3	3/3/2010 11:47:17	OM_3-3-2010_10-30-06
1202057092	959199	5	axh3	3/3/2010 11:48:30	OM_3-3-2010_10-30-06
247853006	959199	25	axh3	3/3/2010 11:49:43	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010 11:50:55	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010 11:53:16	OM_3-3-2010_10-30-06

247853009	959199	5	axh3	3/3/2010	11:55:37	OM_3-3-2010_10-30-06
247853012	959199	10	axh3	3/3/2010	11:56:49	OM_3-3-2010_10-30-06
247853015	959199	10	axh3	3/3/2010	11:58:02	OM_3-3-2010_10-30-06
247853018	959199	50	axh3	3/3/2010	11:59:14	OM_3-3-2010_10-30-06
247966003	959199	5	axh3	3/3/2010	12:00:27	OM_3-3-2010_10-30-06
1202057096	959199	5	axh3	3/3/2010	12:01:39	OM_3-3-2010_10-30-06
1202057097	959199	5	axh3	3/3/2010	12:02:51	OM_3-3-2010_10-30-06
247966011	959199	5	axh3	3/3/2010	12:04:03	OM_3-3-2010_10-30-06
248044005	959199	5	axh3	3/3/2010	12:05:15	OM_3-3-2010_10-30-06
1202059915	959199	5	axh3	3/3/2010	12:06:27	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:07:39	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:10:01	OM_3-3-2010_10-30-06
1202059916	959199	5	axh3	3/3/2010	12:12:21	OM_3-3-2010_10-30-06
248072001	959199	5	axh3	3/3/2010	12:13:31	OM_3-3-2010_10-30-06
1202057091	959199	5	axh3	3/3/2010	12:14:43	OM_3-3-2010_10-30-06
1202057094	959199	5	axh3	3/3/2010	12:15:56	OM_3-3-2010_10-30-06
248072002	959199	5	axh3	3/3/2010	12:17:09	OM_3-3-2010_10-30-06
248072003	959199	5	axh3	3/3/2010	12:18:23	OM_3-3-2010_10-30-06
248103003	959199	5	axh3	3/3/2010	12:19:36	OM_3-3-2010_10-30-06
248108001	959199	5	axh3	3/3/2010	12:20:48	OM_3-3-2010_10-30-06
1202057090	959199	5	axh3	3/3/2010	12:22:01	OM_3-3-2010_10-30-06
1202057093	959199	5	axh3	3/3/2010	12:23:13	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:24:25	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:26:48	OM_3-3-2010_10-30-06
248117001	959199	5	axh3	3/3/2010	12:29:08	OM_3-3-2010_10-30-06
248126003	959199	5	axh3	3/3/2010	12:30:20	OM_3-3-2010_10-30-06
248127001	959199	5	axh3	3/3/2010	12:31:32	OM_3-3-2010_10-30-06
248199001	959199	5	axh3	3/3/2010	12:32:44	OM_3-3-2010_10-30-06
248238001	959199	5	axh3	3/3/2010	12:33:56	OM_3-3-2010_10-30-06
248238002	959199	5	axh3	3/3/2010	12:35:08	OM_3-3-2010_10-30-06
247966003	959199	5	axh3	3/3/2010	12:36:20	OM_3-3-2010_10-30-06
1202057096	959199	5	axh3	3/3/2010	12:37:32	OM_3-3-2010_10-30-06
1202057097	959199	5	axh3	3/3/2010	12:38:45	OM_3-3-2010_10-30-06
248108001	959199	10	axh3	3/3/2010	12:39:57	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:41:09	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	12:43:31	OM_3-3-2010_10-30-06
1202057090	959199	10	axh3	3/3/2010	12:45:52	OM_3-3-2010_10-30-06
1202057093	959199	10	axh3	3/3/2010	12:47:05	OM_3-3-2010_10-30-06
1202058290	959715	1	axh3	3/3/2010	12:48:17	OM_3-3-2010_10-30-06
1202058297	959715	1	axh3	3/3/2010	12:49:29	OM_3-3-2010_10-30-06
248044006	959715	5	axh3	3/3/2010	12:50:42	OM_3-3-2010_10-30-06
1202058291	959715	5	axh3	3/3/2010	12:51:54	OM_3-3-2010_10-30-06
1202058294	959715	5	axh3	3/3/2010	12:53:07	OM_3-3-2010_10-30-06
248164001	959715	5	axh3	3/3/2010	12:54:19	OM_3-3-2010_10-30-06
248164003	959715	5	axh3	3/3/2010	12:55:31	OM_3-3-2010_10-30-06
248261001	959715	5	axh3	3/3/2010	12:56:43	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	12:57:55	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:00:17	OM_3-3-2010_10-30-06
1202058292	959715	5	axh3	3/3/2010	13:02:37	OM_3-3-2010_10-30-06
1202058295	959715	5	axh3	3/3/2010	13:03:49	OM_3-3-2010_10-30-06
248298001	959715	5	axh3	3/3/2010	13:05:01	OM_3-3-2010_10-30-06
1202058293	959715	5	axh3	3/3/2010	13:06:15	OM_3-3-2010_10-30-06
1202058296	959715	5	axh3	3/3/2010	13:07:28	OM_3-3-2010_10-30-06
248298002	959715	5	axh3	3/3/2010	13:08:41	OM_3-3-2010_10-30-06
248298003	959715	5	axh3	3/3/2010	13:09:53	OM_3-3-2010_10-30-06
248382001	959715	5	axh3	3/3/2010	13:11:06	OM_3-3-2010_10-30-06
248382004	959715	5	axh3	3/3/2010	13:12:19	OM_3-3-2010_10-30-06
248401001	959715	5	axh3	3/3/2010	13:13:31	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	13:14:44	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:17:05	OM_3-3-2010_10-30-06

248401003	959715	5	axh3	3/3/2010	13:19:26	OM_3-3-2010_10-30-06
248401006	959715	5	axh3	3/3/2010	13:20:37	OM_3-3-2010_10-30-06
248407001	959715	5	axh3	3/3/2010	13:21:49	OM_3-3-2010_10-30-06
248419001	959715	5	axh3	3/3/2010	13:23:01	OM_3-3-2010_10-30-06
248419002	959715	5	axh3	3/3/2010	13:24:13	OM_3-3-2010_10-30-06
1.0 ppm CCV		1	axh3	3/3/2010	13:26:33	OM_3-3-2010_10-30-06
CCB		1	axh3	3/3/2010	13:28:56	OM_3-3-2010_10-30-06

Original Run Filename: OM_3-3-2010_10-30-06.OMN created 3/3/2010 10:30:06
 Original Run Author's Signature: [lachat]
 Current Run Filename: OM_3-3-2010_10-30-06.OMN last modified 3/3/2010 13:30:17
 Current Run Author's Signature: [lachat]
 Description: EPA 353.2
 Cadmium Column 9056CAJ
 LCS nominal 1.0 mg/L

Sample	Rep.	Cup No.	Channel 1 NO3 + NO2 Conc. (mg/L)		Detection Time	ADF	MDF	Description
				Area (Vs)				
WTR100303-26	1	S9	1.50	14.8	3/3/2010@10:31:50			1.5 PPM
WTR100303-25	1	S10	1.00	9.68	3/3/2010@10:33:02			1.0 PPM
WTR100303-24	1	S11	0.500	4.89	3/3/2010@10:34:15			0.5 ppm
WTR100303-23	1	S12	0.100	1.02	3/3/2010@10:35:29			0.1 ppm
WTR100303-21	1	S13	0.0500	0.312	3/3/2010@10:36:42			0.05 ppm
0.0ppm	1	S15	0.00	-0.0280	3/3/2010@10:37:56			0.0 ppm
DQM Test: Minimum Correlation Coefficient								
Result:			0.99989 > 0.99500					
Message			Calibration Passed					
Action			Continue					
WTR100303-27 ICV	1	S16	0.983	9.62	3/3/2010@10:40:18			1.0 ppm ICV
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.983 < 1.10					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.983 > 0.894					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
ICB	1	S15	0.00396	-0.0247	3/3/2010@10:42:40			ICB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.00396 < 0.0500					
Message			ICB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.00396 > -0.0500					
Message			ICB Passed					
Action			Continue					
WTR100303-22	1	S1	0.943	9.22	3/3/2010@10:44:59			Nitrate 1.0 ppm
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.943 < 1.10					
Message			Nitrate Standard Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.943 > 0.894					
Message			Nitrate Standard Passed					
Action			Continue					
WTR100303-28	1	S2	0.937	9.17	3/3/2010@10:47:19			Nitrite 1.0 ppm
Known Conc:			1.00					
DQM Test: > + Concentration Limit								
Result:			0.937 < 1.10					
Message			Nitrite Standard Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.937 > 0.894					
Message			Nitrite Standard Passed					
Action			Continue					
1202054725|958150|MB	1	1	0.0124	0.0582	3/3/2010@10:49:40			
1202054732|LCS	1	2	0.986	9.65	3/3/2010@10:50:53			
247793001	1	3	-0.0329	-0.388	3/3/2010@10:52:06		5.00	
1202054726|DUP	1	4	-0.0360	-0.419	3/3/2010@10:53:20		5.00	
1202054729|PS	1	5	0.348	3.36	3/3/2010@10:54:32		5.00	

247997001	1	6	0.0124	0.0585	3/3/2010@10:55:44	5.00	
248001001	1	7	0.0131	0.0653	3/3/2010@10:56:57	5.00	
248019001	1	8	0.196	1.87	3/3/2010@10:58:10	5.00	
248023001	1	9	0.0844	0.767	3/3/2010@10:59:22	5.00	
248024002	1	10	0.425	4.12	3/3/2010@11:00:34	10.00	
WTR100303-25 CCV	1	S10	0.983	9.62	3/3/2010@11:01:46		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			0.983 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.983 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00204	-0.0437	3/3/2010@11:04:08		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00204 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00204 > -0.0500				
Message			CCB Passed				
Action			Continue				
248024004	1	11	0.430	4.17	3/3/2010@11:05:20	10.00	
248038001	1	12	0.0214	0.147	3/3/2010@11:06:32	5.00	
248038002	1	13	0.0741	0.666	3/3/2010@11:07:44	5.00	
248039001	1	14	-0.0529	-0.584	3/3/2010@11:08:55	5.00	
248044001	1	15	2.97	29.2	3/3/2010@11:10:07	5.00	
1202054727||DUP	1	16	0.0856	0.779	3/3/2010@11:11:20	5.00	
1202054730||PS	1	17	1.05	10.3	3/3/2010@11:12:34	5.00	
248044003	1	18	0.0366	0.297	3/3/2010@11:13:47	5.00	
248046001	1	19	-0.0557	-0.613	3/3/2010@11:14:59	5.00	
248046002	1	20	-0.0479	-0.535	3/3/2010@11:16:12	5.00	
WTR100303-25 CCV	1	S10	1.00	9.80	3/3/2010@11:17:24		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			1.00 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.00 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00357	-0.0286	3/3/2010@11:19:46		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00357 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00357 > -0.0500				
Message			CCB Passed				
Action			Continue				
248044001	1	15	0.0892	0.815	3/3/2010@11:22:05	5.00	
248053001	1	21	0.0149	0.0826	3/3/2010@11:23:18	5.00	
248053002	1	22	0.0149	0.0834	3/3/2010@11:24:30	5.00	
248053003	1	23	0.0120	0.0547	3/3/2010@11:25:43	5.00	
248074001	1	24	0.393	3.81	3/3/2010@11:26:55	5.00	
1202054728||DUP	1	25	0.388	3.76	3/3/2010@11:28:07	5.00	
1202054731||PS	1	26	1.39	13.6	3/3/2010@11:29:19	5.00	
248074002	1	27	0.131	1.23	3/3/2010@11:30:31	5.00	
248074003	1	28	0.276	2.66	3/3/2010@11:31:43	5.00	
247793001	1	3	0.00533	-0.0112	3/3/2010@11:32:57	10.00	
WTR100303-25 CCV	1	S10	0.985	9.64	3/3/2010@11:34:09		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							

		Result:	0.985 < 1.10				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.985 > 0.894				
		Message	CCV Passed				
		Action	Continue				
CCB	1	S15	0.00385	-0.0258	3/3/2010@11:36:31		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	0.00385 < 0.0500				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.00385 > -0.0500				
		Message	CCB Passed				
		Action	Continue				
1202054726	DUP	1	4	0.0111	0.0460	3/3/2010@11:38:51	10.00
1202054729	PS	1	5	1.01	9.86	3/3/2010@11:40:03	10.00
248039001		1	14	-0.0350	-0.408	3/3/2010@11:41:15	10.00
248046001		1	19	-0.0330	-0.389	3/3/2010@11:42:28	10.00
1202057088	959199|MB	1	29	0.0116	0.0509	3/3/2010@11:43:39	
1202057095	LCS	1	30	1.00	9.79	3/3/2010@11:44:50	
247853003		1	31	0.0341	0.272	3/3/2010@11:46:04	5.00
1202057089	DUP	1	32	0.0331	0.263	3/3/2010@11:47:17	5.00
1202057092	PS	1	33	1.02	10.0	3/3/2010@11:48:30	5.00
247853006		1	34	0.196	1.87	3/3/2010@11:49:43	25.00
WTR100303-25	CCV	1	S10	0.968	9.47	3/3/2010@11:50:55	1.0 ppm CCV
		Known Conc:	1.00				
DQM Test: > + Concentration Limit							
		Result:	0.968 < 1.10				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.968 > 0.894				
		Message	CCV Passed				
		Action	Continue				
CCB	1	S15	0.00438	-0.0206	3/3/2010@11:53:16		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	0.00438 < 0.0500				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.00438 > -0.0500				
		Message	CCB Passed				
		Action	Continue				
247853009		1	35	0.0177	0.110	3/3/2010@11:55:37	5.00
247853012		1	36	0.204	1.94	3/3/2010@11:56:49	10.00
247853015		1	37	0.219	2.09	3/3/2010@11:58:02	10.00
247853018		1	38	0.268	2.58	3/3/2010@11:59:14	50.00
247966003		1	39	-0.0241	-0.301	3/3/2010@12:00:27	5.00
1202057096	DUP	1	40	-0.0245	-0.305	3/3/2010@12:01:39	5.00
1202057097	PS	1	41	0.767	7.49	3/3/2010@12:02:51	5.00
247966011		1	42	-0.0241	-0.301	3/3/2010@12:04:03	5.00
248044005		1	43	0.00946	0.0294	3/3/2010@12:05:15	5.00
1202059915	DUP	1	89	0.00965	0.0313	3/3/2010@12:06:27	5.00
WTR100303-25	CCV	1	S10	0.981	9.60	3/3/2010@12:07:39	1.0 ppm CCV
		Known Conc:	1.00				
DQM Test: > + Concentration Limit							
		Result:	0.981 < 1.10				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	0.981 > 0.894				
		Message	CCV Passed				
		Action	Continue				
CCB	1	S15	0.00404	-0.0239	3/3/2010@12:10:01		CCB

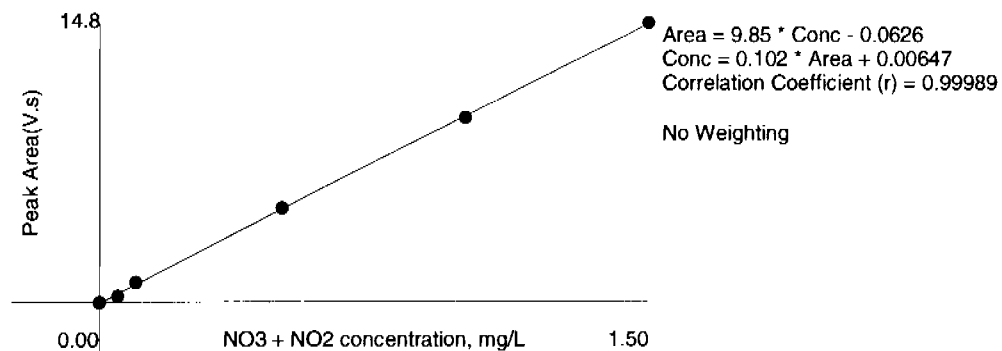
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00404 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00404 > -0.0500				
Message			CCB Passed				
Action			Continue				
1202059916||PS	1	90	1.04	10.2	3/3/2010@12:12:21		5.00
248072001	1	44	0.170	1.61	3/3/2010@12:13:31		5.00
1202057091||DUP	1	45	0.165	1.56	3/3/2010@12:14:43		5.00
1202057094||PS	1	46	1.18	11.6	3/3/2010@12:15:56		5.00
248072002	1	47	0.165	1.56	3/3/2010@12:17:09		5.00
248072003	1	48	0.184	1.75	3/3/2010@12:18:23		5.00
248103003	1	49	0.00535	-0.0110	3/3/2010@12:19:36		5.00
248108001	1	50	-0.0372	-0.430	3/3/2010@12:20:48		5.00
1202057090||DUP	1	51	-0.0370	-0.429	3/3/2010@12:22:01		5.00
1202057093||PS	1	52	0.357	3.45	3/3/2010@12:23:13		5.00
WTR100303-25 CCV	1	S10	1.01	9.89	3/3/2010@12:24:25		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			1.01 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.01 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00458	-0.0186	3/3/2010@12:26:48		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00458 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00458 > -0.0500				
Message			CCB Passed				
Action			Continue				
248117001	1	53	-0.0357	-0.415	3/3/2010@12:29:08		5.00
248126003	1	54	0.138	1.29	3/3/2010@12:30:20		5.00
248127001	1	55	0.126	1.17	3/3/2010@12:31:32		5.00
248199001	1	56	-0.0330	-0.389	3/3/2010@12:32:44		5.00
248238001	1	57	0.0119	0.0531	3/3/2010@12:33:56		5.00
248238002	1	58	0.0133	0.0676	3/3/2010@12:35:08		5.00
247966003	1	39	-0.0228	-0.288	3/3/2010@12:36:20		5.00
1202057096||DUP	1	40	-0.0241	-0.301	3/3/2010@12:37:32		5.00
1202057097||PS	1	41	0.737	7.19	3/3/2010@12:38:45		5.00
248108001	1	50	0.00805	0.0156	3/3/2010@12:39:57		10.00
WTR100303-25 CCV	1	S10	1.02	10.0	3/3/2010@12:41:09		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:			1.02 < 1.10				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			1.02 > 0.894				
Message			CCV Passed				
Action			Continue				
CCB	1	S15	0.00556	-0.00893	3/3/2010@12:43:31		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			0.00556 < 0.0500				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			0.00556 > -0.0500				
Message			CCB Passed				

		Action	Continue				
1202057090||DUP	1	51	0.0123	0.0576	3/3/2010@12:45:52	10.00	
1202057093||PS	1	52	1.10	10.8	3/3/2010@12:47:05	10.00	
1202058290|959715|MB	1	66	0.0112	0.0462	3/3/2010@12:48:17		
1202058297||LCS	1	67	1.02	10.0	3/3/2010@12:49:29		
248044006	1	68	0.00987	0.0335	3/3/2010@12:50:42	5.00	
1202058291||DUP	1	69	0.00950	0.0299	3/3/2010@12:51:54	5.00	
1202058294||PS	1	70	1.03	10.1	3/3/2010@12:53:07	5.00	
248164001	1	71	0.0321	0.253	3/3/2010@12:54:19	5.00	
248164003	1	72	0.0323	0.254	3/3/2010@12:55:31	5.00	
248261001	1	73	0.0490	0.418	3/3/2010@12:56:43	5.00	
WTR100303-25 CCV	1	S10	1.01	9.92	3/3/2010@12:57:55		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:		1.01 < 1.10					
Message		CCV Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		1.01 > 0.894					
Message		CCV Passed					
Action		Continue					
CCB	1	S15	0.00422	-0.0221	3/3/2010@13:00:17		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:		0.00422 < 0.0500					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		0.00422 > -0.0500					
Message		CCB Passed					
Action		Continue					
1202058292||DUP	1	74	0.0484	0.413	3/3/2010@13:02:37	5.00	
1202058295||PS	1	75	1.11	10.8	3/3/2010@13:03:49	5.00	
248298001	1	76	0.132	1.24	3/3/2010@13:05:01	5.00	
1202058293||DUP	1	77	0.126	1.18	3/3/2010@13:06:15	5.00	
1202058296||PS	1	78	1.18	11.6	3/3/2010@13:07:28	5.00	
248298002	1	79	0.127	1.19	3/3/2010@13:08:41	5.00	
248298003	1	80	0.152	1.44	3/3/2010@13:09:53	5.00	
248382001	1	81	0.146	1.37	3/3/2010@13:11:06	5.00	
248382004	1	82	0.151	1.42	3/3/2010@13:12:19	5.00	
248401001	1	83	0.0983	0.904	3/3/2010@13:13:31	5.00	
WTR100303-25 CCV	1	S10	1.02	9.94	3/3/2010@13:14:44		1.0 ppm CCV
Known Conc:			1.00				
DQM Test: > + Concentration Limit							
Result:		1.02 < 1.10					
Message		CCV Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		1.02 > 0.894					
Message		CCV Passed					
Action		Continue					
CCB	1	S15	0.00434	-0.0210	3/3/2010@13:17:05		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:		0.00434 < 0.0500					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		0.00434 > -0.0500					
Message		CCB Passed					
Action		Continue					
248401003	1	84	0.0611	0.538	3/3/2010@13:19:26	5.00	
248401006	1	85	0.0756	0.681	3/3/2010@13:20:37	5.00	
248407001	1	86	0.0122	0.0564	3/3/2010@13:21:49	5.00	
248419001	1	87	0.0150	0.0844	3/3/2010@13:23:01	5.00	
248419002	1	88	0.0129	0.0637	3/3/2010@13:24:13	5.00	
WTR100303-25 CCV	1	S10	0.994	9.72	3/3/2010@13:26:33		1.0 ppm CCV
Known Conc:			1.00				

Channel 1 (NO₃ + NO₂) : Current View



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Figure 1: NO₃ + NO₂

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2025-1**

Method/Analysis Information

Product: pH
Analytical Batch: 959481 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463
1202057887	248203002(WST36-10-8928) Sample Duplicate (DUP)
1202057888	248000001(RE36-10-8489) Sample Duplicate (DUP)
1202057889	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Electrode analysis was performed on a PerpHecT LogR pH/ISE.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248000001 (RE36-10-8489) and 248203002 (WST36-10-8928).

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

The following samples from this sample group were received by the lab outside of the method specified holding time: 1202057887 (WST36-10-8928), 1202057888 (RE36-10-8489), 248000001 (RE36-10-8489), 248000002 (RE36-10-8486), 248000003 (RE36-10-8487), 248000004 (RE36-10-8462) and 248000005 (RE36-10-8463).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Cyanide, Total

Analytical Batch: 958158 **Method:** SW9012A Cyanide and Total

Prep Batch : 958156 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463
1202054753	Method Blank (MB)
1202054754	248055015(RE11-10-1607) Sample Duplicate (DUP)
1202054755	248055016(RE11-10-1593) Sample Duplicate (DUP)
1202054756	248055015(RE11-10-1607) Matrix Spike (MS)
1202054757	248055016(RE11-10-1593) Matrix Spike (MS)
1202054758	248055015(RE11-10-1607) Matrix Spike Duplicate (MSD)
1202054759	248055016(RE11-10-1593) Matrix Spike Duplicate (MSD)
1202054760	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem FIA+ 8000 Series.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248055015 (RE11-10-1607) and 248055016 (RE11-10-1593).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

One or more of the values for the sample and/or duplicate are less than 5 times the Practical Quantitation Limit (PQL), and the difference is within one PQL value; therefore, the RPD is not applicable. 1202054754 (RE11-10-1607). The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202054755 (RE11-10-1593).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following sample in this sample group was diluted due to high concentration: 1202054760 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

The following DER was generated for this SDG: 800763 248000001 (RE36-10-8489), 248000002 (RE36-10-8486), 248000003 (RE36-10-8487), 248000004 (RE36-10-8462) and 248000005 (RE36-10-8463).

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Ion Chromatography

Analytical Batch: 962071 **Method:** EPA 300.0 Nitrate in Soil

Prep Batch : 962070 **Method:** EPA 300.0 PREP

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
248000001	RE36-10-8489
248000002	RE36-10-8486
248000003	RE36-10-8487
248000004	RE36-10-8462
248000005	RE36-10-8463
1202063582	Method Blank (MB)
1202063583	248000001(RE36-10-8489) Sample Duplicate (DUP)
1202063584	248002008(RE36-10-8482) Sample Duplicate (DUP)
1202063585	248000001(RE36-10-8489) Matrix Spike (MS)
1202063586	248002008(RE36-10-8482) Matrix Spike (MS)
1202063587	248000001(RE36-10-8489) Matrix Spike Duplicate (MSD)
1202063588	248002008(RE36-10-8482) Matrix Spike Duplicate (MSD)
1202063589	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-3000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248000001 (RE36-10-8489) and 248002008 (RE36-10-8482).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The spike recovery falls outside of the GEL acceptance limits but within the client specified limits. 1202063585 (RE36-10-8489) and 1202063586 (RE36-10-8482).

Matrix Spike Duplicate (MSD) Recovery Statement

The spike duplicate recovery falls outside of the GEL acceptance limits but within the client specified limits. 1202063587 (RE36-10-8489) and 1202063588 (RE36-10-8482).

