

Tuesday, February 09, 2010

Page 1 of 2  
REQUEST NUMBER: 10-1704

**LOS ALAMOS**  
**NATIONAL LABORATORY**

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.  
2040 Savage Rd  
Charleston, SC 29407

LANL Request Number: 10-1704  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/9/2010

TURNAROUND/REPORT DUE: 3/11/2010

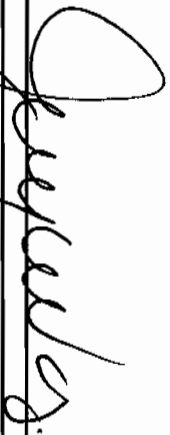
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ERS MO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6010B		1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
SW-846:9012A		1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

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REQUEST NUMBER: 10-1704

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9012A						
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1704

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1704

**LOS ALAMOS**

REQUEST NUMBER: 10-1704

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/11/2010

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
RE15-10-8185	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8183	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8179	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8184	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8180	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8181	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8182	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8210	1	POLY	Metals+ClO4+CN	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: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8179

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		09:50		SUB-MEDIA:		TUFF 1	
PRS ID: 15-007(c)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610816		OK		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		OK		FIELD PREP:		NA	
TOP DEPTH: 0		79.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		80.0 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	
BOREHOLE: YES / NO / NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	808Z+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice		
1		Metals+ClO4+CN	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

## SAMPLE DESC:

Light gray, moderately to non-indurated, non welded, dehydrified  
 dig, ash flow tuff

## SAMPLE COMMENTS:

N/A

## LOCATION DESC:

7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm  
 Beta/Gamma = 643 dpm

PID  $\frac{\text{Ambient Reading}}{0} = 0$  ppm

COLLECTED BY (PRINT)

J. MARIN

REVIEWED BY (PRINT)

LARRY A. LOPEZ

RELINQUISHED BY (Printed Name) A. Goumas (Signature) <i>A. Goumas</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time



## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8180

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		10:20		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610816	OK		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		NA	
TOP DEPTH:	0	94.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	95.0 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	ARM 2/5/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

## SAMPLE DESC:

Light gray, non indurated, non welded, dehydrified, dry  
ash flow tuff

## SAMPLE COMMENTS:

NA

## LOCATION DESC:

7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 23.1 dpm

Beta/Gamma = 1410 dpm

100  $\frac{\text{Ambient Reading}}{\text{Reading}}$  ppm

COLLECTED BY (PRINT)

L. Lopez

REVIEWED BY (PRINT)

Riley E.

RELINQUISHED BY (Printed Name) A. Goumas (Signature) <i>A. Goumas</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) <i>Sherrif Newwood</i> (Signature) <i>Sherrif Newwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8181

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		10:50		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610816			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	109.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	110.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES (X) / NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	2mm 2/5/10 80824-NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

## SAMPLE DESC:

Light gray, non-indurated, nonwelded, detritified, dry, ash flow tuff

## SAMPLE COMMENTS:

## LOCATION DESC:

7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha =  $\frac{10}{27}$  dpm 2/5/10  
Beta/Gamma = 2700 dpm

PID  $\frac{\text{Ambient Reading}}{0} = 0$  ppm

COLLECTED BY (PRINT)

L. Lopez

REVIEWED BY (PRINT)

Riley Evans

RELINQUISHED BY (Printed Name) A. Gouveas (Signature) <i>A. Gouveas</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8182

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:	QBT3		QBT 2
TIME COLLECTED(HH:MM)	12M 2/5/10 11	12:50		SUB-MEDIA:	TUFF 1		OK
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:	HA		CBS
LOCATION ID:	15-610816			FIELD QC TYPE:	NA		OK
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		OK
TOP DEPTH:	0	124.0 ft		SAMPLE USAGE:	INV		OK
BOTTOM DEPTH:	0	125.0 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
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	-90°		BOREHOLE DIRECTION: NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	12M 2/5/10 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

## SAMPLE DESC:

Light pinkish gray, moderately to strongly indurated, slightly welded, devitrified, dry, ash flow tuff moderately 12M 2/5/10

## SAMPLE COMMENTS:

NA

## LOCATION DESC:

7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 dpm  
Beta/Gamma = 1053 dpm

PID  $\frac{\text{Ambient Reading}}{0}$  ppm

COLLECTED BY (PRINT)

L. Lopez

REVIEWED BY (PRINT)

R. E. Egan

RELINQUISHED BY (Printed Name) A. Goumas (Signature) <i>A. Goumas</i>	Date/Time 2.5.10 1623	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8183

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		12:45		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610816			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	139.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	140.0 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+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

## SAMPLE DESC:

Light brownish gray moderately to strongly indurated, slightly welded, phaeocryst-rich, devitrified, dry, ash flow tuff

## SAMPLE COMMENTS:

NA

## LOCATION DESC:

+7 ARM 2/5/10 7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 3 dpm  
Beta/Gamma = 1680 dpm

PID  $\frac{\text{Ambient Reading}}{0} = 0$  ppm

COLLECTED BY (PRINT)

L. Lopez

REVIEWED BY (PRINT)

J. MAIN

RELINQUISHED BY (Printed Name) A. Gomas (Signature) <i>A. Gomas</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) <i>Shenwood</i> (Signature) <i>Shenwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8184

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		13:30		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610816			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	154.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	155.0 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	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: -90°		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	1RM 2/5/10 80827-NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

## SAMPLE DESC:

Light brownish gray, moderately indurated, nonwelded, dehydrified  
dry, arch flow tuff

## SAMPLE COMMENTS:

AA 1RM 2/5/10 Sample contains 1 cm thick clay fracture fill

## LOCATION DESC:

7c-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 dpm  
Beta/Gamma = 1397 dpm

PID  $\frac{\text{Ambient Reading}}{0} = 0$  ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

L. Lopez

J. Marin

RELINQUISHED BY (Printed Name) A. Goumas (Signature) <i>Alexander</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) Sherrig Sherwood (Signature) <i>Sherrig Sherwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8185

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/05/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		14:14		SUB-MEDIA:		TUFF 1	
PRS ID:	15-007(c)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610816			FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC			FIELD PREP:		NA	
TOP DEPTH:	0	169.0 ft		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	170.0 ft		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	OK		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	15-007(c) 8082+NMED-HEXP	250 ML AMBER GLASS	Ice	Y	
1		H3	500 ML POLY	Ice	Y	
1		Metals+ClO4+CN	500 ML POLY	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Light Brownish gray, moderately indurated, non welded, devitrified  
dry, ash flow tuff

SAMPLE COMMENTS:

Thin fractures and iron oxide stain in sample

LOCATION DESC:

7c-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 20 dpm  
Beta/Gamma = 1397 dpm

PID  $\frac{\text{Ambient Reading}}{0} = 0$  ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

J. MARIN

RELINQUISHED BY (Printed Name) A. Ganga (Signature) <i>A. Ganga</i>	Date/Time 2.5.10 1625	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/5/10 1625
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2503

EVENT NAME: 4th Qtr. FY09 - SWMU 15-007(c) - Threemile Canyon

SAMPLE ID: RE15-10-8210

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		<u>02/05/2010</u>		MEDIA:		<u>QBT3</u>	
TIME COLLECTED (HH:MM)		<u>14:50</u>		SUB-MEDIA:		<u>TUFF 1</u>	
PRS ID:	<u>15-007(c)</u>	<u>OK</u>		SAMPLE TECH CODE:		<u>HA</u>	
LOCATION ID:	<u>UNK</u>	<u>15-610816</u>		FIELD QC TYPE:		<u>NA</u>	
LOCATION TYPE:	<u>GENERIC</u>	<u>OK</u>		FIELD PREP:		<u>NA</u>	
TOP DEPTH:	<u>0</u>	<u>181.5 ft</u>		SAMPLE USAGE:		<u>INV</u>	
BOTTOM DEPTH:	<u>0</u>	<u>182.5 ft</u>		SCREEN/PORT DESC:		<u>NA</u>	
FIELD MATRIX:	<u>B</u>	<u>OK</u>		EXCAVATED: YES/NO/NA		<u>NO</u>	
COMPOSITE TYPE: <u>NA</u>		COMPOSITE TIME INTERVAL: <u>NA</u>		WATER FLOWING: YES/NO/NA		<u>NO</u>	
BOREHOLE: <u>YES</u> / NO / NA		BOREHOLE DECLINATION: <u>-90°</u>		BOREHOLE DIRECTION: <u>NA</u>			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	<u>Normal</u>	8082+NMED-HEXP	250 ML AMBER GLASS	Ice	<u>Y</u>	
1		H3	500 ML POLY	Ice	<u>Y</u>	
1		Metals+ClO4+CN	500 ML POLY	Ice	<u>Y</u>	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	<u>Y</u>	

## SAMPLE DESC:

Light brownish gray, slightly indurated, non welded, deiritrified dry, ash flow tuff

## SAMPLE COMMENTS:

AA 1cm ±/5/10 Sample contains 1.0 cm thick clay fracture fill.

## LOCATION DESC:

7e-1

## FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 24 dpm  
Beta/Gamma = 1377 dpm

PID  $\frac{\text{Ambient}}{\text{Reading}} \frac{0}{0}$  ppm

COLLECTED BY (PRINT)

L. Lopez

REVIEWED BY (PRINT)

J. Marin

RELINQUISHED BY (Printed Name) <u>A. Goumas</u> (Signature) <u>[Signature]</u>	Date/Time <u>2.5.10</u> <u>1625</u>	RECEIVED BY (Printed Name) <u>Sherrigherwood</u> (Signature) <u>[Signature]</u>	Date/Time <u>2/5/10</u> <u>1625</u>
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

## Rad Screening Data Release Form

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

REIS - 10 - 8179  
8180  
8181  
8182  
8183  
8184  
8185  
8210

WS+IS 10 - 11621  
11620

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):

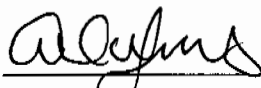
WS+IS - 10 - 11625  
11626

Reason: QC of samples

.....

Print Last Name Gannas

Signature



Date 2.5.10



## DATA VALIDATION COVER SHEET

5121-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-1704 VALIDATION DATE: 03/25/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess 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    |

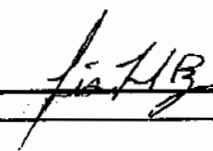
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

- The MS/MSD %R calculations were performed incorrectly. The parent sample result was < the MDL and, thus, a result of 0 ug/kg should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentration. The %Rs were within the acceptable limits when calculated correctly. No sample results were qualified.


Reviewed by: Mary Donovan

Level: I


Date: 03/25/10

VALIDATOR'S SIGNATURE: 


DATE: 03/25/10

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5121-2</b> 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 type="checkbox"/>	<input checked="" 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	UJ, R,	J, PERC7a

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5121-2</b> 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
			initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.99.	PERC7a	
<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	R, PERC12c	R, PERC12c

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5121-2</b> 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
			external laboratory for information.		
<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
<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: SOIL  
 Extraction Batch ID: 252905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8185  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679001  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 % Solids: 91

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:24	per0223089a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate-O(18)			5.30	ug/kg		1	24-FEB-10 00:24	per0223089a

<sup>^</sup> 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

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: 952905

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8183

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679002

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 96.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:48	per0223092a
14797-73-0	Perchlorate-101	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate-O(18)			4.78	ug/kg		1	24-FEB-10 00:48	per0223092a

<sup>^</sup> 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8179  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679003  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 98.5

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 00:56	per0223093a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:56	per0223093a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 00:56	per0223093a
	Perchlorate-O(18)			4.70	ug/kg		1	24-FEB-10 00:56	per0223093a

<sup>^</sup> 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8184  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679004  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 27.1

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:04	per0223094a
14797-73-0	Perchlorate-101	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate-O(18)			5.37	ug/kg		1	24-FEB-10 01:04	per0223094a

<sup>^</sup> 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: 952905  
 Extraction Type: Solid Prep  
 Client Sample No. RE15-10-8180  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679005  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 98.4

Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 01:12	per0223095a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:12	per0223095a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 01:12	per0223095a
	Perchlorate-O(18)			4.55	ug/kg		1	24-FEB-10 01:12	per0223095a

<sup>^</sup> 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8181  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679006  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 98.1

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:20	per0223096a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate-O(18)			4.60	ug/kg		1	24-FEB-10 01:20	per0223096a

<sup>^</sup> 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8182  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679007  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 97.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:28	per0223097a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate-O(18)			4.74	ug/kg		1	24-FEB-10 01:28	per0223097a

<sup>^</sup> 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: 952905

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8210

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679008

Date Filtered: 22-FEB-10

Injection Volume (mL): 20

%Solids: 23.2

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:36	per0223098a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate-O(18)			4.98	ug/kg		1	24-FEB-10 01:36	per0223098a

<sup>^</sup> 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

## DATA VALIDATION COVER SHEET

5118-1

Records Use only

## Data Validation Cover Sheet



## Section I.

REQUEST NUMBER: 10-1704 VALIDATION DATE: 03/25/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess 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 | 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):

- The MS %Rs were < the laboratory LAL but  $\geq 10\%$  for Be, Ni, Se, As and Tl. All associated sample results for Be and Ni and the Tl sample results for RE15-10-8184 and -8185 and the As sample results for all samples except -8179, -8180 and -8181 were detects and, thus, were qualified J-,I6a. The remaining associated Tl and As sample results and all associated sample results for Se were NDs and, thus, were qualified UJ,I6a. The MS %Rs were > the laboratory UAL for Mg, K, Al, Fe, Mn and Hg. All associated sample results for Mg and K and the Hg sample results for -8184 and -8210 were detects and, thus, were qualified J+,I6b. The remaining associated Hg sample results were NDs and, thus, were qualified UJ,I6b. The Al, Fe and Mn parent sample concentrations were >4X the spike concentrations; thus, the associated sample results were not qualified based on professional judgment.
- It should be noted that the matrix QC for the Hg analyses were performed on a LANL sample from another RN. Sample data were not qualified as a result.

Reviewed by: Mary Donovan

Level: I

Date: 03/25/10


VALIDATOR'S SIGNATURE: *Lia H B*

DATE: 03/25/10


Form 5118-1, Revision 0.0

 LOS ALAMOS  
 Environmental Restoration Project



METALS ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5118-2</b>  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	R, I2	J-, I2

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5118-2</b>  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
			recover value is <50%.		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is ≥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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, I4	N/A
<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. 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"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. 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"/>	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 type="checkbox"/>	<input checked="" 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 <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 > the	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
			UAL. Follow the external laboratory limits located within the associated data package.		
<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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	R, I1a	J, I1a

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5118-2</b>  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
			windows.		
<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: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679001

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8185

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 91

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4670000	ug/kg	*	7300	21500	21500	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-36-0	Antimony	1070	ug/kg	U	354	1070	1070	1	P	HSC	03/09/10 10:05	030810B-2	951773
7440-38-2	Arsenic J-, I6a	728	ug/kg	JN	210	1050	1050	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-39-3	Barium	22200	ug/kg		107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-41-7	Beryllium J-, I6a	3140	ug/kg	*N	21	105	105	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-43-9	Cadmium	249	ug/kg	J	107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-70-2	Calcium	1010000	ug/kg		8590	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-47-3	Chromium	4040	ug/kg	*	161	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-48-4	Cobalt	686	ug/kg		161	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-50-8	Copper	2520	ug/kg		322	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-89-6	Iron	6590000	ug/kg		8590	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-92-1	Lead	4190	ug/kg		268	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-95-4	Magnesium J+, I6b	722000	ug/kg	N	9130	32200	32200	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-96-5	Manganese	243000	ug/kg		215	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-97-6	Mercury UJ, I6b	12.8	ug/kg	U	4.36	12.8	12.8	1	AV	JXL1	02/24/10 11:40	022410S1-4	954989
7440-02-0	Nickel J-, I6a	2500	ug/kg	N	105	420	420	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-09-7	Potassium J+, I6b	545000	ug/kg	N	6870	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7782-49-2	Selenium UJ, I6a	1050	ug/kg	UN	525	1050	1050	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-22-4	Silver	128	ug/kg	J	107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-23-5	Sodium	58900	ug/kg		7520	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-28-0	Thallium J-, I6a	65.9	ug/kg	JN	62.9	210	210	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-62-2	Vanadium	4980	ug/kg		107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-66-6	Zinc	44400	ug/kg		354	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.512	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.524	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.514	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679002

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8183

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 96.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1050000	ug/kg	*	6440	18900	18900	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-36-0	Antimony	947	ug/kg	U	312	947	947	1	P	HSC	03/09/10 10:55	030810B-2	951773
7440-38-2	Arsenic J-,16a	634	ug/kg	JN	201	1000	1000	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-39-3	Barium	14400	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-41-7	Beryllium J-,16a	1540	ug/kg	*N	20.1	100	100	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-43-9	Cadmium	179	ug/kg	J	94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-70-2	Calcium	292000	ug/kg		7570	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-47-3	Chromium	11300	ug/kg	*	142	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-48-4	Cobalt	1240	ug/kg		142	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-50-8	Copper	5130	ug/kg		284	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-89-6	Iron	6090000	ug/kg		7570	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-92-1	Lead	4830	ug/kg		237	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-95-4	Magnesium J+,16b	166000	ug/kg	N	8050	28400	28400	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-96-5	Manganese	357000	ug/kg		189	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-97-6	Mercury UJ,16b	11.3	ug/kg	U	3.84	11.3	11.3	1	AV	JXL1	02/24/10 11:42	022410S1-4	954989
7440-02-0	Nickel J-,16a	952	ug/kg	N	100	402	402	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-09-7	Potassium J+,16b	287000	ug/kg	N	6060	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7782-49-2	Selenium UJ,16a	1000	ug/kg	UN	502	1000	1000	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-22-4	Silver	647	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-23-5	Sodium	162000	ug/kg		6630	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-28-0	Thallium UJ,16a	201	ug/kg	UN	60.2	201	201	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-62-2	Vanadium	2770	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-66-6	Zinc	44800	ug/kg		312	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.545	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.514	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.548	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

**SAMPLE ID:** 246679003      **BASIS:** Dry Weight      **DATE COLLECTED** 05-FEB-10  
**CLIENT ID:** RE15-10-8179      **LEVEL:** Low      **DATE RECEIVED** 10-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	288000	ug/kg	*	6730	19800	19800	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-36-0	Antimony	990	ug/kg	U	327	990	990	1	P	HSC	03/09/10 11:02	030810B-2	951773
7440-38-2	Arsenic UJ,16a	1010	ug/kg	UN	202	1010	1010	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-39-3	Barium	8510	ug/kg		99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-41-7	Beryllium J-,16a	244	ug/kg	*N	20.2	101	101	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-43-9	Cadmium	212	ug/kg	J	99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-70-2	Calcium	414000	ug/kg		7920	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-47-3	Chromium	2230	ug/kg	*	148	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-48-4	Cobalt	387	ug/kg	J	148	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-50-8	Copper	1640	ug/kg		297	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-89-6	Iron	6490000	ug/kg		7920	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-92-1	Lead	2470	ug/kg		247	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-95-4	Magnesium J+,16b	111000	ug/kg	N	8410	29700	29700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-96-5	Manganesec	202000	ug/kg		198	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-97-6	Mercury UJ,16b	10.4	ug/kg	U	3.52	10.4	10.4	1	AV	JXL1	02/24/10 11:44	022410S1-4	954989
7440-02-0	Nickel J-,16a	950	ug/kg	N	101	404	404	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-09-7	Potassium J+,16b	138000	ug/kg	N	6330	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7782-49-2	Selenium UJ,16a	1010	ug/kg	UN	505	1010	1010	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-22-4	Silver	165	ug/kg	J	99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-23-5	Sodium	69000	ug/kg		6930	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-28-0	Thallium UJ,16a	202	ug/kg	UN	60.6	202	202	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-62-2	Vanadium	2300	ug/kg		99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-66-6	Zinc	43100	ug/kg		327	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.513	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.503	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.588	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679004

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8184

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 97.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4010000	ug/kg	*	6970	20500	20500	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-36-0	Antimony	1030	ug/kg	U	338	1030	1030	1	P	HSC	03/09/10 11:09	030810B-2	951773
7440-38-2	Arsenic J-,16a	1090	ug/kg	N	206	1030	1030	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-39-3	Barium	19700	ug/kg		103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-41-7	Beryllium J-,16a	8680	ug/kg	*N	20.6	103	103	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-43-9	Cadmium	206	ug/kg	J	103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-70-2	Calcium	950000	ug/kg		8200	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-47-3	Chromium	5450	ug/kg	*	154	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-48-4	Cobalt	584	ug/kg		154	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-50-8	Copper	2850	ug/kg		308	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-89-6	Iron	5910000	ug/kg		8200	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-92-1	Lead	3860	ug/kg		256	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-95-4	Magnesium J+,16b	632000	ug/kg	N	8720	30800	30800	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-96-5	Manganese	194000	ug/kg		205	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-97-6	Mercury J+,16b	10.5	ug/kg	J	3.85	11.3	11.3	1	AV	JXL1	02/24/10 11:46	022410S1-4	954989
7440-02-0	Nickel J-,16a	3530	ug/kg	N	103	412	412	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-09-7	Potassium J+,16b	438000	ug/kg	N	6560	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7782-49-2	Selenium UJ,16a	1030	ug/kg	UN	515	1030	1030	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-22-4	Silver	111	ug/kg	J	103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-23-5	Sodium	50700	ug/kg		7180	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-28-0	Thallium J-,16a	83.2	ug/kg	JN	61.8	206	206	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-62-2	Vanadium	4350	ug/kg		103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-66-6	Zinc	40500	ug/kg		338	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.502	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.5	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.545	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679005

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8180

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 98.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	276000	ug/kg	*	6460	19000	19000	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-36-0	Antimony	950	ug/kg	U	313	950	950	1	P	HSC	03/09/10 11:16	030810B-2	951773
7440-38-2	Arsenic UJ,16a	985	ug/kg	UN	197	985	985	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-39-3	Barium	8470	ug/kg		95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-41-7	Beryllium J-,16a	326	ug/kg	*N	19.7	98.5	98.5	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-43-9	Cadmium	216	ug/kg	J	95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-70-2	Calcium	254000	ug/kg		7600	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-47-3	Chromium	1720	ug/kg	*	142	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-48-4	Cobalt	444	ug/kg	J	142	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-50-8	Copper	1850	ug/kg		285	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-89-6	Iron	6980000	ug/kg		7600	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-92-1	Lead	2930	ug/kg		237	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-95-4	Magnesium J+,16b	129000	ug/kg	N	8070	28500	28500	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-96-5	Manganese	222000	ug/kg		190	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-97-6	Mercury UJ,16b	11.4	ug/kg	U	3.87	11.4	11.4	1	AV	JXL1	02/24/10 11:52	022410S1-4	954989
7440-02-0	Nickel J-,16a	635	ug/kg	N	98.5	394	394	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-09-7	Potassium J+,16b	124000	ug/kg	N	6080	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7782-49-2	Selenium UJ,16a	985	ug/kg	UN	492	985	985	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-22-4	Silver	121	ug/kg	J	95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-23-5	Sodium	58500	ug/kg		6650	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-28-0	Thallium UJ,16a	197	ug/kg	UN	59.1	197	197	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-62-2	Vanadium	2170	ug/kg		95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-66-6	Zinc	46100	ug/kg		313	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.535	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.516	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.536	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

## METALS

-1-

## INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679006

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8181

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 98.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	780000	ug/kg	*	6890	20300	20300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	334	1010	1010	1	P	HSC	03/09/10 11:23	030810B-2	951773
7440-38-2	Arsenic	1020	ug/kg	UN	203	1020	1020	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-39-3	Barium	16100	ug/kg		101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-41-7	Beryllium	286	ug/kg	*N	203	102	102	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-43-9	Cadmium	350	ug/kg	J	101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-70-2	Calcium	586000	ug/kg		8110	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-47-3	Chromium	3340	ug/kg	*	152	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-48-4	Cobalt	595	ug/kg		152	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-50-8	Copper	1980	ug/kg		304	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-89-6	Iron	8080000	ug/kg		8110	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-92-1	Lead	4650	ug/kg		253	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-95-4	Magnesium	635000	ug/kg	N	8610	30400	30400	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-96-5	Manganese	325000	ug/kg		203	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-97-6	Mercury	11.6	ug/kg	U	3.95	11.6	11.6	1	AV	JXL	02/24/10 11:54	022410S1-4	954989
7440-02-0	Nickel	678	ug/kg	N	102	407	407	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-09-7	Potassium	536000	ug/kg	N	6490	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7782-49-2	Selenium	1020	ug/kg	UN	509	1020	1020	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-22-4	Silver	162	ug/kg	J	101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-23-5	Sodium	161000	ug/kg		7090	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-28-0	Thallium	203	ug/kg	UN	61	203	203	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-62-2	Vanadium	3860	ug/kg		101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-66-6	Zinc	59400	ug/kg		334	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773

## Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.503	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.501	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.526	g	30	mL	02/23/10	TXB3

LTB  
03/25/10



**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679007

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8182

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 97.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1500000	ug/kg	*	6860	20200	20200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	333	1010	1010	1	P	HSC	03/09/10 11:30	030810B-2	951773
7440-38-2	Arsenic J-,I6a	384	ug/kg	JN	189	944	944	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-39-3	Barium	16300	ug/kg		101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-41-7	Beryllium J-,I6a	779	ug/kg	*N	18.9	94.4	94.4	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-43-9	Cadmium	165	ug/kg	J	101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-70-2	Calcium	671000	ug/kg		8070	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-47-3	Chromium	24800	ug/kg	*	151	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-48-4	Cobalt	628	ug/kg		151	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-50-8	Copper	2610	ug/kg		303	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-89-6	Iron	6350000	ug/kg		8070	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-92-1	Lead	3510	ug/kg		252	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-95-4	Magnesium J+,I6b	306000	ug/kg	N	8580	30300	30300	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-96-5	Manganese	248000	ug/kg		202	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-97-6	Mercury UJ,I6b	10.4	ug/kg	U	3.53	10.4	10.4	1	AV	JXL1	02/24/10 11:55	022410S1-4	954989
7440-02-0	Nickel J-,I6a	1200	ug/kg	N	94.4	377	377	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-09-7	Potassium J+,I6b	360000	ug/kg	N	6460	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7782-49-2	Selenium UJ,I6a	944	ug/kg	UN	472	944	944	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-22-4	Silver	114	ug/kg	J	101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-23-5	Sodium	147000	ug/kg		7060	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-28-0	Thallium UJ,I6a	189	ug/kg	UN	56.6	189	189	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-62-2	Vanadium	3280	ug/kg		101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-66-6	Zinc	40700	ug/kg		333	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.506	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.541	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.59	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679008

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8210

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 93.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3990000	ug/kg	*	6870	20200	20200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	333	1010	1010	1	P	HSC	03/09/10 11:38	030810B-2	951773
7440-38-2	Arsenic J-,16a	714	ug/kg	JN	214	1070	1070	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-39-3	Barium	21300	ug/kg		101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-41-7	Beryllium J-,16a	2460	ug/kg	*N	21.4	107	107	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-43-9	Cadmium	256	ug/kg	J	101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-70-2	Calcium	1180000	ug/kg		8080	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-47-3	Chromium	4610	ug/kg	*	151	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-48-4	Cobalt	875	ug/kg		151	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-50-8	Copper	2910	ug/kg		303	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-89-6	Iron	7600000	ug/kg		8080	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-92-1	Lead	4430	ug/kg		252	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-95-4	Magnesium J+,16b	777000	ug/kg	N	8580	30300	30300	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-96-5	Manganese	297000	ug/kg		202	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-97-6	Mercury J+,16b	16.7	ug/kg		4.2	12.4	12.4	1	AV	JXL1	02/24/10 11:57	022410S1-4	954989
7440-02-0	Nickel J-,16a	2430	ug/kg	N	107	429	429	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-09-7	Potassium J+,16b	578000	ug/kg	N	6460	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7782-49-2	Selenium UJ,16a	1070	ug/kg	UN	536	1070	1070	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-22-4	Silver	153	ug/kg	J	101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-23-5	Sodium	57100	ug/kg		7070	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-28-0	Thallium UJ,16a	214	ug/kg	UN	64.3	214	214	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-62-2	Vanadium	5700	ug/kg		101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-66-6	Zinc	50300	ug/kg		333	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.531	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.5	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.521	g	30	mL	02/23/10	TXB3

LTB  
03/25/10

## DATA VALIDATION COVER SHEET

5120-1

## Data Validation Cover Sheet

Records Use only



## Section I.

REQUEST NUMBER: 10-1704 VALIDATION DATE: 03/25/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Lisa Burgess 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 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 | PESTICIDES/POLYCHLORINATED BIPHENYLS         |
| <input type="checkbox"/> OTHER (DESCRIBE): Total CN only |  |   |  |

## 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):

1. It should be noted that the matrix QC analyses were performed on LANL samples from other RNs. No sample data were qualified as a result.


Reviewed by: Mary Donovan

Level: I


Date: 03/25/10

VALIDATOR'S SIGNATURE: 

DATE: 03/25/10

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
<b>5120-2</b>  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"/>	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is ≤5X the concentration of	U, I4	N/A

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
			the related analyte in the method blank.		
<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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	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
			RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package.		
<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	U, U_LAB	J, J_LAB NQ, NQ (no qualification)

## 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 type="checkbox"/>		

the external laboratory.