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

The following DER was generated for this SDG: 808565 1202063585 (RE36-10-8489), 1202063586 (RE36-10-8482), 1202063587 (RE36-10-8489) and 1202063588 (RE36-10-8482).

Manual Integrations

Manual integrations were not required for the samples in this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Certification Statement

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

Review Validation:

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

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

Reviewer:

Dick-Cole A. Elmore Date: 3.24.10

Sample Data Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2025-1 GEL Work Order: 248000

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

Yuk-Cole A. Elmore 3.24.10

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8489
Sample ID: 248000001
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 4.81%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	7.27	0.010	0.100	SU	1	TXT1	03/01/10	1627	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.4	248	ug/kg	1	AXC2	03/05/10	1029	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.30	0.315	1.05	mg/kg	1	MAR1	03/19/10	2304	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8486
Sample ID: 248000002
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 3.41%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	8.62	0.010	0.100	SU	1	TXT1	03/01/10	1630	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	66.4	244	ug/kg	1	AXC2	03/05/10	1030	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.04	0.311	1.04	mg/kg	1	MAR1	03/20/10	0051	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8487
Sample ID: 248000003
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 5.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	7.35	0.010	0.100	SU	1	TXT1	03/01/10	1636	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.8	249	ug/kg	1	AXC2	03/05/10	1031	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.27	0.317	1.06	mg/kg	1	MAR1	03/20/10	0118	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8462
Sample ID: 248000004
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 1.51%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	8.47	0.010	0.100	SU	1	TXT1	03/01/10	1641	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	03/05/10	1032	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.77	0.305	1.02	mg/kg	1	MAR1	03/20/10	0145	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 24, 2010

Client SDG: 10-2025-1

Client Sample ID: RE36-10-8463
Sample ID: 248000005
Matrix: R
Collect Date: 19-FEB-10 12:00
Receive Date: 25-FEB-10
Collector: Client
Moisture: 2.73%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.6C	H	7.83	0.010	0.100	SU	1	TXT1	03/01/10	1642	959481	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	62.4	229	ug/kg	1	AXC2	03/05/10	1033	958158	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.87	0.308	1.03	mg/kg	1	MAR1	03/20/10	0212	962071	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/19/10	0950	962070
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/04/10	1302	958156

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 24, 2010

Page 1 of 3

Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 248000

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	959481										
QC1202057887	248203002	DUP									
pH		H	8.65	H	8.62	SU	0.347	(0%-10%)	TXT1	03/01/10	17:15
QC1202057888	248000001	DUP									
pH		H	7.27	H	7.31	SU	0.549	(0%-10%)		03/01/10	16:29
QC1202057889	LCS										
pH	7.00				6.99	SU	99.9	(95%-105%)		03/01/10	16:27
Flow Injection Analysis											
Batch	958158										
QC1202054754	248055015	DUP									
Cyanide, Total			426		638	ug/kg	39.8 ^	(+/-351)	AXC2	03/05/10	10:43
QC1202054755	248055016	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			03/05/10	10:47
QC1202054760	LCS										
Cyanide, Total	67900				78300	ug/kg	115	(32%-157%)		03/05/10	10:28
QC1202054753	MB										
Cyanide, Total				U	250	ug/kg				03/05/10	10:27
QC1202054756	248055015	MS									
Cyanide, Total	7710		426		6870	ug/kg	83.7	(26%-158%)		03/05/10	10:44
QC1202054757	248055016	MS									
Cyanide, Total	4900	U	ND		4740	ug/kg	96.7	(26%-158%)		03/05/10	10:48
QC1202054758	248055015	MSD									
Cyanide, Total	7020		426		5920	ug/kg	14.9	(0%-30%)		03/05/10	10:45
QC1202054759	248055016	MSD									
Cyanide, Total	5180	U	ND		4920	ug/kg	3.84	(0%-30%)		03/05/10	10:52
Ion Chromatography											
Batch	962071										
QC1202063583	248000001	DUP									
Nitrate-N			2.30		2.29	mg/kg	0.366 ^	(+/-1.05)	MAR1	03/19/10	23:30
QC1202063584	248002008	DUP									
Nitrate-N			1.68		1.68	mg/kg	0.188 ^	(+/-1.05)		03/20/10	08:02
QC1202063589	LCS										
Nitrate-N	50.0				46.6	mg/kg	93.1	(90%-110%)		03/19/10	22:37
QC1202063582	MB										
Nitrate-N				U	1.00	mg/kg				03/19/10	22:10
QC1202063585	248000001	MS									
Nitrate-N	52.5		2.30		49.0	mg/kg	88.9 *	(90%-110%)		03/19/10	23:57
QC1202063586	248002008	MS									
Nitrate-N	52.7		1.68		48.5	mg/kg	89 *	(90%-110%)		03/20/10	08:29
QC1202063587	248000001	MSD									
Nitrate-N	52.5		2.30		48.9	mg/kg	0.326	(0%-20%)		03/20/10	00:24
QC1202063588	248002008	MSD									
Nitrate-N	52.7		1.68		49.0	mg/kg	0.875	(0%-20%)		03/20/10	08:56

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QC Summary

Workorder: 248000

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 248000

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 24-MAR-2010 09:12

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2025-1

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	05-MAR-2010 10:22:22	OM_3-5-2010_10-11-54	148	150	98.7	(90%-110%)	Yes
CCV	05-MAR-2010 10:36:40	OM_3-5-2010_10-11-54	105	100	105	(90%-110%)	Yes
CCV	05-MAR-2010 10:49:05	OM_3-5-2010_10-11-54	106	100	106	(90%-110%)	Yes
CCV	05-MAR-2010 11:01:27	OM_3-5-2010_10-11-54	105	100	105	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	05-MAR-2010 10:24:13	OM_3-5-2010_10-11-54	-0.846	10	Yes
CCB	05-MAR-2010 10:38:30	OM_3-5-2010_10-11-54	-0.978	10	Yes
CCB	05-MAR-2010 10:50:54	OM_3-5-2010_10-11-54	-0.905	10	Yes
CCB	05-MAR-2010 11:03:17	OM_3-5-2010_10-11-54	-1.66	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 24-MAR-2010 09:12

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2025-1

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	19-MAR-2010 10:31:00	100319	4.6689	5	93.4	(90%-110%)	Yes
CCV	19-MAR-2010 21:16:00	100319	4.6251	5	92.5	(90%-110%)	Yes
CCV	20-MAR-2010 02:39:00	100319	7.2123	7.5	96.2	(90%-110%)	Yes
CCV	20-MAR-2010 06:14:00	100319	4.6655	5	93.3	(90%-110%)	Yes
CCV	20-MAR-2010 09:23:00	100319	7.2587	7.5	96.8	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	19-MAR-2010 10:58:00	100319	0	0.1	Yes
CCB	19-MAR-2010 21:43:00	100319	0	0.1	Yes
CCB	20-MAR-2010 03:06:00	100319	0	0.1	Yes
CCB	20-MAR-2010 06:41:00	100319	0	0.1	Yes
CCB	20-MAR-2010 09:49:00	100319	0	0.1	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID:	958156.0	Verified by:					
Analyst:	Alan Stanley		Type	Sample Id	Description	Serial Number	Spike Amount Spike Units
Method:	SW846 9010B Prep		LCS	1202054760	Total Cyanide Solid LCS	URF1200957-01	.25 g
Lab SOP:	GL-GC-E-067 REV# 13		MS	1202054756	Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025 mL
Instrument:	Sartorius Balance B-001		MS	1202054757	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025 mL
			MSD	1202054758	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025 mL
			MSD	1202054759	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025 mL
Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1	
1202054753 MB	04-MAR-2010 13:02:00	Soil	0.5	25	50	>12	
1202054760 LCS	04-MAR-2010 13:02:00	Soil	0.25	25	100	>12	
2480000001	04-MAR-2010 13:02:00	Soil	0.53	25	47.16981	>12	
2480000002	04-MAR-2010 13:02:00	Soil	0.53	25	47.16981	>12	
2480000003	04-MAR-2010 13:02:00	Soil	0.53	25	47.16981	>12	
2480000004	04-MAR-2010 13:02:00	Soil	0.5	25	50	>12	
2480000005	04-MAR-2010 13:02:00	Soil	0.56	25	44.64286	>12	
2480330001	04-MAR-2010 13:02:00	Soil	0.54	25	46.2963	>12	
2480330002	04-MAR-2010 13:02:00	Soil	0.52	25	48.07692	>12	
2480330003	04-MAR-2010 13:02:00	Soil	0.51	25	49.01961	>12	
2480330004	04-MAR-2010 13:02:00	Soil	0.57	25	43.85965	>12	
2480330005	04-MAR-2010 13:02:00	Soil	0.59	25	42.37288	>12	
2480330006	04-MAR-2010 13:02:00	Soil	0.55	25	45.45455	>12	
248055015	04-MAR-2010 13:02:00	Soil	0.5	25	50	>12	
1202054754 DUP (248055015)	04-MAR-2010 13:02:00	Soil	0.56	25	44.64286	>12	
1202054756 MS (248055015)	04-MAR-2010 13:02:00	Soil	0.51	25	49.01961	>12	
1202054758 MSD (248055015)	04-MAR-2010 13:02:00	Soil	0.56	25	44.64286	>12	
248055016	04-MAR-2010 13:02:00	Soil	0.52	25	48.07692	>12	
1202054755 DUP (248055016)	04-MAR-2010 13:02:00	Soil	0.5	25	50	>12	
1202054757 MS (248055016)	04-MAR-2010 13:02:00	Soil	0.56	25	44.64286	>12	
1202054759 MSD (248055016)	04-MAR-2010 13:02:00	Soil	0.53	25	47.16981	>12	

Analytical Logbook version 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 958156.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202054760	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202054756	Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MS	1202054757	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202054758	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL
MSD	1202054759	MS, ICV Secondary source standard for CN and phenol. Used to spike LCS.	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248055017	04-MAR-2010 13:02:00	Soil	0.51	2.5	49.01961	>12
248055018	04-MAR-2010 13:02:00	Soil	0.56	2.5	44.64286	>12
248055019	04-MAR-2010 13:02:00	Soil	0.53	2.5	47.16981	>12
248055020	04-MAR-2010 13:02:00	Soil	0.58	2.5	43.10345	>12
248065005	04-MAR-2010 13:02:00	Soil	0.52	2.5	48.07692	>12
248065007	04-MAR-2010 13:02:00	Soil	0.5	2.5	50	>12
248065008	04-MAR-2010 13:02:00	Soil	0.58	2.5	43.10345	>12

Reagent/Solvent Lot ID	Description	Amount	Comments:
1260189-C	50% H2SO4 CN Prep	2.5 mL	
1270661-C	Bismuth Nitrate Solution	1.25 mL	
1270663-C	0.8N H3NO3S	1.25 mL	
1270669-C	51% MgCl2 Soln	1 mL	
1273851-C	0.25N Sodium Hydroxide Solution	25 mL	
WCN100304-07	150 ppb CN Distilled ICV Standard	.0375 mL	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/5/2010 10:15:13	OM_3-5-2010_10-11-54
150 ppb		1	axc2	3/5/2010 10:16:05	OM_3-5-2010_10-11-54
100 ppb		1	axc2	3/5/2010 10:16:58	OM_3-5-2010_10-11-54
50 ppb		1	axc2	3/5/2010 10:17:51	OM_3-5-2010_10-11-54
10 ppb		1	axc2	3/5/2010 10:18:44	OM_3-5-2010_10-11-54
CRDL 5.0 ppb		1	axc2	3/5/2010 10:19:37	OM_3-5-2010_10-11-54
ICAL-00		1	axc2	3/5/2010 10:20:32	OM_3-5-2010_10-11-54
ICV		1	axc2	3/5/2010 10:22:22	OM_3-5-2010_10-11-54
ICB		1	axc2	3/5/2010 10:24:13	OM_3-5-2010_10-11-54
CRDL		1	axc2	3/5/2010 10:26:03	OM_3-5-2010_10-11-54
1202054753	958158	1	axc2	3/5/2010 10:27:52	OM_3-5-2010_10-11-54
1202054760	958158	25	axc2	3/5/2010 10:28:46	OM_3-5-2010_10-11-54
248000001	958158	1	axc2	3/5/2010 10:29:39	OM_3-5-2010_10-11-54
248000002	958158	1	axc2	3/5/2010 10:30:32	OM_3-5-2010_10-11-54
248000003	958158	1	axc2	3/5/2010 10:31:25	OM_3-5-2010_10-11-54
248000004	958158	1	axc2	3/5/2010 10:32:18	OM_3-5-2010_10-11-54
248000005	958158	1	axc2	3/5/2010 10:33:11	OM_3-5-2010_10-11-54
248033001	958158	1	axc2	3/5/2010 10:34:03	OM_3-5-2010_10-11-54
248033002	958158	1	axc2	3/5/2010 10:34:55	OM_3-5-2010_10-11-54
248033003	958158	1	axc2	3/5/2010 10:35:47	OM_3-5-2010_10-11-54
CCV		1	axc2	3/5/2010 10:36:40	OM_3-5-2010_10-11-54
CCB		1	axc2	3/5/2010 10:38:30	OM_3-5-2010_10-11-54
248033004	958158	1	axc2	3/5/2010 10:40:18	OM_3-5-2010_10-11-54
248033005	958158	1	axc2	3/5/2010 10:41:10	OM_3-5-2010_10-11-54
248033006	958158	1	axc2	3/5/2010 10:42:02	OM_3-5-2010_10-11-54
248055015	958158	1	axc2	3/5/2010 10:42:53	OM_3-5-2010_10-11-54
1202054754	958158	1	axc2	3/5/2010 10:43:45	OM_3-5-2010_10-11-54
1202054756	958158	1	axc2	3/5/2010 10:44:39	OM_3-5-2010_10-11-54
1202054758	958158	1	axc2	3/5/2010 10:45:32	OM_3-5-2010_10-11-54
248055016	958158	1	axc2	3/5/2010 10:46:26	OM_3-5-2010_10-11-54
1202054755	958158	1	axc2	3/5/2010 10:47:19	OM_3-5-2010_10-11-54
1202054757	958158	1	axc2	3/5/2010 10:48:12	OM_3-5-2010_10-11-54
CCV		1	axc2	3/5/2010 10:49:05	OM_3-5-2010_10-11-54
CCB		1	axc2	3/5/2010 10:50:54	OM_3-5-2010_10-11-54
1202054759	958158	1	axc2	3/5/2010 10:52:43	OM_3-5-2010_10-11-54
248055017	958158	1	axc2	3/5/2010 10:53:37	OM_3-5-2010_10-11-54
248055018	958158	1	axc2	3/5/2010 10:54:29	OM_3-5-2010_10-11-54
248055019	958158	1	axc2	3/5/2010 10:55:22	OM_3-5-2010_10-11-54
248055020	958158	1	axc2	3/5/2010 10:56:14	OM_3-5-2010_10-11-54
248065005	958158	1	axc2	3/5/2010 10:57:06	OM_3-5-2010_10-11-54
248065007	958158	1	axc2	3/5/2010 10:57:58	OM_3-5-2010_10-11-54
248065008	958158	1	axc2	3/5/2010 10:58:51	OM_3-5-2010_10-11-54
1202054761	958161	1	axc2	3/5/2010 10:59:42	OM_3-5-2010_10-11-54
1202054768	958161	25	axc2	3/5/2010 11:00:34	OM_3-5-2010_10-11-54
CCV		1	axc2	3/5/2010 11:01:27	OM_3-5-2010_10-11-54
CCB		1	axc2	3/5/2010 11:03:17	OM_3-5-2010_10-11-54
248033007	958161	1	axc2	3/5/2010 11:05:07	OM_3-5-2010_10-11-54
1202054762	958161	1	axc2	3/5/2010 11:06:01	OM_3-5-2010_10-11-54
1202054764	958161	1	axc2	3/5/2010 11:06:54	OM_3-5-2010_10-11-54
1202054766	958161	1	axc2	3/5/2010 11:07:48	OM_3-5-2010_10-11-54
248033008	958161	1	axc2	3/5/2010 11:08:41	OM_3-5-2010_10-11-54
1202054763	958161	1	axc2	3/5/2010 11:09:34	OM_3-5-2010_10-11-54
1202054765	958161	1	axc2	3/5/2010 11:10:28	OM_3-5-2010_10-11-54
1202054767	958161	1	axc2	3/5/2010 11:11:20	OM_3-5-2010_10-11-54
248033009	958161	1	axc2	3/5/2010 11:12:13	OM_3-5-2010_10-11-54
248041001	958161	1	axc2	3/5/2010 11:13:05	OM_3-5-2010_10-11-54
CCV		1	axc2	3/5/2010 11:13:58	OM_3-5-2010_10-11-54
CCB		1	axc2	3/5/2010 11:15:48	OM_3-5-2010_10-11-54

248041002*	958161	1	axc2	3/5/2010	11:17:36	OM_3-5-2010_10-11-54
248041003*	958161	1	axc2	3/5/2010	11:18:28	OM_3-5-2010_10-11-54
248041004*	958161	1	axc2	3/5/2010	11:19:21	OM_3-5-2010_10-11-54
248041005*	958161	1	axc2	3/5/2010	11:20:12	OM_3-5-2010_10-11-54
248058001*	958161	1	axc2	3/5/2010	11:21:05	OM_3-5-2010_10-11-54
248058002*	958161	1	axc2	3/5/2010	11:21:58	OM_3-5-2010_10-11-54
248058003*	958161	1	axc2	3/5/2010	11:22:53	OM_3-5-2010_10-11-54
248058004*	958161	1	axc2	3/5/2010	11:23:46	OM_3-5-2010_10-11-54
248058005*	958161	1	axc2	3/5/2010	11:24:40	OM_3-5-2010_10-11-54
248058006*	958161	1	axc2	3/5/2010	11:25:34	OM_3-5-2010_10-11-54
CCV		1	axc2	3/5/2010	11:26:26	OM_3-5-2010_10-11-54

Original Run Filename: OM_3-5-2010_10-11-54.OMN created 3/5/2010 10:11:54
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-5-2010_10-11-54.OMN last modified 3/5/2010 11:27:33
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE Conc. (ug/L)	Area (Vs)				
WCN100305-01	1	S1	200	9.13	3/5/2010@10:15:13			200 ppb
WCN100305-02	1	S2	150	6.89	3/5/2010@10:16:05			150 ppb
WCN100305-03	1	S3	100	4.52	3/5/2010@10:16:58			100 ppb
WCN100305-04	1	S4	50.0	2.40	3/5/2010@10:17:51			50 ppb
WCN100305-05	1	S5	10.0	0.566	3/5/2010@10:18:44			10 ppb
WCN100305-06	1	S6	5.00	0.329	3/5/2010@10:19:37			CRDL 5.0 ppb
WCN100305-08	1	S7	0.00	0.00105	3/5/2010@10:20:32			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99987 > 0.99500					
Message			Pass					
Action			Continue					
WCN100305-07	1	S8	148	6.78	3/5/2010@10:22:22			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100305-08	1	S7	-0.846	0.0363	3/5/2010@10:24:13			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.846 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.846 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100305-06	1	S6	5.75	0.335	3/5/2010@10:26:03			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.75 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.75 > 2.50					
Message			Pass					
Action			None					
1202054753|958158|MB	1	1	-1.10	0.0246	3/5/2010@10:27:52			
1202054760|LCS	1	2	31.3	1.49	3/5/2010@10:28:46		25.00	
248000001	1	3	-0.686	0.0435	3/5/2010@10:29:39			
248000002	1	4	-1.65	-1.40e-4	3/5/2010@10:30:32			
248000003	1	5	-0.583	0.0482	3/5/2010@10:31:25			
248000004	1	6	-1.10	0.0249	3/5/2010@10:32:18			
248000005	1	7	-0.0458	0.0725	3/5/2010@10:33:11			
248033001	1	8	0.690	0.106	3/5/2010@10:34:03			
248033002	1	9	2.55	0.190	3/5/2010@10:34:55			
248033003	1	10	0.898	0.115	3/5/2010@10:35:47			
WCN100305-03	1	S3	105	4.81	3/5/2010@10:36:40			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.7 < 10.0					

			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.7 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100305-08	1	S7		-0.978	0.0303	3/5/2010@10:38:30		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.978 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.978 > -5.00				
			Message	CCB Passed				
			Action	Continue				
248033004	1	11		0.725	0.107	3/5/2010@10:40:18		
248033005	1	12		-0.492	0.0523	3/5/2010@10:41:10		
248033006	1	13		-0.189	0.0660	3/5/2010@10:42:02		
248055015	1	14		5.42	0.320	3/5/2010@10:42:53		
1202054754|DUP	1	15		9.09	0.486	3/5/2010@10:43:45		
1202054756|MS	1	16		89.2	4.11	3/5/2010@10:44:39		
1202054758|MSD	1	17		84.4	3.89	3/5/2010@10:45:32		
248055016	1	18		-1.65	-1.35e-4	3/5/2010@10:46:26		
1202054755|DUP	1	19		-0.941	0.0320	3/5/2010@10:47:19		
1202054757|MS	1	20		96.7	4.45	3/5/2010@10:48:12		
WCN100305-03	1	S3		106	4.87	3/5/2010@10:49:05		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	5.9 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	5.9 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100305-08	1	S7		-0.905	0.0336	3/5/2010@10:50:54		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.905 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.905 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202054759|MSD	1	21		95.1	4.38	3/5/2010@10:52:43		
248055017	1	22		-1.41	0.0106	3/5/2010@10:53:37		
248055018	1	23		73.0	3.38	3/5/2010@10:54:29		
248055019	1	24		-1.65	-1.34e-4	3/5/2010@10:55:22		
248055020	1	25		0.757	0.109	3/5/2010@10:56:14		
248065005	1	26		0.299	0.0881	3/5/2010@10:57:06		
248065007	1	27		0.579	0.101	3/5/2010@10:57:58		
248065008	1	28		1.27	0.132	3/5/2010@10:58:51		
1202054761|958161|MB	1	29		-1.17	0.0216	3/5/2010@10:59:42		
1202054768|LCS	1	30		22.4	1.09	3/5/2010@11:00:34	25.00	
WCN100305-03	1	S3		105	4.84	3/5/2010@11:01:27		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	5.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	5.4 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100305-08	1	S7		-1.66	-5.98e-4	3/5/2010@11:03:17		CCB
			Known Conc:	0.00				

DQM Test: > + Concentration Limit						
Result:		-1.66 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.66 > -5.00				
Message		CCB Passed				
Action		Continue				
248033007	1	31	-0.405	0.0562	3/5/2010@11:05:07	
1202054762	DUP	32	-0.286	0.0616	3/5/2010@11:06:01	
1202054764	MS	33	92.5	4.26	3/5/2010@11:06:54	
1202054766	MSD	34	85.6	3.95	3/5/2010@11:07:48	
248033008	1	35	-0.629	0.0461	3/5/2010@11:08:41	
1202054763	DUP	36	-0.450	0.0542	3/5/2010@11:09:34	
1202054765	MS	37	79.3	3.66	3/5/2010@11:10:28	
1202054767	MSD	38	98.5	4.53	3/5/2010@11:11:20	
248033009	1	39	0.790	0.110	3/5/2010@11:12:13	
248041001	1	40	-0.284	0.0617	3/5/2010@11:13:05	
WCN100305-03	1	S3	105	4.84	3/5/2010@11:13:58	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		5.3 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		5.3 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100305-08	1	S7	-1.65	0.00	3/5/2010@11:15:48	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.65 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.65 > -5.00				
Message		CCB Passed				
Action		Continue				
248041002	1	41	0.0447	0.0766	3/5/2010@11:17:36	
248041003	1	42	3.12	0.216	3/5/2010@11:18:28	
248041004	1	43	-0.946	0.0317	3/5/2010@11:19:21	
248041005	1	44	0.799	0.111	3/5/2010@11:20:12	
248058001	1	45	0.398	0.0926	3/5/2010@11:21:05	
248058002	1	46	-0.864	0.0354	3/5/2010@11:21:58	
248058003	1	47	-1.65	-3.53e-4	3/5/2010@11:22:53	
248058004	1	48	2.77	0.200	3/5/2010@11:23:46	
248058005	1	49	0.181	0.0827	3/5/2010@11:24:40	
248058006	1	50	-0.752	0.0405	3/5/2010@11:25:34	
WCN100305-03	1	S3	114	5.24	3/5/2010@11:26:26	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		14.1 > 10.0				
Message		CCV Failed				
Action		Stop Run				
DQM Test: < - Percent Relative Difference						
Result:		14.1 > 10.0				
Message		CCV Passed				
Action		Continue				

Analyte Properties Table for OM_3-5-2010_10-11-54.OMN

Property	Channel 1
Concentration Units	TCYANIDE ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None

Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

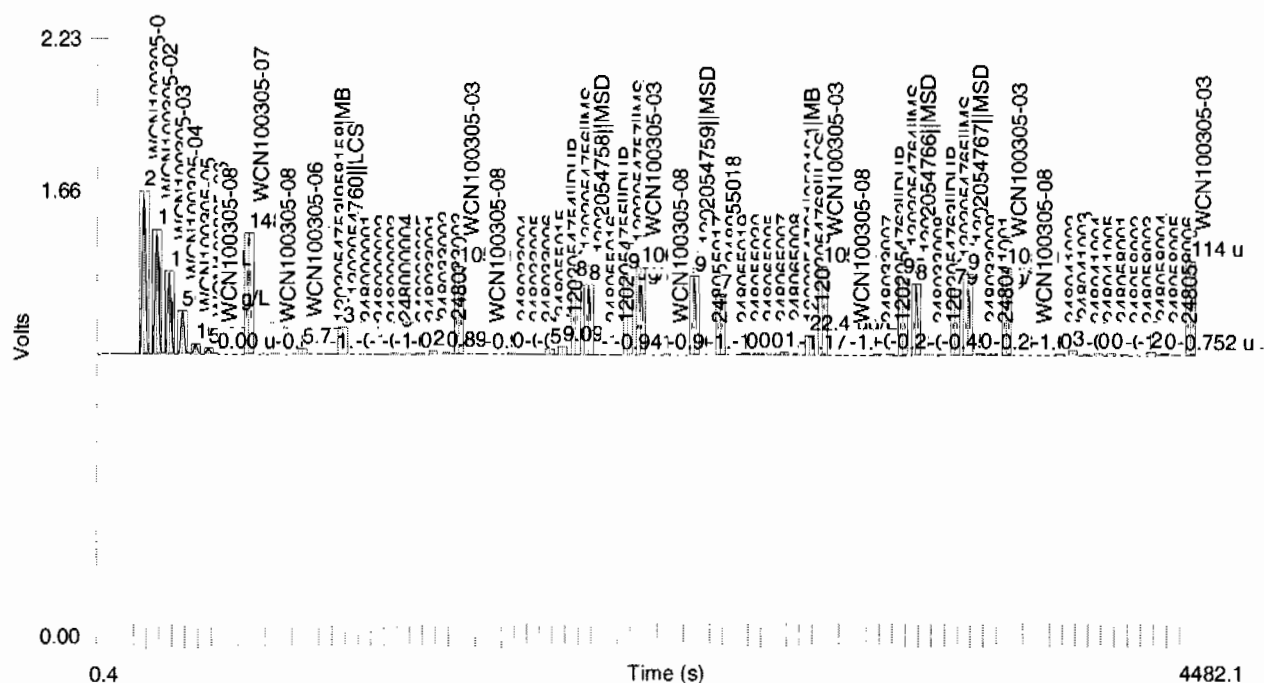
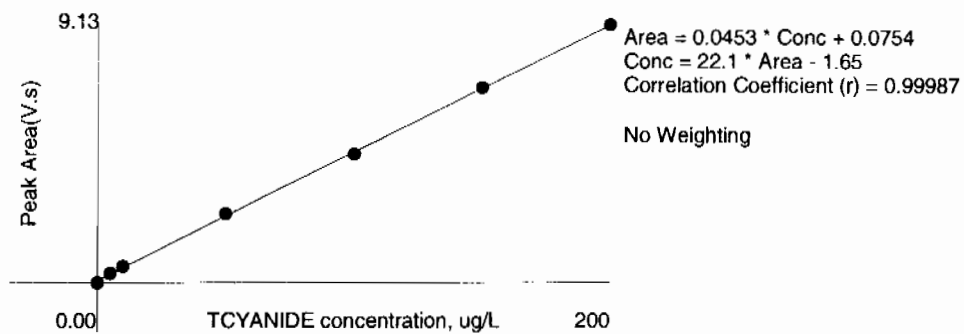


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.13	0.605	-0.1	3/5/2010	10:16:16
2	150	1	6.89	0.460	-0.4	3/5/2010	10:17:08
3	100	1	4.52	0.305	1.8	3/5/2010	10:18:01
4	50.0	1	2.40	0.159	-2.7	3/5/2010	10:18:54
5	10.0	1	0.566	0.0371	-7.2	3/5/2010	10:19:47
6	5.00	1	0.329	0.0204	-9.1	3/5/2010	10:20:41
7	0.00	1	0.00105	-7.02e-5		3/5/2010	10:21:35

Figure 1: TCYANIDE



Ion Chromatography

Prep Logbook

Ion Chromatography (IC)

Batch ID: 962070.0
Analyst: Mary Sherwood
Method: EPA 300.0 PREP
Lab SOP: GL-GC-E-086 REV# 17
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202063589	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
MS	1202063585	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
MS	1202063586	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
MSD	1202063587	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
MSD	1202063588	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202063582 MB	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063589 LCS	19-MAR-2010 09:50:00	Soil	4	40	10	
2480000001	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063583 DUP (2480000001)	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063585 MS (2480000001)	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063587 MSD (2480000001)	19-MAR-2010 09:50:00	Soil	4	40	10	
2480000002	19-MAR-2010 09:50:00	Soil	4	40	10	
2480000003	19-MAR-2010 09:50:00	Soil	4	40	10	
2480000004	19-MAR-2010 09:50:00	Soil	4	40	10	
2480000005	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002001	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002002	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002003	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002004	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002005	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002006	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002007	19-MAR-2010 09:50:00	Soil	4	40	10	
2480002008	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063584 DUP (2480002008)	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063586 MS (2480002008)	19-MAR-2010 09:50:00	Soil	4	40	10	
1202063588 MSD (2480002008)	19-MAR-2010 09:50:00	Soil	4	40	10	

Reagent/Solvent Lot ID	Description	Amount	Comments:
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Analytical Logbook version 1 11-04-2002

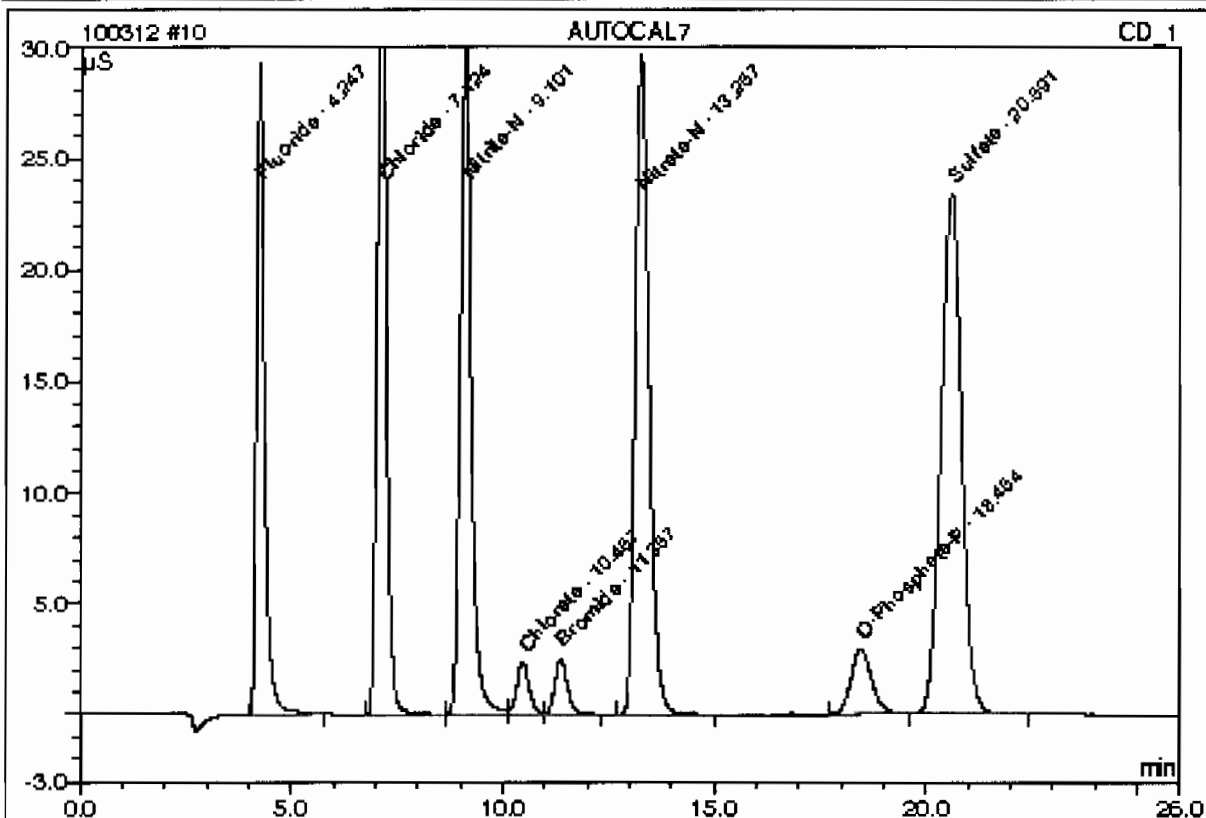
GEL Laboratories LLC

This is runlog for Sequence 100312.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/12/10 11:16		1	100312	MAR1
BLK	03/12/10 11:44		1	100312	MAR1
ICAL-07	03/12/10 12:13		1	100312	MAR1
ICAL-06	03/12/10 12:42		1	100312	MAR1
ICAL-05	03/12/10 13:11		1	100312	MAR1
ICAL-04	03/12/10 13:40		1	100312	MAR1
ICAL-03	03/12/10 14:08		1	100312	MAR1
ICAL-02	03/12/10 14:37		1	100312	MAR1
ICAL-01	03/12/10 15:06		1	100312	MAR1
ICV	03/12/10 15:35		1	100312	MAR1
ICB	03/12/10 16:04		1	100312	MAR1
1202063659	03/12/10 16:33	962090	1	100312	MAR1
1202063663	03/12/10 17:02	962090	1	100312	MAR1
248065001	03/12/10 17:31	962090	1	100312	MAR1
1202063660	03/12/10 18:00	962090	1	100312	MAR1
1202063661	03/12/10 18:29	962090	1	100312	MAR1
1202063662	03/12/10 18:58	962090	1	100312	MAR1
248065002	03/12/10 19:27	962090	1	100312	MAR1
248065003	03/12/10 19:55	962090	1	100312	MAR1
248065004	03/12/10 20:24	962090	1	100312	MAR1
248065005	03/12/10 20:53	962090	1	100312	MAR1
CVH	03/12/10 21:22		1	100312	MAR1
CCB	03/12/10 21:51		1	100312	MAR1
248065006	03/12/10 22:20	962090	1	100312	MAR1
248065007	03/12/10 22:49	962090	1	100312	MAR1
248065008	03/12/10 23:18	962090	1	100312	MAR1
248068001	03/12/10 23:47	962090	1	100312	MAR1

10 AUTOCAL7

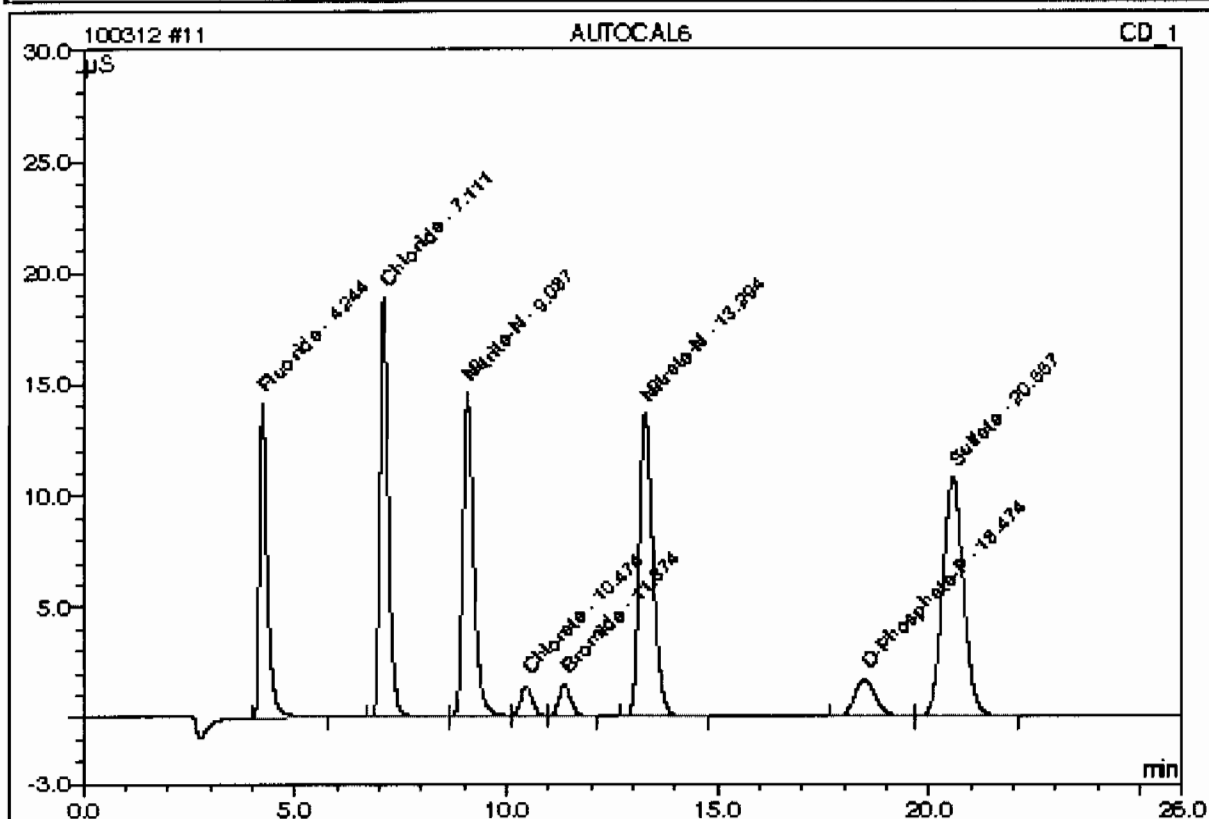
Sample Name:	AUTOCAL7	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 12:13	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	10.0000	10.0082		6.22157	11.84
2	7.12	Chloride	20.0000	20.0326		9.47163	18.02
3	9.10	Nitrite-N	10.0000	10.0084		9.13994	17.39
4	10.47	Chlorate	5.0000	5.0492		0.79245	1.51
5	11.37	Bromide	5.0000	5.0195		0.84636	1.61
6	13.26	Nitrate-N	10.0000	10.0123		11.22910	21.36
7	18.45	O-Phosphate-P	5.0000	5.0489		1.66651	3.17
8	20.59	Sulfate	40.0000	40.0441		13.19754	25.11
Total:				105.2231	0.000	52.565	100.00

11 AUTOCAL6

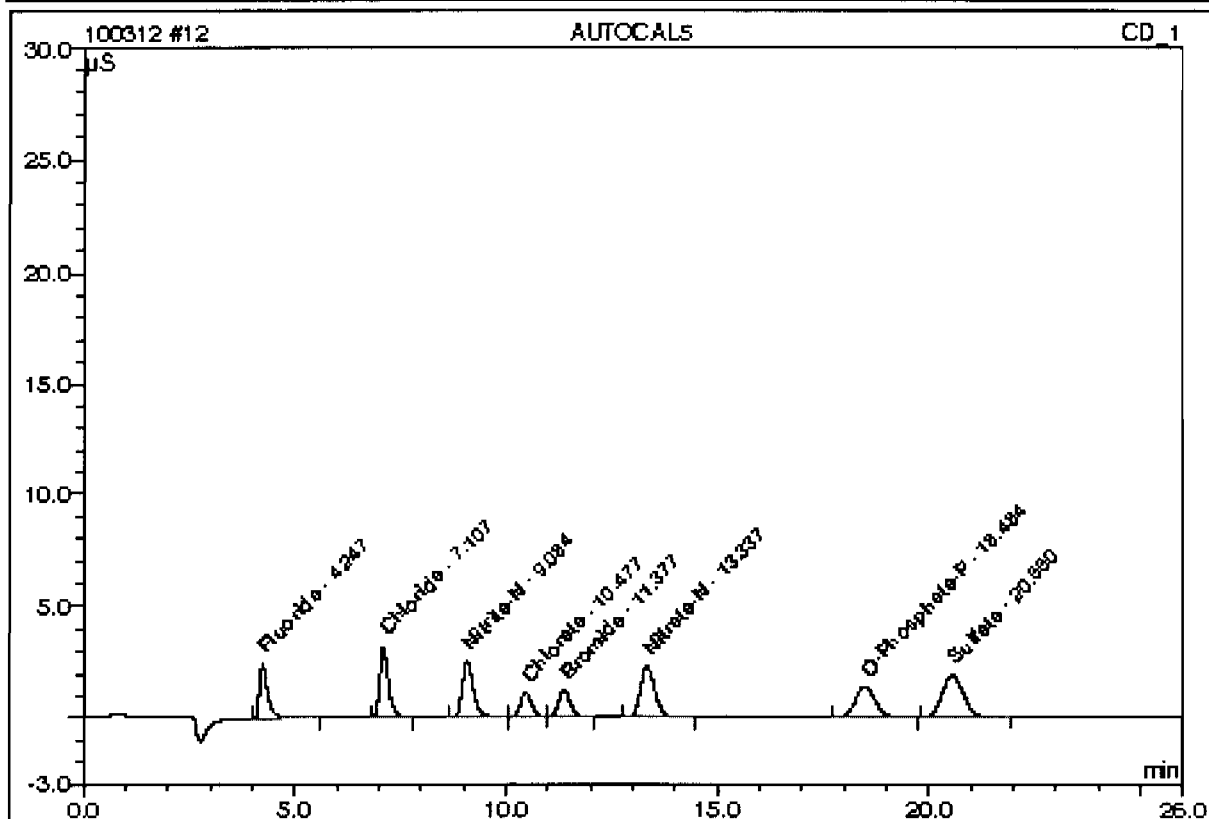
Sample Name:	AUTOCAL6	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 12:42	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.24	Fluoride	5.0000	4.8561		2.99032	12.03
2	7.11	Chloride	10.0000	9.3413		4.33873	17.46
3	9.09	Nitrite-N	5.0000	4.8263		4.34814	17.50
4	10.47	Chlorate	3.0000	2.9358		0.46050	1.85
5	11.37	Bromide	3.0000	2.9362		0.49122	1.98
6	13.29	Nitrate-N	5.0000	4.6985		5.14610	20.71
7	18.47	O-Phosphate-P	3.0000	2.9248		0.95491	3.84
8	20.57	Sulfate	20.0000	18.9050		6.12051	24.63
Total:				51.4240	0.000	24.850	100.00

12 AUTOCAL5

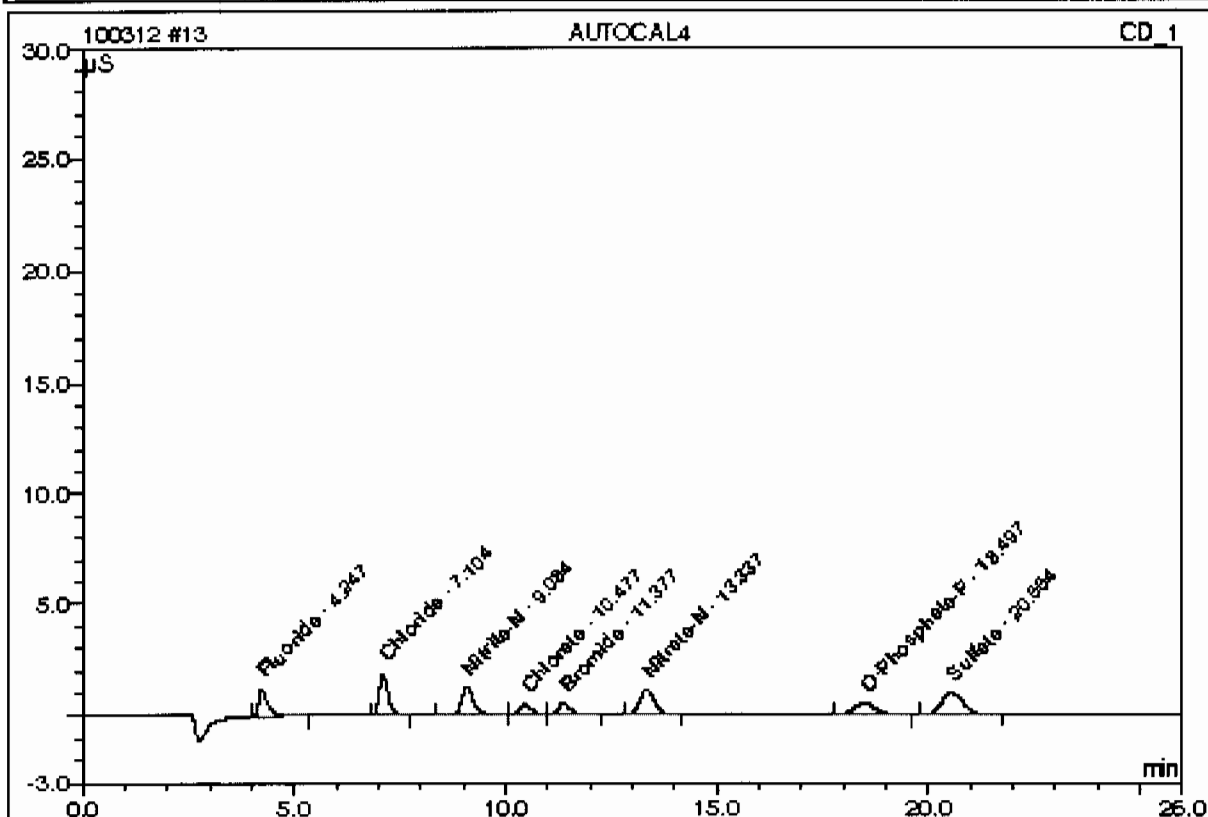
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 13:11	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	1.0000	0.9247		0.54471	9.60
2	7.11	Chloride	2.0000	1.7462		0.75932	13.38
3	9.08	Nitrate-N	1.0000	0.9359		0.79384	13.99
4	10.48	Chlorate	2.5000	2.3846		0.36888	6.50
5	11.38	Bromide	2.5000	2.4488		0.40750	7.18
6	13.34	Nitrate-N	1.0000	0.9150		0.90731	15.99
7	18.48	O-Phosphate-P	2.5000	2.4403		0.78917	13.90
8	20.55	Sulfate	4.0000	3.6492		1.10495	19.47
Total:				15.4446	0.000	5.676	100.00

13 AUTOCAL4

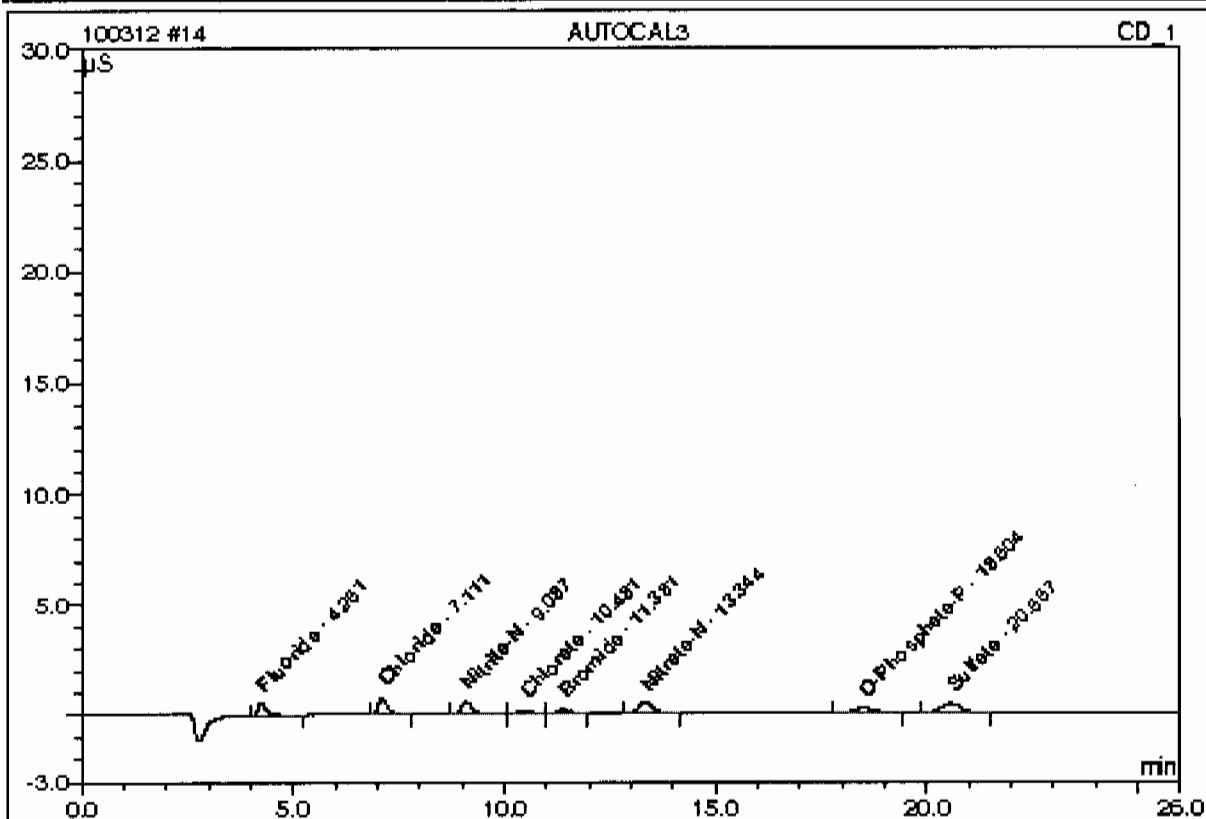
Sample Name:	AUTOCAL4	Injection Volume:	1.0
Vial Number:	6	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 13:40	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	0.5000	0.5181		0.29079	10.43
2	7.10	Chloride	1.0000	1.0724		0.44928	16.11
3	9.08	Nitrite-N	0.5000	0.5242		0.41773	14.98
4	10.48	Chlorate	1.0000	1.0431		0.15901	5.70
5	11.38	Bromide	1.0000	1.0406		0.17190	6.16
6	13.34	Nitrate-N	0.5000	0.5021		0.43247	15.51
7	18.50	O-Phosphate-P	1.0000	0.9735		0.29999	10.76
8	20.55	Sulfate	2.0000	2.0444		0.56783	20.36
Total:				7.7184	0.000	2.789	100.00