# 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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8185  
Sample ID: 246679001  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 9.04%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	74.8	275	ug/kg	1	AXC2	02/18/10	1602	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	



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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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8183  
Sample ID: 246679002  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 3.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	70.2	258	ug/kg	1	AXC2	02/18/10	1603	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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## Certificate of Analysis

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8179  
Sample ID: 246679003  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.51%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	02/18/10	1604	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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### Certificate of Analysis

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8184  
Sample ID: 246679004  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 2.86%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	68.6	252	ug/kg	1	AXC2	02/18/10	1605	951954	1

#### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

#### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8180  
Sample ID: 246679005  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.59%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.1	254	ug/kg	1	AXC2	02/18/10	1606	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

# GEL LABORATORIES LLC

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## Certificate of Analysis

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8181  
Sample ID: 246679006  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.92%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.3	255	ug/kg	1	AXC2	02/18/10	1607	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

# 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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8182  
Sample ID: 246679007  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 2.06%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.4	255	ug/kg	1	AXC2	02/18/10	1610	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

# 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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8210  
Sample ID: 246679008  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 6.75%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
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### Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	70.1	258	ug/kg	1	AXC2	02/18/10	1610	951954	1
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### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1704

LOS ALAMOS

REQUEST NUMBER: 10-1704

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/11/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246679%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8185	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8183	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8179	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8184	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8180	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8181	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8182	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8210	1	POLY	Metals+ClO4+CN	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



Tuesday, February 09, 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: 10-1704  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/9/2010

TURNAROUND/REPORT DUE: 3/11/2010

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
	SW-846:9010B	1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
	SW-846:9012A	1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-848-9012A	1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1704



February 16, 2010

[www.gel.com](http://www.gel.com)

Ms. Joylene Valdez  
Los Alamos National Laboratory  
PO Box 1663  
TA-03, SM271, Drop Pt. 02U, Rm111  
Los Alamos, New Mexico 87545

Re: LANL ER Project  
Work Order: 246679  
SDG: 10-1704

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 10, 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 Manager

Purchase Order: 72733-001-09  
Chain of Custody: 10-1704  
Enclosures

**Los Alamos National Laboratory (72733-001-09)**  
**LANL ER Project**  
**Work Order #: 246679**  
**SDG: 10-1704**

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# Case Narrative

**Case Narrative for  
Los Alamos National Laboratory (72733-001-09)  
LANL ER Project  
Workorder #: 246679  
SDG # : 10-1704**

**February 16, 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 10, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers 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:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
246679001	RE15-10-8185
246679002	RE15-10-8183
246679003	RE15-10-8179
246679004	RE15-10-8184
246679005	RE15-10-8180
246679006	RE15-10-8181
246679007	RE15-10-8182
246679008	RE15-10-8210

**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*

Valerie Davis  
Project Manager

**List of current GEL Certifications as of 16 February 2010**

<b>State</b>	<b>Certification</b>
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**

Tuesday, February 09, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1704

LOS ALAMOS

REQUEST NUMBER: 10-1704

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/11/2010

General Engineering Laboratories, Inc.,  
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

246679%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-8185	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8183	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8179	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8184	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8180	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8181	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8182	1	POLY	Metals+ClO4+CN	Ice	R
RE15-10-8210	1	POLY	Metals+ClO4+CN	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

Tuesday, February 09, 2010

**LOS ALAMOS**  
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.  
2040 Savage Rd  
Charleston, SC 29407

Please analyse the enclosed samples  
according to the schedule indicated:

SHIP DATE: 2/9/2010

TURNAROUND/REPORT DUE: 3/11/2010

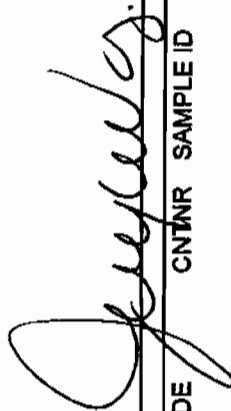
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANLER SMO CONTACT:

Signature:



Page 1 of 2

REQUEST NUMBER: 10-1704

These Samples are on:

LANL Request Number: 10-1704  
Per Agreement Number: 126310011  
Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	CNTR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B					
		1	RE15-10-8179	R	2/5/2010	
		1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	
	SW-846:9012A	1	RE15-10-8179	R	2/5/2010	

Tuesday, February 09, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-8180	R	2/5/2010	
		1	RE15-10-8181	R	2/5/2010	
		1	RE15-10-8182	R	2/5/2010	
		1	RE15-10-8183	R	2/5/2010	
		1	RE15-10-8184	R	2/5/2010	
		1	RE15-10-8185	R	2/5/2010	
		1	RE15-10-8210	R	2/5/2010	

Final Page of REQUEST NUMBER 10-1704



Laboratories LLC

## SAMPLE RECEIPT &amp; REVIEW FORM

Client: LANL		SDG/ARCO/Work Order: 10-1704	
Received By: Patricia Dover-Dent		Date Received: February 10, 2009	
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*: 40 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) 1-3,5&6   9-10,14C
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: time written on containers, not on COC
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

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7209 7849 9786 1C	7209 7849 9812 5C	7209 7849 9650 10C
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7209 7849 9742 2C	7209 7849 9720 6C	
7209 7849 9558 1C	7209 7849 9661 6C	
7209 7849 9683 3C	7209 7849 9764 9C	
7209 7849 9536 2C	7209 7849 9672 6C	

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 52.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 52.0 LB MAN  
CAD: 0014176/CAFE2449

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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

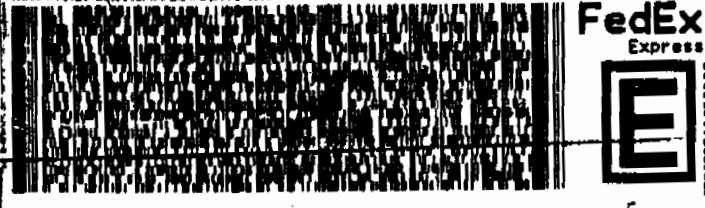
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GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

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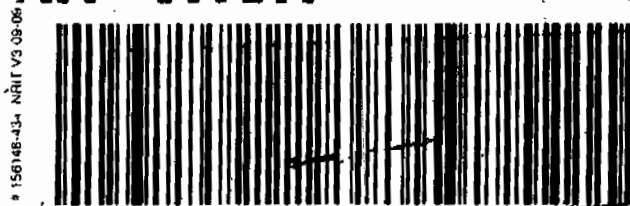
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CHS



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 52.0 LB MAN  
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 52.0 LB MAN  
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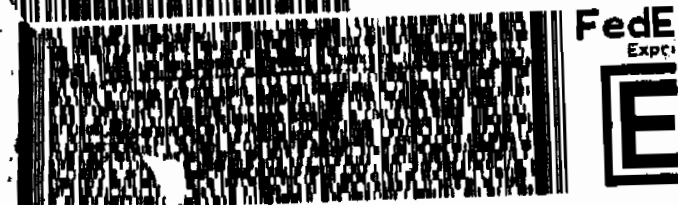
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TRKH 7209 7849 9709  
0201

WED - 10FEB A1  
PRIORITY OVERNIGHT

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29407  
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CHS

ORIGIN ID: SAFA (605) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03

SHIP DATE: 09FEB10  
ACTWGT: 64.0 LB MAN  
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545  
UNITED STATES US

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
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NM MASTER NM

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (605) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

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GENERAL ENGINEERING LAB  
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LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

ORIGIN ID: SAFA (605) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
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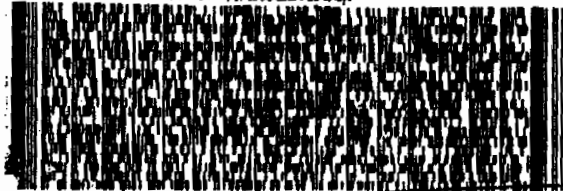
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GENERAL ENGINEERING LAB  
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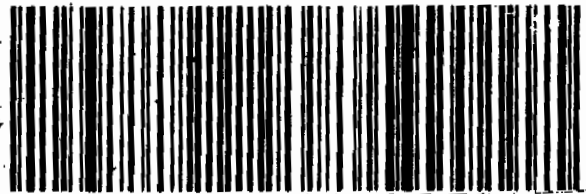
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ORIGIN ID: SAFA (605) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TAGO BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 51.0 LB MAN  
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB  
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PRIORITY OVERNIGHT

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JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

ACTMGT: 00  
CAD: 00  
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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
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CHARLESTON SC 29407

(843) 556-8171  
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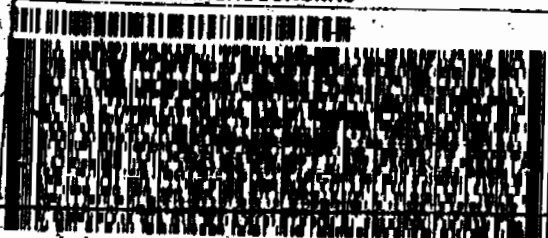
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LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

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CAD: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

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ORIGIN ID: SAFA (505) 665-9958  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTMGT: 60.0 LB MAN  
CAD: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR1A015AGNKO



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2 of 2  
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1 of 2  
TRKH 0201 7209 7849 9812  
MM MASTER MM

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SC-US  
CHS



ORIGIN ID: SAFA (505) 665-9958  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03  
LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTMGT: 27.0 LB MAN  
CAD: 0014176/CAFE2449  
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 6B010AMR-R0331TXHO



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TRKH 0201 7209 7849 9731

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PRIORITY OVERNIGHT

XX CHSA

29407  
SC-US  
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LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTGHT: 49.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTGHT: 65.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

6  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 6B010AMR3A05529E00



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VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR3A0532VA00



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2 of 2  
NPSH 0263 7209 7849 9720  
Master 7209 7849 9710 0201

WED - 10FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

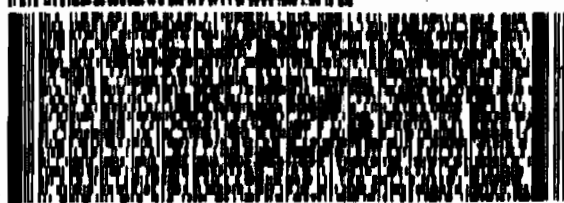
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BILL SENDER

9  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 6B010AMR1A015AGW00



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Express



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

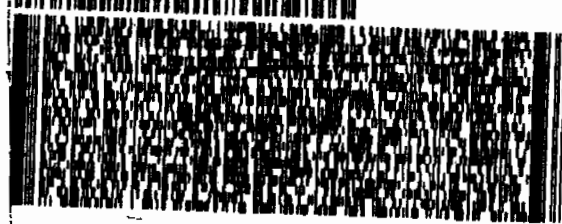
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6  
VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171  
REF: 6B010AMR3A0532VA00



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1 of 2  
NPSH 0263 7209 7849 9764  
Master 7209 7849 9661 0201

WED - 10FEB A1  
PRIORITY OVERNIGHT

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CHS

XX CHSA

Page 1 of 804

2 of 2  
NPSH 0263 7209 7849 9672  
Master 7209 7849 9661 0201

WED - 10FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

XX CHSA

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 50.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 50.0 LB MAN  
CAD: 0014176/CAFE2449

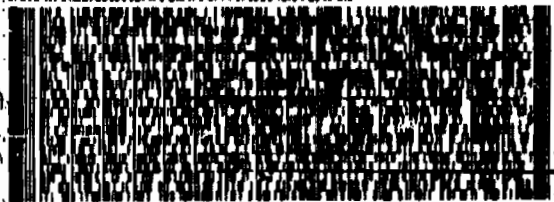
BILL SENDER

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR3A0532VA00

VALERIE DAVIS  
GENERAL ENGINEERING LAB  
2040 SAVAGE RD

CHARLESTON SC 29407  
(843) 556-8171  
REF: 6B010AMR3A0532VA00



2 of 2  
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SC-US  
CHS

XX CHSA



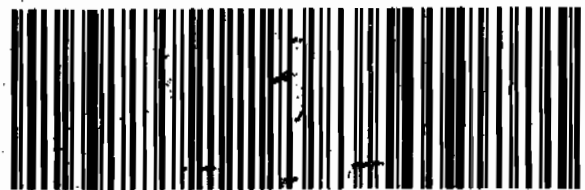
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29407  
SC-US  
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968  
JOYLENE VALDEZ  
LOS ALAMOS NATL LAB  
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545  
UNITED STATES US

SHIP DATE: 09FEB10  
ACTWGT: 57.0 LB MAN  
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS  
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CHARLESTON SC 29407  
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2 of 3  
MPS# 7209 7849 9640  
0263  
Matr# 7209 7849 9639 0201

XX CHSA

WED - 10FEB A1  
PRIORITY OVERNIGHT

29407  
SC-US  
CHS

# **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 10-1704**

**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: 952906

Prep Batch Number: 952905

**Sample Analysis**

Sample ID	Client ID
246679001	RE15-10-8185
246679002	RE15-10-8183
246679003	RE15-10-8179
246679004	RE15-10-8184
246679005	RE15-10-8180
246679006	RE15-10-8181
246679007	RE15-10-8182
246679008	RE15-10-8210
1202042437	Interference Check Sample (ICS)
1202042433	Method Blank (MB)
1202042434	Laboratory Control Sample (LCS)
1202042435	246679001(RE15-10-8185) Matrix Spike (MS)
1202042436	246679001(RE15-10-8185) 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.

**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.

10-1704-PERLCMS

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**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**

Sample 246679001 (RE15-10-8185) was chosen for matrix spike and matrix spike duplicate analysis.

**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.

### **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: Heather M. Mauer Date: 03/03/10

# 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8185  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679001  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 91

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:24	per0223089a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate-O(18)			5.30	ug/kg		1	24-FEB-10 00:24	per0223089a

<sup>^</sup> 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 %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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8183  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679002  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 96.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:48	per0223092a
14797-73-0	Perchlorate-101	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate-O(18)			4.78	ug/kg		1	24-FEB-10 00:48	per0223092a

<sup>^</sup> 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

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: 952905

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-8179

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679003

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 98.5

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 00:56	per0223093a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:56	per0223093a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 00:56	per0223093a
	Perchlorate-O(18)			4.70	ug/kg		1	24-FEB-10 00:56	per0223093a

<sup>^</sup> 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:** 952905  
**Extraction Type:** Solid Prep  
**Client Sample No.**  
RE15-10-8184  
**Date Received:** 10-FEB-10  
**GEL Job No (SDG):** 10-1704  
**GEL Sample ID:** 246679004  
**Date Filtered:** 22-FEB-10  
**Injection Volume (uL):** 20  
**%Solids:** 97.1

**Sample Volume/Weight:** 2.00 g

**Concentrated Extract Volume:** 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:04	per0223094a
14797-73-0	Perchlorate-101	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate-O(18)			5.37	ug/kg		1	24-FEB-10 01:04	per0223094a

<sup>^</sup> 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  $\frac{1}{\text{Aliquot}}$  %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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8180  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679005  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 98.4

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 01:12	per0223095a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:12	per0223095a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 01:12	per0223095a
	Perchlorate-O(18)			4.55	ug/kg		1	24-FEB-10 01:12	per0223095a

<sup>^</sup> 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

Client Sample No.

RE15-10-8181

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679006

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 98.1

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:20	per0223096a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate-O(18)			4.60	ug/kg		1	24-FEB-10 01:20	per0223096a

<sup>^</sup> 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 %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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8182  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679007  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 97.9

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:28	per0223097a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate-O(18)			4.74	ug/kg		1	24-FEB-10 01:28	per0223097a

<sup>^</sup> 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: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8210

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679008

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 93.2

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:36	per0223098a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate-O(18)			4.98	ug/kg		1	24-FEB-10 01:36	per0223098a

<sup>^</sup> 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

# QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1704

Extract Batch Code: 952905

Date Filtered: 22-FEB-10

Matrix: SOIL

Sample ID: 1202042434

Analyte <sup>^</sup>	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.92	ug/kg	96.0		70 - 130
Perchlorate Isotope Ratio		3.28				-
Perchlorate-101	2.00	1.88	ug/kg	93.8		70 - 130
Perchlorate-O(18)		4.59	ug/kg			-

<sup>^</sup> 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.

Form 5a

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1704

Extract Batch Code: 952905

Date Filtered: 22-FEB-10

Matrix: SOIL

Sample ID: 1202042437

Analyte <sup>^</sup>	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.12	ug/kg	106		70 - 130
Perchlorate Isotope Ratio		3.26				
Perchlorate-101	2.00	2.09	ug/kg	104		70 - 130
Perchlorate-O(18)		4.64	ug/kg			

<sup>^</sup> 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: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223070a

Date: 23-Feb-2010

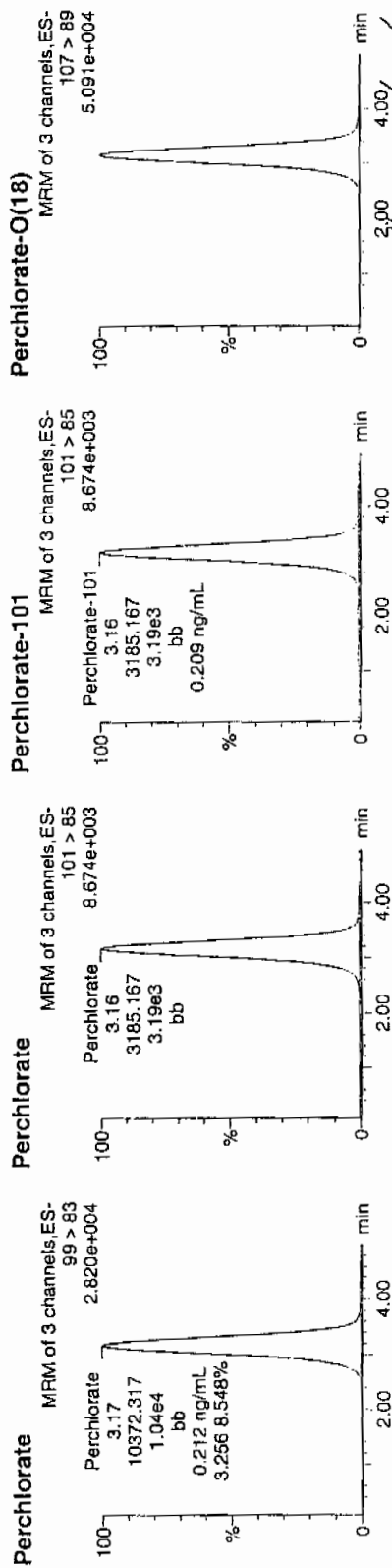
Time: 21:50:52

ID: 1202042437

Vial: 3:1,C

02-24-10

1202042437 | 50720 | 715 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042437	Perchlorate	99 > 83	3.17	10372.317	10372.317	bb			0.2121	106.05	6.05	5475.2...	3.26
1202042437	Perchlorate-101	101 > 85	3.16	3185.167	3185.167	bb			0.2088	104.42	4.42	1598.4...	
1202042437	Perchlorate-O(18)	107 > 89	3.16	18978.951	18978.951	bb			0.4638	92.76	-7.24	1651.5...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1704

Extract Batch Code: 952905

Date Extracted: 22-FEB-10

GEL MS/PS ID: 1202042435

Client ID: RE15-10-8185

GEL MSD/PSD ID: 1202042436

QC Type: MS

Compound <sup>^</sup>	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.20	0.101	ug/kg	2.31	101		2.38	103		2.74		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.27			3.2			0			-
Perchlorate-101	2.20	0.141	ug/kg	2.27	96.7		2.38	102		4.76		30	75 - 125
Perchlorate-O(18)	0	5.30	ug/kg	5.12			5.23			2.16			-

<sup>^</sup> 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): 10-1704

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	23-FEB-10	per0223001a	IPB001
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223001a	IPB001
Perchlorate	0.00	0	NA	23-FEB-10	per0223002a	IPB001
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223002a	IPB001



# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

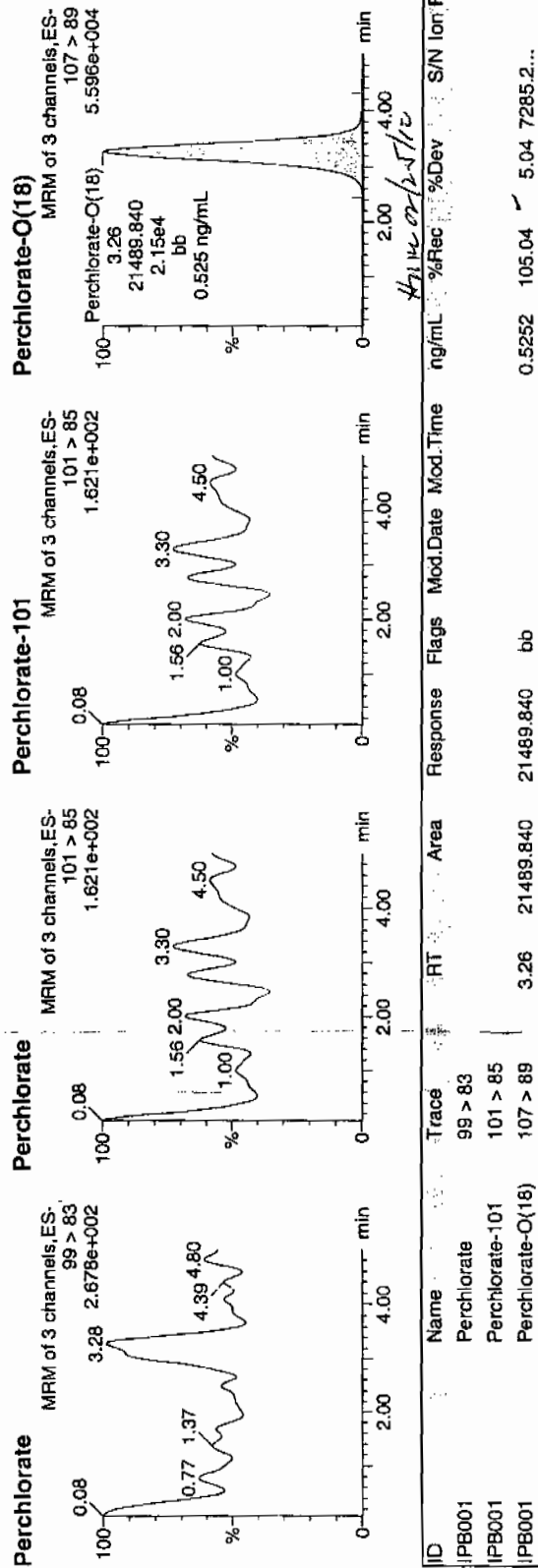
Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per022310a.mdb 24 Feb 2010 09:36:48  
 Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per022310a.cdb 24 Feb 2010 09:37:11

Name: per0223001a  
 Date: 23-Feb-2010  
 Time: 12:33:48  
 ID: IPB001  
 Vial: 1:1,A

0.24-10



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223002a

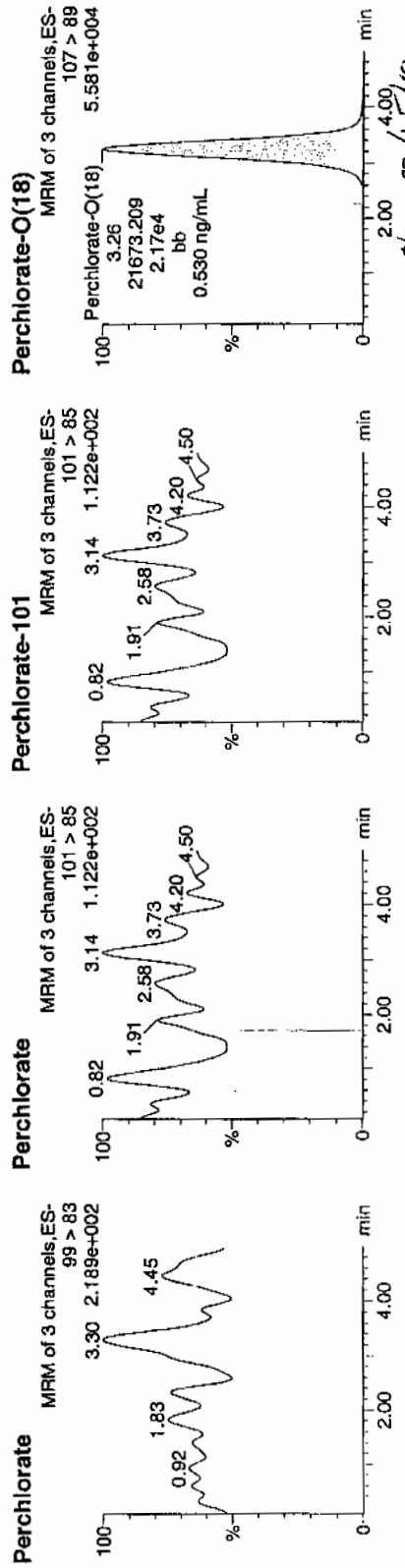
Date: 23-Feb-2010

Time: 12:42:00

ID: IPB001

Vial: 1:1,A

0224-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.26	21673.209	21673.209	bb			0.5297	105.93	5.93	1580.2...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

## Perchlorate Continuing Calibration Blank

PROPRIETARY INFORMATION - No unauthorized reproduction without written permission from GEL.

GEL Job No.(SDG): 10-1704

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	23-FEB-10	per0223008a	IPB002
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223008a	IPB002
Perchlorate	0.00	0	NA	23-FEB-10	per0223010a	IPB003
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223010a	IPB003
Perchlorate	0.00	0	NA	23-FEB-10	per0223023a	IPB004
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223023a	IPB004
Perchlorate	0.00	0	NA	23-FEB-10	per0223036a	IPB005
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223036a	IPB005
Perchlorate	0.00	0	NA	23-FEB-10	per0223049a	IPB006
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223049a	IPB006
Perchlorate	0.00	0	NA	23-FEB-10	per0223062a	IPB007
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223062a	IPB007
Perchlorate	0.00	0	NA	23-FEB-10	per0223067a	IPB008

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1704

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	23-FEB-10	per0223067a	IPB008
Perchlorate	0.00	0	NA	23-FEB-10	per0223075a	IPB009
Perchlorate-101	0.00	0	NA	23-FEB-10	per0223075a	IPB009
Perchlorate	0.00	0	NA	24-FEB-10	per0223087a	IPB010
Perchlorate-101	0.00	0	NA	24-FEB-10	per0223087a	IPB010
Perchlorate	0.00	0	NA	24-FEB-10	per0223100a	IPB011
Perchlorate-101	0.00	0	NA	24-FEB-10	per0223100a	IPB011

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223008a

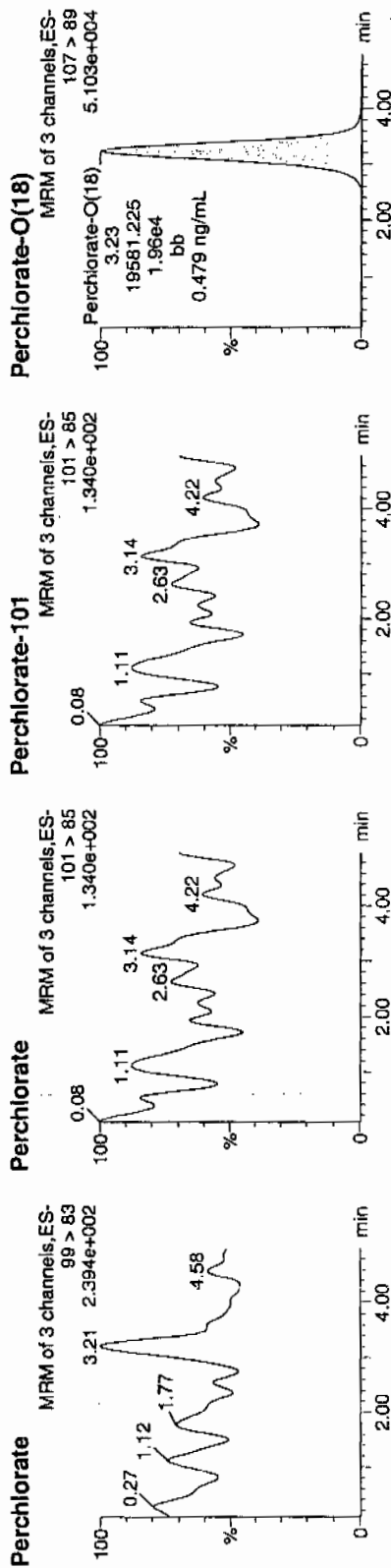
Date: 23-Feb-2010

Time: 13:30:32

ID: IPB002

Vial: 1:1,A

02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.23	19581.225	19581.225	bb			0.4785	95.71	-4.29	7325.9...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223010a

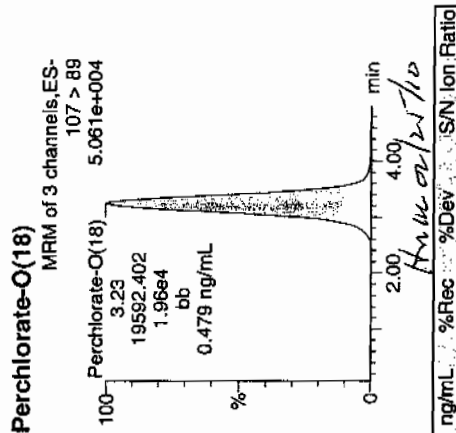
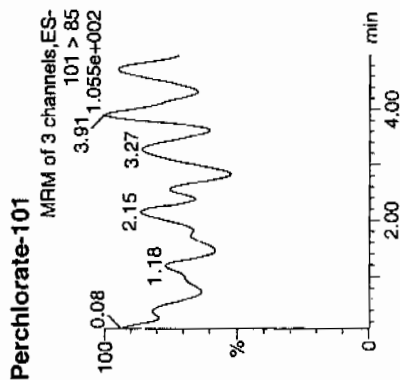
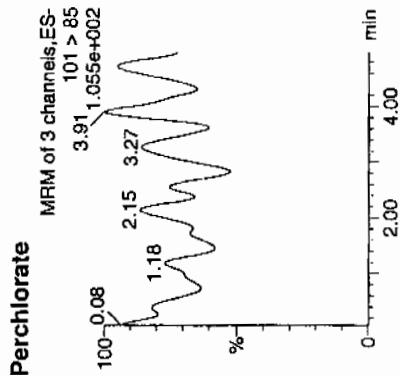
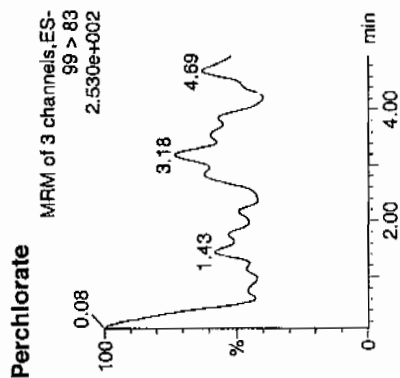
Date: 23-Feb-2010

Time: 13:46:52

ID: IPB003

Vial: 1:1,A

02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	3.23	19592.402	19592.402	bb			0.4788	95.76	-4.24	4079.9...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

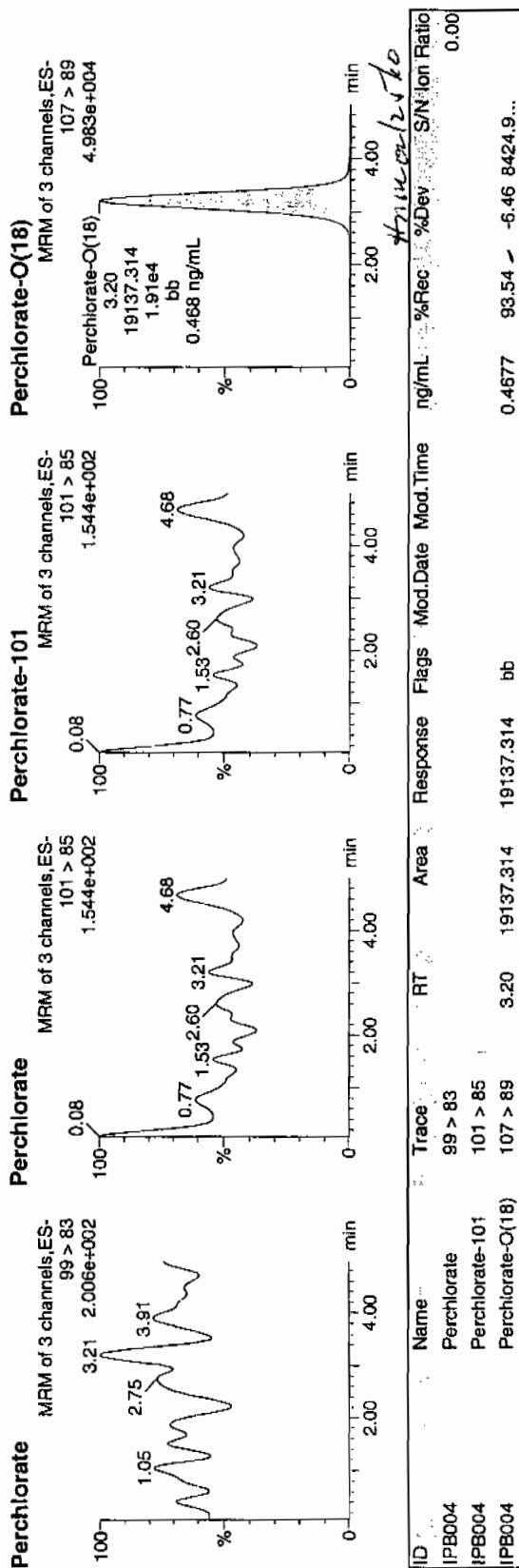
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qid

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223023a  
Date: 23-Feb-2010  
Time: 15:31:45  
ID: IPB004  
Vial: 1:1,A