14 AUTOCAL3

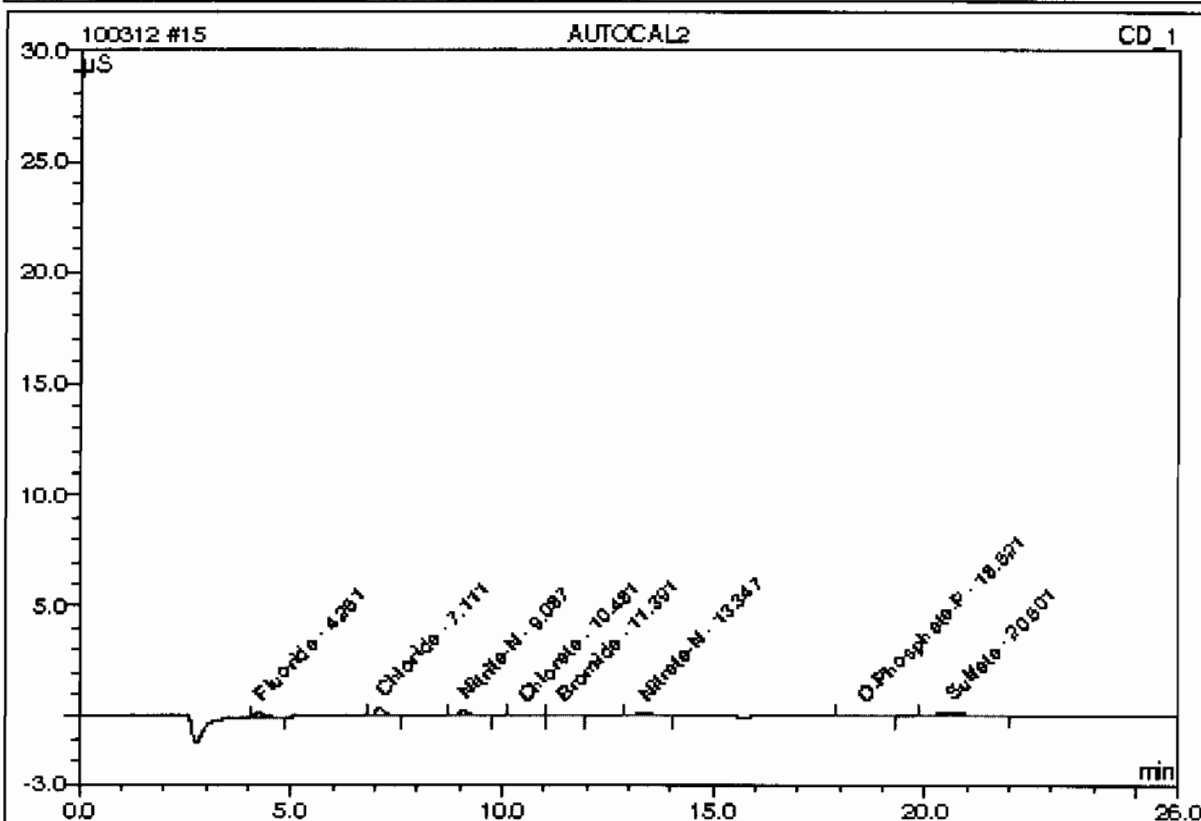
Sample Name:	AUTOCAL3	Injection Volume:	1.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 14:08	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	0.2500	0.2767		0.13273	10.36
2	7.11	Chloride	0.5000	0.6177		0.19612	15.31
3	9.09	Nitrite-N	0.2500	0.2802		0.18850	14.72
4	10.48	Chlorate	0.5000	0.4873		0.07006	5.47
5	11.38	Bromide	0.5000	0.4930		0.07924	6.19
6	13.34	Nitrate-N	0.2500	0.3124		0.20857	16.29
7	18.50	O-Phosphate-P	0.5000	0.4938		0.13887	10.84
8	20.57	Sulfate	1.0000	1.2082		0.26661	20.82
Total:				4.1694	0.000	1.281	100.00

15 AUTOCAL2

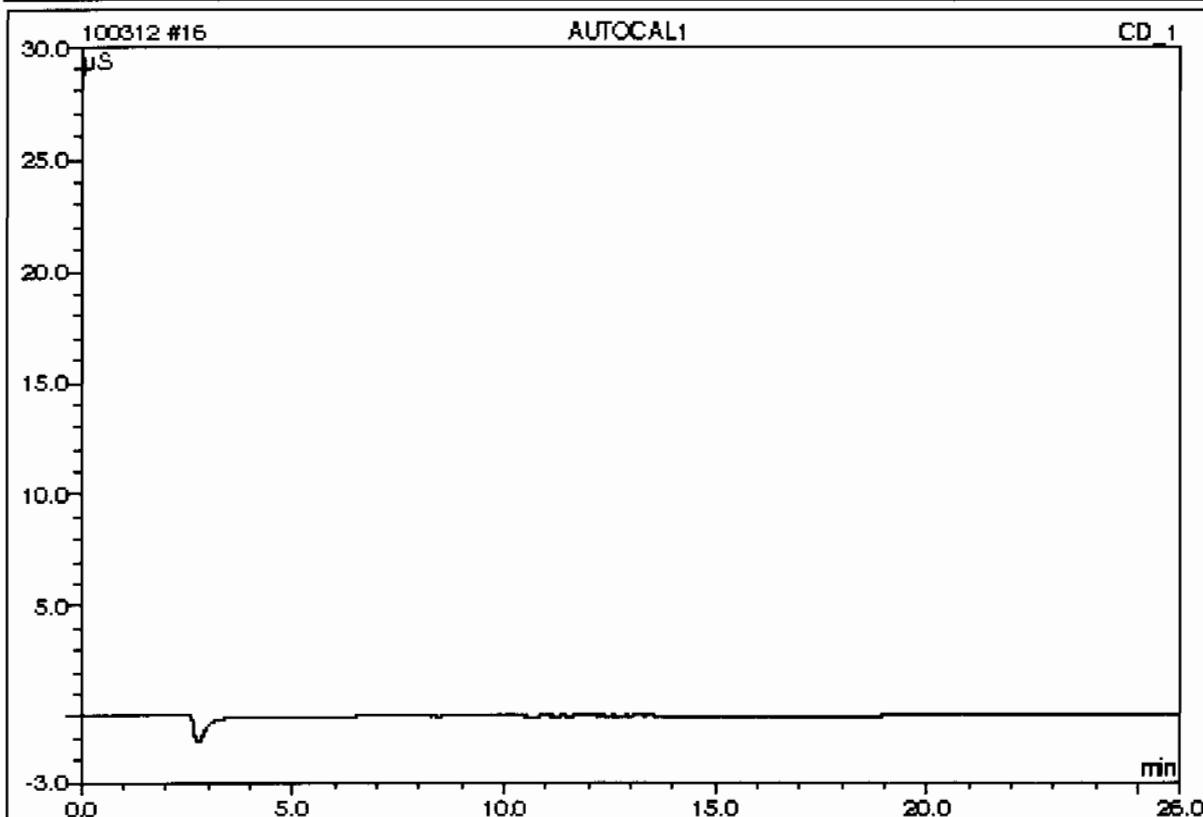
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 14:37	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	0.1000	0.1393		0.05352	9.78
2	7.11	Chloride	0.2000	0.3635		0.09592	17.52
3	9.09	Nitrite-N	0.1000	0.1457		0.07635	13.95
4	10.48	Chlorate	0.2000	0.2155		0.02807	5.13
5	11.39	Bromide	0.2000	0.2128		0.03286	6.00
6	13.35	Nitrate-N	0.1000	0.1770		0.07876	14.39
7	18.52	O-Phosphate-P	0.2000	0.2166		0.04829	8.82
8	20.60	Sulfate	0.4000	0.7224		0.13373	24.43
Total:				2.1926	0.000	0.548	100.00

16 AUTOCAL1

Sample Name:	AUTOCAL1	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 15:06	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

16 AUTOCAL1

Sample Name: AUTOCAL1

Injection Volume: 1.0

Vial Number: 9

Channel: CD_1

Sample Type: standard

Dilution Factor: 1.0000

Control Program: AS23

Sample Weight: 1.0000

Quantif. Method: 100312an

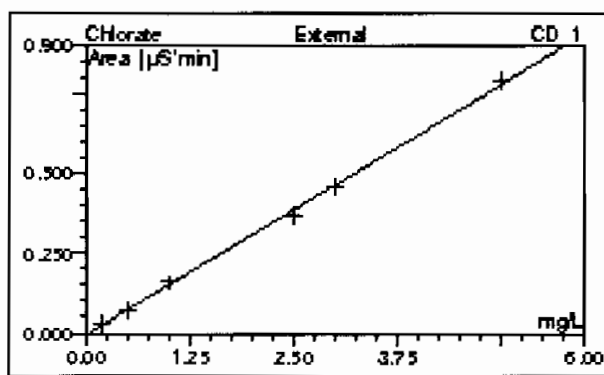
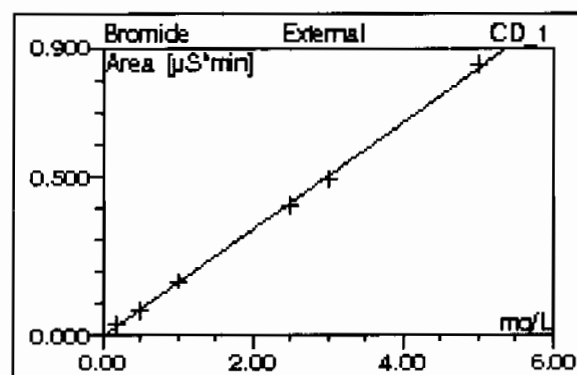
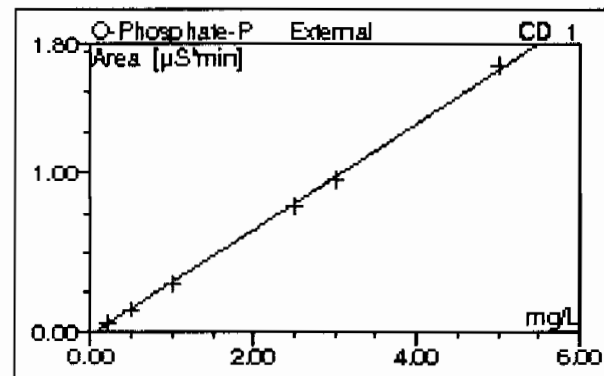
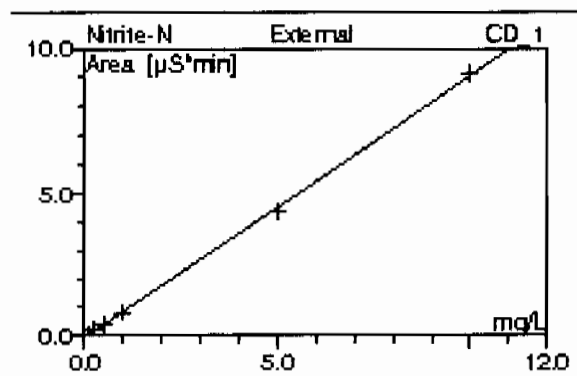
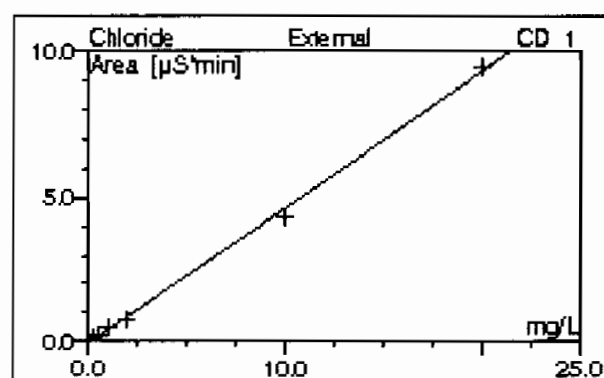
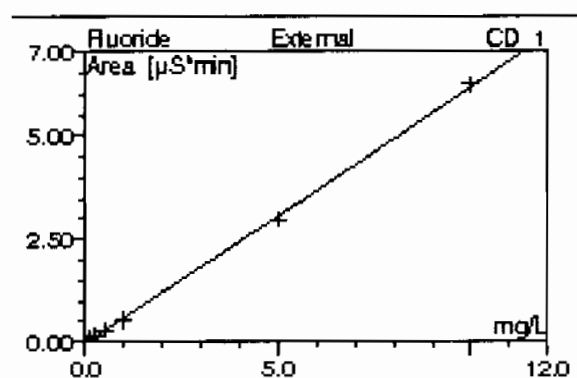
Sample Amount: 1.0000

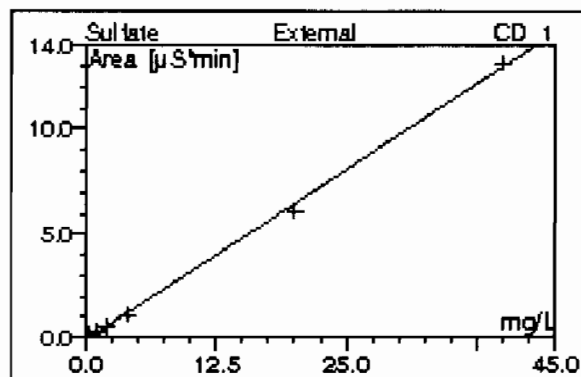
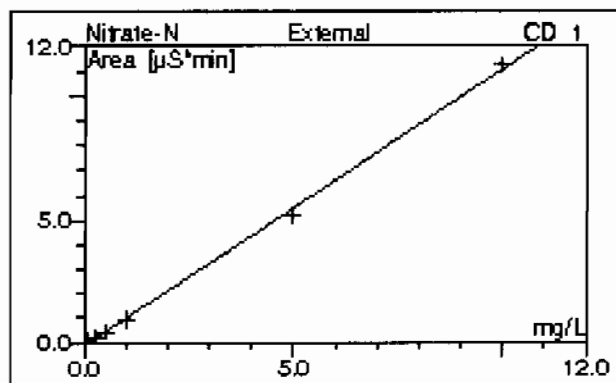
Recording Time: 3/12/2010 15:06

Analyst: MAR1

Run Time (min): 26.00

Column: AS23-002712; GL GC BD86;300;9058

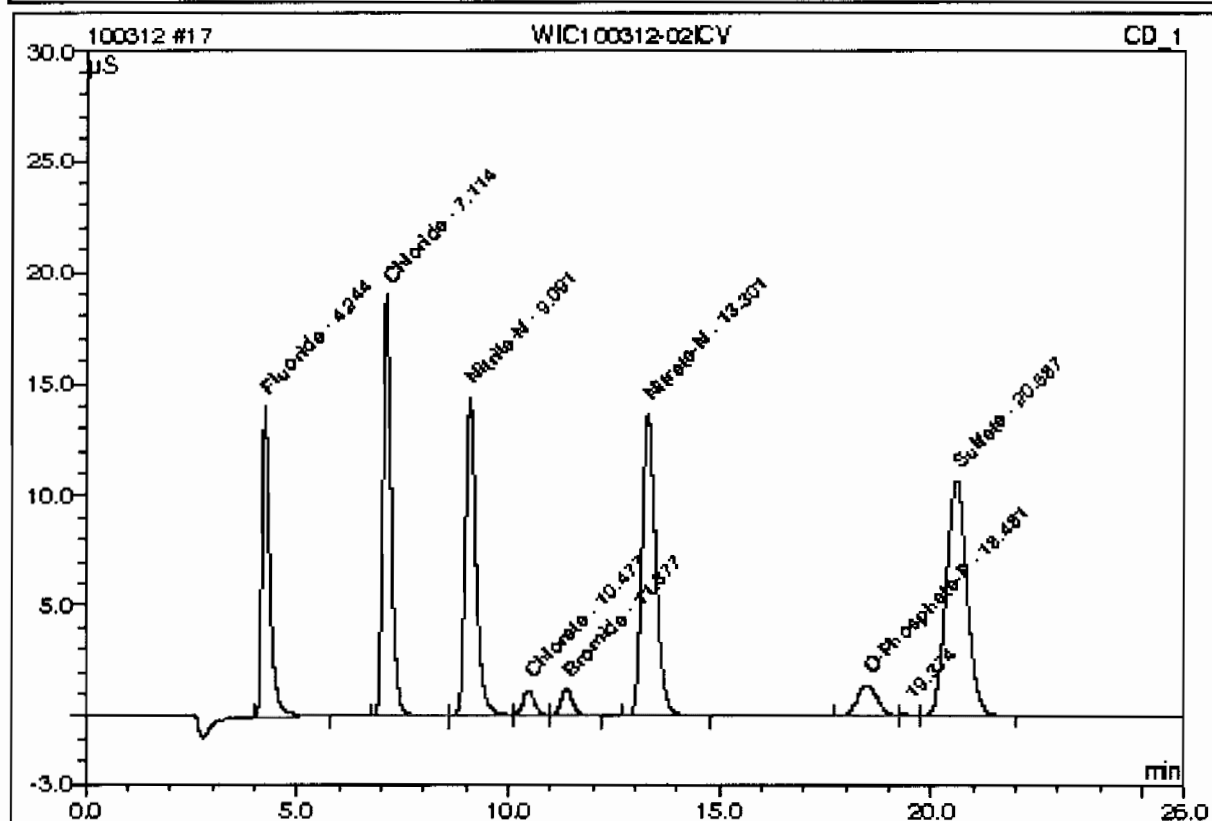




No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	OLO#	99.9627	-0.0330	0.6210	0.0000
n.a.	n.a.	Chloride	OLO#	99.8225	-0.0749	0.4699	0.0000
n.a.	n.a.	Nitrite-N	OLO#	99.9452	-0.0564	0.9115	0.0000
n.a.	n.a.	Chlorate	OLO#	99.8605	-0.0058	0.1574	0.0000
n.a.	n.a.	Bromide	OLO#	99.9304	-0.0029	0.1680	0.0000
n.a.	n.a.	Nitrate-N	OLO#	99.8475	-0.1191	1.1179	0.0000
n.a.	n.a.	O-Phosphate-P	OLO#	99.9176	-0.0239	0.3332	0.0000
n.a.	n.a.	Sulfate	OLO#	99.8762	-0.1033	0.3261	0.0000
Average:				99.8953	-0.0524	0.5134	0.0000

17 WIC100312-02ICV

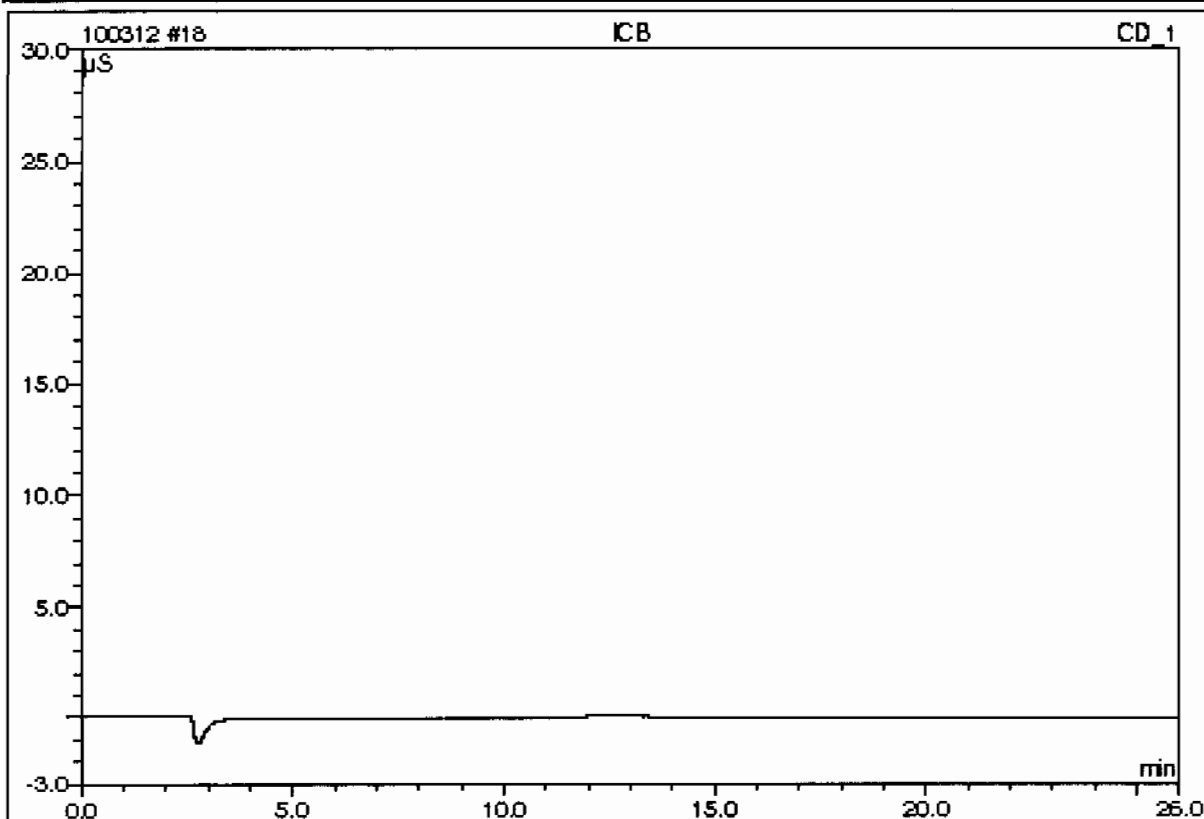
Sample Name:	WIC100312-02ICV	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 15:35	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.24	Fluoride	n.a.	4.8260		2.96419	12.10
2	7.11	Chloride	n.a.	9.4396		4.36065	17.80
3	9.09	Nitrite-N	n.a.	4.7879		4.30795	17.58
4	10.48	Chlorate	n.a.	2.5037		0.36815	1.58
5	11.38	Bromide	n.a.	2.5123		0.41911	1.71
6	13.30	Nitrate-N	n.a.	4.7318		5.17038	21.10
7	18.48	O-Phosphate-P	n.a.	2.4304		0.78590	3.21
9	20.59	Sulfate	n.a.	18.8328		6.07580	24.80
Total:				50.0645	0.000	24.472	99.88

18 ICB

Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100312an	Sample Amount:	1.0000
Recording Time:	3/12/2010 16:04	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

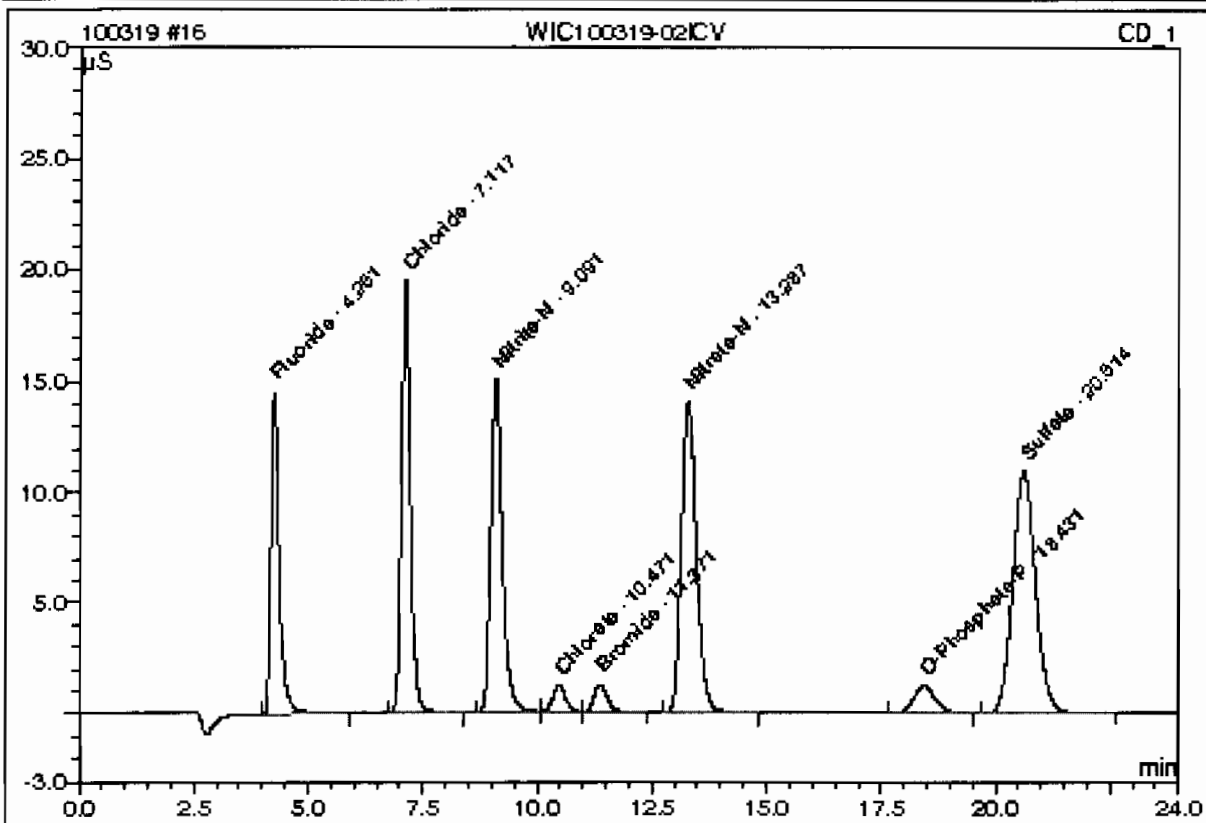
This is runlog for Sequence 100319.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/19/10 09:38		1	100319	MAR1
BLK	03/19/10 10:04		1	100319	MAR1
ICV	03/19/10 10:31		1	100319	MAR1
ICB	03/19/10 10:58		1	100319	MAR1
1202063590	03/19/10 11:25	962073	1	100319	MAR1
1202063597	03/19/10 11:52	962073	1	100319	MAR1
248025001	03/19/10 12:19	962073	1	100319	MAR1
1202063591	03/19/10 12:45	962073	1	100319	MAR1
1202063593	03/19/10 13:12	962073	1	100319	MAR1
1202063595	03/19/10 13:39	962073	1	100319	MAR1
248025002	03/19/10 14:06	962073	1	100319	MAR1
248025003	03/19/10 14:33	962073	1	100319	MAR1
248025004	03/19/10 15:00	962073	1	100319	MAR1
248025005	03/19/10 15:26	962073	1	100319	MAR1
CVH	03/19/10 15:53		1	100319	MAR1
CCB	03/19/10 16:20		1	100319	MAR1
248025006	03/19/10 16:47	962073	1	100319	MAR1
248025007	03/19/10 17:14	962073	1	100319	MAR1
248041001	03/19/10 17:41	962073	1	100319	MAR1
248041002	03/19/10 18:08	962073	1	100319	MAR1
248041003	03/19/10 18:35	962073	1	100319	MAR1
248041004	03/19/10 19:01	962073	1	100319	MAR1
248041005	03/19/10 19:28	962073	1	100319	MAR1
1202063592	03/19/10 19:55	962073	1	100319	MAR1
1202063594	03/19/10 20:22	962073	1	100319	MAR1
1202063596	03/19/10 20:49	962073	1	100319	MAR1
CCV	03/19/10 21:16		1	100319	MAR1
CCB	03/19/10 21:43		1	100319	MAR1

1202063582	03/19/10 22:10 962071 1	100319	MAR1
1202063589	03/19/10 22:37 962071 1	100319	MAR1
248000001	03/19/10 23:04 962071 1	100319	MAR1
1202063583	03/19/10 23:30 962071 1	100319	MAR1
1202063585	03/19/10 23:57 962071 1	100319	MAR1

16 WIC100319-02ICV

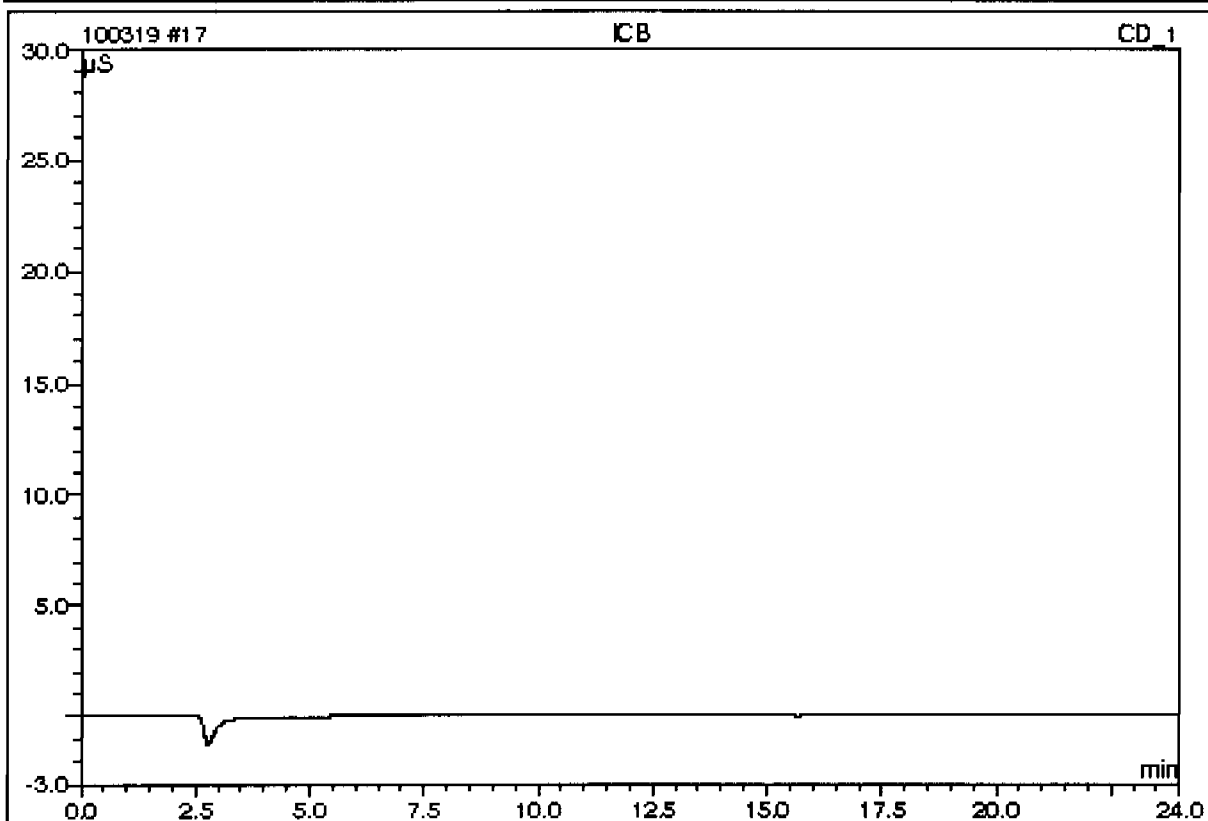
Sample Name:	WIC100319-02ICV	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 10:31	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.8208		3.06031	12.21
2	7.12	Chloride	n.a.	9.2239		4.42948	17.67
3	9.09	Nitrite-N	n.a.	4.8059		4.46472	17.81
4	10.47	Chloride	n.a.	2.6276		0.41076	1.64
5	11.37	Bromide	n.a.	2.6109		0.43832	1.75
6	13.29	Nitrate-N	n.a.	4.6689		5.28947	21.10
7	18.43	O-Phosphate-P	n.a.	2.0940		0.66759	2.66
8	20.61	Sulfate	n.a.	18.8821		6.31276	25.18
Total:				49.7341	0.000	25.073	100.00

17 ICB

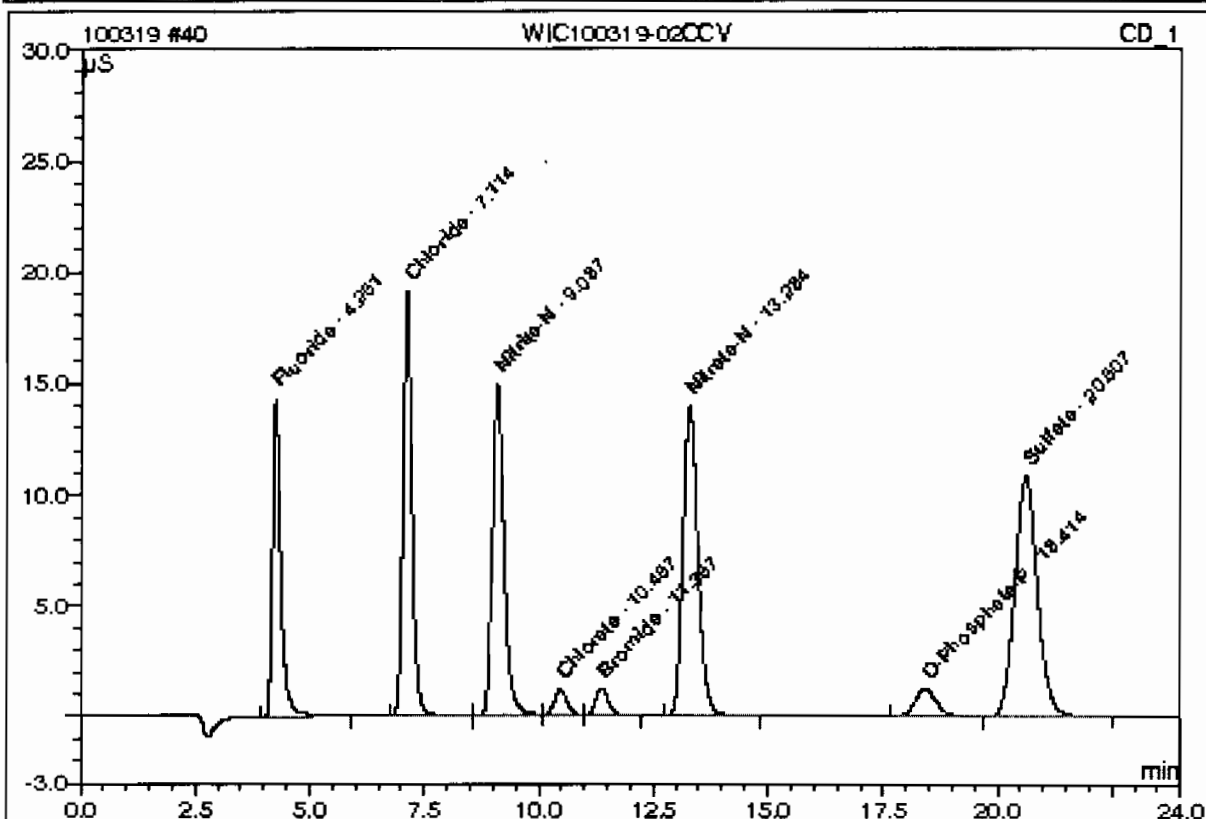
Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 10:58	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
Total:				0.0000	0.000	0.000	0.00

40 WIC100319-02CCV

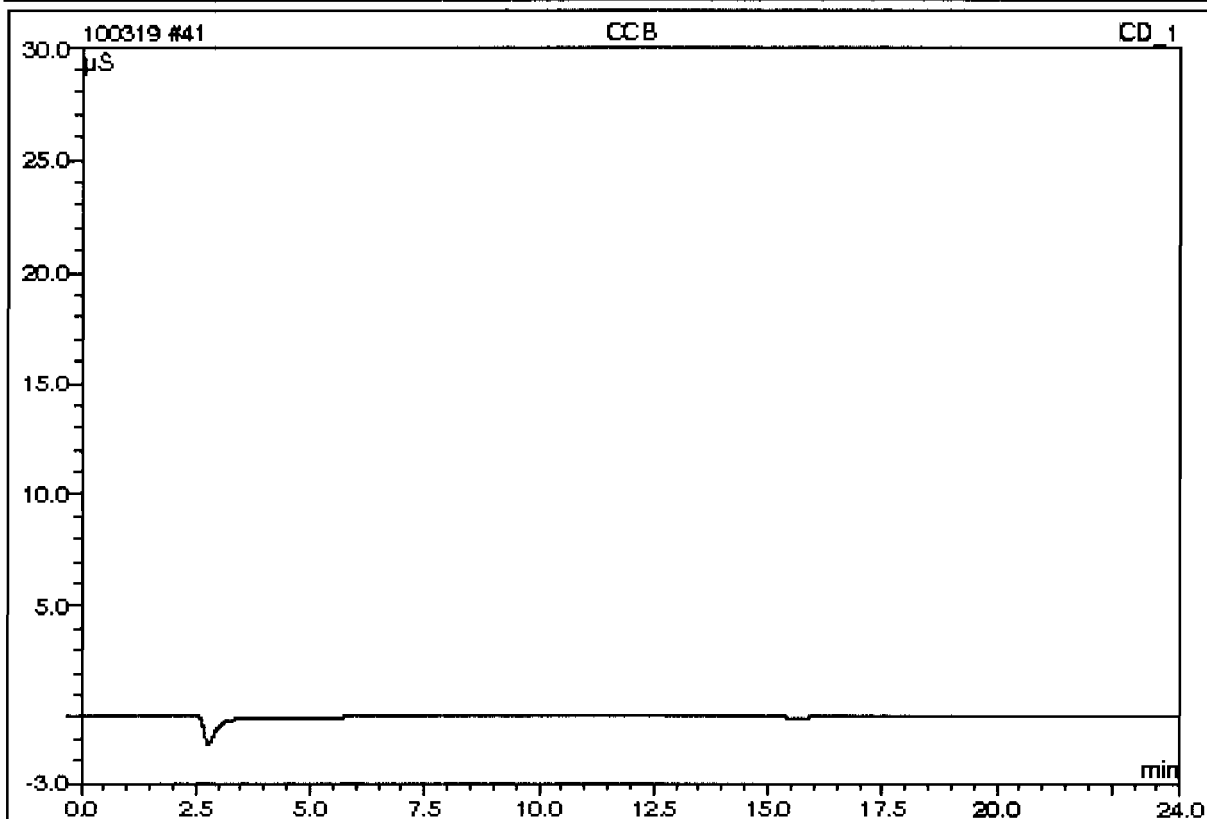
Sample Name:	WIC100319-02CCV	Injection Volume:	1.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 21:18	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.7822		3.03553	12.21
2	7.11	Chloride	n.a.	9.1369		4.38699	17.64
3	9.09	Nitrite-N	n.a.	4.7765		4.43692	17.84
4	10.47	Chlorate	n.a.	2.5287		0.39512	1.59
5	11.37	Bromide	n.a.	2.5140		0.42193	1.70
6	13.28	Nitrate-N	n.a.	4.6251		5.23649	21.07
7	18.41	O-Phosphate-P	n.a.	2.1594		0.68912	2.77
8	20.61	Sulfate	n.a.	18.7321		6.26173	25.18
Total:				49.2550	0.000	24.866	100.00

41 CCB

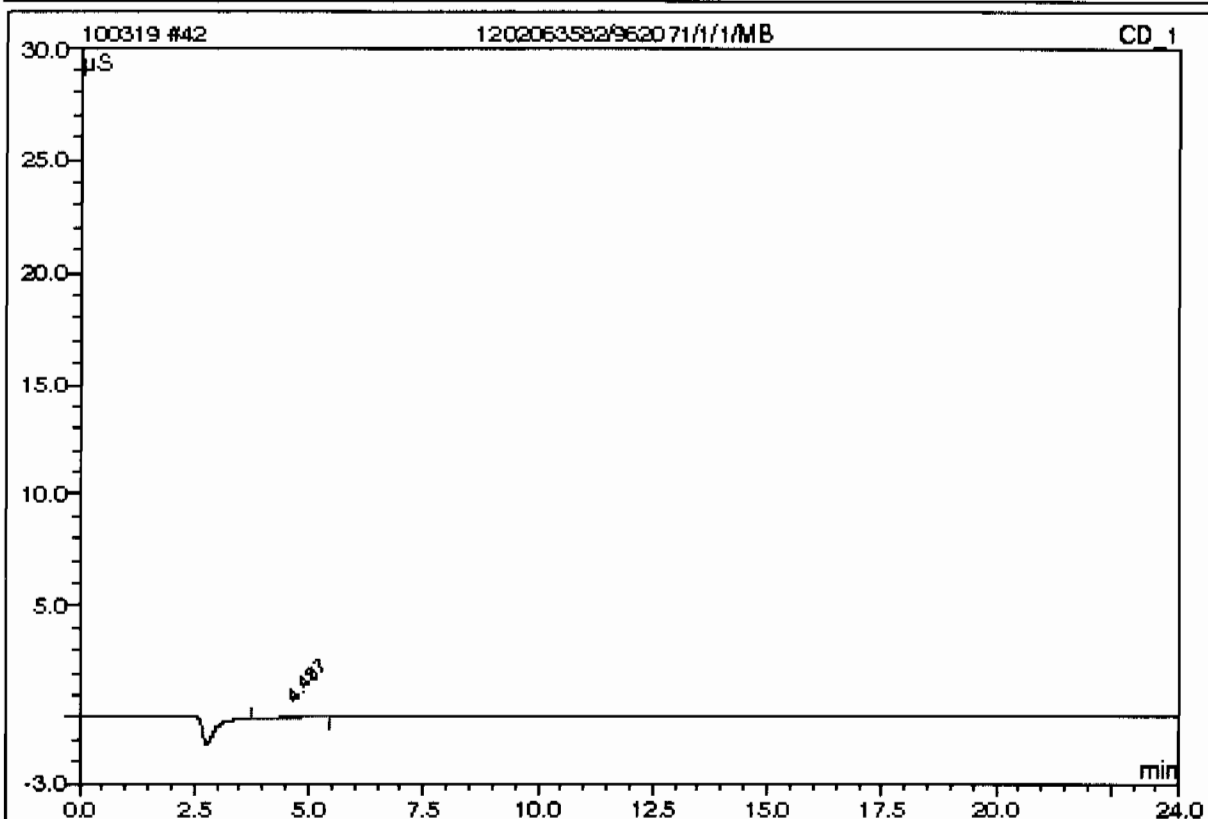
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 21:43	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

42 1202063582/962071/1/1/MB

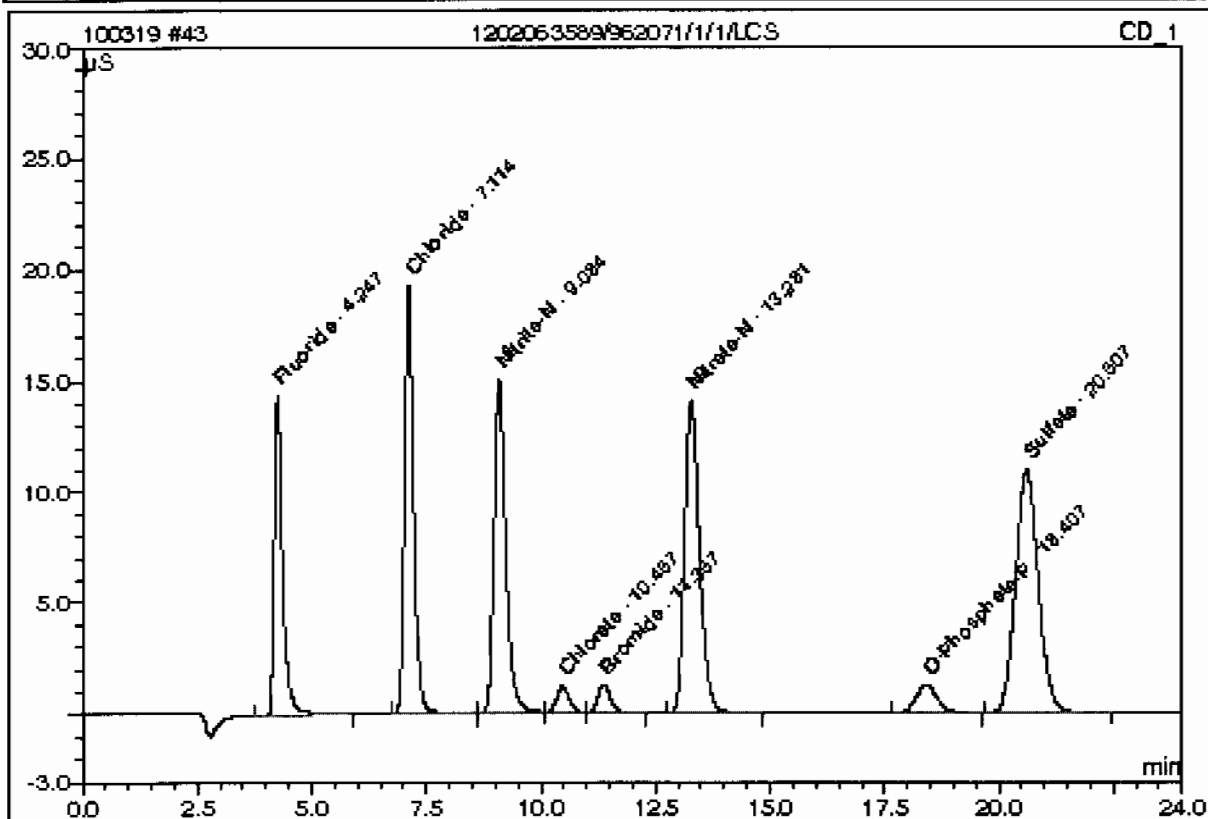
Sample Name:	1202063582/962071/1/1/MB	Injection Volume:	1.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 22:10	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9058



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

43 1202063589/962071/1/1/LCS

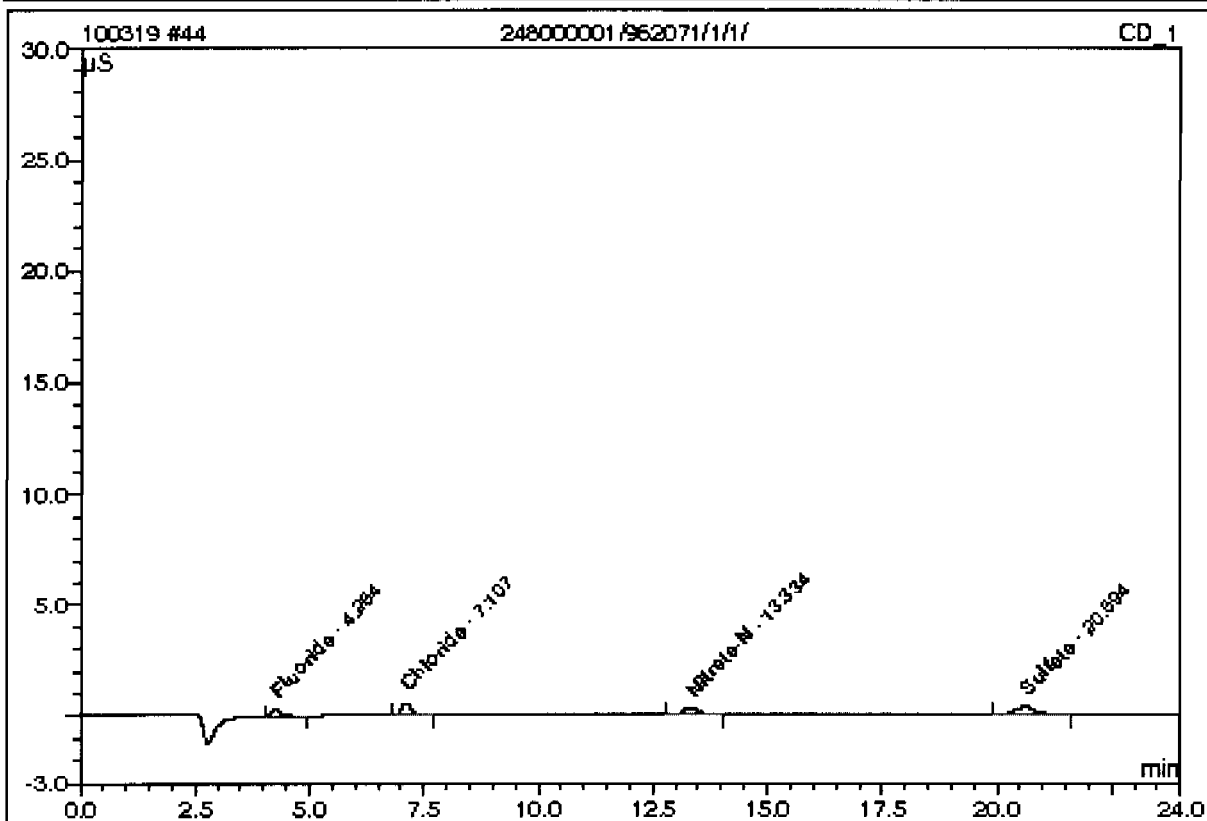
Sample Name:	1202063589/962071/1/1/LCS	Injection Volume:	1.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 22:37	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.8090		3.05273	12.20
2	7.11	Chloride	n.a.	9.2180		4.42661	17.69
3	9.08	Nitrite-N	n.a.	4.8085		4.48715	17.85
4	10.47	Chlorate	n.a.	2.5494		0.39839	1.59
5	11.37	Bromide	n.a.	2.5159		0.42225	1.69
6	13.28	Nitrate-N	n.a.	4.6563		5.27480	21.08
7	18.41	O-Phosphate-P	n.a.	2.1711		0.69299	2.77
8	20.61	Sulfate	n.a.	18.8182		6.29101	25.14
Total:				49.5463	0.000	25.026	100.00