02-24-10



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223036a

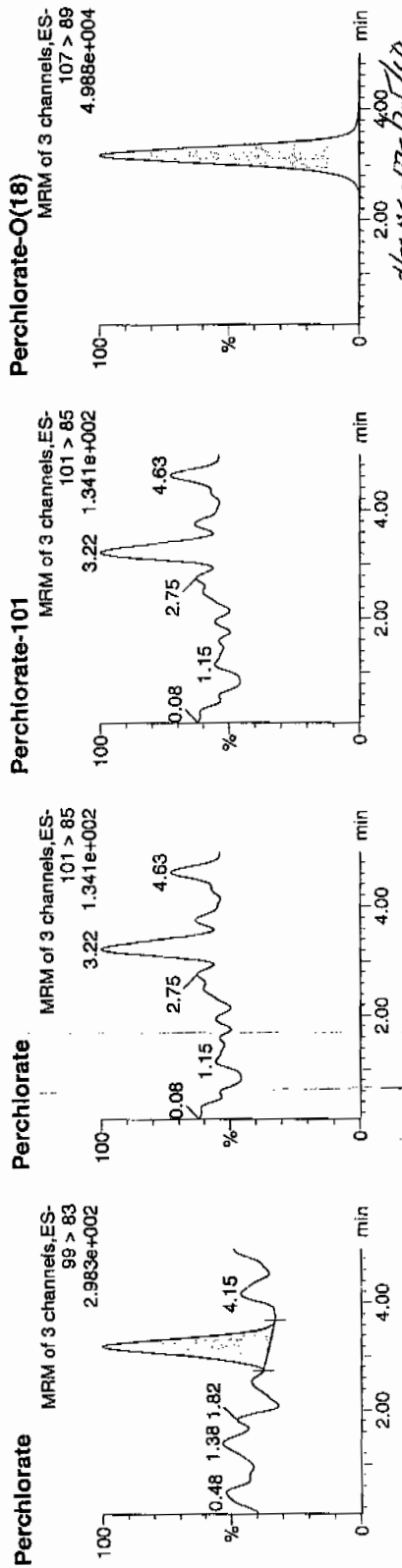
Date: 23-Feb-2010

Time: 17:16:21

ID: IPB005

Vial: 1:1,A

Q24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83	3.20	71.064	71.064	bb			0.0015			8.434	0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	3.17	18894.705	18894.705	bb			0.4618	92.35	-7.65	2125.4...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qid

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223049a

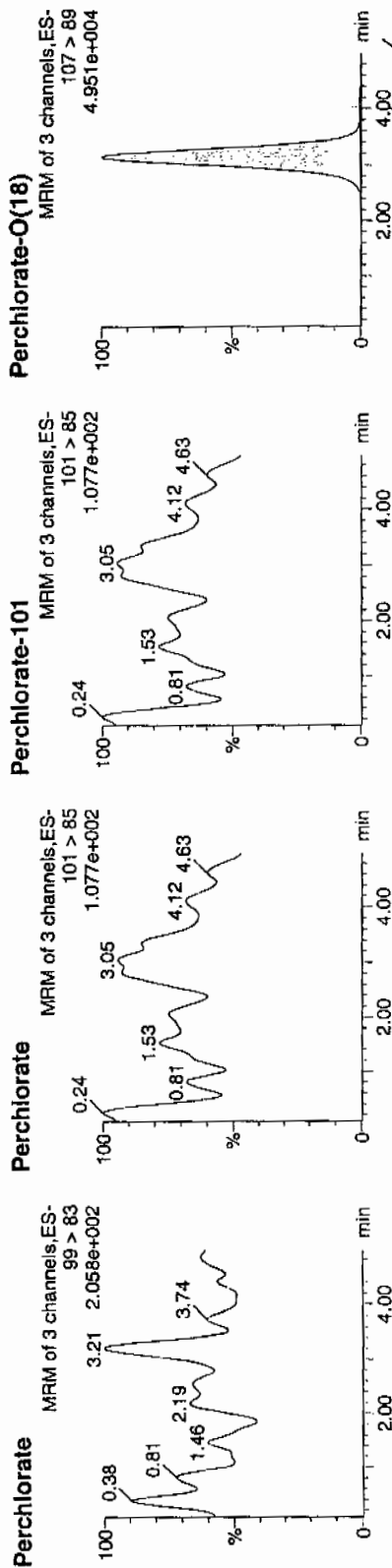
Date: 23-Feb-2010

Time: 19:01:09

ID: IPB006

Vial: 1:1,A

08.24.10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB006	Perchlorate	99 > 83											0.00
IPB006	Perchlorate-101	101 > 85	3.15	18604.625	18604.625	bb			0.4547	90.93	-9.07	6408.7...	
IPB006	Perchlorate-O(18)	107 > 89											

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223062a

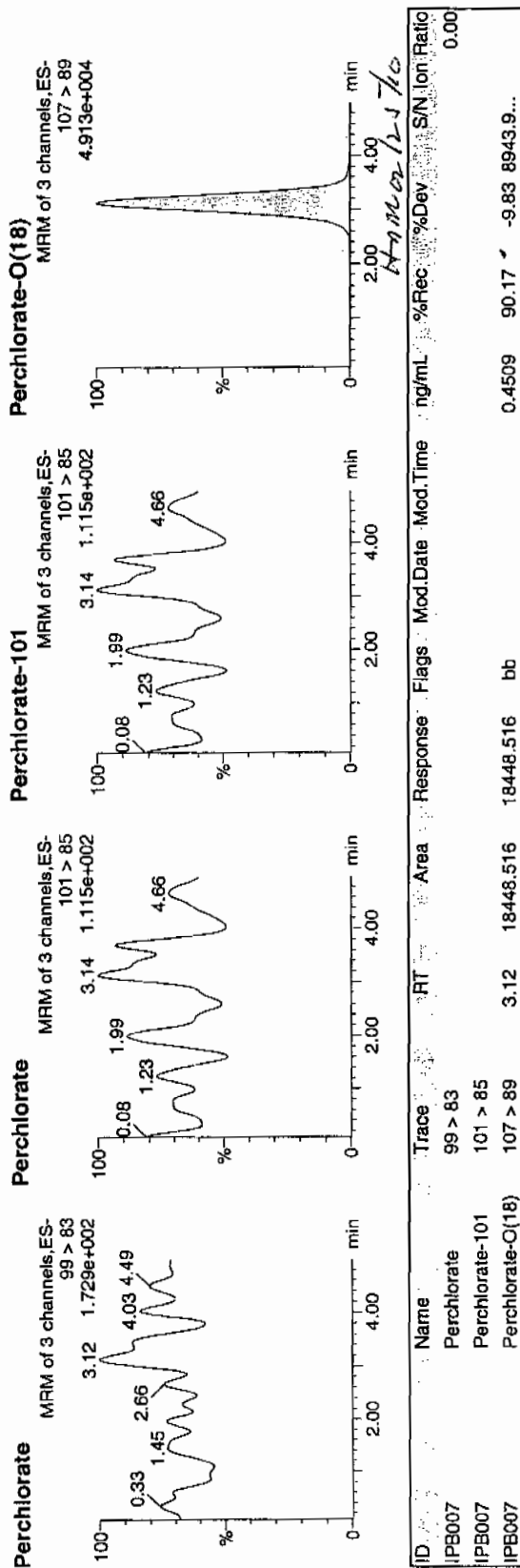
Date: 23-Feb-2010

Time: 20:46:00

ID: IPB007

Vial: 1:1,A

02-24-10



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

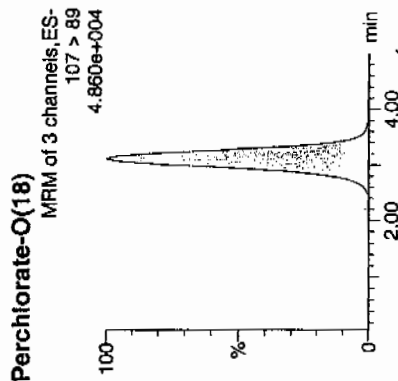
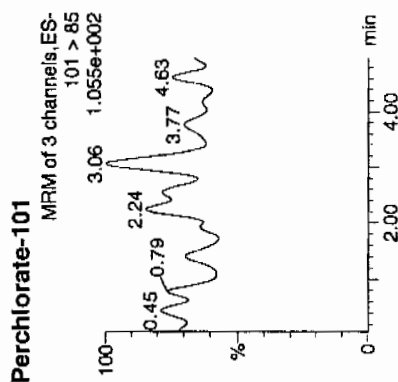
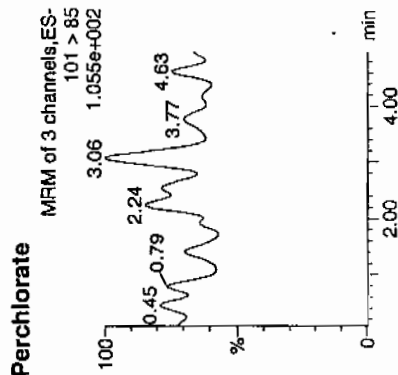
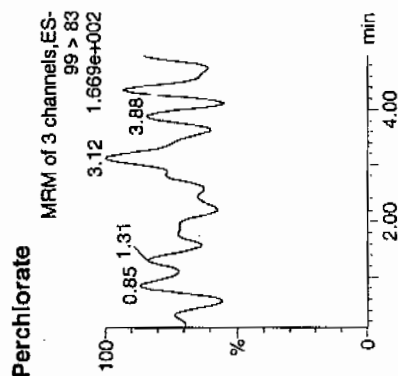
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223067a  
Date: 23-Feb-2010  
Time: 21:26:20  
ID: IPB008  
Vial: 1:1,A

02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83											0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	3.11	18512.709	18512.709	bb			0.4524	90.49	-9.51	6148.8...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223075a

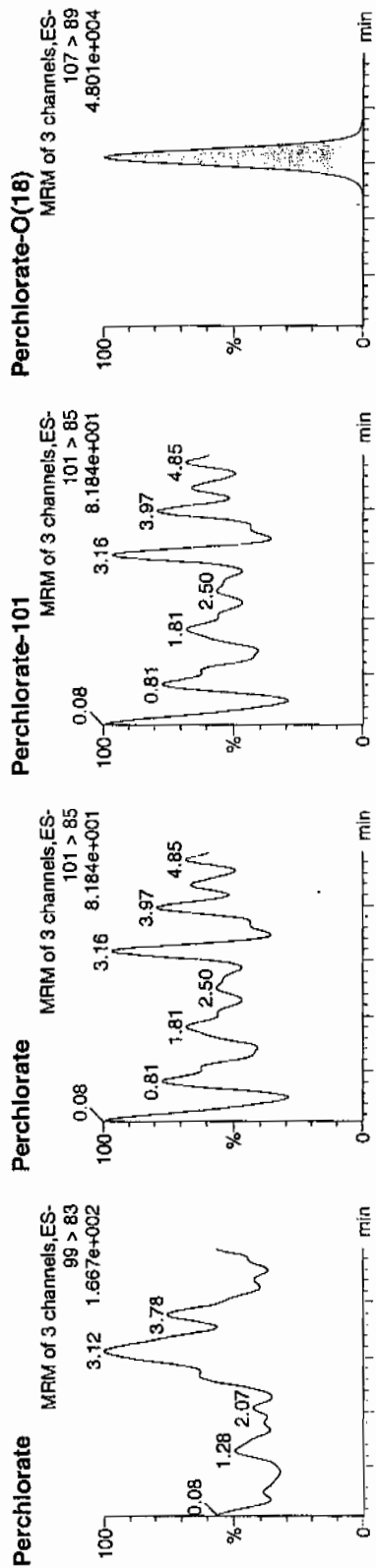
Date: 23-Feb-2010

Time: 22:31:12

ID: IPB009

Vial: 1:1,A

0.00  
02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											0.00
IPB009	Perchlorate-101	101 > 85	3.10	18097.576	18097.576	bb			0.4423	88.46	-11.54	6126.7...	
IPB009	Perchlorate-O(18)	107 > 89											

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

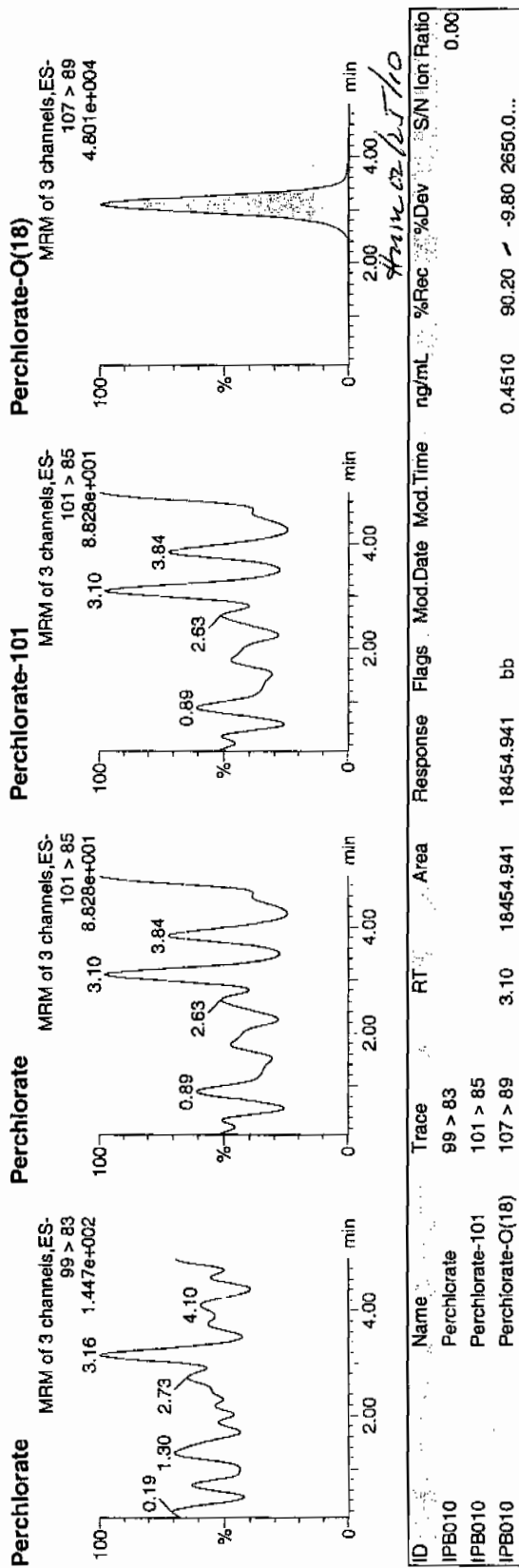
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223087a  
Date: 24-Feb-2010  
Time: 00:08:02  
ID: IPB010  
Vial: 1:1,A

02-24-10



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qid

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223100a

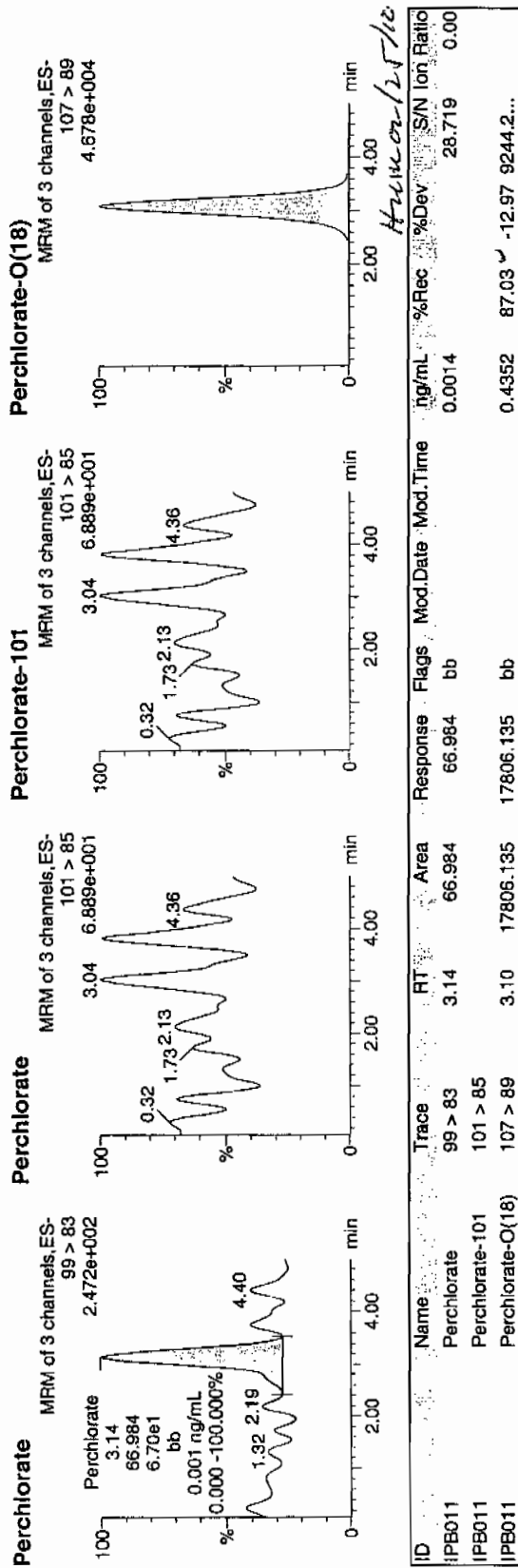
Date: 24-Feb-2010

Time: 01:52:54

ID: IPB011

Vial: 1:1,A

022310



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB011	Perchlorate	99 > 83	3.14	66.984	66.984	bb			0.0014			28.719	0.00
IPB011	Perchlorate-101	101 > 85											
IPB011	Perchlorate-O(18)	107 > 89	3.10	17806.135	17806.135	bb			0.4352	87.03	-12.97	9244.2...	

# Naiib.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
; 3770.3457	100
; 3920.2400	100

QUANTO ULTIMA: nairb 01\_08\_08.cal

Calibration Report - MS1 Static

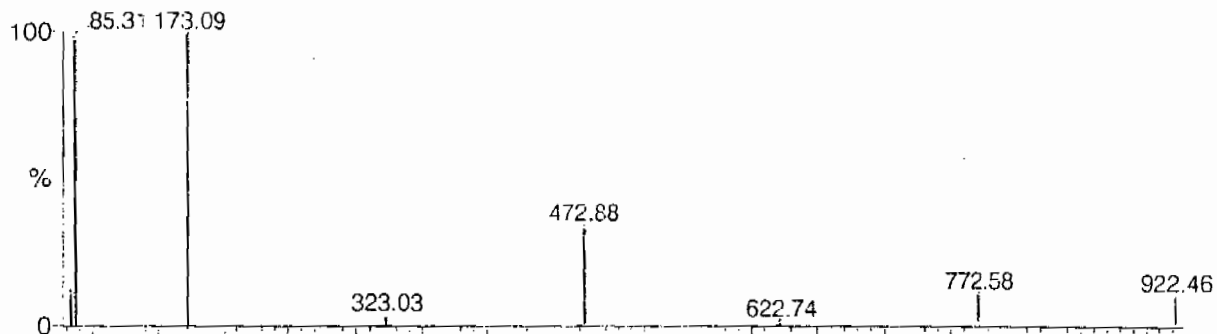
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

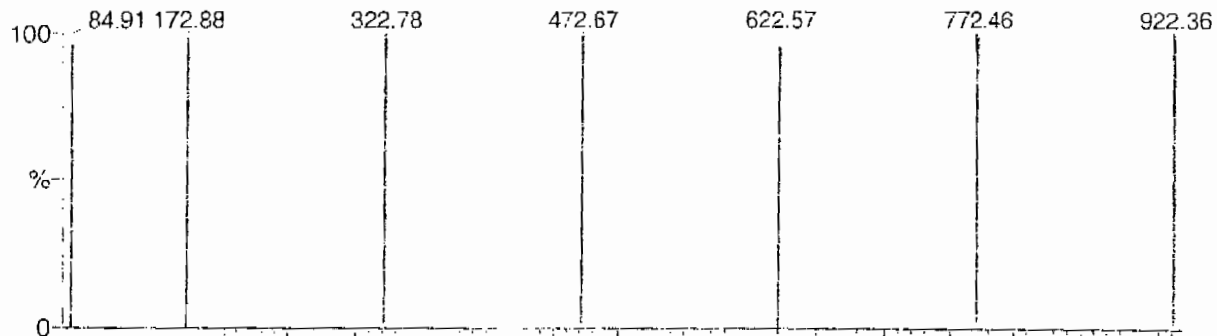
PEAKS HIGHLIGHTED BY CURV 01-08-08

Data file: STATMS1 - Uncalibrated

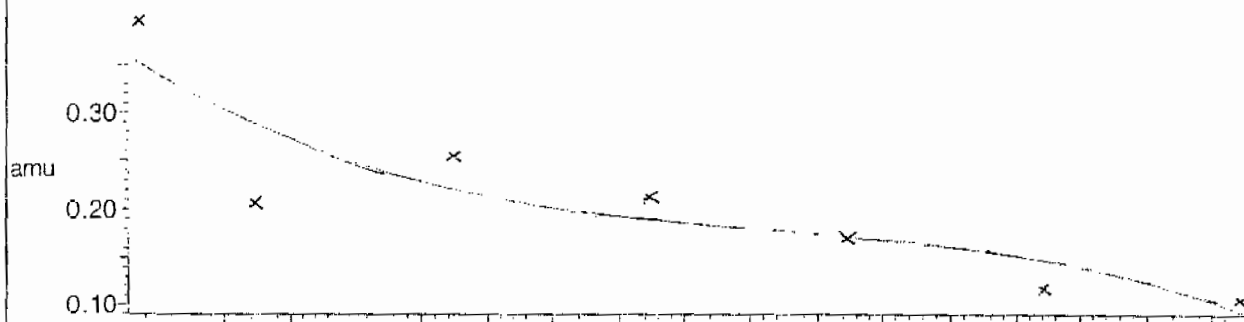
7 matches of 7 tested references



Reference file: Nairb

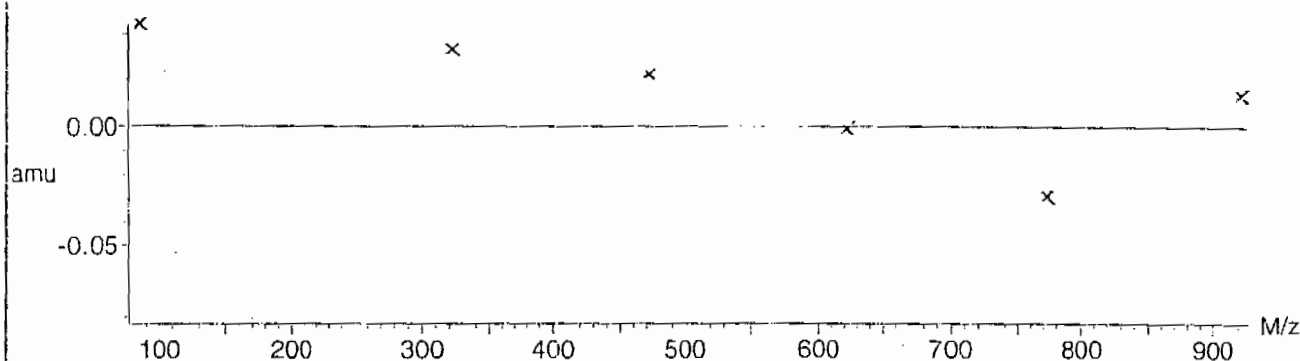


Mass difference (Raw - Ref mass)



Residuals

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



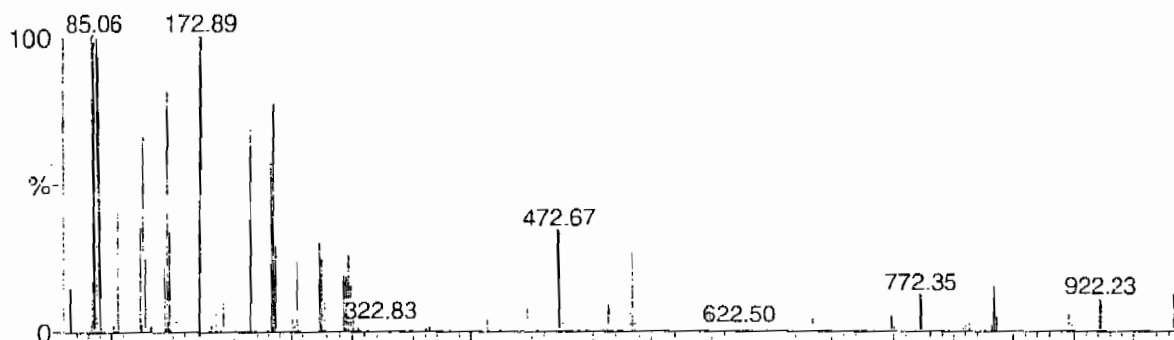


Calibration Report - MS1 Scanning

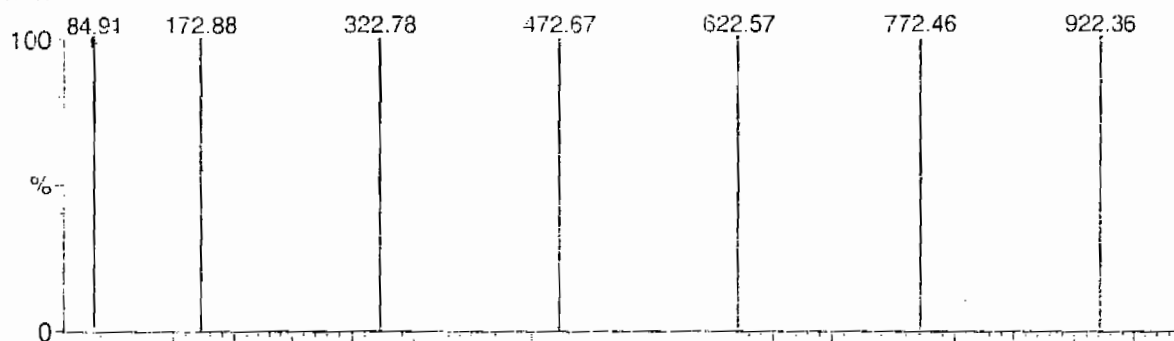
Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008

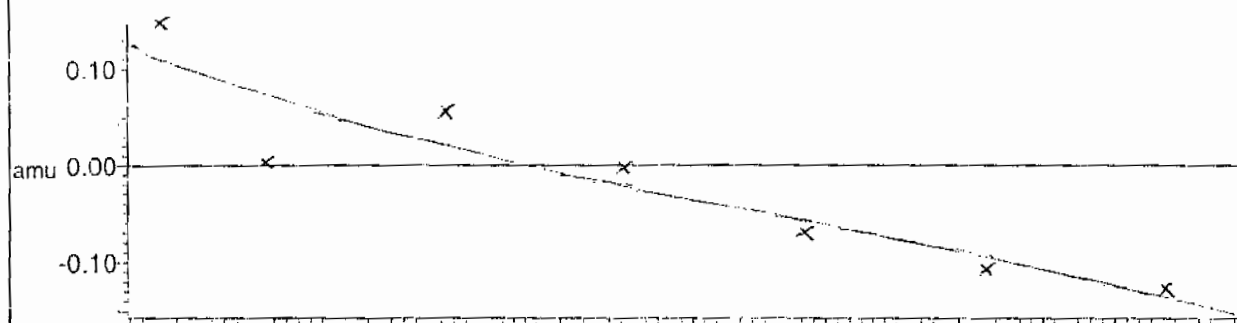
Data file: SCNMS1 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

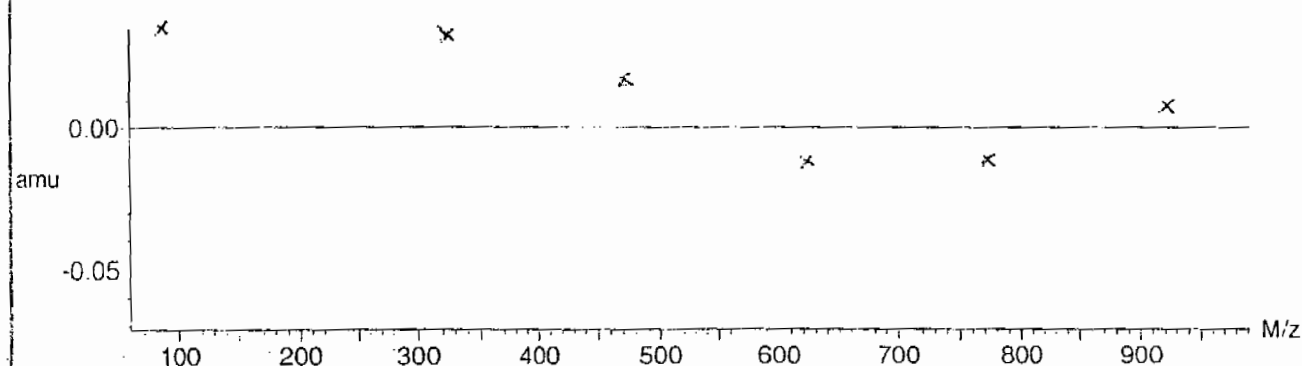


Mass difference (Raw - Ref mass)



Residuals

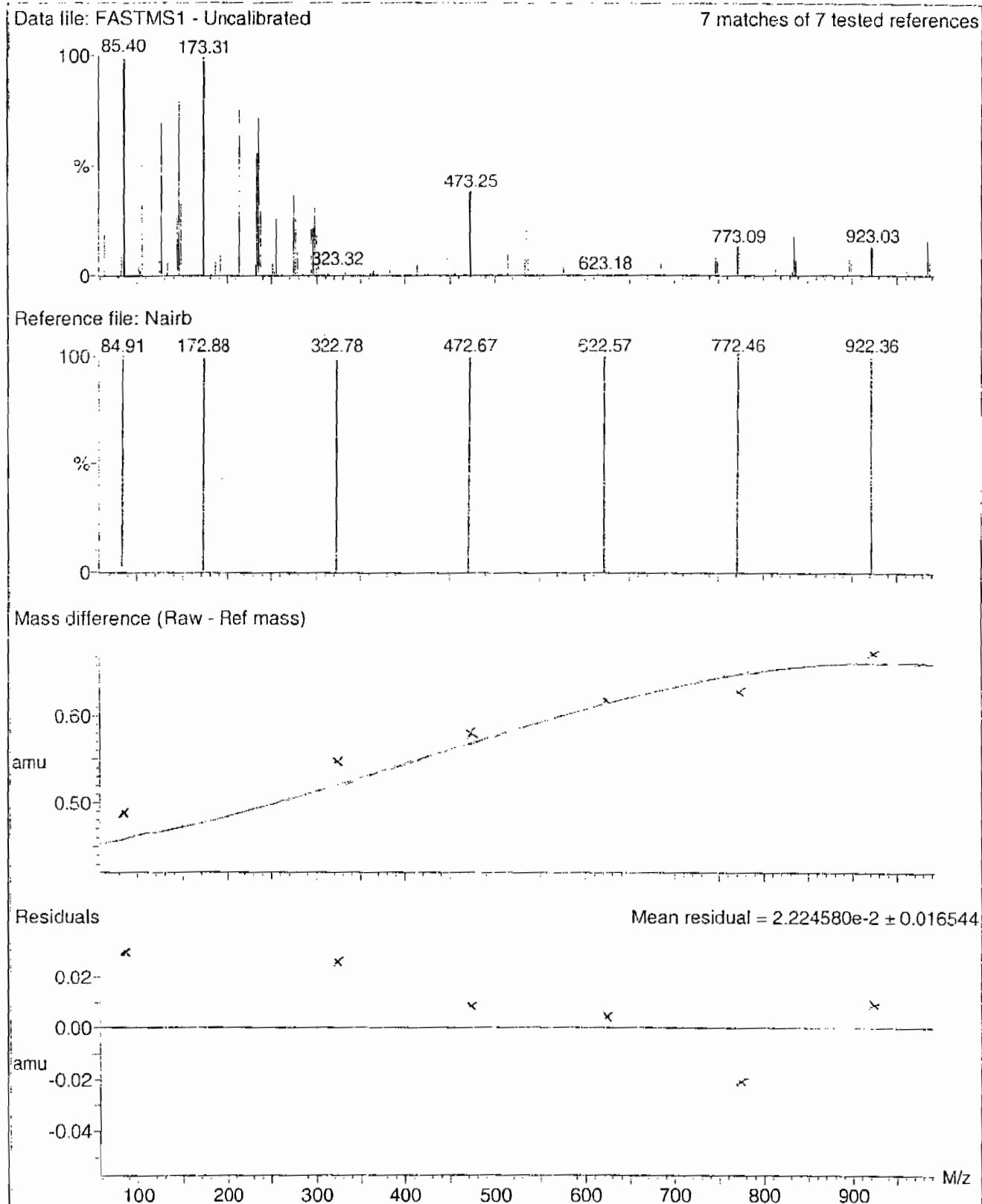
Mean residual =  $2.732691 \times 10^{-2} \pm 0.020653$