44 248000001/962071/1/1/

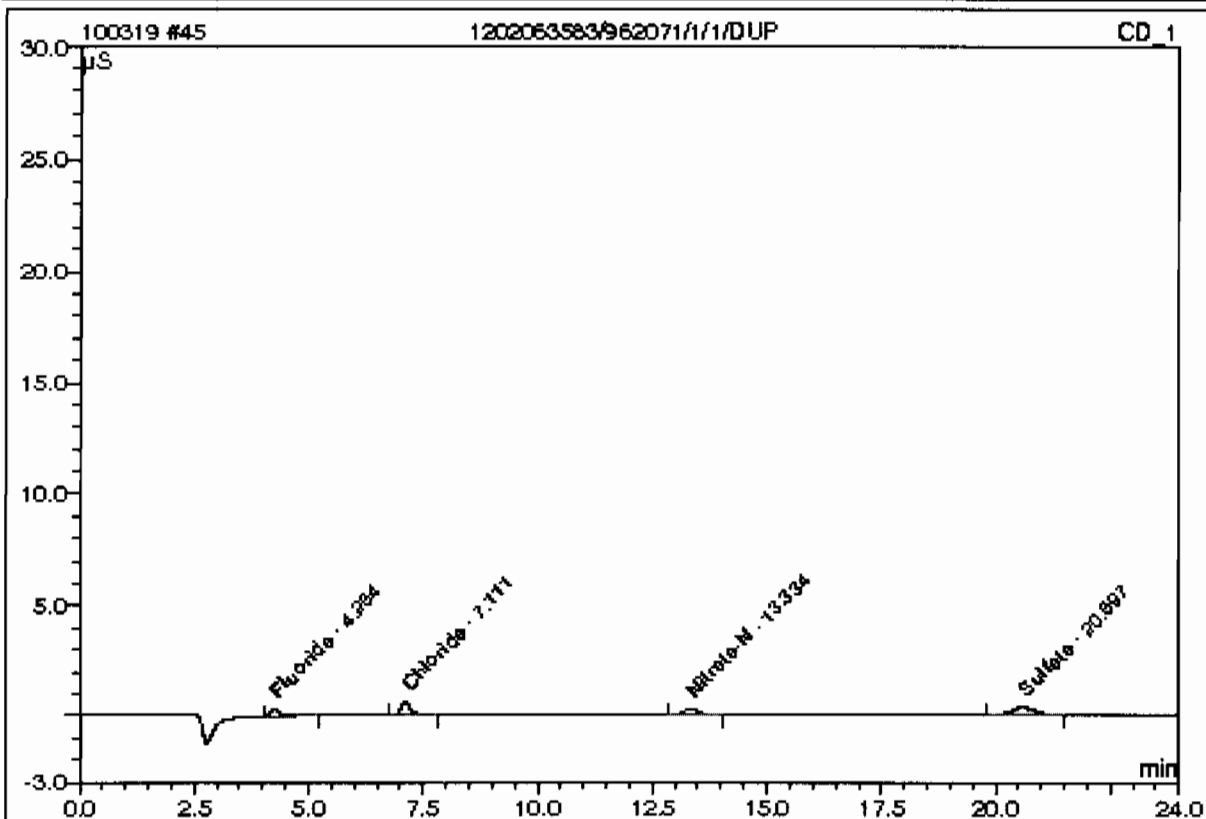
Sample Name:	248000001/962071/1/1/	Injection Volume:	1.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 23:04	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.1865		0.08195	14.84
2	7.11	Chloride	n.a.	0.4492		0.14126	25.59
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.33	Nitrate-N	n.a.	0.2187		0.11231	20.34
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.59	Sulfate	n.a.	0.9685		0.21654	39.22
Total:				1.8230	0.000	0.552	100.00

45 1202063583/962071/1/1/DUP

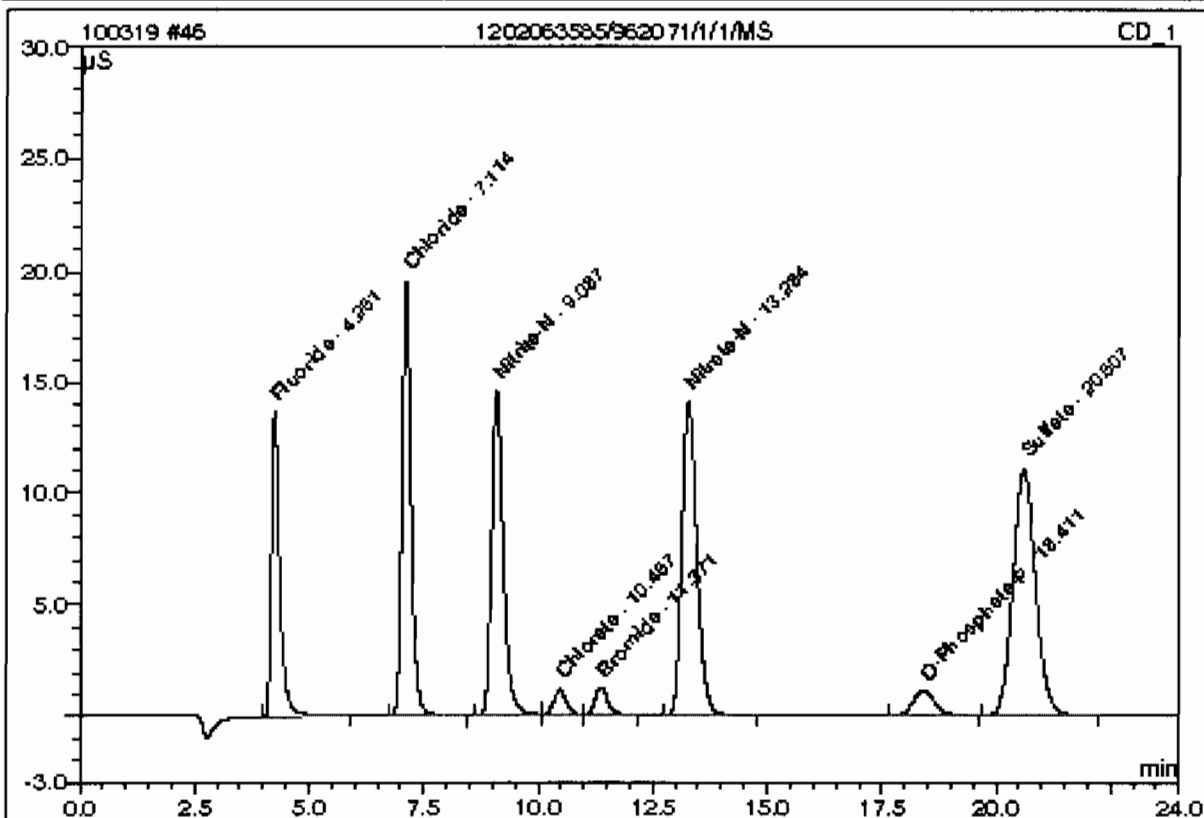
Sample Name:	1202063583/962071/1/1/DUP	Injection Volume:	1.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 23:30	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.1894		0.08377	14.89
2	7.11	Chloride	n.a.	0.4584		0.14571	25.89
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.33	Nitrate-N	n.a.	0.2179		0.11129	19.78
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.60	Sulfate	n.a.	0.9843		0.22192	39.44
Total:				1.8499	0.000	0.563	100.00

46 1202063585/962071/1/1/MS

Sample Name:	1202063585/962071/1/1/MS	Injection Volume:	1.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/19/2010 23:57	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GLGCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.25	Fluoride	n.a.	4.5658		2.89644	11.70
2	7.11	Chloride	n.a.	9.3311		4.48187	18.11
3	9.09	Nitrite-N	n.a.	4.6665		4.33298	17.51
4	10.47	Chlorate	n.a.	2.4725		0.38623	1.56
5	11.37	Bromide	n.a.	2.4751		0.41535	1.68
6	13.28	Nitrate-N	n.a.	4.6653		5.28532	21.36
7	18.41	O-Phosphate-P	n.a.	1.9890		0.63299	2.56
8	20.61	Sulfate	n.a.	18.8889		6.31507	25.52
Total:				49.0541	0.000	24.746	100.00

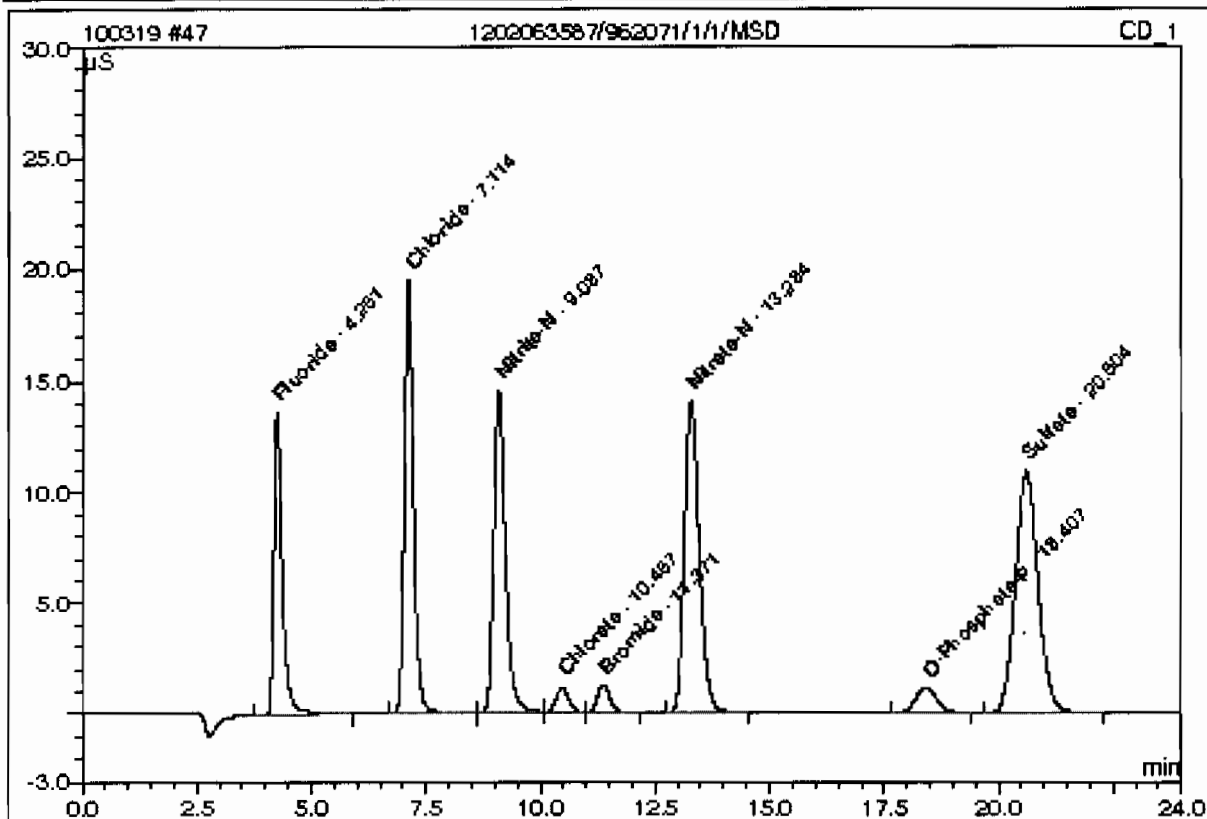
This is runlog for Sequence 100319.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
1202063587	03/20/10 00:24	962071	1	100319	MAR1
248000002	03/20/10 00:51	962071	1	100319	MAR1
248000003	03/20/10 01:18	962071	1	100319	MAR1
248000004	03/20/10 01:45	962071	1	100319	MAR1
248000005	03/20/10 02:12	962071	1	100319	MAR1
CVH	03/20/10 02:39		1	100319	MAR1
CCB	03/20/10 03:06		1	100319	MAR1
248002001	03/20/10 03:33	962071	1	100319	MAR1
248002002	03/20/10 04:00	962071	1	100319	MAR1
248002003	03/20/10 04:27	962071	1	100319	MAR1
248002004	03/20/10 04:53	962071	1	100319	MAR1
248002005	03/20/10 05:20	962071	1	100319	MAR1
248002006	03/20/10 05:47	962071	1	100319	MAR1
CCV	03/20/10 06:14		1	100319	MAR1
CCB	03/20/10 06:41		1	100319	MAR1
248002007	03/20/10 07:08	962071	1	100319	MAR1
248002008	03/20/10 07:35	962071	1	100319	MAR1
1202063584	03/20/10 08:02	962071	1	100319	MAR1
1202063586	03/20/10 08:29	962071	1	100319	MAR1
1202063588	03/20/10 08:56	962071	1	100319	MAR1
CVH	03/20/10 09:23		1	100319	MAR1
CCB	03/20/10 09:49		1	100319	MAR1
1202063606	03/20/10 10:16	962078	1	100319	MAR1
1202063613	03/20/10 10:43	962078	1	100319	MAR1
248110001	03/20/10 11:10	962078	1	100319	MAR1
1202063607	03/20/10 11:37	962078	1	100319	MAR1
1202063609	03/20/10 12:04	962078	1	100319	MAR1
1202063611	03/20/10 12:31	962078	1	100319	MAR1

248110002	03/20/10 12:58 962078 1	100319	MAR1
248110003	03/20/10 13:25 962078 1	100319	MAR1
248110004	03/20/10 13:52 962078 1	100319	MAR1
248110005	03/20/10 14:19 962078 1	100319	MAR1
CCV	03/20/10 14:45 1	100319	MAR1
CCB	03/20/10 15:12 1	100319	MAR1
248110006	03/20/10 15:39 962078 1	100319	MAR1
248110007	03/20/10 16:06 962078 1	100319	MAR1
248110008	03/20/10 16:33 962078 1	100319	MAR1
248118001	03/20/10 17:00 962078 1	100319	MAR1
248118002	03/20/10 17:01 962078 1	100319	MAR1
248118003	03/20/10 17:01 962078 1	100319	MAR1
248118004	03/20/10 17:01 962078 1	100319	MAR1
248118005	03/20/10 17:01 962078 1	100319	MAR1
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248118006	03/20/10 17:01 962078 1	100319	MAR1
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1202063608	03/20/10 17:01 962078 1	100319	MAR1
1202063610	03/20/10 17:02 962078 1	100319	MAR1
1202063612	03/20/10 17:02 962078 1	100319	MAR1
CCV	03/20/10 17:02 1	100319	MAR1
CCB	03/20/10 17:02 1	100319	MAR1

47 1202063587/962071/1/1/MSD

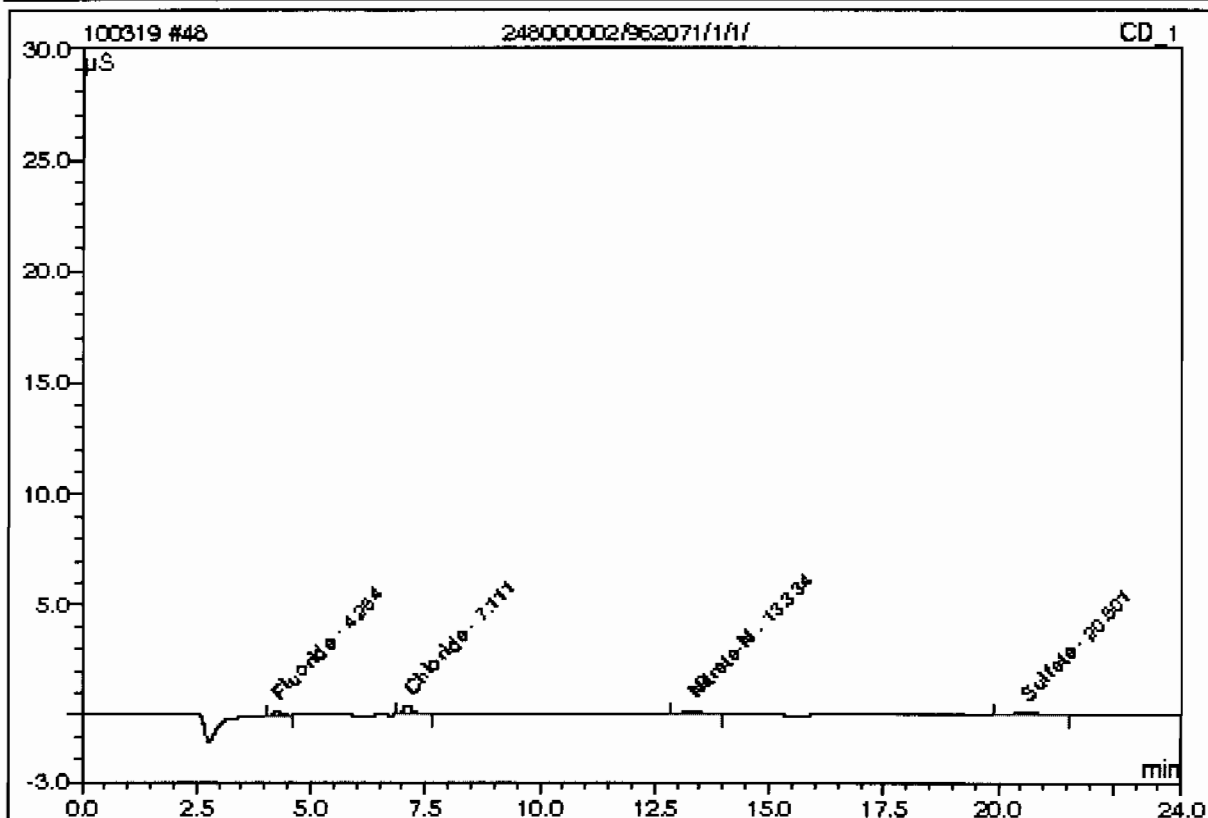
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Vial Number:	34	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 0:24	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.5885		2.91106	11.80
2	7.11	Chloride	n.a.	9.3126		4.47285	18.13
3	9.09	Nitrate-N	n.a.	4.6647		4.33124	17.56
4	10.47	Chlorate	n.a.	2.4681		0.38554	1.56
5	11.37	Bromide	n.a.	2.4572		0.41233	1.67
6	13.28	Nitrate-N	n.a.	4.8501		5.26760	21.35
7	18.41	O-Phosphate-P	n.a.	1.9440		0.61817	2.51
8	20.60	Sulfate	n.a.	18.7634		6.27238	25.42
Total:				48.8487	0.000	24.671	100.00

48 248000002/962071/1/1/

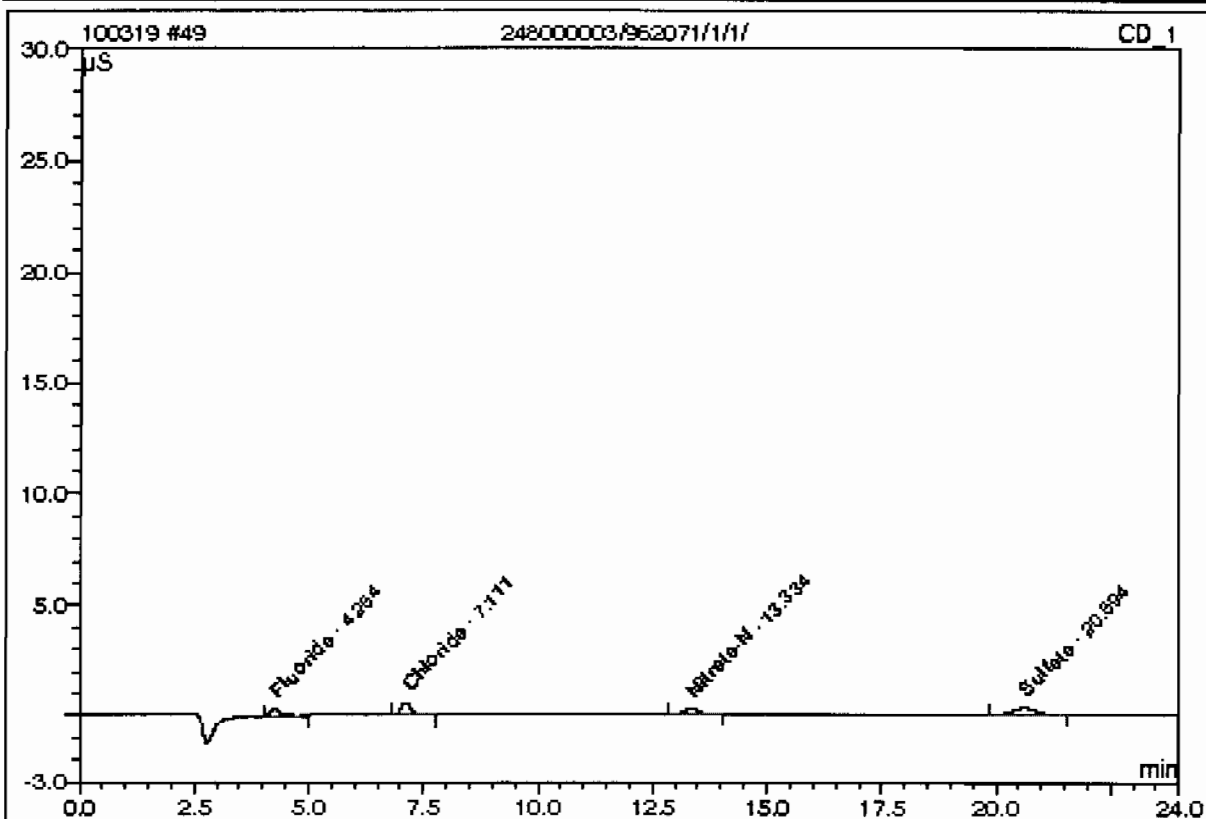
Sample Name:	248000002/962071/1/1/	Injection Volume:	1.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 0:51	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.1293		0.04512	12.88
2	7.11	Chloride	n.a.	0.3790		0.10694	30.51
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.33	Nitrate-N	n.a.	0.1971		0.08709	24.85
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.80	Sulfate	n.a.	0.6592		0.11131	31.76
Total:				1.3646	0.000	0.350	100.00

49 248000003/962071/1/1/

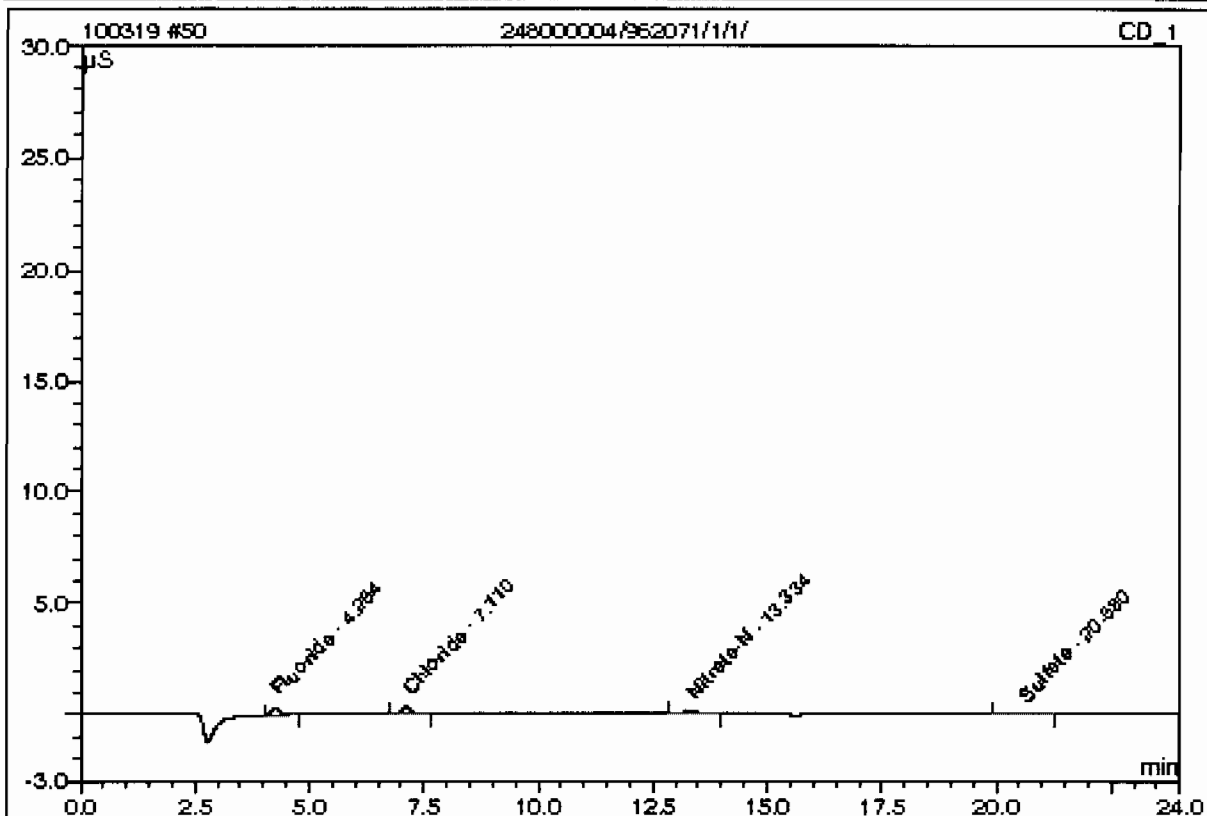
Sample Name:	248000003/962071/1/1/	Injection Volume:	1.0
Vial Number:	36	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 1:18	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.1781		0.07654	14.61
2	7.11	Chloride	n.a.	0.4437		0.13856	26.45
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.33	Nitrate-N	n.a.	0.2147		0.10758	20.54
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.59	Sulfate	n.a.	0.9233		0.20116	38.40
Total:				1.7598	0.000	0.524	100.00

50 248000004/962071/1/1/

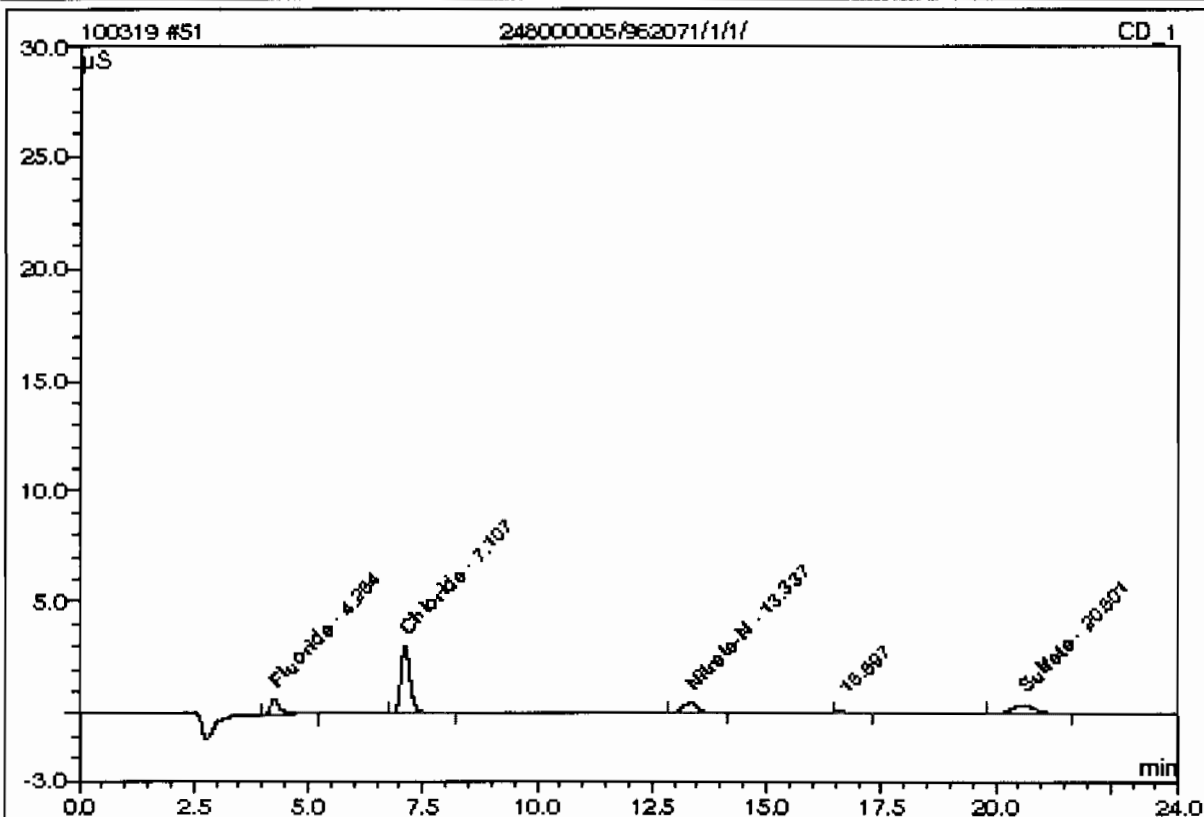
Sample Name:	248000004/962071/1/1/	Injection Volume:	1.0
Vial Number:	37	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 1:45	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.1866		0.08201	32.92
2	7.11	Chloride	n.a.	0.3351		0.08549	34.32
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.33	Nitrate-N	n.a.	0.1741		0.06042	24.25
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.58	Sulfate	n.a.	0.3945		0.02120	8.51
Total:				1.0904	0.000	0.249	100.00

51 248000005/962071/1/1/

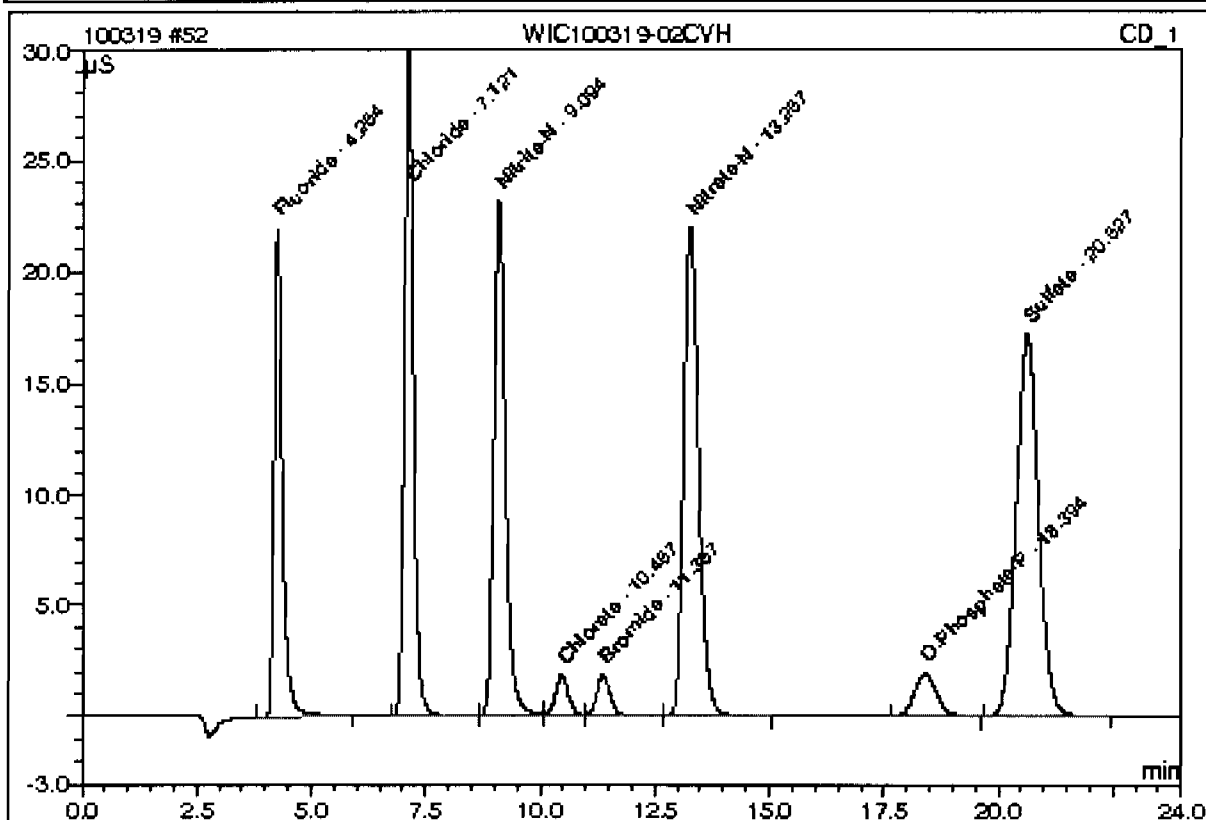
Sample Name:	248000005/962071/1/1/	Injection Volume:	1.0
Vial Number:	38	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 2:12	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	0.3108		0.16168	11.91
2	7.11	Chloride	n.a.	1.6451		0.72570	53.46
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.34	Nitrate-N	n.a.	0.2791		0.18250	13.44
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	20.60	Sulfate	n.a.	1.0910		0.25825	19.03
Total:				3.3258	0.000	1.328	97.85

52 WIC100319-02CVH

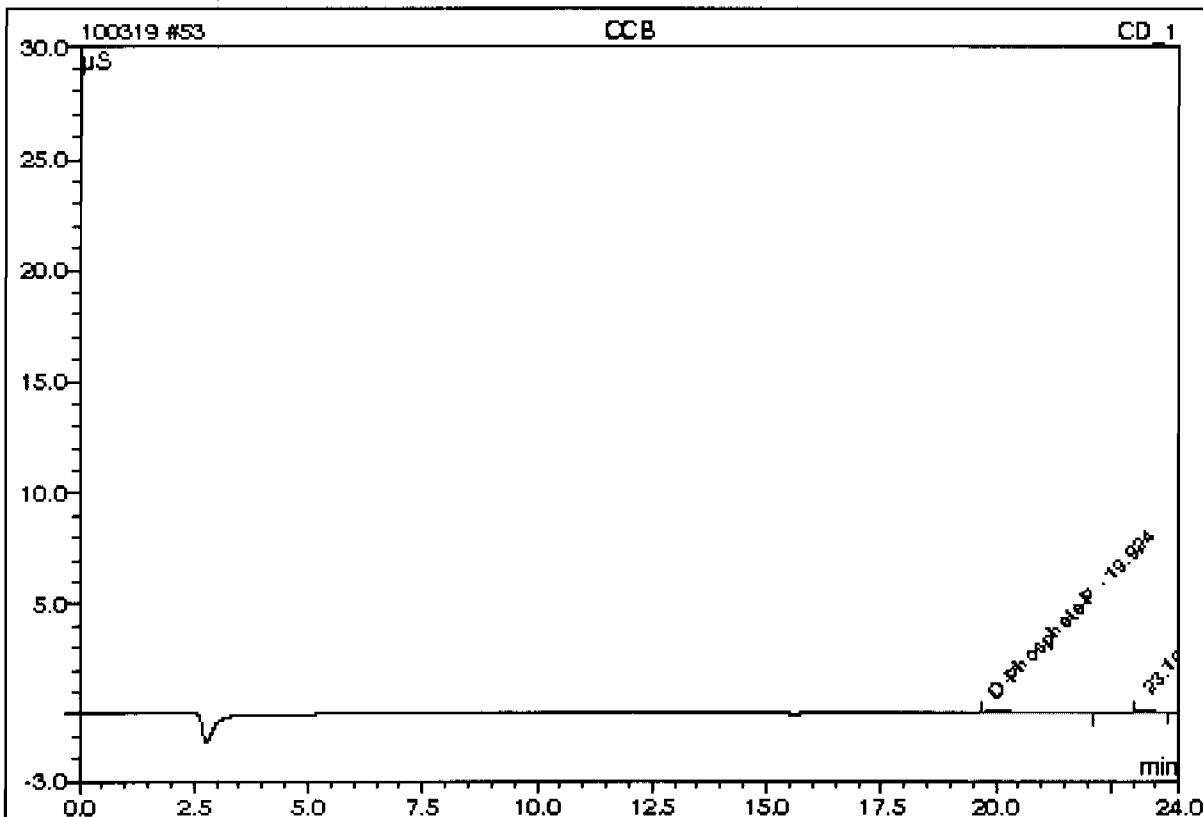
Sample Name:	WIC100319-02CVH	Injection Volume:	1.0
Vial Number:	39	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 2:39	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	7.3048		4.65674	12.03
2	7.12	Chloride	n.a.	14.3587		6.93889	17.93
3	9.09	Nitrite-N	n.a.	7.3220		6.84218	17.68
4	10.47	Chlorate	n.a.	3.8041		0.59669	1.54
5	11.37	Bromide	n.a.	3.7284		0.62739	1.62
6	13.27	Nitrate-N	n.a.	7.2123		8.24835	21.31
7	18.39	O-Phosphate-P	n.a.	3.2942		1.06288	2.75
8	20.63	Sulfate	n.a.	28.9085		9.72489	25.13
Total:				75.9330	0.000	38.698	100.00

53 CCB

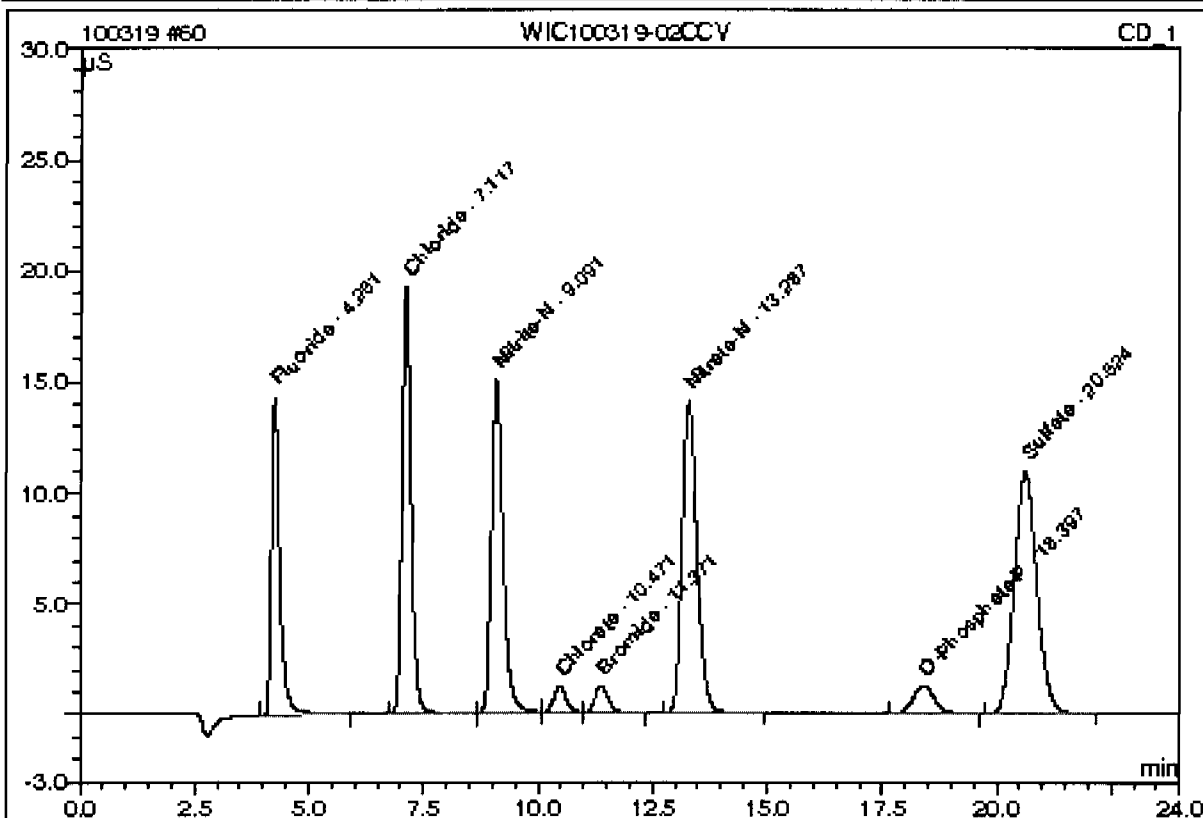
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	40	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 3:06	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GLGCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
1	19.92	O-Phosphate-P	n.a.	0.4986		0.14210	69.90
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.4986	0.000	0.142	69.90

60 WIC100319-02CCV

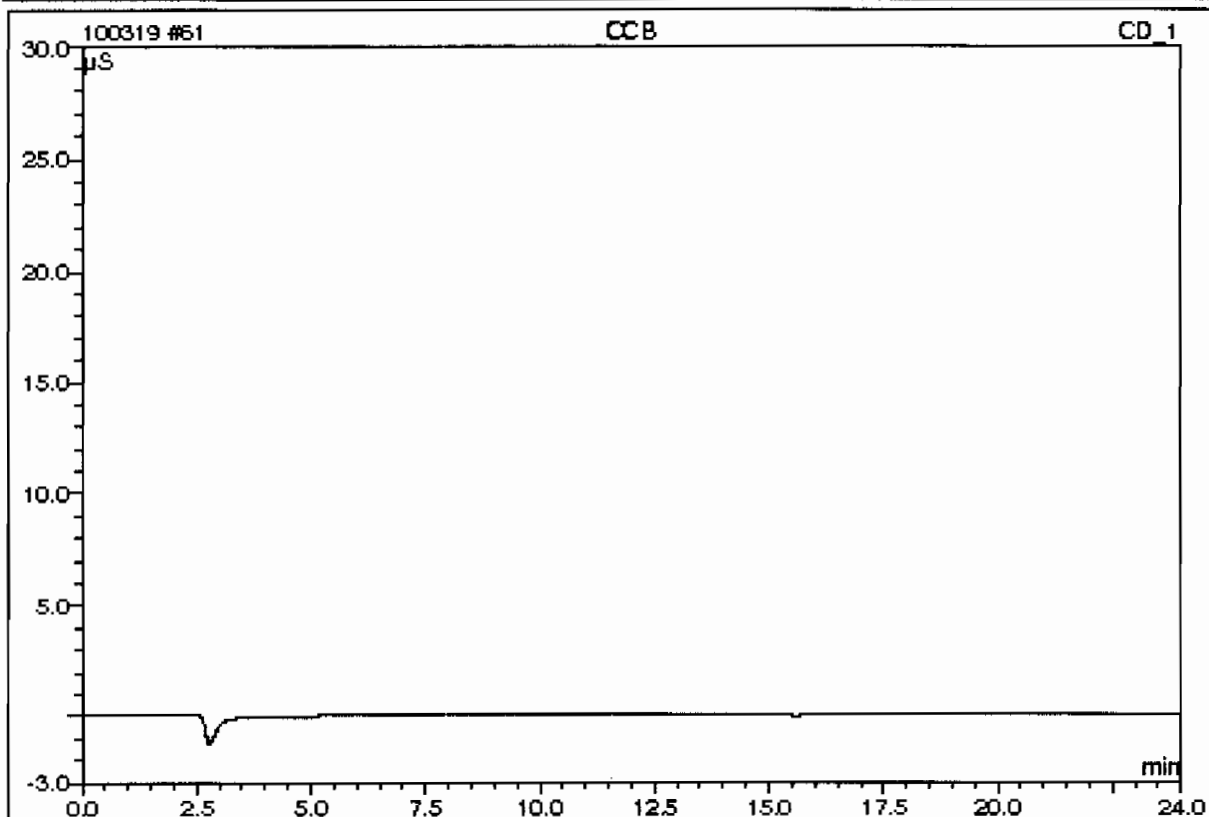
Sample Name:	WIC100319-02CCV	Injection Volume:	1.0
Vial Number:	47	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 6:14	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.8007		3.04744	12.16
2	7.12	Chloride	n.a.	9.2313		4.43309	17.68
3	9.09	Nitrite-N	n.a.	4.8123		4.47074	17.83
4	10.47	Chlorate	n.a.	2.6141		0.40862	1.63
5	11.37	Bromide	n.a.	2.5871		0.43091	1.72
6	13.29	Nitrate-N	n.a.	4.6655		5.28553	21.08
7	18.40	O-Phosphate-P	n.a.	2.2099		0.70577	2.82
8	20.62	Sulfate	n.a.	18.8081		6.28759	25.08
Total:				49.7091	0.000	25.070	100.00

61 CCB

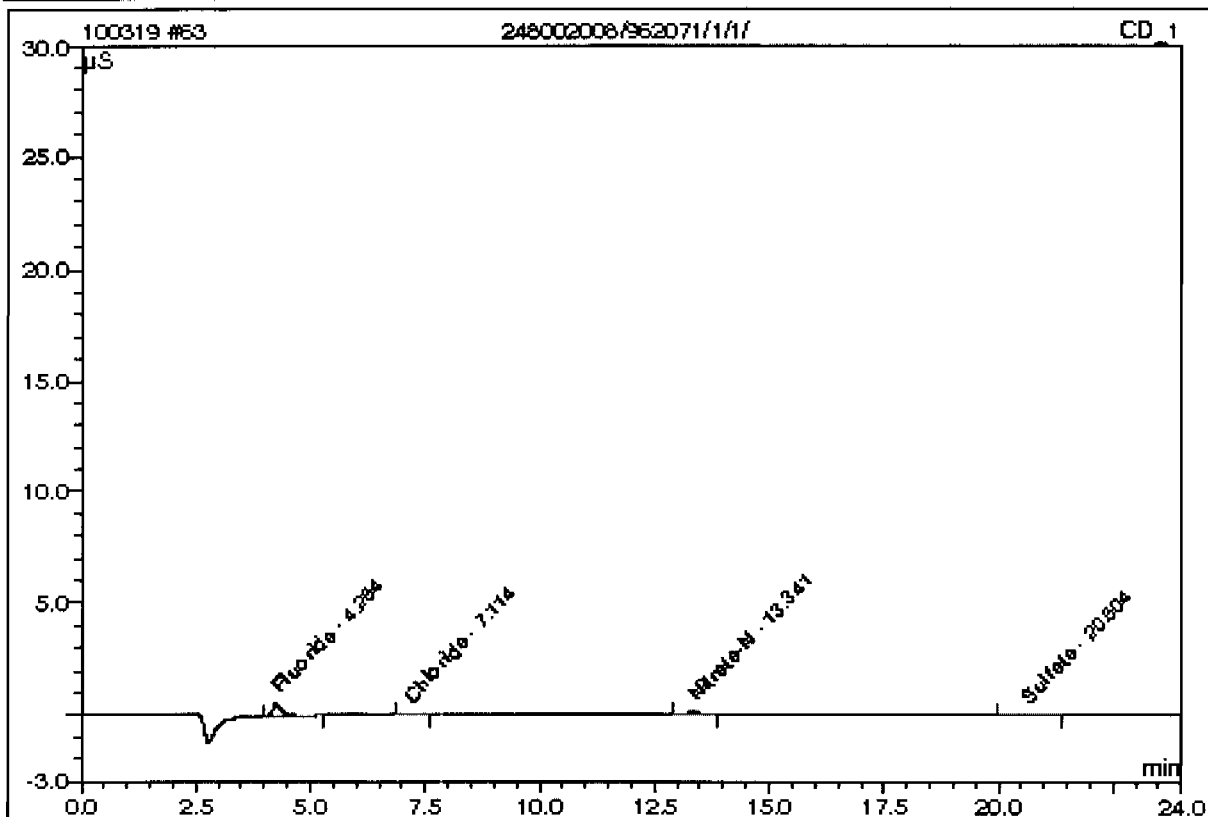
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	48	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 6:41	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

63 248002008/962071/1/1/

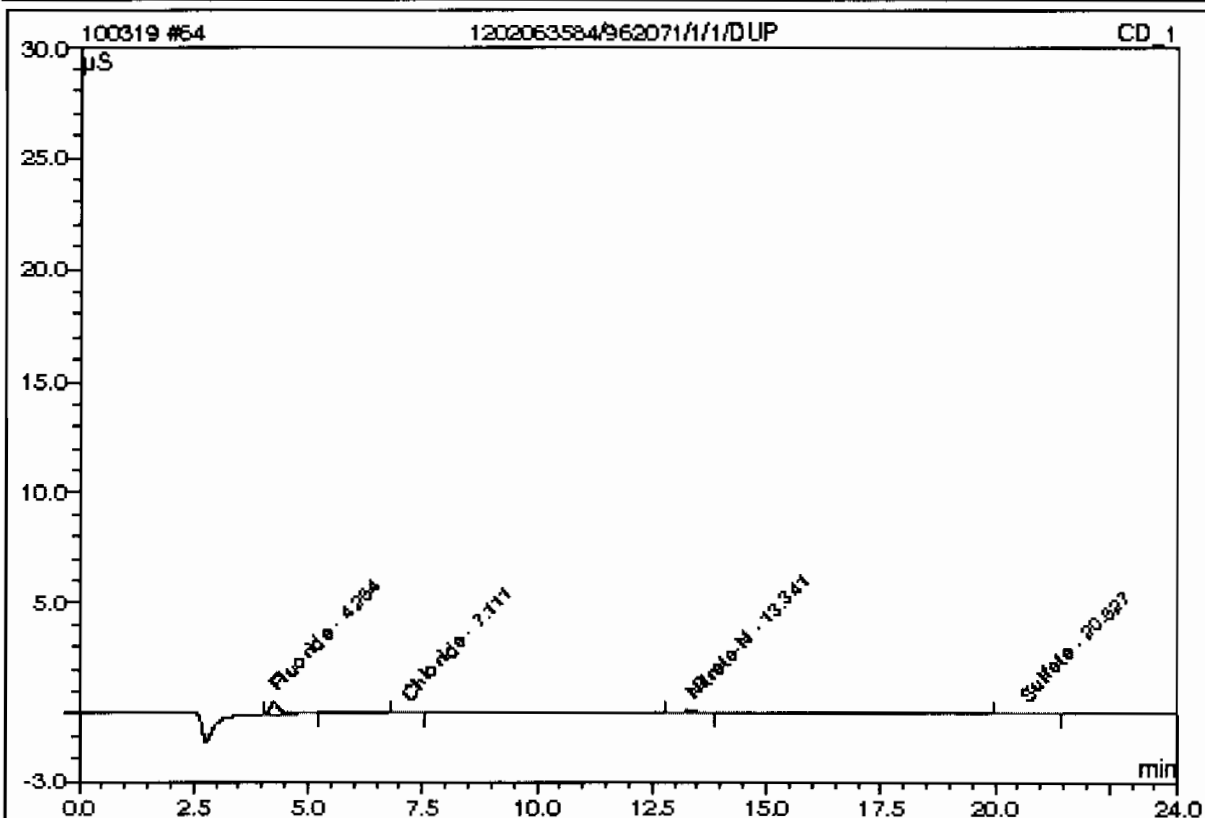
Sample Name:	248002008/962071/1/1/	Injection Volume:	1.0
Vial Number:	50	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 7:35	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.2521		0.12407	57.19
2	7.11	Chloride	n.a.	0.1967		0.01783	8.22
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.34	Nitrate-N	n.a.	0.1597		0.04356	20.08
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.60	Sulfate	n.a.	0.4247		0.03150	14.52
Total:				1.0331	0.000	0.217	100.00