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

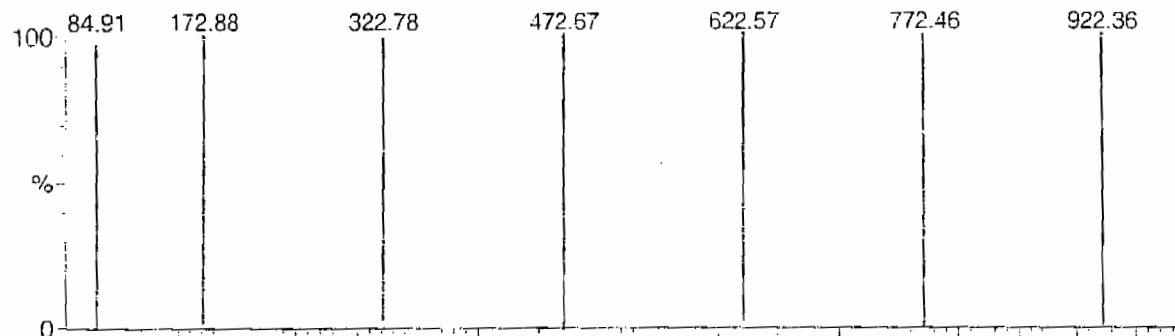
Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008

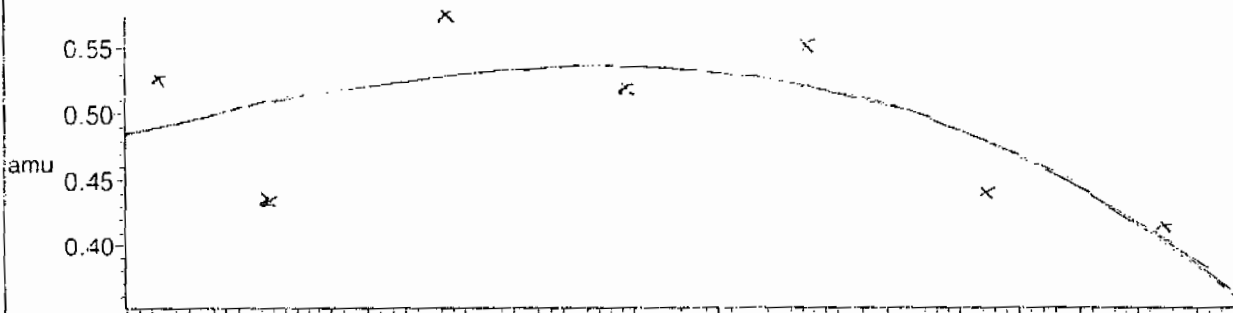
Data file: FASTMS2 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

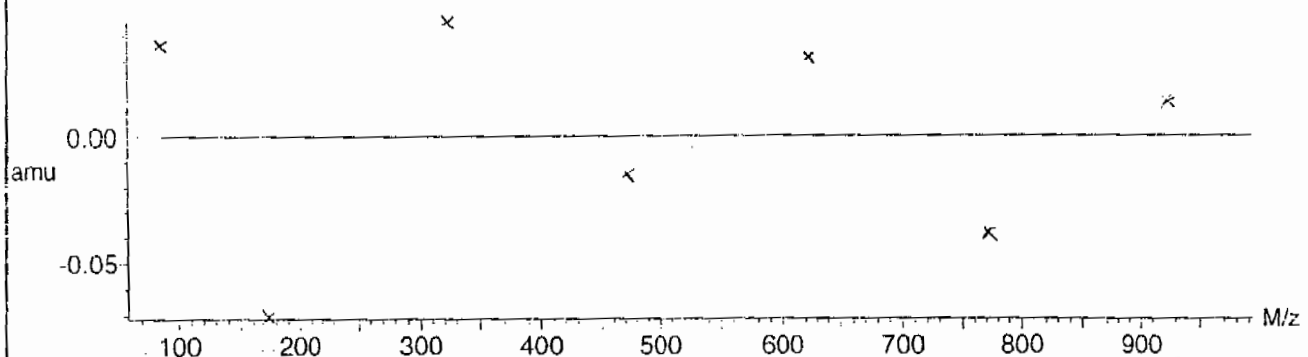


Mass difference (Raw - Ref mass)



Residuals

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



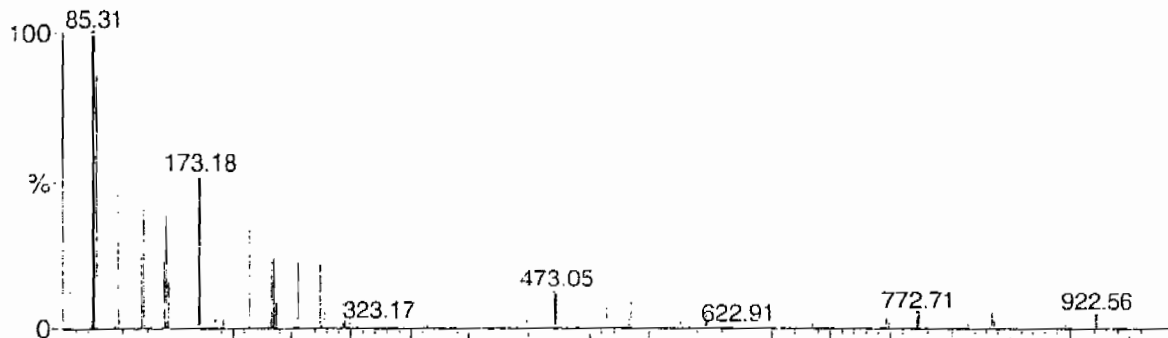
Calibration Report - MS2 Scanning

Page 1 of 1

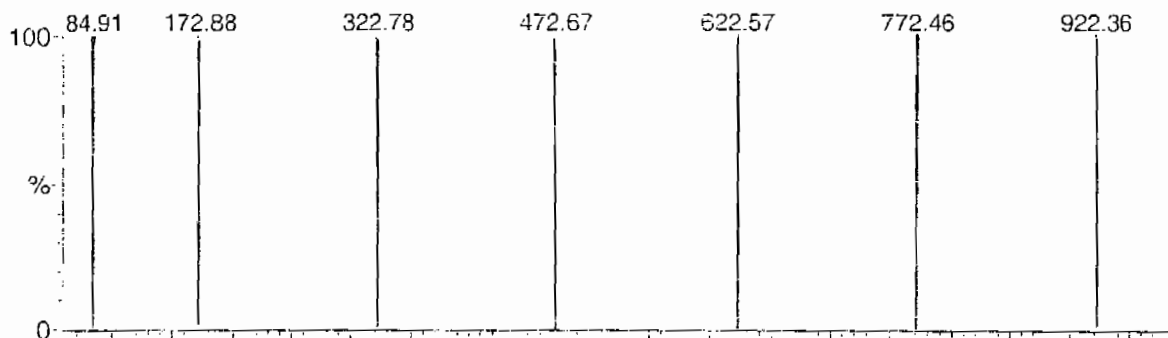
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

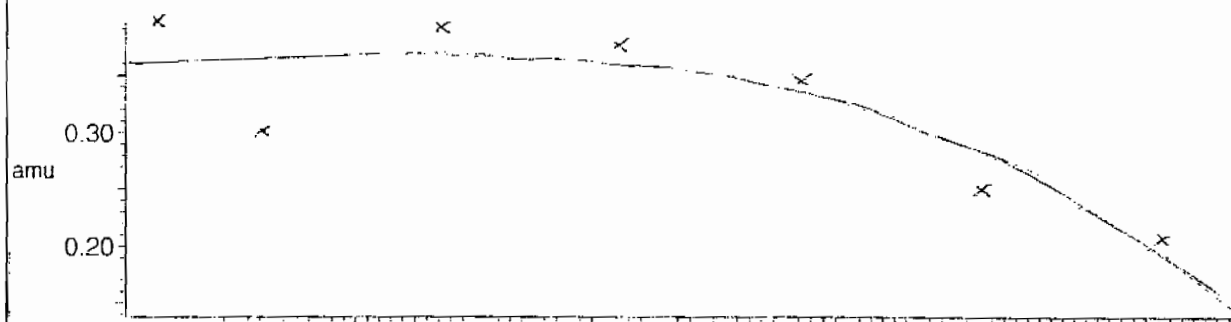
7 matches of 7 tested references



Reference file: Nairb

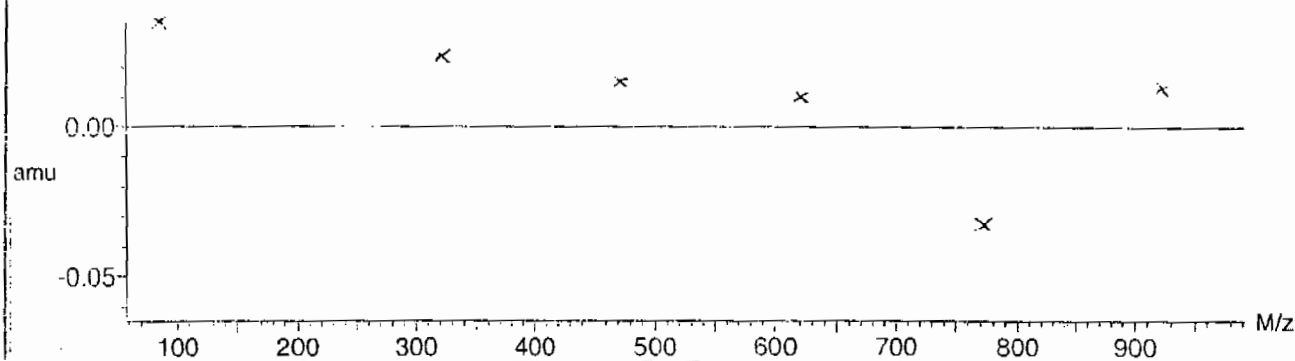


Mass difference (Raw - Ref mass)



Residuals

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



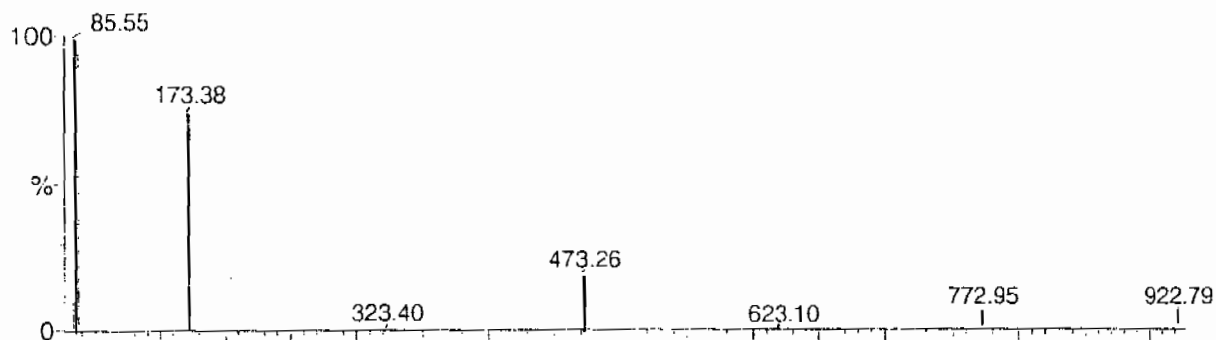
Calibration Report - MS2 Static

Page 1 of 1

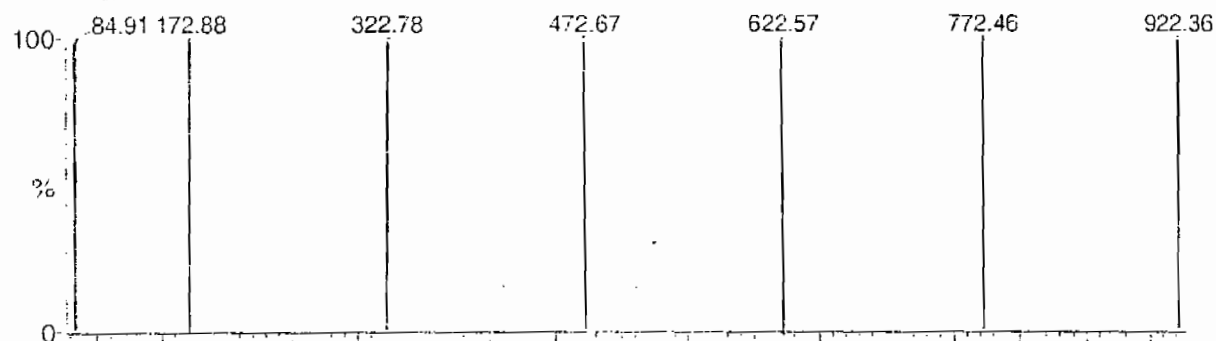
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

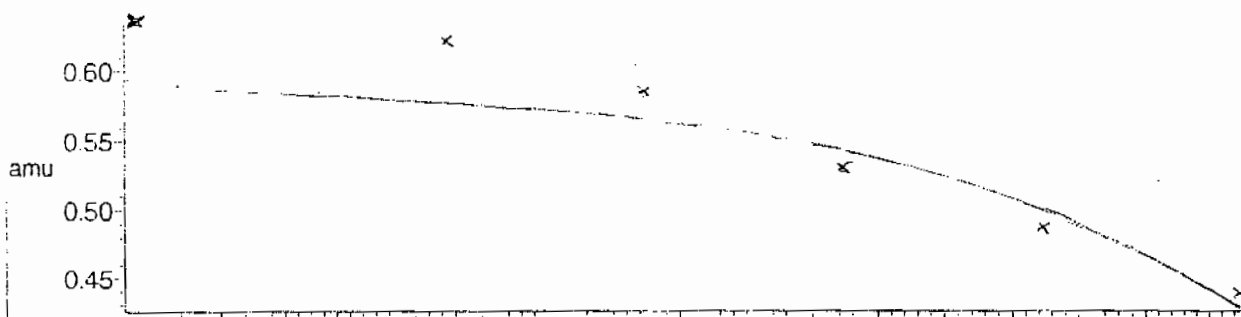
7 matches of 7 tested references



Reference file: Nairb

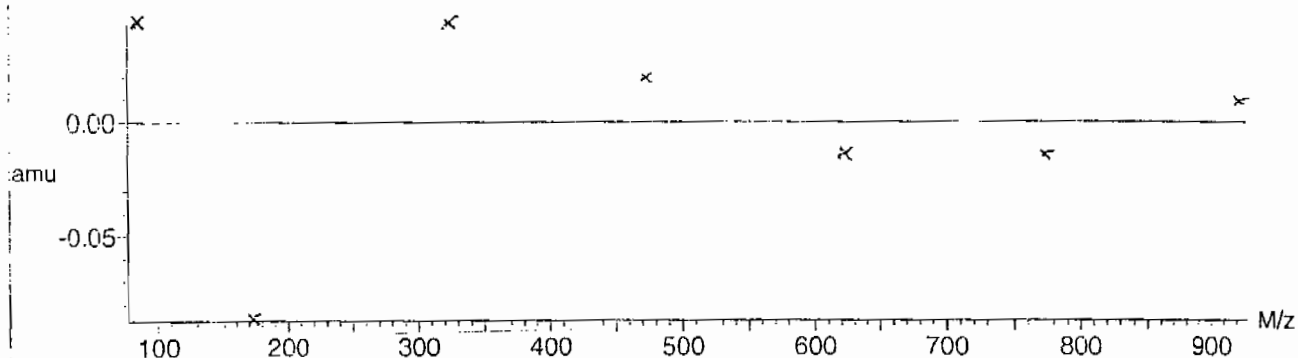


Mass difference (Raw - Ref mass)



Residuals

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



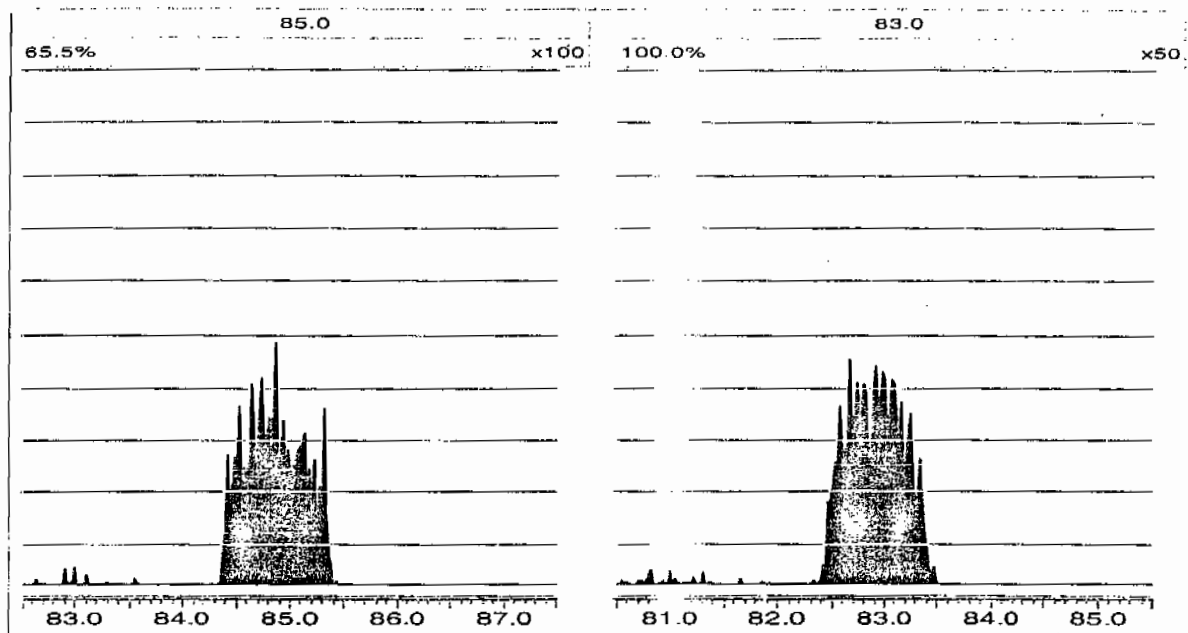
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Tuesday, February 23, 2010 10:32:55 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1704

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	per0223006a	23-FEB-10	18832.2				
Lower Area Limit			9416.1				
Upper Area Limit			37664.4				
1202042433	per0223068a	23-FEB-10 21:34	17696.3	3.11	3.1599	1.016	
1202042434	per0223069a	23-FEB-10 21:42	18764.2	3.11	3.12257	1.004	
1202042437	per0223070a	23-FEB-10 21:50	18979	3.16	3.17237	1.004	
246679001	per0223089a	24-FEB-10 00:24	19739.1	3.1	3.1101	1.003	
1202042435	per0223090a	24-FEB-10 00:32	19065.1	3.11	3.1226	1.004	
1202042436	per0223091a	24-FEB-10 00:40	19482	3.09	3.1101	1.007	
246679002	per0223092a	24-FEB-10 00:48	18972.3	3.1	3.11012	1.003	
246679003	per0223093a	24-FEB-10 00:56	18929.1	3.1	3.11012	1.003	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1704

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	per0223006a	23-FEB-10	18832.2				
Lower Area Limit			9416.1				
Upper Area Limit			37664.4				
246679004	per0223094a	24-FEB-10 01:04	21344.5	3.1	3.12257	1.007	
246679005	per0223095a	24-FEB-10 01:12	18337.9	3.1	3.11018	1.003	
246679006	per0223096a	24-FEB-10 01:20	18476.3	3.1	3.11013	1.003	
246679007	per0223097a	24-FEB-10 01:28	18989.4	3.1	3.11015	1.003	
246679008	per0223098a	24-FEB-10 01:36	18994.1	3.09	3.11012	1.007	



# 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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8185  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679001  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 91

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:24	per0223089a
14797-73-0	Perchlorate-101	.55	2.2	0.550	ug/kg	U	1	24-FEB-10 00:24	per0223089a
	Perchlorate-O(18)			5.30	ug/kg		1	24-FEB-10 00:24	per0223089a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223089a

Date: 24-Feb-2010

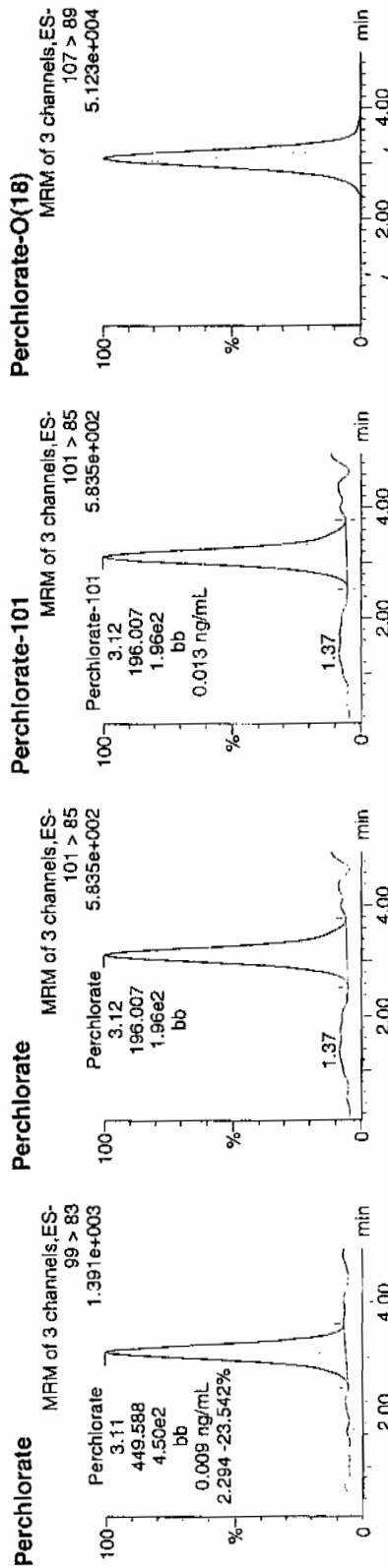
Time: 00:24:06

ID: 246679001

Vial: 3:3,D

WJ  
02-24-10

LANW | 952906 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246679001	Perchlorate	99 > 83	3.11	449.588	449.588	bb			0.0092			117.605	2.29
246679001	Perchlorate-101	101 > 85	3.12	196.007	196.007	bb			0.0129			153.480	
246679001	Perchlorate-O(18)	107 > 89	3.10	19739.076	19739.076	bb			0.4824	96.48	-3.52	13227	...

OK 34  
20.0500

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.

RE15-10-8183

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679002

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 96.9

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:48	per0223092a
14797-73-0	Perchlorate-101	.516	2.06	0.516	ug/kg	U	1	24-FEB-10 00:48	per0223092a
	Perchlorate-O(18)			4.78	ug/kg		1	24-FEB-10 00:48	per0223092a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223092a

Date: 24-Feb-2010

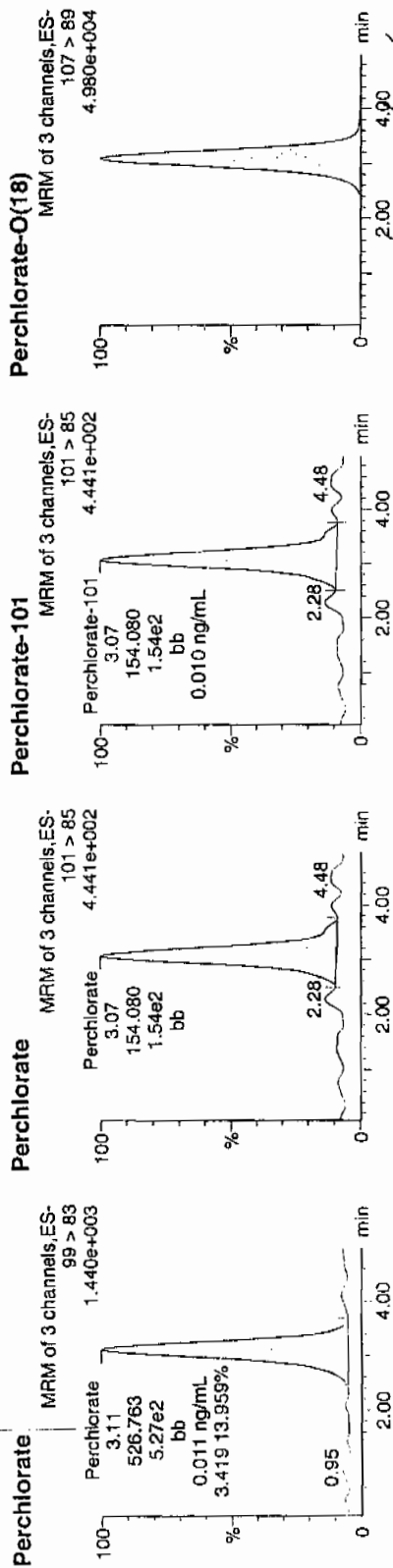
Time: 00:48:22

ID: 246679002

Vial: 3:4,A

600  
00:24:10

LANU | 952406 | 5000 | 1.1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246679002	Perchlorate	99 > 83	3.11	526.763	526.763	bb			0.0108			101.365	3.42
246679002	Perchlorate-101	101 > 85	3.07	154.080	154.080	bb			0.0101			24.616	
246679002	Perchlorate-O(18)	107 > 89	3.10	18972.311	18972.311	bb			0.4637	92.73	-7.27	12730.000	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8179

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679003

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 98.5

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 00:56	per0223093a
	Perchlorate Isotope Ratio						1	24-FEB-10 00:56	per0223093a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 00:56	per0223093a
	Perchlorate-O(18)			4.70	ug/kg		1	24-FEB-10 00:56	per0223093a

<sup>^</sup> 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: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223093a

Date: 24-Feb-2010

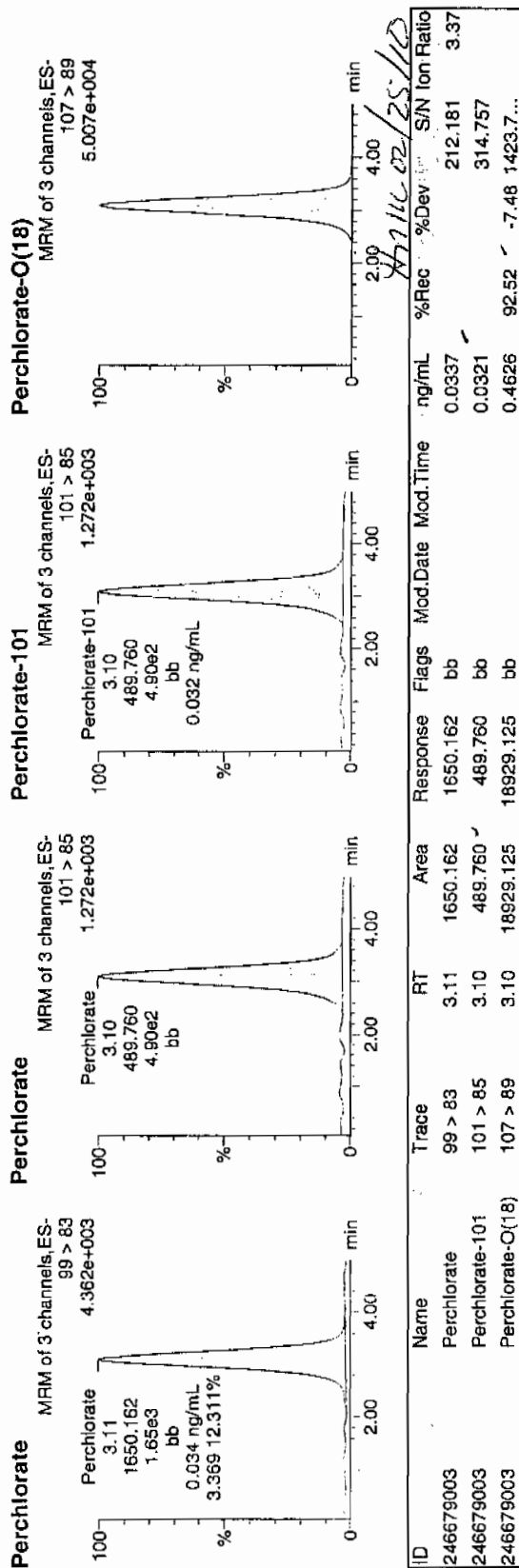
Time: 00:56:25

ID: 246679003

Vial: 3:4,B

02-24-10

165206 | 5020 | 11



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8184  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 246679004  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 97.1

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:04	per0223094a
14797-73-0	Perchlorate-101	.515	2.06	0.515	ug/kg	U	1	24-FEB-10 01:04	per0223094a
	Perchlorate-O(18)			5.37	ug/kg		1	24-FEB-10 01:04	per0223094a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223094a

Date: 24-Feb-2010

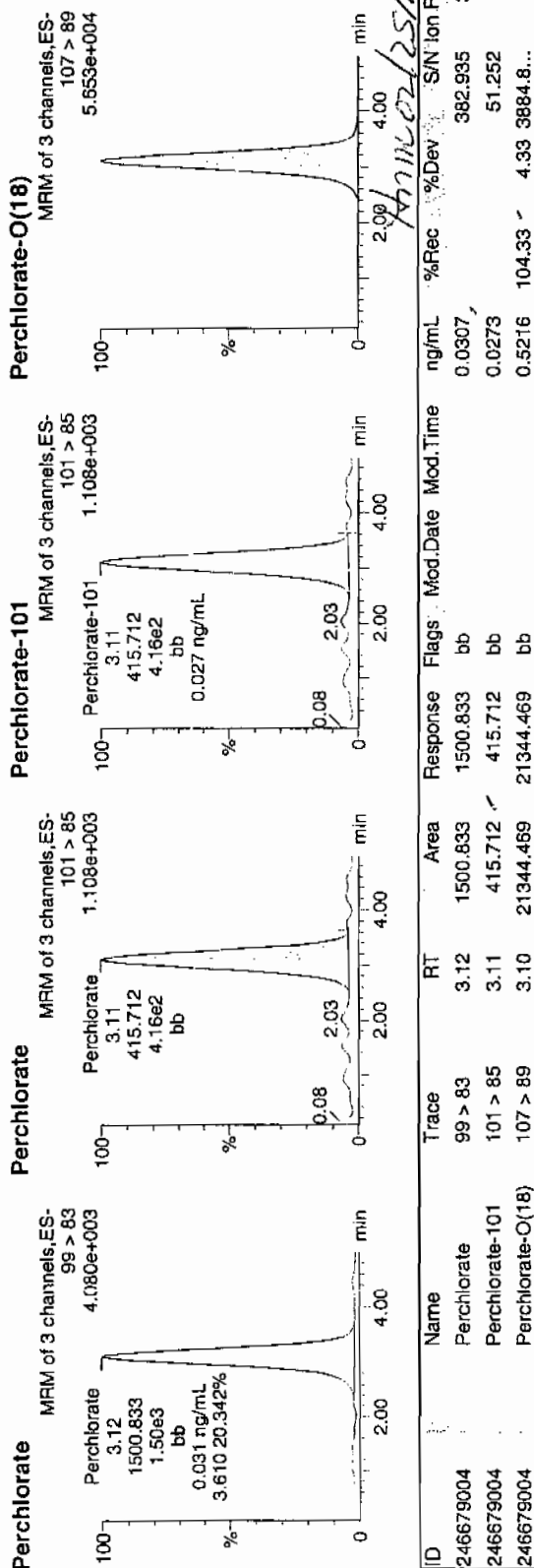
Time: 01:04:28

ID: 246679004

Vial: 3:4,C

02-24-10

157206 | 952406 | 90720 | 11



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8180

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679005

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 98.4

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	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	24-FEB-10 01:12	per0223095a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:12	per0223095a
14797-73-0	Perchlorate-101	.508	2.03	0.508	ug/kg	U	1	24-FEB-10 01:12	per0223095a
	Perchlorate-O(18)			4.55	ug/kg		1	24-FEB-10 01:12	per0223095a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page 70 of 80