64 1202063584/962071/1/1/DUP

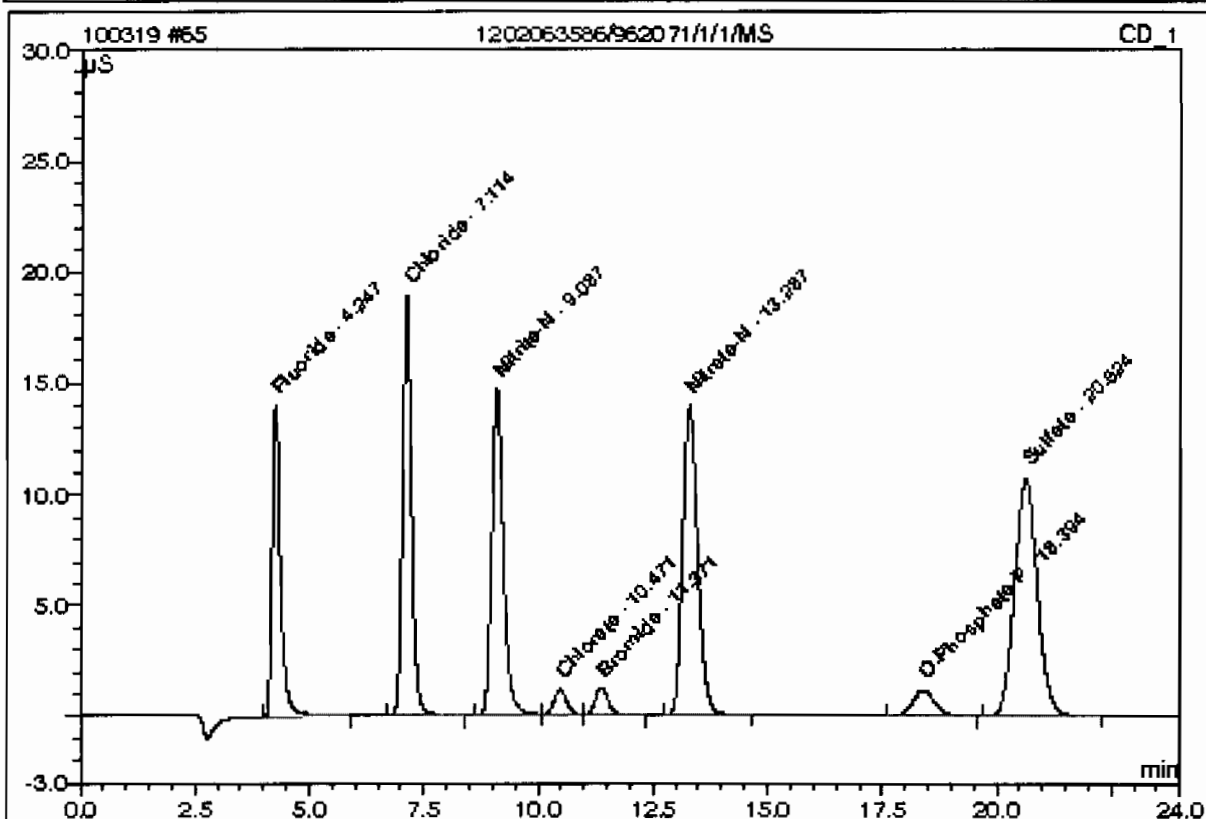
Sample Name:	1202063584/962071/1/1/DUP	Injection Volume:	1.0
Vial Number:	1	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 8:02	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	0.2497		0.12251	57.36
2	7.11	Chloride	n.a.	0.1939		0.01647	7.71
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.34	Nitrate-N	n.a.	0.1594		0.04321	20.23
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.63	Sulfate	n.a.	0.4244		0.03141	14.70
Total:				1.0273	0.000	0.214	100.00

65 1202063586/962071/1/1/MS

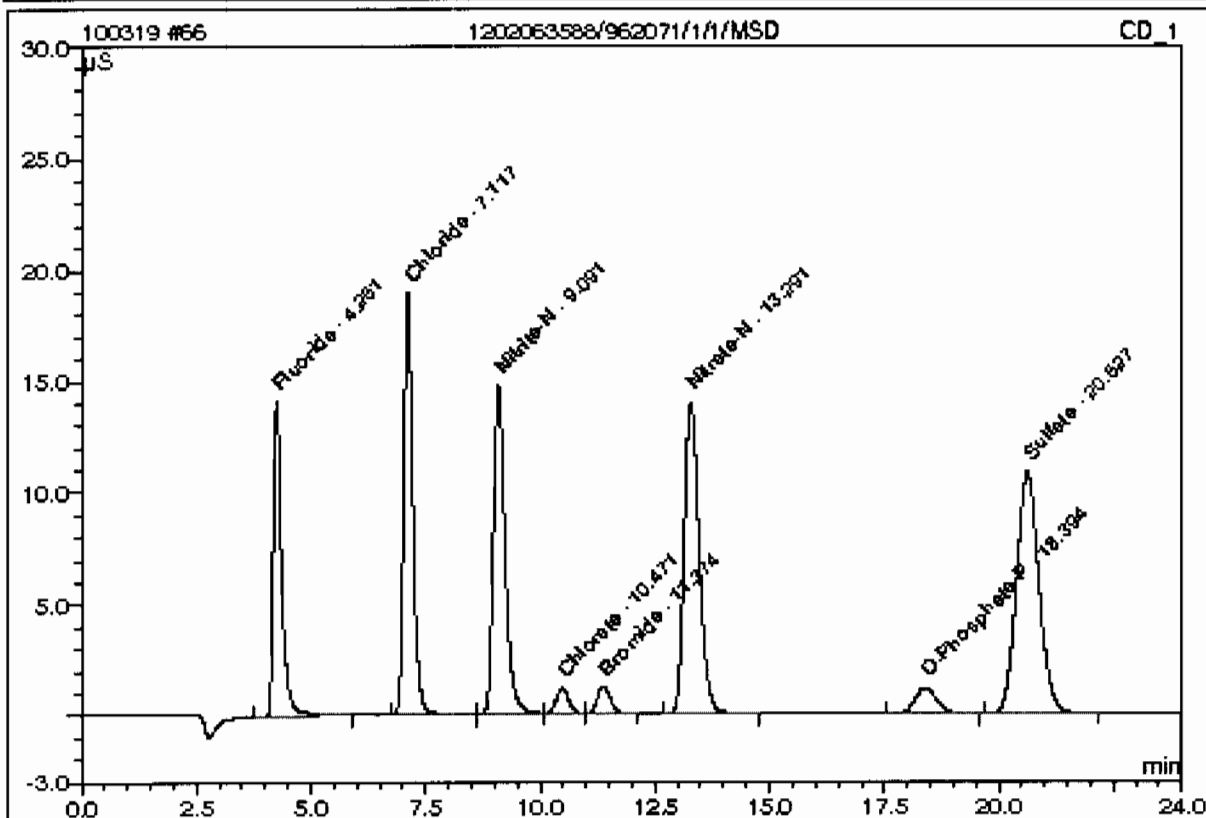
Sample Name:	1202063586/962071/1/1/MS	Injection Volume:	1.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 8:29	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.6884		2.97523	12.13
2	7.11	Chloride	n.a.	9.0300		4.33472	17.67
3	9.09	Nitrate-N	n.a.	4.6891		4.35432	17.75
4	10.47	Chlorate	n.a.	2.5073		0.39174	1.60
5	11.37	Bromide	n.a.	2.5135		0.42185	1.72
6	13.29	Nitrate-N	n.a.	4.6099		5.22077	21.29
7	18.39	O-Phosphate-P	n.a.	2.0482		0.65251	2.66
8	20.62	Sulfate	n.a.	18.4817		6.17650	25.18
Total:				48.5681	0.000	24.528	100.00

66 1202063588/962071/1/1/MSD

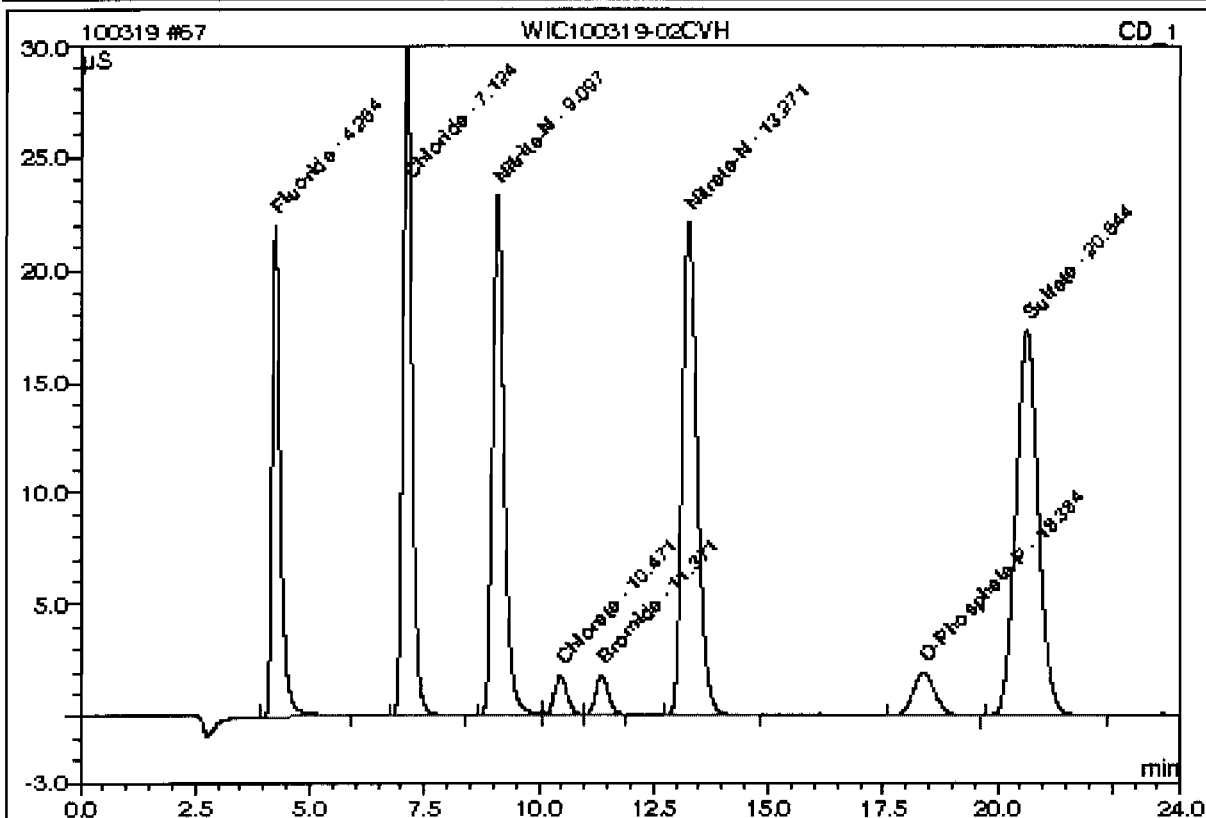
Sample Name:	1202063588/962071/1/1/MSD	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 8:56	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.7288		3.00119	12.16
2	7.12	Chloride	n.a.	9.0970		4.36750	17.69
3	9.09	Nitrate-N	n.a.	4.7268		4.38992	17.79
4	10.47	Chloride	n.a.	2.4915		0.38925	1.58
5	11.37	Bromide	n.a.	2.4680		0.41414	1.68
6	13.29	Nitrate-N	n.a.	4.6504		5.26800	21.34
7	18.39	O-Phosphate-P	n.a.	2.0385		0.64932	2.63
8	20.63	Sulfate	n.a.	18.5613		6.20361	25.13
Total:				48.7624	0.000	24.683	100.00

67 WIC100319-02CVH

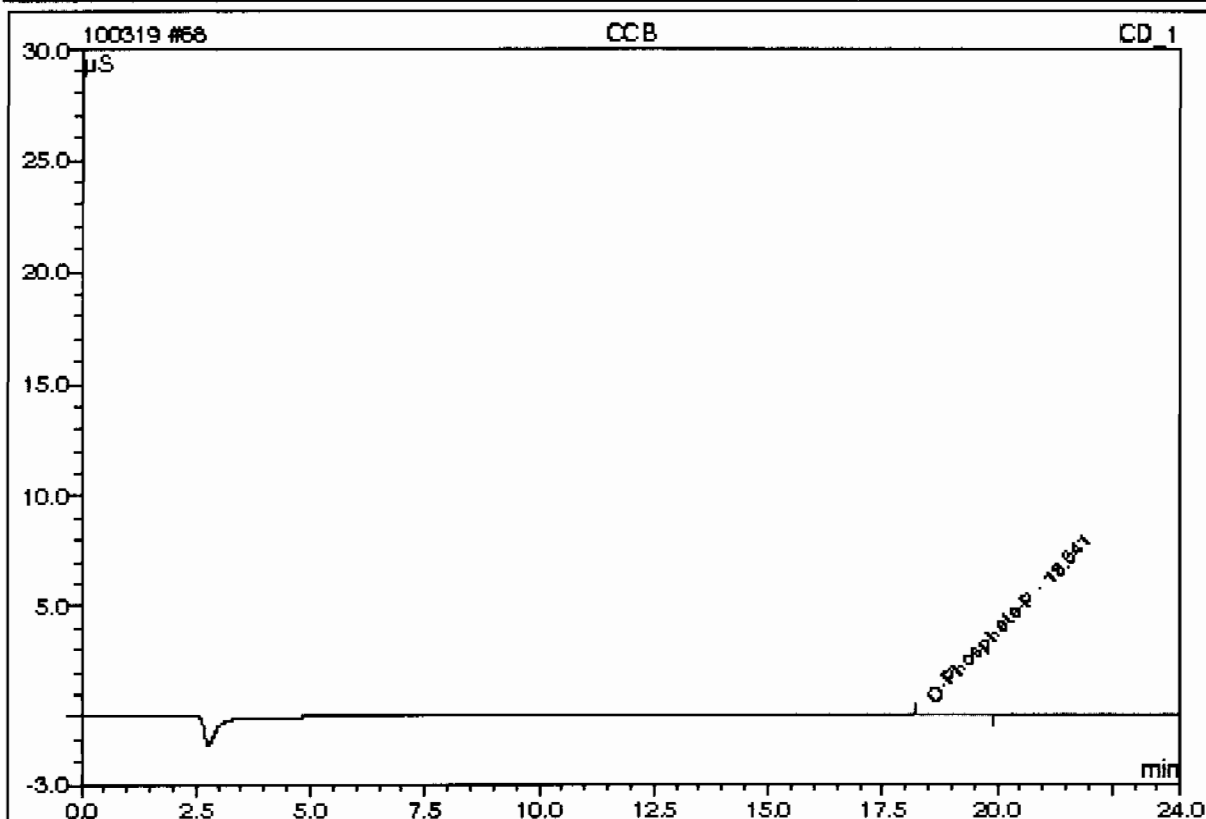
Sample Name:	WIC100319-02CVH	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 9:23	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	7.3290		4.67235	12.03
2	7.12	Chloride	n.a.	14.4082		6.96312	17.93
3	9.10	Nitrite-N	n.a.	7.3580		6.87612	17.71
4	10.47	Chlorate	n.a.	3.7179		0.58307	1.50
5	11.37	Bromide	n.a.	3.5255		0.59305	1.53
6	13.27	Nitrate-N	n.a.	7.2587		8.30240	21.38
7	18.38	O-Phosphate-P	n.a.	3.3396		1.07784	2.78
8	20.64	Sulfate	n.a.	29.0187		9.76237	25.14
Total:				75.9556	0.000	38.830	100.00

68 CCB

Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100311an	Sample Amount:	1.0000
Recording Time:	3/20/2010 9:49	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
1	18.54	O-Phosphate-P	n.a.	0.1971		0.04281	100.00
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.1971	0.000	0.043	100.00

pH

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 959481
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type Sample Id Serial Number Description
 CCV 240 IMM091029-PH PH 7 BUFFER FOR PH
 LCS 1202057889 IMM100209-01 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202057889 LCS		Soil	15:00	15:05	01-MAR-10 16:27	pH	20	20	6.99	18.3°C	7	99.857	
1202057889 LCS		Soil	15:00	15:05	01-MAR-10 16:27	pH 2	20	20	6.99	18.3°C	7	99.857	
248000001		Soil	15:00	15:05	01-MAR-10 16:27	pH	20	20	7.27	19.7°C			
248000001		Soil	15:00	15:05	01-MAR-10 16:27	pH 2	20	20	7.27	19.7°C			
1202057888 DUP	248000001	Soil	15:00	15:05	01-MAR-10 16:29	pH	20	20	7.31	19.7°C			.549
1202057888 DUP	248000001	Soil	15:00	15:05	01-MAR-10 16:29	pH 2	20	20	7.31	19.7°C			.549
248000002		Soil	15:00	15:05	01-MAR-10 16:30	pH	20	20	8.62	19.1°C			
248000002		Soil	15:00	15:05	01-MAR-10 16:30	pH 2	20	20	8.59	19.1°C			
248000003		Soil	15:00	15:05	01-MAR-10 16:36	pH	20	20	7.35	19.7°C			
248000003		Soil	15:00	15:05	01-MAR-10 16:36	pH 2	20	20	7.34	19.7°C			
CCV			15:00	15:05	01-MAR-10 16:39	pH	20	20	7.02	18.3°C	7	100.286	
CCV			15:00	15:05	01-MAR-10 16:39	pH 2	20	20	7.01	18.3°C	7	100.143	
248000004		Soil	15:00	15:05	01-MAR-10 16:41	pH	20	20	8.47	19.7°C			
248000004		Soil	15:00	15:05	01-MAR-10 16:41	pH 2	20	20	8.46	19.7°C			
248000005		Soil	15:00	15:05	01-MAR-10 16:42	pH	20	20	7.83	19.6°C			
248000005		Soil	15:00	15:05	01-MAR-10 16:42	pH 2	20	20	7.82	19.6°C			
248002001		Soil	15:00	15:05	01-MAR-10 16:44	pH	20	20	8	19.6°C			
248002001		Soil	15:00	15:05	01-MAR-10 16:44	pH 2	20	20	8	19.6°C			
248002002		Soil	15:00	15:05	01-MAR-10 16:46	pH	20	20	7.83	19.5°C			
248002002		Soil	15:00	15:05	01-MAR-10 16:46	pH 2	20	20	7.83	19.5°C			
248002003		Soil	15:00	15:05	01-MAR-10 16:47	pH	20	20	7.66	18.9°C			
248002003		Soil	15:00	15:05	01-MAR-10 16:47	pH 2	20	20	7.62	19.4°C			
CCV			15:00	15:05	01-MAR-10 16:49	pH	20	20	7.01	18.2°C	7	100.143	
CCV			15:00	15:05	01-MAR-10 16:49	pH 2	20	20	7.01	18.2°C	7	100.143	
248002004		Soil	15:00	15:05	01-MAR-10 16:50	pH	20	20	7.36	19.5°C			
248002004		Soil	15:00	15:05	01-MAR-10 16:50	pH 2	20	20	7.37	19.4°C			
248002005		Soil	15:00	15:05	01-MAR-10 16:52	pH	20	20	6.29	19.6°C			
248002005		Soil	15:00	15:05	01-MAR-10 16:52	pH 2	20	20	6.29	19.6°C			

GEL Laboratories LLC

Page#

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 959481
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type Sample Id Serial Number Description
 CCV 240 IMM091029-PH PH 7 BUFFER FOR PH
 LCS 1202057889 IMM100209-01 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
248002006		Soil	15:00	15:05	01-MAR-10 16:54	pH	20	20	8.17	19.6°C			
248002006		Soil	15:00	15:05	01-MAR-10 16:54	pH 2	20	20	8.17	19.6°C			
248002007		Soil	15:00	15:05	01-MAR-10 16:55	pH	20	20	7.63	19.5°C			
248002007		Soil	15:00	15:05	01-MAR-10 16:55	pH 2	20	20	7.62	19.5°C			
248002008		Soil	15:00	15:05	01-MAR-10 16:57	pH	20	20	8.04	19.4°C			
248002008		Soil	15:00	15:05	01-MAR-10 16:57	pH 2	20	20	8.03	19.4°C			
CCV			15:00	15:05	01-MAR-10 16:58	pH	20	20	7.02	18.2°C	7	100.286	
CCV			15:00	15:05	01-MAR-10 16:58	pH 2	20	20	7.01	18.3°C	7	100.143	
248041001		Soil	15:00	15:05	01-MAR-10 17:00	pH	20	20	8.62	19.2°C			
248041001		Soil	15:00	15:05	01-MAR-10 17:00	pH 2	20	20	8.62	19.2°C			
248041002		Soil	15:00	15:05	01-MAR-10 17:01	pH	20	20	8.67	18.9°C			
248041002		Soil	15:00	15:05	01-MAR-10 17:01	pH 2	20	20	8.66	19.0°C			
248041003		Soil	15:00	15:05	01-MAR-10 17:03	pH	20	20	5.18	18.9°C			
248041003		Soil	15:00	15:05	01-MAR-10 17:03	pH 2	20	20	5.17	18.9°C			
248041004		Soil	15:00	15:05	01-MAR-10 17:05	pH	20	20	8.87	19.0°C			
248041004		Soil	15:00	15:05	01-MAR-10 17:05	pH 2	20	20	8.88	19.0°C			
248041005		Soil	15:00	15:05	01-MAR-10 17:06	pH	20	20	5.39	19.0°C			
248041005		Soil	15:00	15:05	01-MAR-10 17:06	pH 2	20	20	5.39	19.0°C			
CCV			15:00	15:05	01-MAR-10 17:08	pH	20	20	7.01	18.3°C	7	100.143	
CCV			15:00	15:05	01-MAR-10 17:08	pH 2	20	20	7.01	18.3°C	7	100.143	
248143001		Misc Solid	15:00	15:05	01-MAR-10 17:10	pH	20	20	8.11	18.6°C			
248143001		Misc Solid	15:00	15:05	01-MAR-10 17:10	pH 2	20	20	8.12	18.7°C			
248203002		Soil	15:00	15:05	01-MAR-10 17:14	pH	20	20	8.65	18.9°C			
248203002		Soil	15:00	15:05	01-MAR-10 17:14	pH 2	20	20	8.65	18.9°C			
1202057887 DUP	248203002	Soil	15:00	15:05	01-MAR-10 17:15	pH	20	20	8.62	18.9°C			.347
1202057887 DUP	248203002	Soil	15:00	15:05	01-MAR-10 17:15	pH 2	20	20	8.63	18.9°C			.231
CCV			15:00	15:05	01-MAR-10 17:16	pH	20	20	7.01	18.3°C	7	100.143	
CCV			15:00	15:05	01-MAR-10 17:16	pH 2	20	20	7	18.3°C	7	100	

pH / Corrosivity LogBook

Calibration Information:

Run Date: 01-MAR-10 15:06
Instrument: PHX742
Analyst: LXA1

Comments:

	Standard	Observed	Theoretical	C	%Recovery
15:06	IMM100301-PH1	4.01	4	SU 19.7	100.25
15:06	IMM100301-PH2	7.02	7	SU 19.7	100.29
15:06	UPH100301-PH3	10	10	SU 19.7	100
15:06	UPH100301-PH4	2.07	2	SU 19.7	103.5
15:06	UPH100301-PH5	12.01	12	SU 19.7	100.08
15:06	IMM100301-PH6	6.99	7	SU 19.7	99.857

Miscellaneous

DATA EXCEPTION REPORT

Mo.Day Yr. 08-MAR-10	Division:	Quality Criteria:	Type:
Instrument Type:	Test / Method: SW846 9012A	Matrix Type: Solid	Client Code: LANL
Batch ID: 958158	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 248000(10-2025-1),248033(10-2072),248055(10-2078),248065(10-2086) Application Issues: Container scanning event for custody missed			
Specification and Requirements Exception Description: 1. Container scanning event for custody missed: 248000 001, 002, 003, 004, 005 248033 001, 002, 003, 004, 005, 006 248055 015, 016, 017, 018, 019, 020 248065 005, 007, 008		DER Disposition: 1. Due to analyst oversight samples were not scanned prior to analysis. However, samples were in custody of the analyst during time of analysis.	

Originator's Name:

Ashley Earl

08-MAR-10

Data Validator/Group Leader:

Elzbieta Szulc

13-MAR-10

DATA EXCEPTION REPORT

Mo.Day Yr. 23-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: IC	Test / Method: EPA 300.0	Matrix Type: Solid	Client Code: LANL
Batch ID: 962071	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 248000(10-2025-1),248002(10-2028-1)

Application Issues:

Failed Recovery for MS/PS

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MS/MSD:

QC 1202063585MS,1202063586MS, 1202063587MSD,
1202063588MSD

DER Disposition:

1. The MS and MSD recovery falls outside of the GEL acceptance limits but within the client specified limits.

Originator's Name:

Mary Sherwood 23-MAR-10

Data Validator/Group Leader:

Elzbieta Szulc 24-MAR-10