Sample Name: per0223095a

Date: 24-Feb-2010

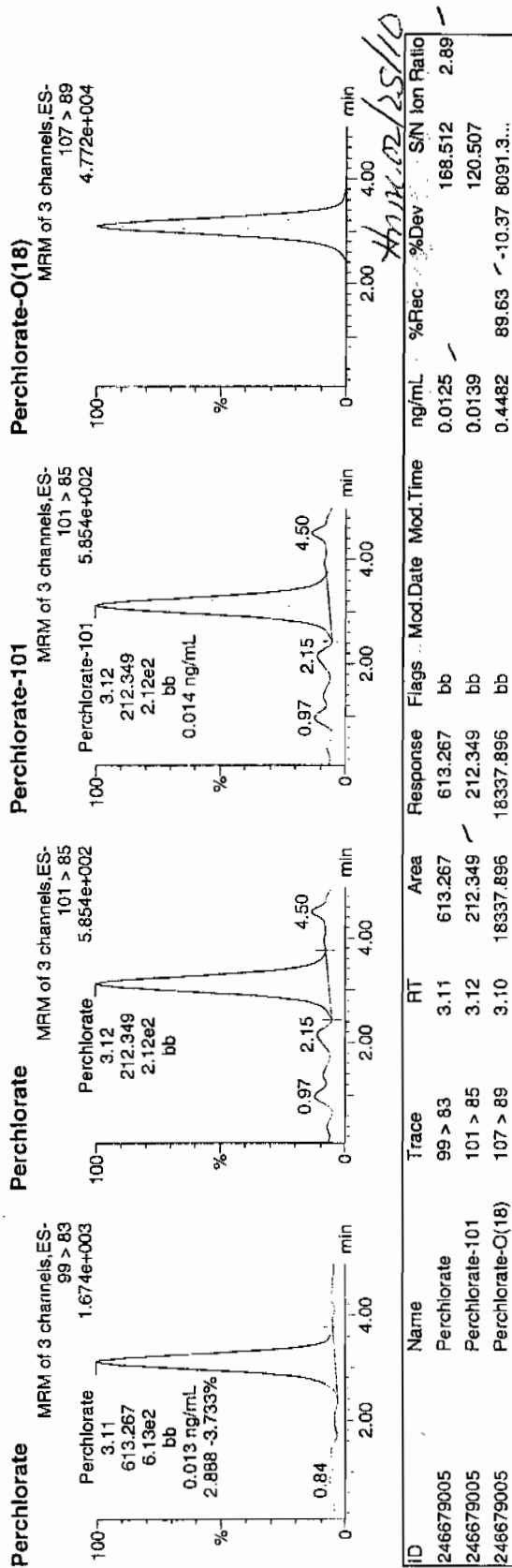
Time: 01:12:30

ID: 246679005

Vial: 3:4,D

02-24-10

LAN 752900 | 5070 | 11



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8181

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679006

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 98.1

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:20	per0223096a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:20	per0223096a
	Perchlorate-O(18)			4.60	ug/kg		1	24-FEB-10 01:20	per0223096a

<sup>^</sup> 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

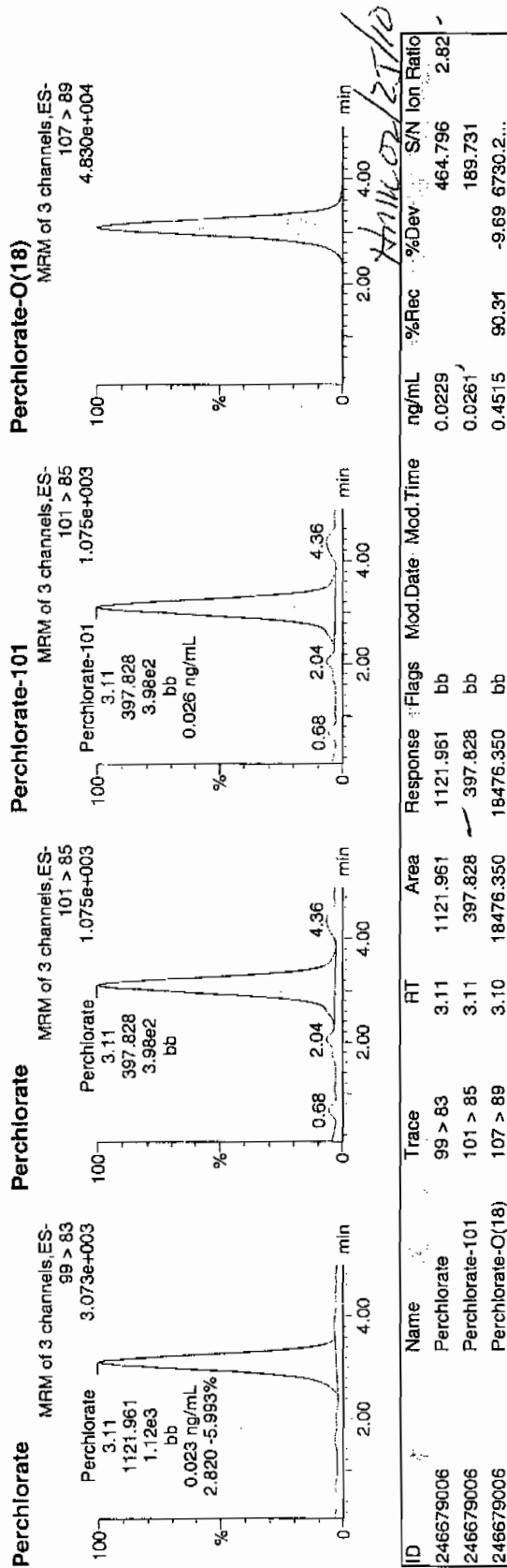
Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223096a  
Date: 24-Feb-2010  
Time: 01:20:32  
ID: 246679006  
Vial: 3:4,E

3  
2  
2  
10

LANU | 952906 | 5000 | 11



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Form 1

Perchlorate Analysis Data Sheet

Client Sample No.

RE15-10-8182

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679007

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 97.9

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:28	per0223097a
14797-73-0	Perchlorate-101	.51	2.04	0.510	ug/kg	U	1	24-FEB-10 01:28	per0223097a
	Perchlorate-O(18)			4.74	ug/kg		1	24-FEB-10 01:28	per0223097a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223097a

Date: 24-Feb-2010

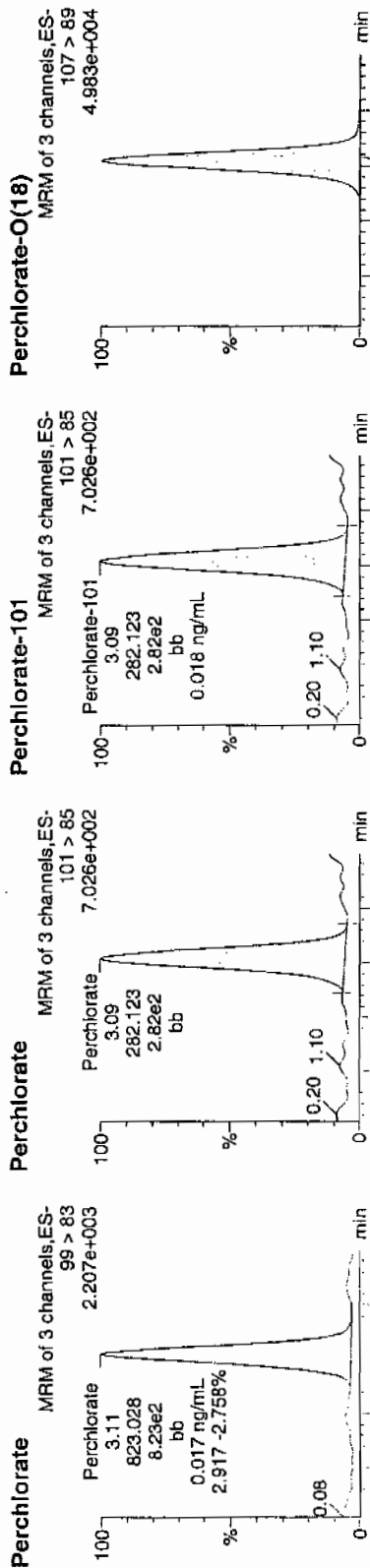
Time: 01:28:33

ID: 246679007

Vial: 3.4,F

24-24-10

WAL 452906 | 507011



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246679007	Perchlorate	99 > 83	3.11	823.028	823.028	bb			0.0168			219.802	2.92
246679007	Perchlorate-101	101 > 85	3.09	282.123	282.123	bb			0.0185			34.200	
246679007	Perchlorate-O(18)	107 > 89	3.10	18989.357	18989.357	bb			0.4641	92.82	-7.18	15912....	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8210

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 246679008

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 93.2

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate Isotope Ratio						1	24-FEB-10 01:36	per0223098a
14797-73-0	Perchlorate-101	.536	2.14	0.536	ug/kg	U	1	24-FEB-10 01:36	per0223098a
	Perchlorate-O(18)			4.98	ug/kg		1	24-FEB-10 01:36	per0223098a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Sample Name: per0223098a

Date: 24-Feb-2010

Time: 01:36:35

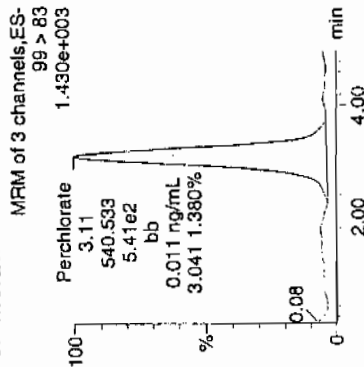
QID: 246679008

Vial: 3:5,A

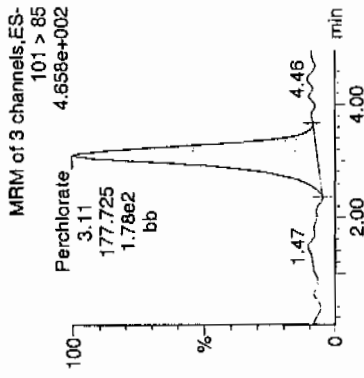
02.2410

172206 | 5020 | 1 |

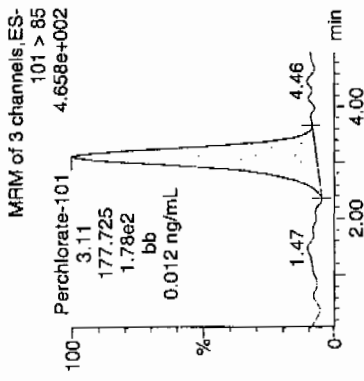
Perchlorate



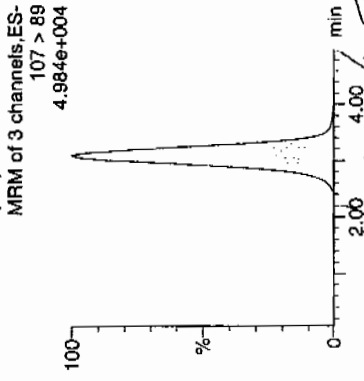
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246679008	Perchlorate	99 > 83	3.11	540.533	540.533	bb			0.011			49.867	3.04
246679008	Perchlorate-101	101 > 85	3.11	177.725	177.725	bb			0.0117			49.891	
246679008	Perchlorate-O(18)	107 > 89	3.09	18994.115	18994.115	bb			0.4642	92.84	-7.16	5804.7...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

Date Analyzed: 23-FEB-10

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

GEL Job No.(SDG): 10-1704

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: 48901.36

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1704

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 23-FEB-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: 15252.16

Response Type: External Standard

Curve Type: RF

**Quantify Calibration Report MassLynx 4.0 SP4**

Page 1 of 2

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per022310a.mdb 24 Feb 2010 09:36:48  
 Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per022310a.cdb 24 Feb 2010 09:37:11

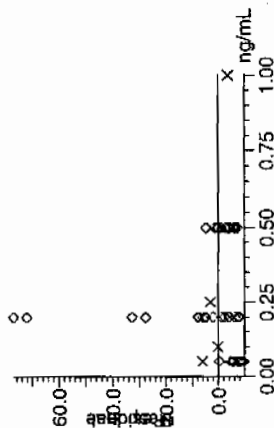
Compound name: Perchlorate

Response Factor: 48901.4

RRF SD: 2330.99, % Relative SD: 4.76673

Response type: External Std, Area

Curve type: RF



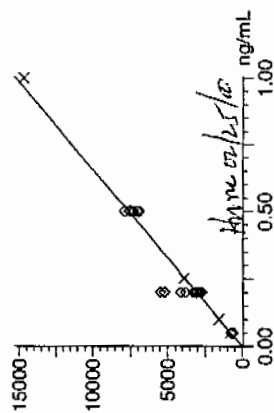
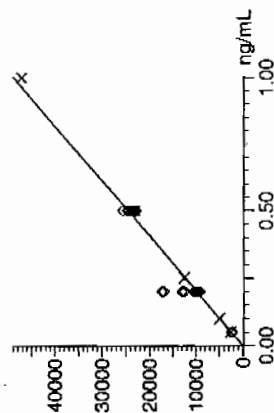
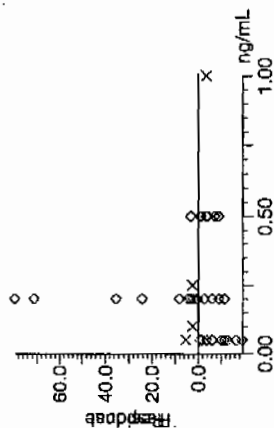
Compound name: Perchlorate-101

Response Factor: 15252.2

RRF SD: 748.661, % Relative SD: 4.90856

Response type: External Std, Area

Curve type: RF



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qid

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time

Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

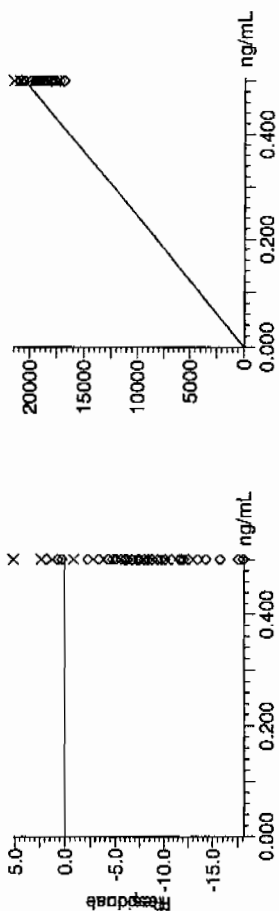
Compound name: Perchlorate-O(18)

Response Factor: 40918.6

RRF SD: 2026.62, % Relative SD: 4.9528

Response type: External Std, Area

Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

GEL Job No.(SDG): 10-1704

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.93	23-FEB-10 13:38	per0223009a
Perchlorate Isotope Ratio		3.22		23-FEB-10 13:38	per0223009a
Perchlorate-101	.5	.5	99.45	23-FEB-10 13:38	per0223009a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223009a

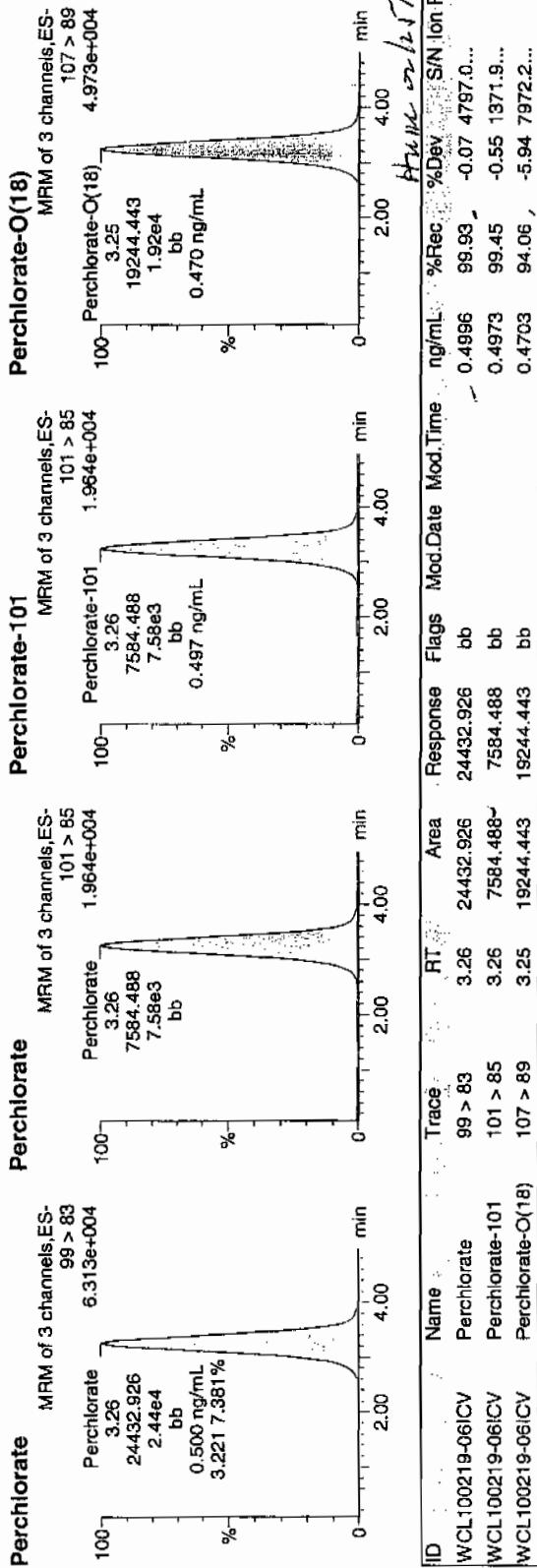
Date: 23-Feb-2010

Time: 13:38:42

ID: WCL100219-06ICV

Vial: 1:2,A

*Run and start*



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-1704

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.51	101.18	23-FEB-10 15:23	per0223022a
Perchlorate Isotope Ratio		3.26		23-FEB-10 15:23	per0223022a
Perchlorate-101	.5	.5	99.37	23-FEB-10 15:23	per0223022a
Perchlorate	.5	.52	104.6	23-FEB-10 17:08	per0223035a
Perchlorate Isotope Ratio		3.25		23-FEB-10 17:08	per0223035a
Perchlorate-101	.5	.52	103.03	23-FEB-10 17:08	per0223035a
Perchlorate	.5	.48	96.6	23-FEB-10 18:52	per0223048a
Perchlorate Isotope Ratio		3.23		23-FEB-10 18:52	per0223048a
Perchlorate-101	.5	.48	95.87	23-FEB-10 18:52	per0223048a
Perchlorate	.5	.5	100.19	23-FEB-10 20:37	per0223061a
Perchlorate Isotope Ratio		3.26		23-FEB-10 20:37	per0223061a
Perchlorate-101	.5	.49	98.63	23-FEB-10 20:37	per0223061a
Perchlorate	.5	.48	95.72	23-FEB-10 22:22	per0223074a

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1704

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio			3.21		23-FEB-10 22:22	per0223074a
Perchlorate-101	.5		.48	95.75	23-FEB-10 22:22	per0223074a
Perchlorate	.5		.49	98.96	23-FEB-10 23:59	per0223086a
Perchlorate Isotope Ratio			3.22		23-FEB-10 23:59	per0223086a
Perchlorate-101	.5		.49	98.51	23-FEB-10 23:59	per0223086a
Perchlorate	.5		.49	97.41	24-FEB-10 01:44	per0223099a
Perchlorate Isotope Ratio			3.23		24-FEB-10 01:44	per0223099a
Perchlorate-101	.5		.48	96.59	24-FEB-10 01:44	per0223099a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

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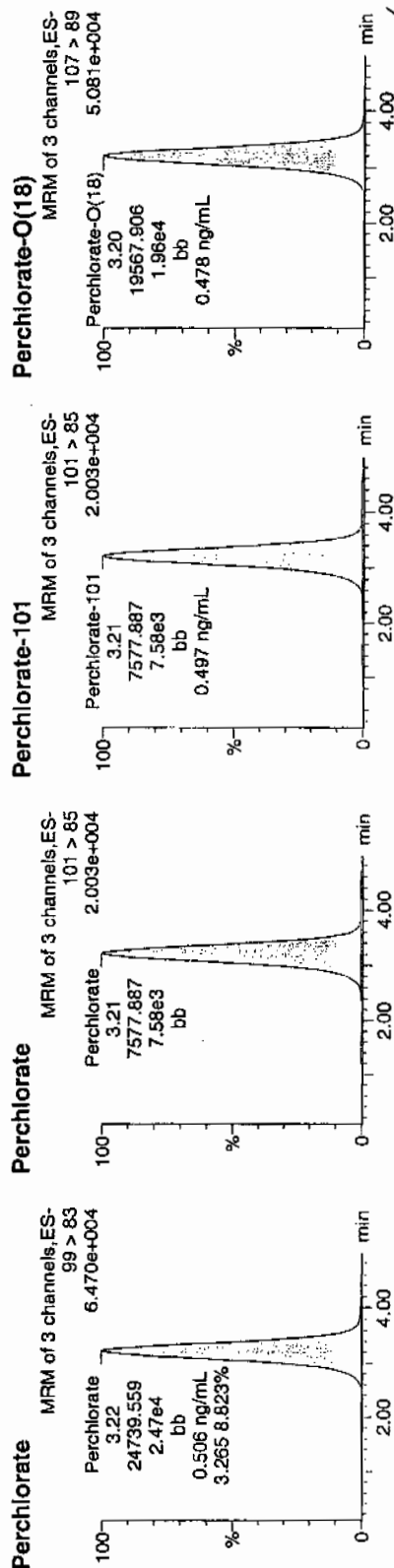
Date: 23-Feb-2010

Time: 15:23:34

ID: WCL100219-06CCV

Vial: 1:2,A

*Pun*  
*02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.22	24739.559	24739.559	bb			0.5059	101.18	1.18	3907.3...	3.26
WCL100219-06CCV	Perchlorate-101	101 > 85	3.21	7577.887	7577.887	bb			0.4968	99.37	-0.63	3206.1...	
WCL100219-06CCV	Perchlorate-O(18)	107 > 89	3.20	19567.906	19567.906	bb			0.4782	95.64	-4.36	3999.2...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223035a

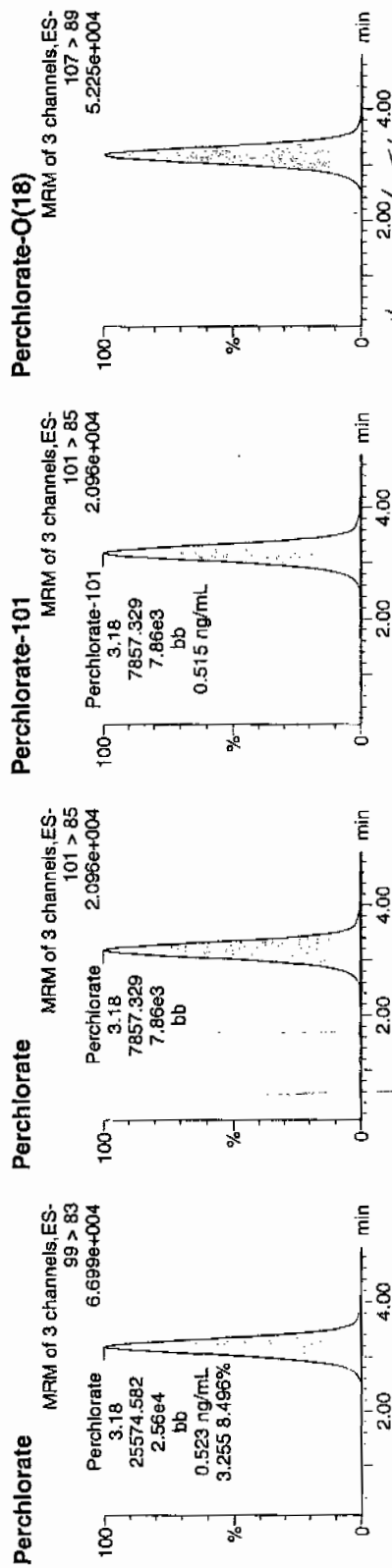
Date: 23-Feb-2010

Time: 17:08:18

ID: WCL100219-06CCV

Vial: 1:2,A

Pure  
WCL  
02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.18	25574.582	25574.582	bb			0.5230	104.60	4.60	5650.3...	3.25
WCL100219-06CCV	Perchlorate-101	101 > 85	3.18	7857.329	7857.329	bb			0.5152	103.03	3.03	775.250	
WCL100219-06CCV	Perchlorate-O(18)	107 > 89	3.17	20000.623	20000.623	bb			0.4888	97.76	-2.24	9648.1...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223048a

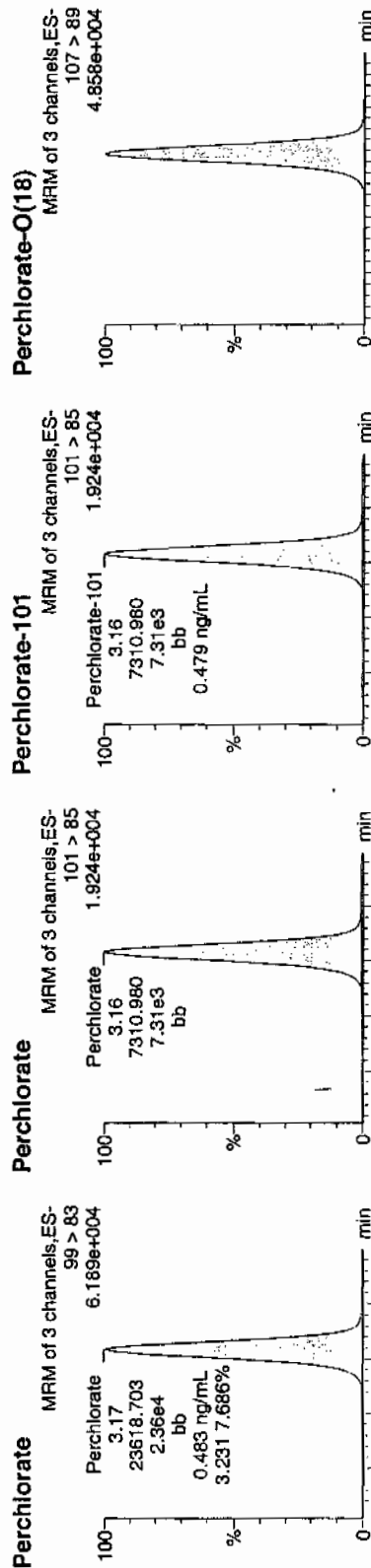
Date: 23-Feb-2010

Time: 18:52:53

ID: WCL100219-06CCV

Vial: 1:2,A

*Per*  
*WCL*  
*0224-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.17	23618.703	23618.703	bb			0.4830	96.60	-3.40	5446.2...	3.23
WCL100219-06CCV	Perchlorate-101	101 > 85	3.16	7310.980	7310.980	bb			0.4793	95.87	-4.13	41.802	
WCL100219-06CCV	Perchlorate-O(18)	107 > 89	3.15	18393.375	18393.375	bb			0.4495	89.90	-10.10	1991.7...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

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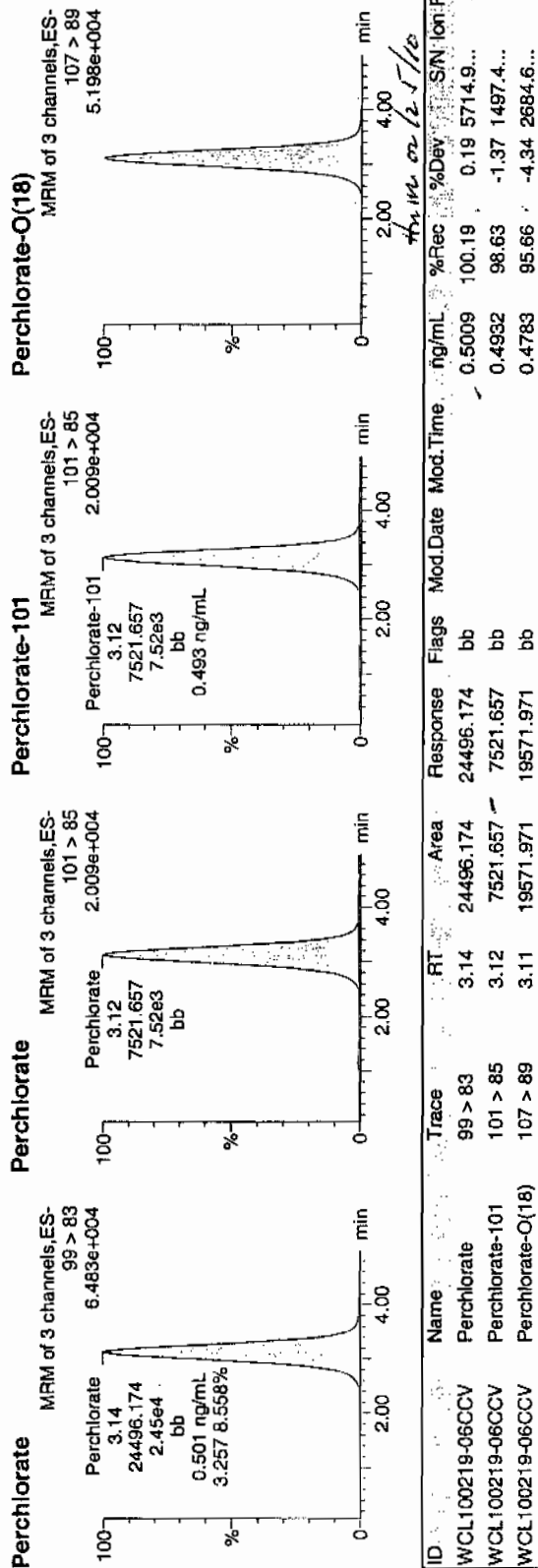
Date: 23-Feb-2010

Time: 20:37:43

ID: WCL100219-06CCV

104

Pure  
and  
02-24-10



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223074a

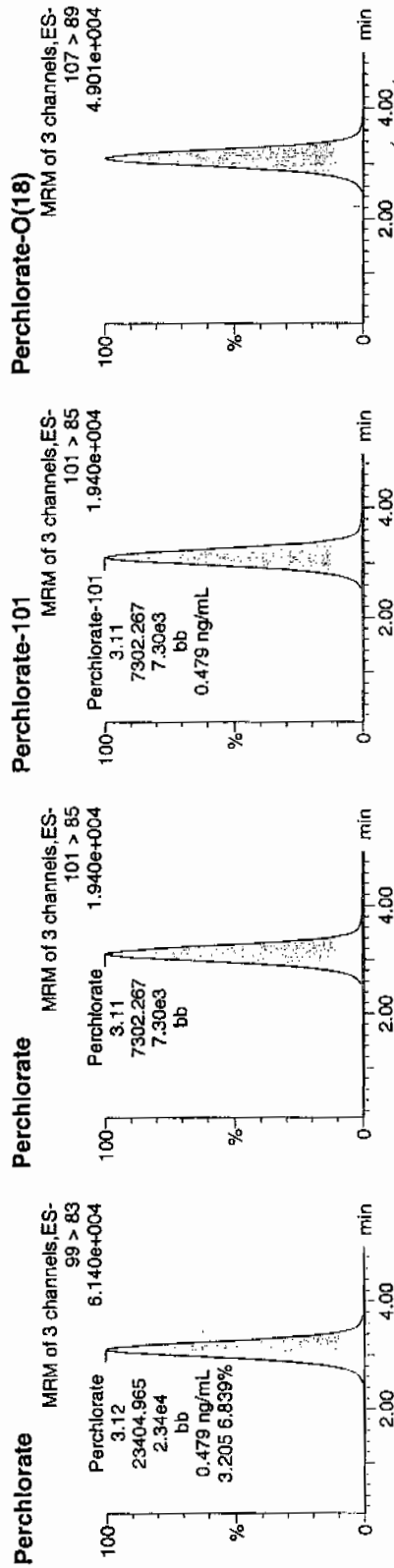
Date: 23-Feb-2010

Time: 22:22:56

ID: WCL100219-06CCV

Vial: 1:2,A

Run  
02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.12	23404.965	23404.965	bb			0.4786	95.72	-4.28	3543.2...	3.21
WCL100219-06CCV	Perchlorate-101	101 > 85	3.11	7302.267	7302.267	bb			0.4788	95.75	-4.25	1424.8...	
WCL100219-06CCV	Perchlorate-O(18)	107 > 89	3.10	18471.350	18471.350	bb			0.4514	90.28	-9.72	13463....	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

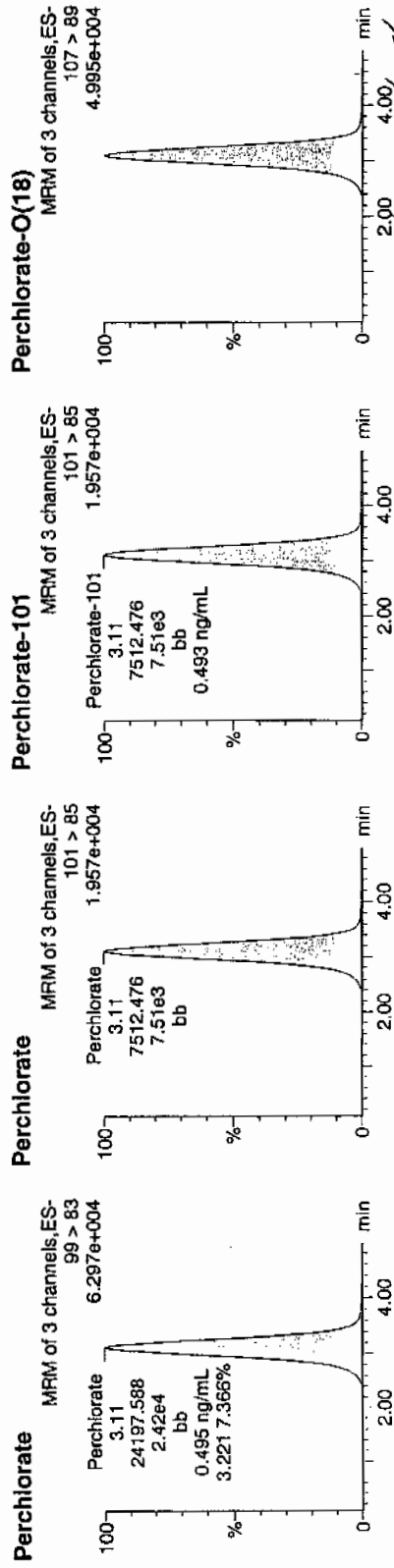
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Sample Name: per0223086a  
Date: 23-Feb-2010  
Time: 23:59:47  
ID: WCL100219-06CCV  
Vial: 1:2,A

*Per*  
*02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.11	24197.588	24197.588	bb			0.4948	98.96	-1.04	6978.8...	3.22
WCL100219-06CCV	Perchlorate-101	101 > 85	3.11	7512.476	7512.476	bb			0.4926	98.51	-1.49	2749.1...	
WCL100219-06CCV	Perchlorate-O(18)	107 > 89	3.10	19311.217	19311.217	bb			0.4719	94.39	-5.61	1421.0...	



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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223099a

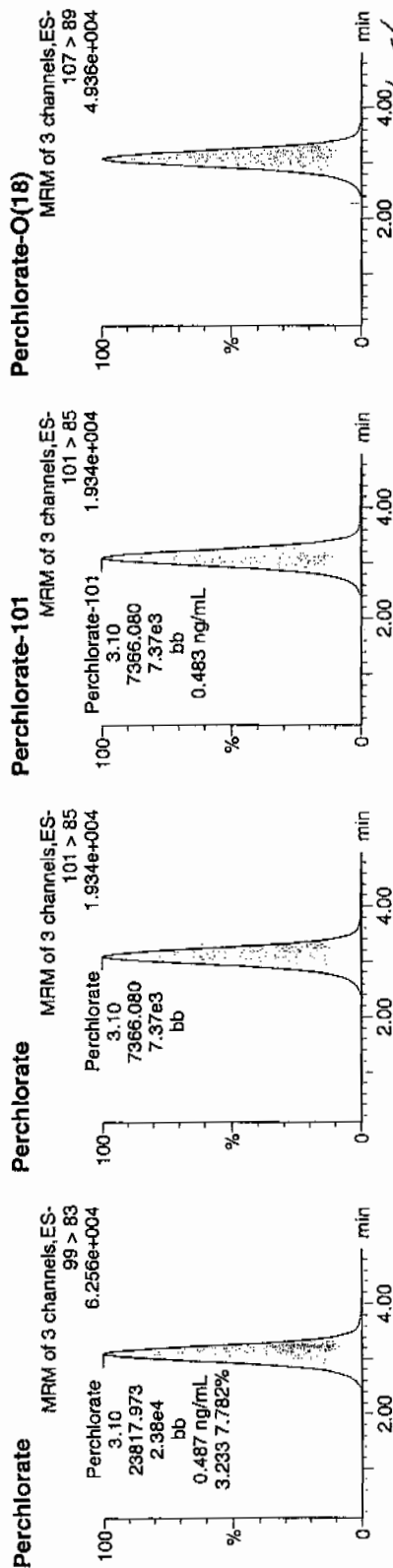
Date: 24-Feb-2010

Time: 01:44:39

ID: WCL100219-06CCV

Vial: 1:2,A

*Run and 02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-06CCV	Perchlorate	99 > 83	3.10	23817.973	23817.973	bb			0.4871	97.41	-2.59	6226.8...	3.23
WCL100219-06CCV	Perchlorate-101	101 > 85	3.10	7366.080	7366.080	bb			0.4830	96.59	-3.41	1065.6...	
WCL100219-06CCV	Perchlorate-Q(18)	107 > 89	3.09	18829.184	18829.184	bb			0.4602	92.03	-7.97	3521.6...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1704

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	99.65	23-FEB-10 13:55	per0223011a
Perchlorate Isotope Ratio		3.41		23-FEB-10 13:55	per0223011a
Perchlorate-101	.05	.05	93.69	23-FEB-10 13:55	per0223011a
Perchlorate	.05	.05	94.13	23-FEB-10 15:39	per0223024a
Perchlorate Isotope Ratio		3.07		23-FEB-10 15:39	per0223024a
Perchlorate-101	.05	.05	98.19	23-FEB-10 15:39	per0223024a
Perchlorate	.05	.05	95.66	23-FEB-10 17:24	per0223037a
Perchlorate Isotope Ratio		3.19		23-FEB-10 17:24	per0223037a
Perchlorate-101	.05	.05	96.29	23-FEB-10 17:24	per0223037a
Perchlorate	.05	.05	94.19	23-FEB-10 19:09	per0223050a
Perchlorate Isotope Ratio		3.04		23-FEB-10 19:09	per0223050a

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1704

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.05	99.39	23-FEB-10 19:09	per0223050a
Perchlorate	.05	.05	94.93	23-FEB-10 20:54	per0223063a
Perchlorate Isotope Ratio		3.23		23-FEB-10 20:54	per0223063a
Perchlorate-101	.05	.05	94.12	23-FEB-10 20:54	per0223063a
Perchlorate	.05	.05	90.68	23-FEB-10 22:39	per0223076a
Perchlorate Isotope Ratio		3.48		23-FEB-10 22:39	per0223076a
Perchlorate-101	.05	.04	83.55	23-FEB-10 22:39	per0223076a
Perchlorate	.05	.05	92.96	24-FEB-10 00:16	per0223088a
Perchlorate Isotope Ratio		3.32		24-FEB-10 00:16	per0223088a
Perchlorate-101	.05	.04	89.87	24-FEB-10 00:16	per0223088a
Perchlorate	.05	.05	92.22	24-FEB-10 02:00	per0223101a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories      GEL Job No.(SDG): 10-1704

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.15		24-FEB-10 02:00	per0223101a
Perchlorate-101	.05	.05	93.89	24-FEB-10 02:00	per0223101a

**Quantify Sample Report** MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Page 11 of 134

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

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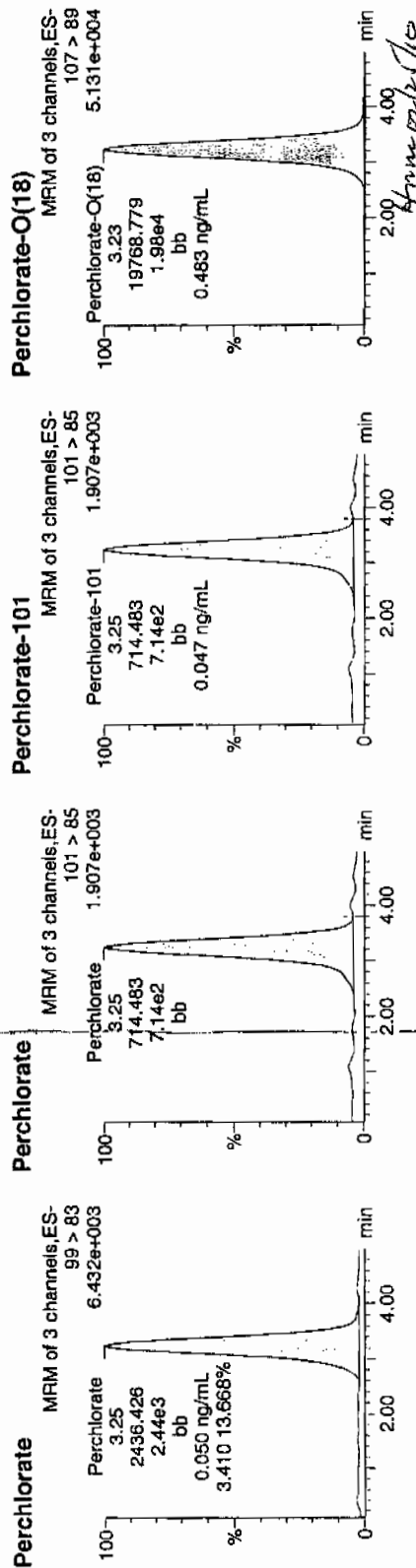
Date: 23-Feb-2010

Time: 13:55:02

ID: WCL100219-07CRI

Vial: 1:2, B

*Per*  
*and*  
*02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.25	2436.426	2436.426	bb			0.0498	99.65	-0.35	752.514	3.41
WCL100219-07CRI	Perchlorate-101	101 > 85	3.25	714.483	714.483	bb			0.0468	93.69	-6.31	197.166	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.23	19768.779	19768.779	bb			0.4831	96.63	-3.37	3562.3...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

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Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223024a

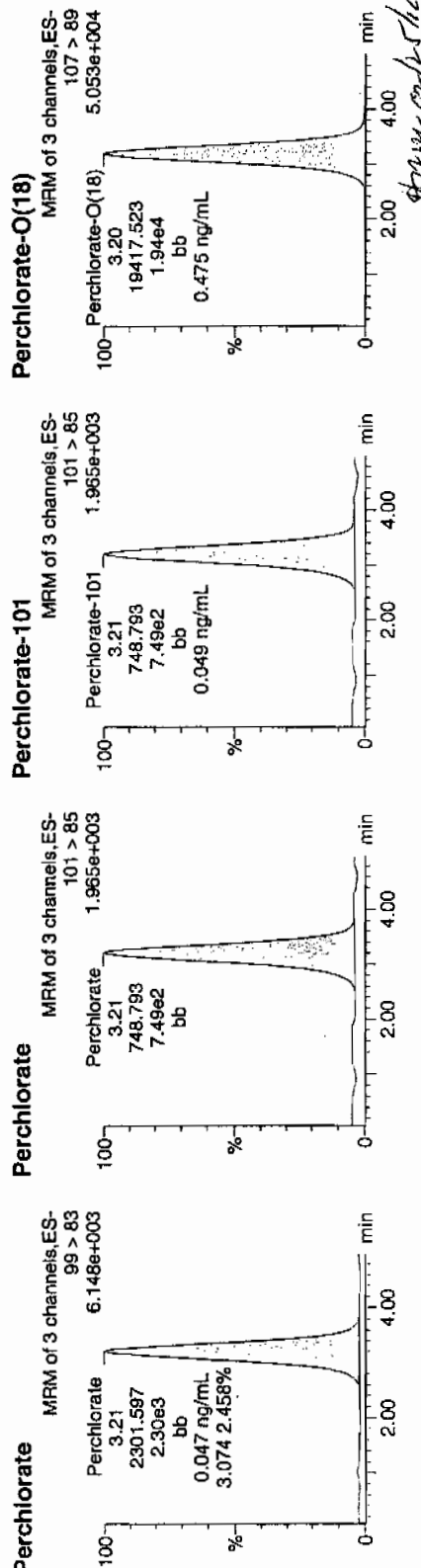
Date: 23-Feb-2010

Time: 15:38:48

ID: WCL100219-07CRI

Vial: 1:2,B

Per  
and  
02-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.21	2301.597	2301.597	bb			0.0471	94.13	-5.87	345.822	3.07
WCL100219-07CRI	Perchlorate-101	101 > 85	3.21	748.793	748.793	bb			0.0491	98.19	-1.81	179.800	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.20	19417.523	19417.523	bb			0.4745	94.91	-5.09	8390.9...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

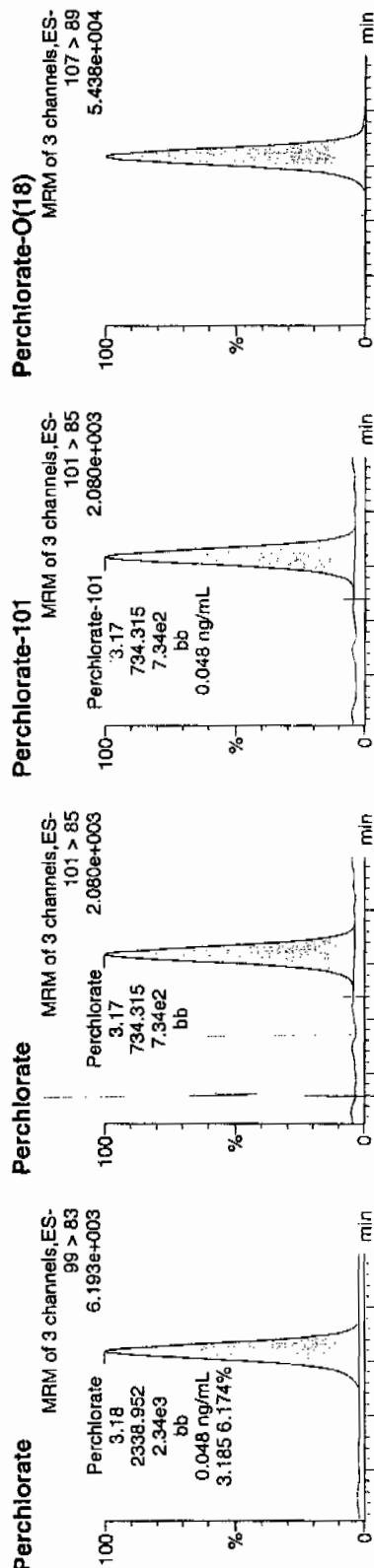
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223037a  
Date: 23-Feb-2010  
Time: 17:24:23  
ID: WCL100219-07CRI  
Vial: 1:2,B

*Per  
and  
0224-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.18	2338.952	2338.952	bb			0.0478	95.66	-4.34	575.341	3.19
WCL100219-07CRI	Perchlorate-101	101 > 85	3.17	734.315	734.315	bb			0.0481	96.29	-3.71	259.348	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.17	20606.650	20606.650	bb			0.5036	100.72	0.72	10983....	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
 Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223050a

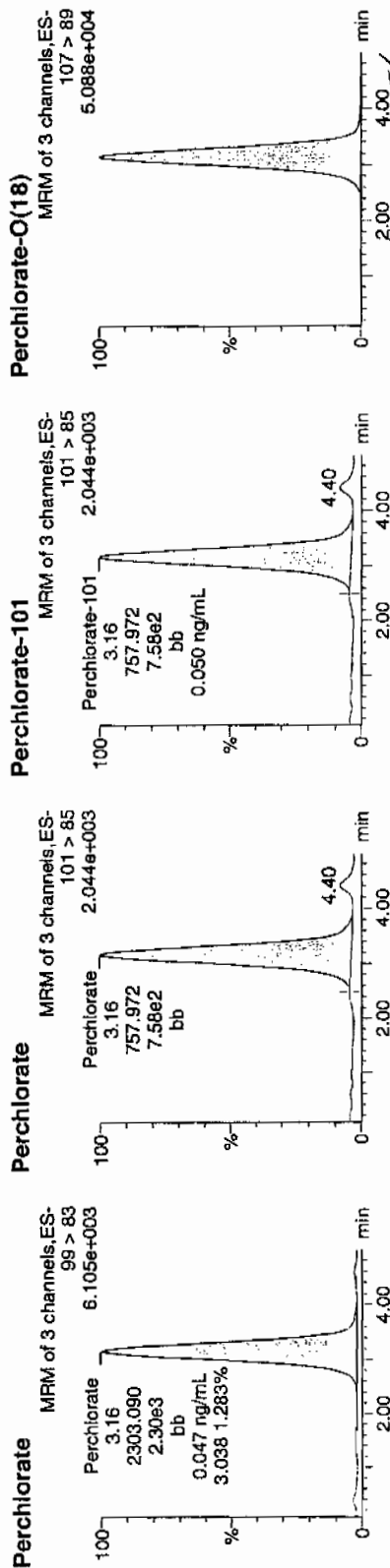
Date: 23-Feb-2010

Time: 19:09:11

ID: WCL100219-07CRI

Vial: 1:2,B

*Per*  
*02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.16	2303.090	2303.090	bb			0.0471	94.19	-5.81	621.859	3.04
WCL100219-07CRI	Perchlorate-101	101 > 85	3.16	757.972	757.972	bb			0.0497	99.39	-0.61	379.074	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.15	19230.377	19230.377	bb			0.4700	93.99	-6.01	5771.8...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification



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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223063a

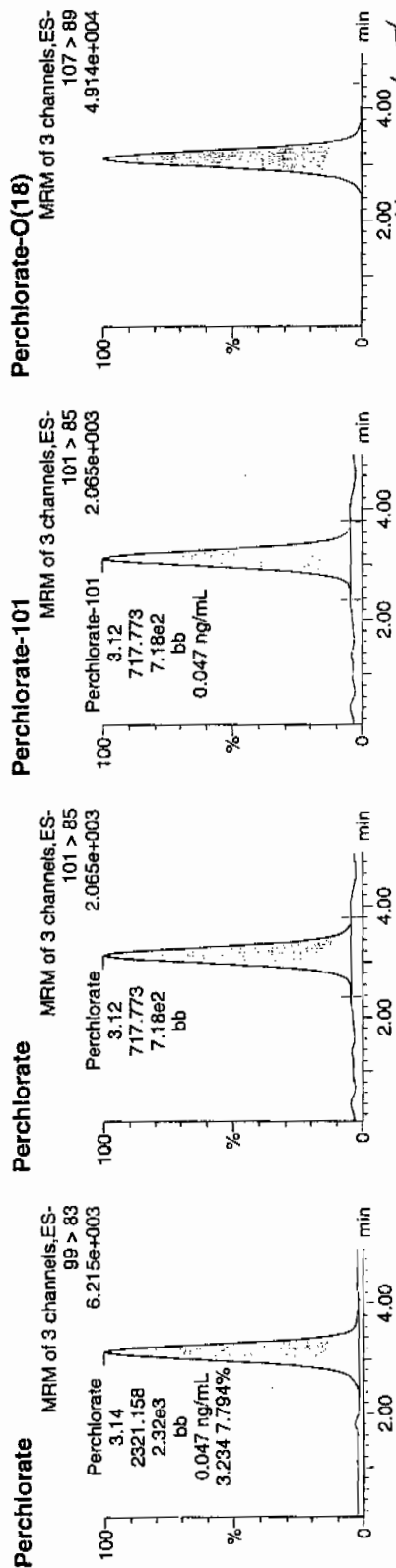
Date: 23-Feb-2010

Time: 20:54:02

ID: WCL100219-07CRI

Vial: 1:2,B

*Per*  
*and*  
*02-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.14	2321.158	2321.158	bb			0.0475	94.93	-5.07	88.026	3.23
WCL100219-07CRI	Perchlorate-101	101 > 85	3.12	717.773	717.773	bb			0.0471	94.12	-5.88	899.037	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.11	18669.115	18669.115	bb			0.4563	91.25	-8.75	2265.6...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223076a

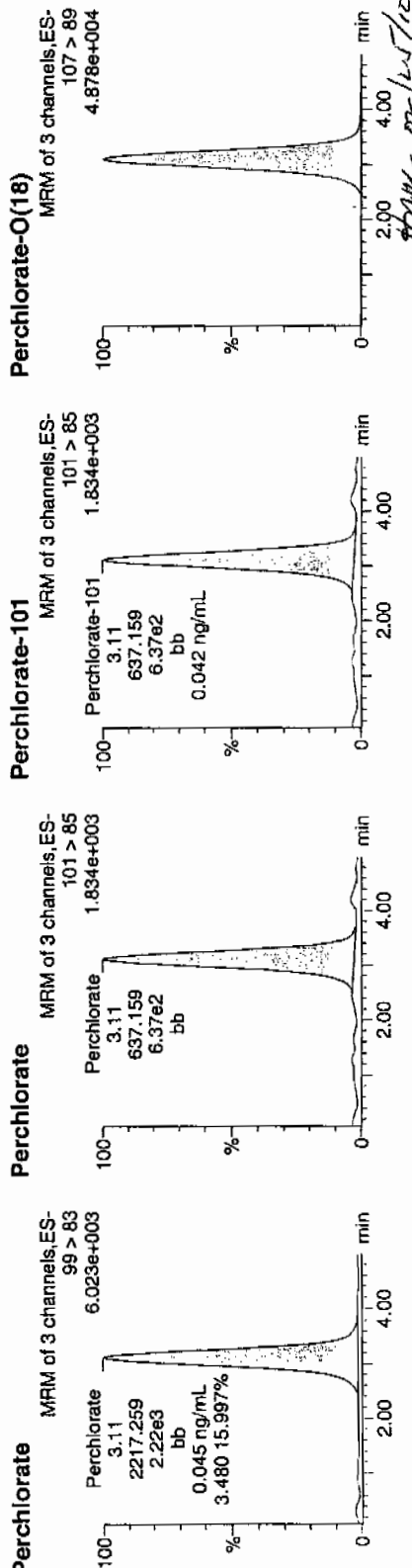
Date: 23-Feb-2010

Time: 22:39:14

ID: WCL100219-07CRI

Vial: 1:2,B

*Run*  
*0223076a*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.11	2217.259	2217.259	bb			0.0453	90.68	-9.32	486.685	3.48
WCL100219-07CRI	Perchlorate-101	101 > 85	3.11	637.159	637.159	bb			0.0418	83.55	-16.45	214.354	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.10	18546.570	18546.570	bb			0.4533	90.65	-9.35	2896.6...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Sample Name: per0223088a

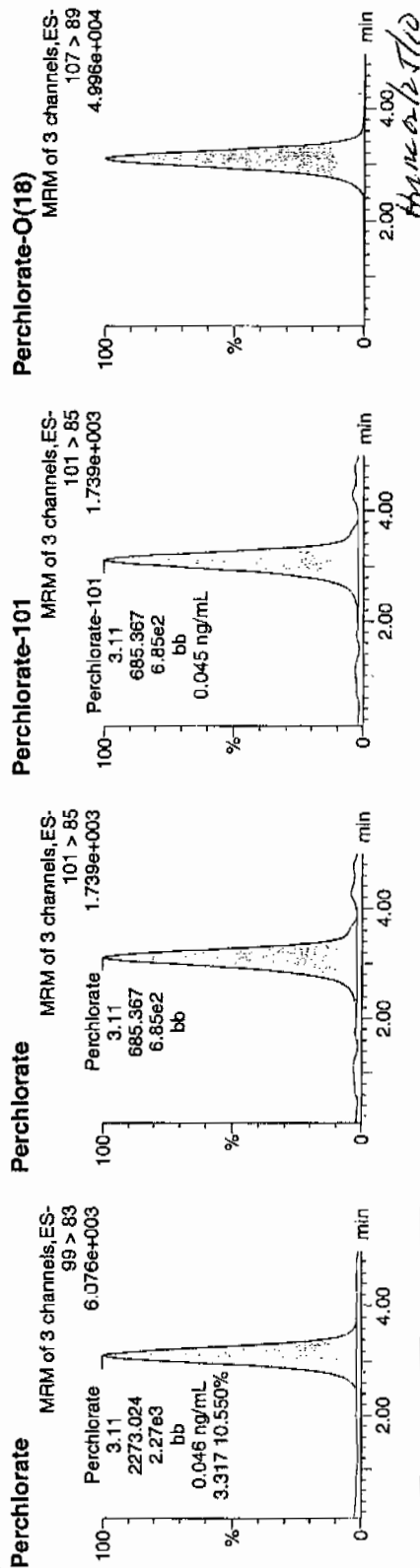
Date: 24-Feb-2010

Time: 00:16:04

ID: WCL100219-07CRI

Vial: 1:2, B

Per  
and  
022410



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100219-07CRI	Perchlorate	99 > 83	3.11	2273.024	2273.024	bb			0.0465	92.96	-7.04	878.665	3.32
WCL100219-07CRI	Perchlorate-101	101 > 85	3.11	685.367	685.367	bb			0.0449	89.87	-10.13	300.870	
WCL100219-07CRI	Perchlorate-O(18)	107 > 89	3.10	1911.758	1911.758	bb			0.4671	93.41	-6.59	6637.7...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

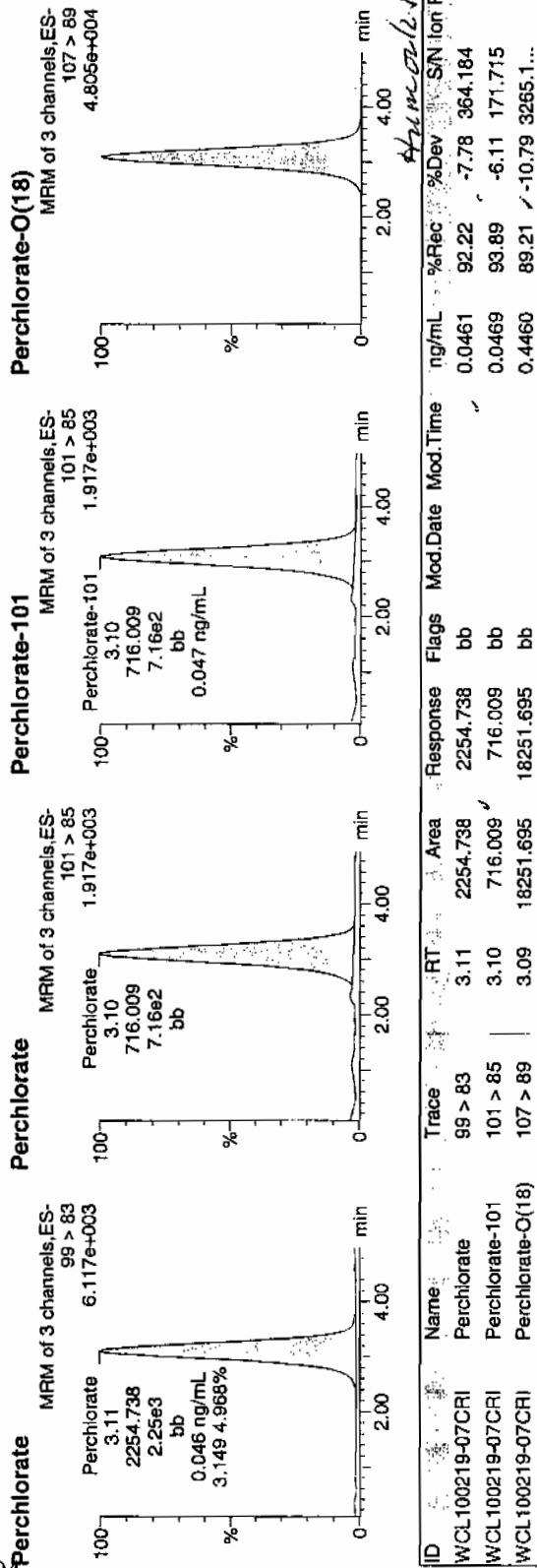
**Quantify Sample Report** MassLynx 4.0 SP4  
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Page Name: per0223101a  
Date: 24-Feb-2010  
Time: 02:00:56  
ID: WCL100219-07CRI  
Vial: 1:2,B

*Per*  
*02.24.10*



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Client Sample No.

MB

Date Received: 22-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 1202042433

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 100

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	23-FEB-10 21:34	per0223068a
	Perchlorate Isotope Ratio						1	23-FEB-10 21:34	per0223068a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	23-FEB-10 21:34	per0223068a
	Perchlorate-O(18)			4.32	ug/kg		1	23-FEB-10 21:34	per0223068a

<sup>^</sup> 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

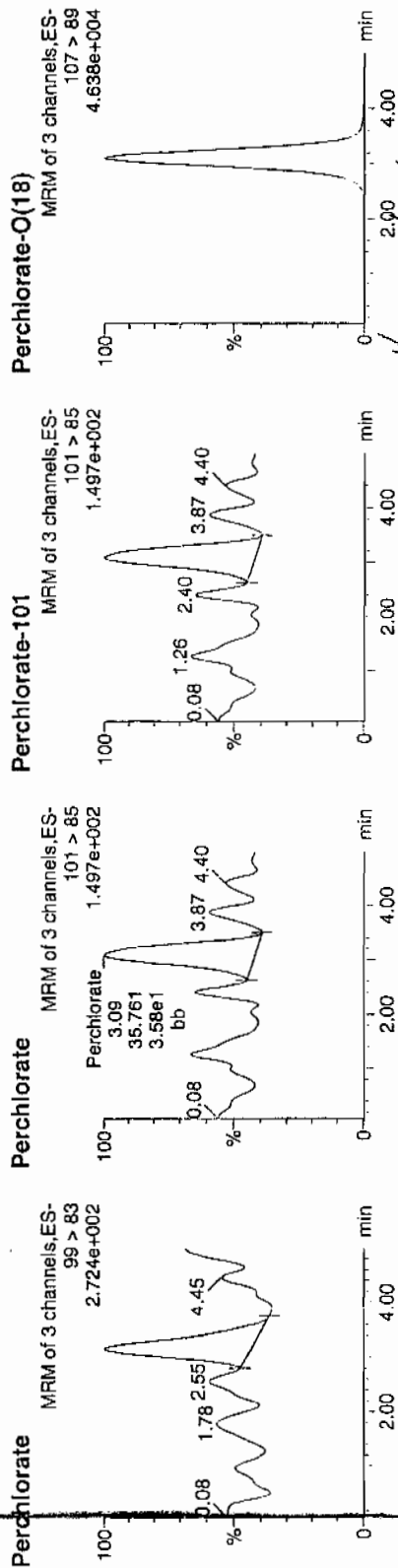
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Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223068a  
Date: 23-Feb-2010  
Time: 21:34:36  
ID: 1202042433  
Vial: 3:1,A

0224-10

LANU | 952406 | 5070 | MO | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042433	Perchlorate	99 > 83	3.16	60.167	60.167	bb			0.0012			9.849	1.68
1202042433	Perchlorate-101	101 > 85	3.09	35.761	35.761	bb			0.0023			14.140	
1202042433	Perchlorate-O(18)	107 > 89	3.11	17696.334	17696.334	bb			0.4325	86.50	-13.50	6430.5...	

OK 24  
20030

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC  
 Lab Code: GEL  
 Instrument: LCMSMS  
 Method: EPA 6850 Modified  
 Matrix: SOIL  
 Extraction Batch ID: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. LCS  
 Date Received: 22-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 1202042434  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 100

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.92	ug/kg	J	1	23-FEB-10 21:42	per0223069a
	Perchlorate Isotope Ratio			3.28			1	23-FEB-10 21:42	per0223069a
14797-73-0	Perchlorate-101	.5	2	1.88	ug/kg	J	1	23-FEB-10 21:42	per0223069a
	Perchlorate-O(18)			4.59	ug/kg		1	23-FEB-10 21:42	per0223069a

<sup>^</sup> 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



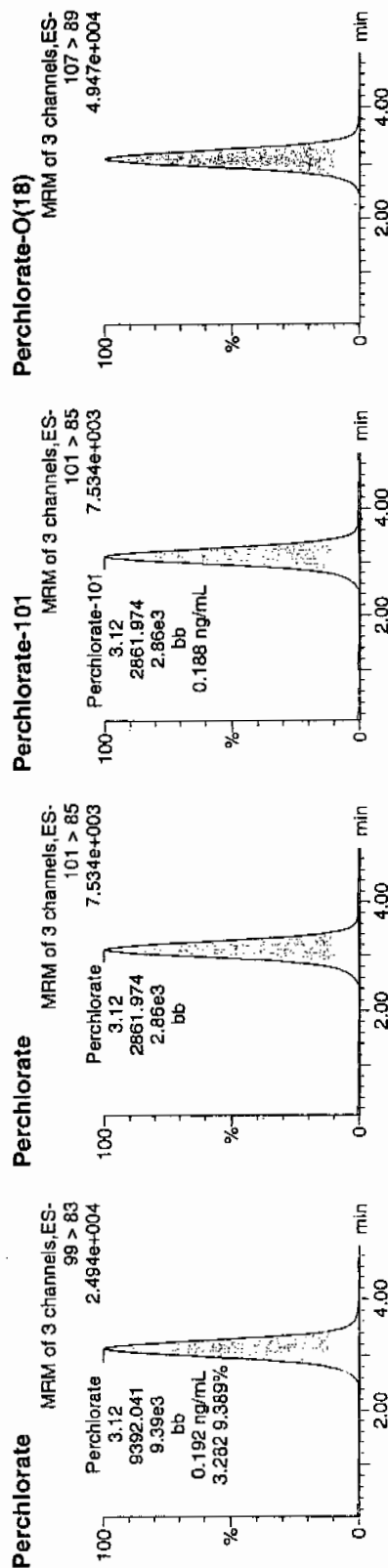
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Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223069a  
Date: 23-Feb-2010  
Time: 21:42:51  
ID: 1202042434  
Vial: 3:1,B

1202042434 | 952906 | 50220 | LC5 | 11

02.2410



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202042434	Perchlorate	99 > 83	3.12	9392.041	9392.041	bb			0.1921	96.03	-3.97	1578.4...	3.28
1202042434	Perchlorate-101	101 > 85	3.12	2861.974	2861.974	bb			0.1876	93.82	-6.18	2252.6...	
1202042434	Perchlorate-O(18)	107 > 89	3.11	18764.154	18764.154	bb			0.4586	91.71	-8.29	1225.0...	

9392.041 = 0.1921  
48901.4

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: 952905  
 Extraction Type: Solid Prep  
 Sample Volume/Weight: 2.00 g  
 Concentrated Extract Volume: 20.0  
 Client Sample No. RE15-10-8185MS  
 Date Received: 10-FEB-10  
 GEL Job No (SDG): 10-1704  
 GEL Sample ID: 1202042435  
 Date Filtered: 22-FEB-10  
 Injection Volume (uL): 20  
 %Solids: 91

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	2.31	ug/kg		1	24-FEB-10 00:32	per0223090a
	Perchlorate Isotope Ratio			3.27			1	24-FEB-10 00:32	per0223090a
14797-73-0	Perchlorate-101	.55	2.2	2.27	ug/kg		1	24-FEB-10 00:32	per0223090a
	Perchlorate-O(18)			5.12	ug/kg		1	24-FEB-10 00:32	per0223090a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223090a

Date: 24-Feb-2010

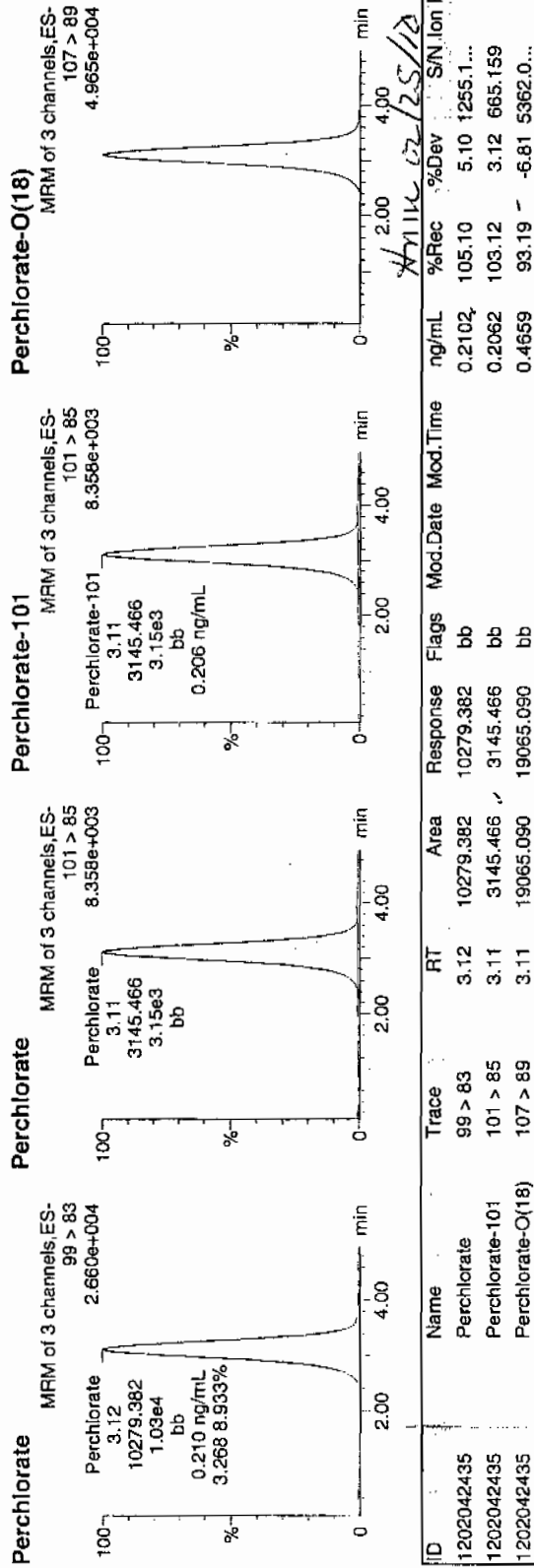
Time: 00:32:20

ID: 1202042435

Vial: 3:3,E

02.24.10

1202042435 | 5070 | MS | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202042435	Perchlorate	99 > 83	3.12	10279.382	10279.382	bb			0.2102	105.10	5.10	1255.1...	3.27
1202042435	Perchlorate-101	101 > 85	3.11	3145.466	3145.466	bb			0.2062	103.12	3.12	665.159	
1202042435	Perchlorate-O(18)	107 > 89	3.11	19065.090	19065.090	bb			0.4659	93.19	-6.81	5362.0...	

GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952905

Extraction Type: Solid Prep

Client Sample No.

RE15-10-8185MSD

Date Received: 10-FEB-10

GEL Job No (SDG): 10-1704

GEL Sample ID: 1202042436

Date Filtered: 22-FEB-10

Injection Volume (uL): 20

%Solids: 91

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte <sup>^</sup>	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.55	2.2	2.38	ug/kg		1	24-FEB-10 00:40	per0223091a
	Perchlorate Isotope Ratio			3.2			1	24-FEB-10 00:40	per0223091a
14797-73-0	Perchlorate-101	.55	2.2	2.38	ug/kg		1	24-FEB-10 00:40	per0223091a
	Perchlorate-O(18)			5.23	ug/kg		1	24-FEB-10 00:40	per0223091a

<sup>^</sup> 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\per022310a.qld

Last Altered: Wednesday, February 24, 2010 9:37:13 AM Eastern Standard Time  
Printed: Wednesday, February 24, 2010 9:52:21 AM Eastern Standard Time

Name: per0223091a

Date: 24-Feb-2010

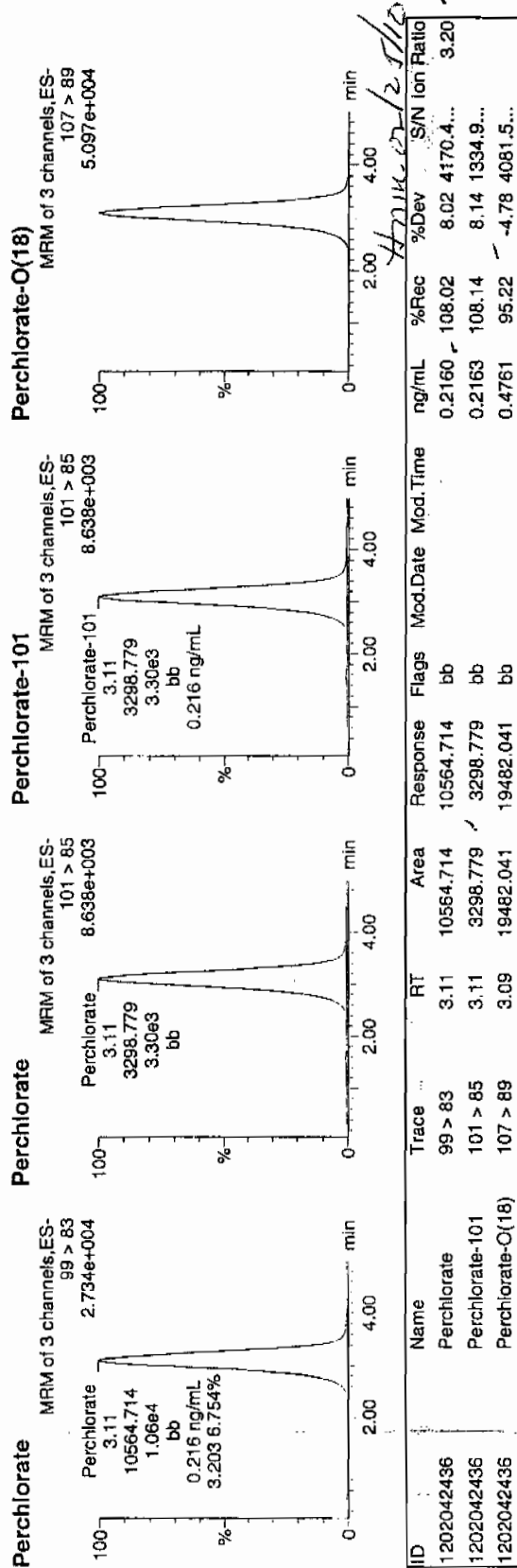
Time: 00:40:21

ID: 1202042436

Vial: 3:3,F

02-24-10

167206 | 952906 | 50700 | 150111



GEL SOP GL-OA-E-067, Method 6850-Modified / MM = Manual Modification

# 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: 952905  
 Analyst: Charles Wilson  
 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)
1202042433 MB	22-FEB-2010 12:10:00	2	20	10
1202042434 LCS	22-FEB-2010 12:10:00	2	20	10
246607001	22-FEB-2010 12:10:00	2	20	10
246607002	22-FEB-2010 12:10:00	2	20	10
246607003	22-FEB-2010 12:10:00	2	20	10
246607004	22-FEB-2010 12:10:00	2	20	10
246607005	22-FEB-2010 12:10:00	2	20	10
246607006	22-FEB-2010 12:10:00	2	20	10
246610001	22-FEB-2010 12:10:00	2	20	10
246610002	22-FEB-2010 12:10:00	2	20	10
246610003	22-FEB-2010 12:10:00	2	20	10
246611001	22-FEB-2010 12:10:00	2	20	10
246611002	22-FEB-2010 12:10:00	2	20	10
246611003	22-FEB-2010 12:10:00	2	20	10
246679001	22-FEB-2010 12:10:00	2	20	10
1202042435 MS (246679001)	22-FEB-2010 12:10:00	2	20	10
1202042436 MSD (246679001)	22-FEB-2010 12:10:00	2	20	10
246679002	22-FEB-2010 12:10:00	2	20	10
246679003	22-FEB-2010 12:10:00	2	20	10
246679004	22-FEB-2010 12:10:00	2	20	10
246679005	22-FEB-2010 12:10:00	2	20	10
246679006	22-FEB-2010 12:10:00	2	20	10
246679007	22-FEB-2010 12:10:00	2	20	10
246679008	22-FEB-2010 12:10:00	2	20	10
1202042437 ICS	22-FEB-2010 12:10:00	2	20	10

Comments:

Desalting cartridges used: 091120-1-Ba & 100112-1-H

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Reviewed BY: *Whm*  
Date: 02/25/10  
SOP: GL-OA-E-067 Rev.6  
Alt Check Std. ID: WCL100219-06

Method: EPA 6850-Modified  
Int. Std.: UCL100126-01  
Mobile Phase Lot#: 1269535, 1261217  
Standard-Samp Reagent Lot#: 1261217

Date: 02/23/10  
Extr. Injection Volume: 20uL  
Sequence Number: per022310a  
Initial Calibration Date: 02/23/10

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0223001a	IPB001	CWW	2/23/2010 12:33			1		USE	B
per0223002a	IPB001	CWW	2/23/2010 12:42			1		USE	B
per0223003a	WCLICAL-01	CWW	2/23/2010 12:50			1		USE	I
per0223004a	WCLICAL-02	CWW	2/23/2010 12:58			1		USE	I
per0223005a	WCLICAL-03	CWW	2/23/2010 13:06			1		USE	I
per0223006a	WCLICAL-04	CWW	2/23/2010 13:14			1		USE	I
per0223007a	WCLICAL-05	CWW	2/23/2010 13:22			1		USE	I
per0223008a	IPB002	CWW	2/23/2010 13:30			1		USE	B
per0223009a	WCLICV	CWW	2/23/2010 13:38			1		USE	C
per0223010a	IPB003	CWW	2/23/2010 13:46			1		USE	B
per0223011a	WCLCRI	CWW	2/23/2010 13:55			1		USE	C
per0223012a	1202035646	CWW	2/23/2010 14:03	950063	10-1514	1	LANL	USE	S
per0223013a	1202035647	CWW	2/23/2010 14:11	950063	10-1514	1	LANL	USE	S
per0223014a	1202035650	CWW	2/23/2010 14:19	950063	10-1514	1	LANL	USE	S
per0223015a	245979001	CWW	2/23/2010 14:27	950063	10-1514	1	LANL	USE	S
per0223016a	1202035648	CWW	2/23/2010 14:35	950063	10-1514	1	LANL	USE	S
per0223017a	1202035649	CWW	2/23/2010 14:43	950063	10-1514	1	LANL	USE	S
per0223018a	245979002	CWW	2/23/2010 14:51	950063	10-1514	1	LANL	USE	S
per0223019a	245979003	CWW	2/23/2010 14:59	950063	10-1514	1	LANL	USE	S
per0223020a	245979004	CWW	2/23/2010 15:07	950063	10-1514	1	LANL	USE	S
per0223021a	245979005	CWW	2/23/2010 15:15	950063	10-1514	1	LANL	USE	S
per0223022a	WCLCCV	CWW	2/23/2010 15:23			1		USE	C
per0223023a	IPB004	CWW	2/23/2010 15:31			1		USE	B
per0223024a	WCLCRI	CWW	2/23/2010 15:39			1		USE	C
per0223025a	245979006	CWW	2/23/2010 15:47	950063	10-1514	1	LANL	USE	S
per0223026a	245979007	CWW	2/23/2010 15:55	950063	10-1514	1	LANL	USE	S
per0223027a	245979008	CWW	2/23/2010 16:03	950063	10-1514	1	LANL	USE	S
per0223028a	245979009	CWW	2/23/2010 16:11	950063	10-1514	1	LANL	USE	S
per0223029a	245979010	CWW	2/23/2010 16:20	950063	10-1514	1	LANL	USE	S



per0223030a	245979011	CWW	2/23/2010 16:28	950063	10-1514	1	LANL	USE	S
per0223031a	245979012	CWW	2/23/2010 16:36	950063	10-1514	1	LANL	USE	S
per0223032a	245979013	CWW	2/23/2010 16:44	950063	10-1514	1	LANL	USE	S
per0223033a	245979014	CWW	2/23/2010 16:52	950063	10-1514	1	LANL	USE	S
per0223034a	245979015	CWW	2/23/2010 17:00	950063	10-1514	1	LANL	USE	S
per0223035a	WCLCCV	CWW	2/23/2010 17:08			1		USE	C
per0223036a	IPB005	CWW	2/23/2010 17:16			1		USE	B
per0223037a	WCLCRI	CWW	2/23/2010 17:24			1		USE	C
per0223038a	1202035660	CWW	2/23/2010 17:32	950071	VARIOUS	1	LANL	USE	S
per0223039a	1202035661	CWW	2/23/2010 17:40	950071	VARIOUS	1	LANL	USE	S
per0223040a	1202035664	CWW	2/23/2010 17:48	950071	VARIOUS	1	LANL	USE	S
per0223041a	245998001	CWW	2/23/2010 17:56	950071	10-1517	1	LANL	USE	S
per0223042a	245998002	CWW	2/23/2010 18:04	950071	10-1517	1	LANL	USE	S
per0223043a	245998003	CWW	2/23/2010 18:12	950071	10-1517	1	LANL	USE	S
per0223044a	245998004	CWW	2/23/2010 18:20	950071	10-1517	1	LANL	USE	S
per0223045a	245998005	CWW	2/23/2010 18:28	950071	10-1517	1	LANL	USE	S
per0223046a	245998006	CWW	2/23/2010 18:36	950071	10-1517	1	LANL	USE	S
per0223047a	245998007	CWW	2/23/2010 18:44	950071	10-1517	1	LANL	USE	S
per0223048a	WCLCCV	CWW	2/23/2010 18:52			1		USE	C
per0223049a	IPB006	CWW	2/23/2010 19:01			1		USE	B
per0223050a	WCLCRI	CWW	2/23/2010 19:09			1		USE	C
per0223051a	245998008	CWW	2/23/2010 19:17	950071	10-1517	1	LANL	USE	S
per0223052a	245998009	CWW	2/23/2010 19:25	950071	10-1517	1	LANL	USE	S
per0223053a	246055001	CWW	2/23/2010 19:33	950071	10-1545	1	LANL	USE	S
per0223054a	1202035662	CWW	2/23/2010 19:41	950071	10-1545	1	LANL	USE	S
per0223055a	1202035663	CWW	2/23/2010 19:49	950071	10-1545	1	LANL	USE	S
per0223056a	246055002	CWW	2/23/2010 19:57	950071	10-1545	1	LANL	USE	S
per0223057a	246055003	CWW	2/23/2010 20:05	950071	10-1545	1	LANL	USE	S
per0223058a	246055004	CWW	2/23/2010 20:13	950071	10-1545	1	LANL	USE	S
per0223059a	246055005	CWW	2/23/2010 20:21	950071	10-1545	1	LANL	USE	S
per0223060a	246055006	CWW	2/23/2010 20:29	950071	10-1545	1	LANL	USE	S
per0223061a	WCLCCV	CWW	2/23/2010 20:37			1		USE	C
per0223062a	IPB007	CWW	2/23/2010 20:46			1		USE	B
per0223063a	WCLCRI	CWW	2/23/2010 20:54			1		USE	C
per0223064a	246055007	CWW	2/23/2010 21:02	950071	10-1545	1	LANL	USE	S
per0223065a	246055008	CWW	2/23/2010 21:10	950071	10-1545	1	LANL	USE	S
per0223066a	246055009	CWW	2/23/2010 21:18	950071	10-1545	1	LANL	USE	S

per0223067a	IPB008	CWW	2/23/2010 21:26	952906	VARIOUS	1	LANL	USE	B
per0223068a	1202042433	CWW	2/23/2010 21:34	952906	VARIOUS	1	LANL	USE	S
per0223069a	1202042434	CWW	2/23/2010 21:42	952906	VARIOUS	1	LANL	USE	S
per0223070a	1202042437	CWW	2/23/2010 21:50	952906	VARIOUS	1	LANL	USE	S
per0223071a	246607001	CWW	2/23/2010 21:58	952906	10-1699-1	1	LANL	USE	S
per0223072a	246607002	CWW	2/23/2010 22:06	952906	10-1699-1	1	LANL	USE	S
per0223073a	246607003	CWW	2/23/2010 22:14	952906	10-1699-1	1	LANL	USE	S
per0223074a	WCLCCV	CWW	2/23/2010 22:22			1		USE	C
per0223075a	IPB009	CWW	2/23/2010 22:31			1		USE	B
per0223076a	WCLCRI	CWW	2/23/2010 22:39			1		USE	C
per0223077a	246607004	CWW	2/23/2010 22:47	952906	10-1699-1	1	LANL	USE	S
per0223078a	246607005	CWW	2/23/2010 22:55	952906	10-1699-1	1	LANL	USE	S
per0223079a	246607006	CWW	2/23/2010 23:03	952906	10-1699-1	1	LANL	USE	S
per0223080a	246610001	CWW	2/23/2010 23:11	952906	10-1701	1	LANL	USE	S
per0223081a	246610002	CWW	2/23/2010 23:19	952906	10-1701	1	LANL	USE	S
per0223082a	246610003	CWW	2/23/2010 23:27	952906	10-1701	1	LANL	USE	S
per0223083a	246611001	CWW	2/23/2010 23:35	952906	10-1702	1	LANL	USE	S
per0223084a	246611002	CWW	2/23/2010 23:43	952906	10-1702	1	LANL	USE	S
per0223085a	246611003	CWW	2/23/2010 23:51	952906	10-1702	1	LANL	USE	S
per0223086a	WCLCCV	CWW	2/23/2010 23:59			1		USE	C
per0223087a	IPB010	CWW	2/24/2010 0:08			1		USE	B
per0223088a	WCLCRI	CWW	2/24/2010 0:16			1		USE	C
per0223089a	246679001	CWW	2/24/2010 0:24	952906	10-1704	1	LANL	USE	S
per0223090a	1202042435	CWW	2/24/2010 0:32	952906	10-1704	1	LANL	USE	S
per0223091a	1202042436	CWW	2/24/2010 0:40	952906	10-1704	1	LANL	USE	S
per0223092a	246679002	CWW	2/24/2010 0:48	952906	10-1704	1	LANL	USE	S
per0223093a	246679003	CWW	2/24/2010 0:56	952906	10-1704	1	LANL	USE	S
per0223094a	246679004	CWW	2/24/2010 1:04	952906	10-1704	1	LANL	USE	S
per0223095a	246679005	CWW	2/24/2010 1:12	952906	10-1704	1	LANL	USE	S
per0223096a	246679006	CWW	2/24/2010 1:20	952906	10-1704	1	LANL	USE	S
per0223097a	246679007	CWW	2/24/2010 1:28	952906	10-1704	1	LANL	USE	S
per0223098a	246679008	CWW	2/24/2010 1:36	952906	10-1704	1	LANL	USE	S
per0223099a	WCLCCV	CWW	2/24/2010 1:44			1		USE	C
per0223100a	IPB011	CWW	2/24/2010 1:52			1		USE	B
per0223101a	WCLCRI	CWW	2/24/2010 2:00			1		USE	C
per0223102a	1202042671	CWW	2/24/2010 2:08	952990	VARIOUS	1	LANL	USE	S
per0223103a	1202042672	CWW	2/24/2010 2:17	952990	VARIOUS	1	LANL	USE	S

per0223104a	1202042675	CWW	2/24/2010 2:25	952990	VARIOUS	1	LANL	USE	S
per0223105a	246719001	CWW	2/24/2010 2:33	952990	10-1729	1	LANL	USE	S
per0223106a	1202042673	CWW	2/24/2010 2:41	952990	10-1729	1	LANL	USE	S
per0223107a	1202042674	CWW	2/24/2010 2:49	952990	10-1729	1	LANL	USE	S
per0223108a	246719002	CWW	2/24/2010 2:57	952990	10-1729	1	LANL	USE	S
per0223109a	246719003	CWW	2/24/2010 3:05	952990	10-1729	1	LANL	USE	S
per0223110a	WCLCCV	CWW	2/24/2010 3:13			1		USE	C
per0223111a	IPB012	CWW	2/24/2010 3:21			1		USE	B
per0223112a	WCLCRI	CWW	2/24/2010 3:29			1		USE	C
per0223113a	246719004	CWW	2/24/2010 3:37	952990	10-1729	1	LANL	USE	S
per0223114a	246719005	CWW	2/24/2010 3:46	952990	10-1729	1	LANL	USE	S
per0223115a	246719006	CWW	2/24/2010 3:54	952990	10-1729	1	LANL	USE	S
per0223116a	246719007	CWW	2/24/2010 4:02	952990	10-1729	1	LANL	USE	S
per0223117a	246719008	CWW	2/24/2010 4:10	952990	10-1729	1	LANL	USE	S
per0223118a	246741001	CWW	2/24/2010 4:18	952990	10-1711	1	LANL	USE	S
per0223119a	246741002	CWW	2/24/2010 4:26	952990	10-1711	1	LANL	USE	S
per0223120a	246741003	CWW	2/24/2010 4:34	952990	10-1711	1	LANL	USE	S
per0223121a	WCLCCV	CWW	2/24/2010 4:42			1		USE	C
per0223122a	IPB013	CWW	2/24/2010 4:50			1		USE	B
per0223123a	WCLCRI	CWW	2/24/2010 4:58			1		USE	C
per0223124a	246741004	CWW	2/24/2010 5:06	952990	10-1711	1	LANL	USE	S
per0223125a	246741005	CWW	2/24/2010 5:14	952990	10-1711	1	LANL	USE	S
per0223126a	246741006	CWW	2/24/2010 5:22	952990	10-1711	1	LANL	USE	S
per0223127a	246741007	CWW	2/24/2010 5:30	952990	10-1711	1	LANL	USE	S
per0223128a	246741008	CWW	2/24/2010 5:38	952990	10-1711	1	LANL	USE	S
per0223129a	246741009	CWW	2/24/2010 5:46	952990	10-1711	1	LANL	USE	S
per0223130a	246741010	CWW	2/24/2010 5:54	952990	10-1711	1	LANL	USE	S
per0223131a	246741011	CWW	2/24/2010 6:02	952990	10-1711	1	LANL	USE	S
per0223132a	WCLCCV	CWW	2/24/2010 6:11			1		USE	C
per0223133a	IPB014	CWW	2/24/2010 6:19			1		USE	B
per0223134a	WCLCRI	CWW	2/24/2010 6:27			1		USE	C

## 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 10-1704**

**Sample Analysis**

<b>Sample ID</b>	<b>Client ID</b>
246679001	RE15-10-8185
246679002	RE15-10-8183
246679003	RE15-10-8179
246679004	RE15-10-8184
246679005	RE15-10-8180
246679006	RE15-10-8181
246679007	RE15-10-8182
246679008	RE15-10-8210
1202039807	Method Blank (MB) <b>ICP</b>
1202039808	Laboratory Control Sample (LCS)
1202039811	246679001(RE15-10-8185L) Serial Dilution (SD)
1202039809	246679001(RE15-10-8185D) Sample Duplicate (DUP)
1202039810	246679001(RE15-10-8185S) Matrix Spike (MS)
1202039812	246679001(RE15-10-8185SD) Matrix Spike Duplicate (MSD)
1202041640	Method Blank (MB) <b>ICP-MS</b>
1202041645	Laboratory Control Sample (LCS)
1202041642	246679001(RE15-10-8185L) Serial Dilution (SD)
1202041641	246679001(RE15-10-8185D) Sample Duplicate (DUP)
1202041643	246679001(RE15-10-8185S) Matrix Spike (MS)
1202041644	246679001(RE15-10-8185SD) Matrix Spike Duplicate (MSD)
1202047366	Method Blank (MB) <b>CVAA</b>
1202047367	Laboratory Control Sample (LCS)
1202047370	246754001(RE46-10-12680L) Serial Dilution (SD)
1202047368	246754001(RE46-10-12680D) Sample Duplicate (DUP)
1202047369	246754001(RE46-10-12680S) Matrix Spike (MS)
1202047371	246754001(RE46-10-12680SD) Matrix Spike Duplicate (MSD)

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

### **Method/Analysis Information**

**Analytical Batch:** 951773, 952564 and 954989  
**Prep Batch :** 951772, 952563 and 954986  
**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 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The 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 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 standard(s) met the referenced advisory control limits.

### **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: 246679001 (RE15-10-8185)-ICP and ICP-MS and 246754001 (RE46-10-12680)-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. The MS met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of magnesium, potassium, beryllium, nickel, selenium, arsenic, thallium and mercury 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 magnesium, potassium and selenium as indicated by the "N" qualifiers.

**MS/MSD Relative Percent Difference (RPD) Statement**

The relative percent difference (RPD) obtained from the designated matrix spike duplicate (MSD) is evaluated based on acceptance criteria of 20%. The RPD between qualifying elements results in the MS and MSD were within the acceptance limits of 20% with the exception of beryllium as indicated by the “\*” qualifier.

**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 aluminum and chromium 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 DER was generated for this SDG: DER ID 795284, 800468 and 801573. A copy is included in the Miscellaneous Data section of this package.

#### **Additional Comments**

Additional comments were not required for this SDG.

#### **Certification Statement**

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

#### **Review Validation:**

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

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

Reviewer: Nik DeLeon Date: 3.9.10

# Sample Data Summary

**METALS**  
**-I-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679001

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8185

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 91

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4670000	ug/kg	*	7300	21500	21500	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-36-0	Antimony	1070	ug/kg	U	354	1070	1070	1	P	HSC	03/09/10 10:05	030810B-2	951773
7440-38-2	Arsenic	728	ug/kg	JN	210	1050	1050	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-39-3	Barium	22200	ug/kg		107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-41-7	Beryllium	3140	ug/kg	*N	21	105	105	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-43-9	Cadmium	249	ug/kg	J	107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-70-2	Calcium	1010000	ug/kg		8590	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-47-3	Chromium	4040	ug/kg	*	161	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-48-4	Cobalt	686	ug/kg		161	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-50-8	Copper	2520	ug/kg		322	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-89-6	Iron	6590000	ug/kg		8590	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-92-1	Lead	4190	ug/kg		268	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-95-4	Magnesium	722000	ug/kg	N	9130	32200	32200	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-96-5	Manganese	243000	ug/kg		215	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773
7439-97-6	Mercury	12.8	ug/kg	U	4.36	12.8	12.8	1	AV	JXL1	02/24/10 11:40	022410S1-4	954989
7440-02-0	Nickel	2500	ug/kg	N	105	420	420	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-09-7	Potassium	545000	ug/kg	N	6870	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7782-49-2	Selenium	1050	ug/kg	UN	525	1050	1050	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-22-4	Silver	128	ug/kg	J	107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-23-5	Sodium	58900	ug/kg		7520	26800	26800	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-28-0	Thallium	65.9	ug/kg	JN	62.9	210	210	2	MS	BAJ	03/06/10 22:47	100306-3	952564
7440-62-2	Vanadium	4980	ug/kg		107	537	537	1	P	HSC	02/26/10 20:16	022610D-1	951773
7440-66-6	Zinc	44400	ug/kg		354	1070	1070	1	P	HSC	02/26/10 20:16	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.512	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.524	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.514	g	30	mL	02/23/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679002

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8183

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 96.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1050000	ug/kg	*	6440	18900	18900	1	P	IISC	02/26/10 20:42	022610D-1	951773
7440-36-0	Antimony	947	ug/kg	U	312	947	947	1	P	HSC	03/09/10 10:55	030810B-2	951773
7440-38-2	Arsenic	634	ug/kg	JN	201	1000	1000	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-39-3	Barium	14400	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-41-7	Beryllium	1540	ug/kg	*N	20.1	100	100	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-43-9	Cadmium	179	ug/kg	J	94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-70-2	Calcium	292000	ug/kg		7570	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-47-3	Chromium	11300	ug/kg	*	142	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-48-4	Cobalt	1240	ug/kg		142	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-50-8	Copper	5130	ug/kg		284	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-89-6	Iron	6090000	ug/kg		7570	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-92-1	Lead	4830	ug/kg		237	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-95-4	Magnesium	166000	ug/kg	N	8050	28400	28400	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-96-5	Manganese	357000	ug/kg		189	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773
7439-97-6	Mercury	11.3	ug/kg	U	3.84	11.3	11.3	1	AV	JXL1	02/24/10 11:42	022410S1-4	954989
7440-02-0	Nickel	952	ug/kg	N	100	402	402	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-09-7	Potassium	287000	ug/kg	N	6060	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7782-49-2	Selenium	1000	ug/kg	UN	502	1000	1000	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-22-4	Silver	647	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-23-5	Sodium	162000	ug/kg		6630	23700	23700	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-28-0	Thallium	201	ug/kg	UN	60.2	201	201	2	MS	BAJ	03/06/10 23:13	100306-3	952564
7440-62-2	Vanadium	2770	ug/kg		94.7	473	473	1	P	HSC	02/26/10 20:42	022610D-1	951773
7440-66-6	Zinc	44800	ug/kg		312	947	947	1	P	HSC	02/26/10 20:42	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.545	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.514	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.548	g	30	mL	02/23/10	TXB3

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679003

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8179

LEVEL: Low

DATE RECEIVED 10-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	288000	ug/kg	*	6730	19800	19800	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-36-0	Antimony	990	ug/kg	U	327	990	990	1	P	HSC	03/09/10 11:02	030810B-2	951773
7440-38-2	Arsenic	1010	ug/kg	UN	202	1010	1010	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-39-3	Barium	8510	ug/kg		99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-41-7	Beryllium	244	ug/kg	+N	20.2	101	101	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-43-9	Cadmium	212	ug/kg	J	99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-70-2	Calcium	414000	ug/kg		7920	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-47-3	Chromium	2230	ug/kg	*	148	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-48-4	Cobalt	387	ug/kg	J	148	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-50-8	Copper	1640	ug/kg		297	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-89-6	Iron	6490000	ug/kg		7920	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-92-1	Lead	2470	ug/kg		247	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-95-4	Magnesium	111000	ug/kg	N	8410	29700	29700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-96-5	Manganese	202000	ug/kg		198	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773
7439-97-6	Mercury	10.4	ug/kg	U	3.52	10.4	10.4	1	AV	JXL	02/24/10 11:44	022410S1-4	954989
7440-02-0	Nickel	950	ug/kg	N	101	404	404	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-09-7	Potassium	138000	ug/kg	N	6330	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7782-49-2	Selenium	1010	ug/kg	UN	505	1010	1010	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-22-4	Silver	165	ug/kg	J	99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-23-5	Sodium	69000	ug/kg		6930	24700	24700	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-28-0	Thallium	202	ug/kg	UN	60.6	202	202	2	MS	BAJ	03/06/10 23:17	100306-3	952564
7440-62-2	Vanadium	2300	ug/kg		99	495	495	1	P	HSC	02/26/10 20:46	022610D-1	951773
7440-66-6	Zinc	43100	ug/kg		327	990	990	1	P	HSC	02/26/10 20:46	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.513	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.503	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.588	g	30	mL	02/23/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679004

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8184

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 97.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4010000	ug/kg	*	6970	20500	20500	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-36-0	Antimony	1030	ug/kg	U	338	1030	1030	1	P	HSC	03/09/10 11:09	030810B-2	951773
7440-38-2	Arsenic	1090	ug/kg	N	206	1030	1030	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-39-3	Barium	19700	ug/kg		103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-41-7	Beryllium	8680	ug/kg	*N	20.6	103	103	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-43-9	Cadmium	206	ug/kg	J	103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-70-2	Calcium	950000	ug/kg		8200	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-47-3	Chromium	5450	ug/kg	*	154	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-48-4	Cobalt	584	ug/kg		154	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-50-8	Copper	2850	ug/kg		308	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-89-6	Iron	5910000	ug/kg		8200	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-92-1	Lead	3860	ug/kg		256	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-95-4	Magnesium	632000	ug/kg	N	8720	30800	30800	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-96-5	Manganese	194000	ug/kg		205	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773
7439-97-6	Mercury	10.5	ug/kg	J	3.85	11.3	11.3	1	AV	JXL1	02/24/10 11:46	022410S1-4	954989
7440-02-0	Nickel	3530	ug/kg	N	103	412	412	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-09-7	Potassium	438000	ug/kg	N	6560	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7782-49-2	Selenium	1030	ug/kg	UN	515	1030	1030	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-22-4	Silver	111	ug/kg	J	103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-23-5	Sodium	50700	ug/kg		7180	25600	25600	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-28-0	Thallium	83.2	ug/kg	JN	61.8	206	206	2	MS	BAJ	03/06/10 23:21	100306-3	952564
7440-62-2	Vanadium	4350	ug/kg		103	513	513	1	P	HSC	02/26/10 20:49	022610D-1	951773
7440-66-6	Zinc	40500	ug/kg		338	1030	1030	1	P	HSC	02/26/10 20:49	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.502	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.5	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.545	g	30	ml.	02/23/10	TXB3



**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679005

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8180

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 98.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	276000	ug/kg	*	6460	19000	19000	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-36-0	Antimony	950	ug/kg	U	313	950	950	1	P	HSC	03/09/10 11:16	030810B-2	951773
7440-38-2	Arsenic	985	ug/kg	UN	197	985	985	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-39-3	Barium	8470	ug/kg		95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-41-7	Beryllium	326	ug/kg	*N	19.7	98.5	98.5	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-43-9	Cadmium	216	ug/kg	J	95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-70-2	Calcium	254000	ug/kg		7600	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-47-3	Chromium	1720	ug/kg	*	142	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-48-4	Cobalt	444	ug/kg	J	142	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-50-8	Copper	1850	ug/kg		285	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-89-6	Iron	6980000	ug/kg		7600	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-92-1	Lead	2930	ug/kg		237	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-95-4	Magnesium	129000	ug/kg	N	8070	28500	28500	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-96-5	Manganese	222000	ug/kg		190	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773
7439-97-6	Mercury	11.4	ug/kg	U	3.87	11.4	11.4	1	AV	JXL1	02/24/10 11:52	022410S1-4	954989
7440-02-0	Nickel	635	ug/kg	N	98.5	394	394	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-09-7	Potassium	124000	ug/kg	N	6080	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7782-49-2	Selenium	985	ug/kg	UN	492	985	985	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-22-4	Silver	121	ug/kg	J	95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-23-5	Sodium	58500	ug/kg		6650	23700	23700	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-28-0	Thallium	197	ug/kg	UN	59.1	197	197	2	MS	BAJ	03/06/10 23:24	100306-3	952564
7440-62-2	Vanadium	2170	ug/kg		95	475	475	1	P	HSC	02/26/10 20:53	022610D-1	951773
7440-66-6	Zinc	46100	ug/kg		313	950	950	1	P	HSC	02/26/10 20:53	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.535	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.516	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.536	g	30	mL	02/23/10	TXB3

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679006

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8181

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 98.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	780000	ug/kg	*	6890	20300	20300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	334	1010	1010	1	P	HSC	03/09/10 11:23	030810B-2	951773
7440-38-2	Arsenic	1020	ug/kg	UN	203	1020	1020	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-39-3	Barium	16100	ug/kg		101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-41-7	Beryllium	286	ug/kg	*N	20.3	102	102	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-43-9	Cadmium	350	ug/kg	J	101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-70-2	Calcium	586000	ug/kg		8110	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-47-3	Chromium	3340	ug/kg	*	152	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-48-4	Cobalt	595	ug/kg		152	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-50-8	Copper	1980	ug/kg		304	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-89-6	Iron	8080000	ug/kg		8110	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-92-1	Lead	4650	ug/kg		253	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-95-4	Magnesium	635000	ug/kg	N	8610	30400	30400	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-96-5	Manganese	325000	ug/kg		203	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773
7439-97-6	Mercury	11.6	ug/kg	U	3.95	11.6	11.6	1	AV	JXL1	02/24/10 11:54	022410S1-4	954989
7440-02-0	Nickel	678	ug/kg	N	102	407	407	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-09-7	Potassium	536000	ug/kg	N	6490	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7782-49-2	Selenium	1020	ug/kg	UN	509	1020	1020	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-22-4	Silver	162	ug/kg	J	101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-23-5	Sodium	161000	ug/kg		7090	25300	25300	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-28-0	Thallium	203	ug/kg	UN	61	203	203	2	MS	BAJ	03/06/10 23:28	100306-3	952564
7440-62-2	Vanadium	3860	ug/kg		101	507	507	1	P	HSC	02/26/10 20:57	022610D-1	951773
7440-66-6	Zinc	59400	ug/kg		334	1010	1010	1	P	HSC	02/26/10 20:57	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.503	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.501	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.526	g	30	mL	02/23/10	TXB3

**METALS**  
**-1-**  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679007

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8182

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 97.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1500000	ug/kg	*	6860	20200	20200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	333	1010	1010	1	P	HSC	03/09/10 11:30	030810B-2	951773
7440-38-2	Arsenic	384	ug/kg	JN	189	944	944	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-39-3	Barium	16300	ug/kg		101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-41-7	Beryllium	779	ug/kg	*N	18.9	94.4	94.4	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-43-9	Cadmium	165	ug/kg	J	101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-70-2	Calcium	671000	ug/kg		8070	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-47-3	Chromium	24800	ug/kg	*	151	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-48-4	Cobalt	628	ug/kg		151	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-50-8	Copper	2610	ug/kg		303	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-89-6	Iron	6350000	ug/kg		8070	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-92-1	Lead	3510	ug/kg		252	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-95-4	Magnesium	306000	ug/kg	N	8580	30300	30300	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-96-5	Manganese	248000	ug/kg		202	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773
7439-97-6	Mercury	10.4	ug/kg	U	3.53	10.4	10.4	1	AV	JXL1	02/24/10 11:55	022410S1-4	954989
7440-02-0	Nickel	1200	ug/kg	N	94.4	377	377	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-09-7	Potassium	360000	ug/kg	N	6460	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7782-49-2	Selenium	944	ug/kg	UN	472	944	944	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-22-4	Silver	114	ug/kg	J	101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-23-5	Sodium	147000	ug/kg		7060	25200	25200	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-28-0	Thallium	189	ug/kg	UN	56.6	189	189	2	MS	BAJ	03/06/10 23:32	100306-3	952564
7440-62-2	Vanadium	3280	ug/kg		101	504	504	1	P	HSC	02/26/10 21:00	022610D-1	951773
7440-66-6	Zinc	40700	ug/kg		333	1010	1010	1	P	HSC	02/26/10 21:00	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.506	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.541	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.59	g	30	mL	02/23/10	TXB3

**METALS**  
-1-  
**INORGANICS ANALYSIS DATA PACKAGE**

SDG No: 10-1704

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246679008

BASIS: Dry Weight

DATE COLLECTED 05-FEB-10

CLIENT ID: RE15-10-8210

LEVEL: Low

DATE RECEIVED 10-FEB-10

MATRIX: SOIL

%SOLIDS: 93.2

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3990000	ug/kg	*	6870	20200	20200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-36-0	Antimony	1010	ug/kg	U	333	1010	1010	1	P	HSC	03/09/10 11:38	030810B-2	951773
7440-38-2	Arsenic	714	ug/kg	JN	214	1070	1070	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-39-3	Barium	21300	ug/kg		101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-41-7	Beryllium	2460	ug/kg	*N	21.4	107	107	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-43-9	Cadmium	256	ug/kg	J	101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-70-2	Calcium	1180000	ug/kg		8080	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-47-3	Chromium	4610	ug/kg	*	151	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-48-4	Cobalt	875	ug/kg		151	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-50-8	Copper	2910	ug/kg		303	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-89-6	Iron	7600000	ug/kg		8080	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-92-1	Lead	4430	ug/kg		252	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-95-4	Magnesium	777000	ug/kg	N	8580	30300	30300	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-96-5	Manganese	297000	ug/kg		202	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773
7439-97-6	Mercury	16.7	ug/kg		4.2	12.4	12.4	1	AV	JXLJ	02/24/10 11:57	022410S1-4	954989
7440-02-0	Nickel	2430	ug/kg	N	107	429	429	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-09-7	Potassium	578000	ug/kg	N	6460	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7782-49-2	Selenium	1070	ug/kg	UN	536	1070	1070	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-22-4	Silver	153	ug/kg	J	101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-23-5	Sodium	57100	ug/kg		7070	25200	25200	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-28-0	Thallium	214	ug/kg	UN	64.3	214	214	2	MS	BAJ	03/06/10 23:36	100306-3	952564
7440-62-2	Vanadium	5700	ug/kg		101	505	505	1	P	HSC	02/26/10 21:04	022610D-1	951773
7440-66-6	Zinc	50300	ug/kg		333	1010	1010	1	P	HSC	02/26/10 21:04	022610D-1	951773

**Prep Information:**

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
951773	951772	SW846 3050B	0.531	g	50	mL	02/21/10	BCD1
952564	952563	SW846 3050B	0.5	g	50	mL	02/18/10	LYH1
954989	954986	SW846 7471A Prep	0.521	g	30	mL	02/23/10	TXB3

# **Quality Control Summary**

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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	5.21	ug/L	5	ug/L	104.1	90.0 – 110.0	AV	24-FEB-10 10:05	022410S1-4
	Aluminum	4800	ug/L	5000	ug/L	95.9	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Barium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Cadmium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Calcium	4790	ug/L	5000	ug/L	95.8	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Chromium	481	ug/L	500	ug/L	96.1	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Cobalt	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Copper	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Iron	4850	ug/L	5000	ug/L	96.9	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Lead	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Manganese	515	ug/L	500	ug/L	103	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Potassium	2420	ug/L	2500	ug/L	96.7	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Silver	257	ug/L	250	ug/L	102.9	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Sodium	2300	ug/L	2500	ug/L	92.2	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Zinc	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	26-FEB-10 13:09	022610D-1
	Arsenic	49.6	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	06-MAR-10 20:46	100306-3
	Beryllium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	06-MAR-10 20:46	100306-3
	Nickel	52.5	ug/L	50	ug/L	105	90.0 – 110.0	MS	06-MAR-10 20:46	100306-3
	Selenium	51.2	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	06-MAR-10 20:46	100306-3
	Thallium	54	ug/L	50	ug/L	108	90.0 – 110.0	MS	06-MAR-10 20:46	100306-3
	Antimony	530	ug/L	500	ug/L	105.9	90.0 – 110.0	P	08-MAR-10 14:17	030810B-2
CCV01										
	Mercury	5.24	ug/L	5	ug/L	104.8	80.0 – 120.0	AV	24-FEB-10 10:11	022410S1-4
	Aluminum	4550	ug/L	5000	ug/L	91	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Barium	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Cadmium	470	ug/L	500	ug/L	94	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Calcium	4530	ug/L	5000	ug/L	90.6	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Chromium	470	ug/L	500	ug/L	94	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1

## METALS

-2a-

## Initial and Continuing Calibration Verification

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Cobalt	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Copper	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Iron	4610	ug/L	5000	ug/L	92.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Lead	471	ug/L	500	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Magnesium	4700	ug/L	5000	ug/L	94.1	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Manganese	470	ug/L	500	ug/L	94	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Potassium	4940	ug/L	5000	ug/L	98.9	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Silver	471	ug/L	500	ug/L	94.2	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Sodium	9160	ug/L	10000	ug/L	91.6	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Vanadium	474	ug/L	500	ug/L	94.8	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Zinc	475	ug/L	500	ug/L	95	90.0 – 110.0	P	26-FEB-10 13:32	022610D-1
	Arsenic	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	06-MAR-10 21:05	100306-3
	Beryllium	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	06-MAR-10 21:05	100306-3
	Nickel	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	06-MAR-10 21:05	100306-3
	Selenium	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	06-MAR-10 21:05	100306-3
	Thallium	53.8	ug/L	50	ug/L	107.7	90.0 – 110.0	MS	06-MAR-10 21:05	100306-3
	Antimony	540	ug/L	500	ug/L	108	90.0 – 110.0	P	08-MAR-10 15:05	030810B-2
CCV02										
	Mercury	5.13	ug/L	5	ug/L	102.6	80.0 – 120.0	AV	24-FEB-10 10:35	022410S1-4
	Aluminum	4610	ug/L	5000	ug/L	92.2	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Barium	480	ug/L	500	ug/L	96	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Cadmium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Calcium	4700	ug/L	5000	ug/L	93.9	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Chromium	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Cobalt	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Copper	479	ug/L	500	ug/L	95.9	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Iron	4640	ug/L	5000	ug/L	92.7	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Magnesium	4700	ug/L	5000	ug/L	94	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Manganese	480	ug/L	500	ug/L	95.9	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Potassium	4780	ug/L	5000	ug/L	95.6	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Silver	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Sodium	9220	ug/L	10000	ug/L	92.2	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Vanadium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Zinc	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	26-FEB-10 13:52	022610D-1
	Arsenic	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	06-MAR-10 21:26	100306-3
	Beryllium	53.2	ug/L	50	ug/L	106.3	90.0 – 110.0	MS	06-MAR-10 21:26	100306-3
	Nickel	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	06-MAR-10 21:26	100306-3
	Selenium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	06-MAR-10 21:26	100306-3
	Thallium	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	06-MAR-10 21:26	100306-3
	Antimony	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	08-MAR-10 15:22	030810B-2
CCV03										
	Mercury	5.42	ug/L	5	ug/L	108.4	80.0 – 120.0	AV	24-FEB-10 10:59	022410S1-4
	Aluminum	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Barium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Cadmium	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Calcium	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Chromium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Cobalt	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Copper	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Iron	4810	ug/L	5000	ug/L	96.1	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Lead	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Magnesium	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Manganese	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Potassium	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Silver	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Sodium	9550	ug/L	10000	ug/L	95.5	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Vanadium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Zinc	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	26-FEB-10 14:36	022610D-1
	Arsenic	48.9	ug/L	50	ug/L	97.7	90.0 – 110.0	MS	06-MAR-10 22:00	100306-3



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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Beryllium	54.7	ug/L	50	ug/L	109.3	90.0 – 110.0	MS	06-MAR-10 22:00	100306-3
	Nickel	52.7	ug/L	50	ug/L	105.4	90.0 – 110.0	MS	06-MAR-10 22:00	100306-3
	Selenium	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	06-MAR-10 22:00	100306-3
	Thallium	53.8	ug/L	50	ug/L	107.6	90.0 – 110.0	MS	06-MAR-10 22:00	100306-3
	Antimony	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	08-MAR-10 15:50	030810B-2
CCV04	Mercury	5.22	ug/L	5	ug/L	104.5	80.0 – 120.0	AV	24-FEB-10 11:22	022410S1-4
	Aluminum	4880	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Barium	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Cadmium	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Calcium	4910	ug/L	5000	ug/L	98.3	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Chromium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Cobalt	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Copper	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Iron	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Lead	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Magnesium	4930	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Manganese	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Potassium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Silver	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Sodium	9660	ug/L	10000	ug/L	96.6	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Vanadium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Zinc	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	26-FEB-10 15:17	022610D-1
	Arsenic	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	06-MAR-10 22:33	100306-3
	Beryllium	54	ug/L	50	ug/L	108	90.0 – 110.0	MS	06-MAR-10 22:33	100306-3
	Nickel	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	06-MAR-10 22:33	100306-3
	Selenium	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	06-MAR-10 22:33	100306-3
	Thallium	54.1	ug/L	50	ug/L	108.2	90.0 – 110.0	MS	06-MAR-10 22:33	100306-3
	Antimony	523	ug/L	500	ug/L	104.7	90.0 – 110.0	P	08-MAR-10 17:13	030810B-2

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
CCV05										
	Mercury	5.43	ug/L	5	ug/L	108.5	80.0 – 120.0	AV	24-FEB-10 11:47	022410S1-4
	Aluminum	4960	ug/L	5000	ug/L	99.2	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Barium	495	ug/L	500	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Cadmium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Calcium	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Chromium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Copper	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Iron	4890	ug/L	5000	ug/L	97.8	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Lead	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Magnesium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Manganese	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Potassium	5080	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Silver	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Sodium	9900	ug/L	10000	ug/L	99	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Vanadium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Zinc	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	26-FEB-10 16:04	022610D-1
	Arsenic	49.2	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	06-MAR-10 23:06	100306-3
	Beryllium	52.9	ug/L	50	ug/L	105.8	90.0 – 110.0	MS	06-MAR-10 23:06	100306-3
	Nickel	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	06-MAR-10 23:06	100306-3
	Selenium	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	06-MAR-10 23:06	100306-3
	Thallium	52.8	ug/L	50	ug/L	105.7	90.0 – 110.0	MS	06-MAR-10 23:06	100306-3
	Antimony	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	08-MAR-10 18:24	030810B-2
CCV06										
	Mercury	5.3	ug/L	5	ug/L	105.9	80.0 – 120.0	AV	24-FEB-10 12:11	022410S1-4
	Aluminum	4730	ug/L	5000	ug/L	94.7	90.0 – 110.0	P	26-FEB-10 16:19	022610D-1
	Barium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	26-FEB-10 16:19	022610D-1
	Cadmium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	26-FEB-10 16:19	022610D-1
	Calcium	4780	ug/L	5000	ug/L	95.7	90.0 – 110.0	P	26-FEB-10 16:19	022610D-1
	Chromium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	26-FEB-10 16:19	022610D-1

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Cobalt	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Copper	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Iron	4790	ug/L	5000	ug/L	95.8	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Lead	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Magnesium	4850	ug/L	5000	ug/L	97	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Manganese	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Potassium	4860	ug/L	5000	ug/L	97.2	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Silver	495	ug/L	500	ug/L	98.9	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Sodium	9730	ug/L	10000	ug/L	97.3	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Vanadium	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Zinc	496	ug/L	500	ug/L	99.1	90.0 - 110.0	P	26-FEB-10 16:19	022610D-1
	Arsenic	50.1	ug/L	50	ug/L	100.1	90.0 - 110.0	MS	06-MAR-10 23:39	100306-3
	Beryllium	53.8	ug/L	50	ug/L	107.6	90.0 - 110.0	MS	06-MAR-10 23:39	100306-3
	Nickel	51.8	ug/L	50	ug/L	103.7	90.0 - 110.0	MS	06-MAR-10 23:39	100306-3
	Selenium	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	06-MAR-10 23:39	100306-3
	Thallium	53.2	ug/L	50	ug/L	106.4	90.0 - 110.0	MS	06-MAR-10 23:39	100306-3
	Antimony	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	08-MAR-10 19:38	030810B-2
CCV07	Aluminum	4880	ug/L	5000	ug/L	97.7	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Barium	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Cadmium	497	ug/L	500	ug/L	99.5	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Calcium	4880	ug/L	5000	ug/L	97.6	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Cobalt	503	ug/L	500	ug/L	100.5	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Copper	503	ug/L	500	ug/L	100.7	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Iron	4850	ug/L	5000	ug/L	97.1	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Lead	499	ug/L	500	ug/L	99.7	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Magnesium	4940	ug/L	5000	ug/L	98.7	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Manganese	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1
	Potassium	5010	ug/L	5000	ug/L	100.1	90.0 - 110.0	P	26-FEB-10 17:21	022610D-1

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Silver	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 17:21	022610D-1
	Sodium	9870	ug/L	10000	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 17:21	022610D-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-FEB-10 17:21	022610D-1
	Zinc	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-FEB-10 17:21	022610D-1
	Antimony	536	ug/L	500	ug/L	107.2	90.0 – 110.0	P	08-MAR-10 20:41	030810B-2
CCV08										
	Aluminum	4950	ug/L	5000	ug/L	99	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Barium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Cadmium	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Copper	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Iron	4930	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Lead	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Magnesium	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Manganese	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Silver	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Sodium	9850	ug/L	10000	ug/L	98.5	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Vanadium	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Zinc	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-FEB-10 17:48	022610D-1
	Antimony	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	08-MAR-10 21:44	030810B-2
CCV09										
	Aluminum	4730	ug/L	5000	ug/L	94.7	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Barium	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Cadmium	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Calcium	4820	ug/L	5000	ug/L	96.4	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Chromium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Cobalt	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1

## METALS

-2a-

## Initial and Continuing Calibration Verification

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
CCV10	Copper	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Iron	4740	ug/L	5000	ug/L	94.8	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Lead	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Magnesium	4860	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Manganese	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Potassium	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Silver	485	ug/L	500	ug/L	97	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Sodium	9200	ug/L	10000	ug/L	92	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Vanadium	489	ug/L	500	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Zinc	490	ug/L	500	ug/L	97.9	90.0 – 110.0	P	26-FEB-10 18:21	022610D-1
	Antimony	525	ug/L	500	ug/L	105	90.0 – 110.0	P	08-MAR-10 22:46	030810B-2
CCV10	Aluminum	4750	ug/L	5000	ug/L	95	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Barium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Cadmium	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Calcium	4870	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Chromium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Cobalt	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Copper	478	ug/L	500	ug/L	95.5	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Iron	4720	ug/L	5000	ug/L	94.3	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Lead	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Magnesium	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Manganese	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Potassium	4980	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Silver	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Sodium	9020	ug/L	10000	ug/L	90.2	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Vanadium	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Zinc	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	26-FEB-10 18:46	022610D-1
	Antimony	534	ug/L	500	ug/L	106.9	90.0 – 110.0	P	08-MAR-10 23:50	030810B-2

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
CCV11										
	Aluminum	5040	ug/L	5000	ug/L	100.9	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Barium	520	ug/L	500	ug/L	104	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Cadmium	523	ug/L	500	ug/L	104.5	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Calcium	5140	ug/L	5000	ug/L	102.8	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Chromium	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Cobalt	522	ug/L	500	ug/L	104.5	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Copper	509	ug/L	500	ug/L	101.7	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Iron	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Lead	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Magnesium	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Manganese	527	ug/L	500	ug/L	105.3	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Potassium	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Silver	512	ug/L	500	ug/L	102.4	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Sodium	9550	ug/L	10000	ug/L	95.5	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Vanadium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Zinc	522	ug/L	500	ug/L	104.3	90.0 - 110.0	P	26-FEB-10 19:26	022610D-1
	Antimony	544	ug/L	500	ug/L	108.8	90.0 - 110.0	P	09-MAR-10 00:52	030810B-2
CCV12										
	Aluminum	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Barium	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Cadmium	515	ug/L	500	ug/L	103.1	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Chromium	510	ug/L	500	ug/L	102	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Cobalt	515	ug/L	500	ug/L	103	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Copper	502	ug/L	500	ug/L	100.4	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Iron	4990	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Lead	513	ug/L	500	ug/L	102.7	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Magnesium	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Manganese	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1
	Potassium	5250	ug/L	5000	ug/L	104.9	90.0 - 110.0	P	26-FEB-10 20:03	022610D-1

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Silver	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	26-FEB-10 20:03	022610D-1
	Sodium	9500	ug/L	10000	ug/L	95	90.0 – 110.0	P	26-FEB-10 20:03	022610D-1
	Vanadium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	26-FEB-10 20:03	022610D-1
	Zinc	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	26-FEB-10 20:03	022610D-1
	Antimony	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	09-MAR-10 01:47	030810B-2
CCV13										
	Aluminum	4900	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Barium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Cadmium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Calcium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Chromium	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Copper	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Iron	4830	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Lead	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Magnesium	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Manganese	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Potassium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Silver	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Sodium	9190	ug/L	10000	ug/L	91.9	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Zinc	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	26-FEB-10 20:35	022610D-1
	Antimony	545	ug/L	500	ug/L	108.9	90.0 – 110.0	P	09-MAR-10 03:05	030810B-2
CCV14										
	Aluminum	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Barium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Cadmium	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Chromium	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Cobalt	515	ug/L	500	ug/L	103	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1

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

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Iron	4960	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Lead	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Magnesium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Manganese	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Potassium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Silver	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Sodium	9350	ug/L	10000	ug/L	93.6	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Vanadium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Zinc	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	26-FEB-10 21:08	022610D-1
	Antimony	544	ug/L	500	ug/L	108.9	90.0 – 110.0	P	09-MAR-10 04:23	030810B-2
CCV15										
	Antimony	549	ug/L	500	ug/L	109.7	90.0 – 110.0	P	09-MAR-10 05:27	030810B-2
CCV16										
	Antimony	550	ug/L	500	ug/L	110	90.0 – 110.0	P	09-MAR-10 06:10	030810B-2
CCV17										
	Antimony	539	ug/L	500	ug/L	107.9	90.0 – 110.0	P	09-MAR-10 07:17	030810B-2
CCV18										
	Antimony	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	09-MAR-10 07:36	030810B-2
CCV19										
	Antimony	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	09-MAR-10 08:39	030810B-2
CCV20										
	Antimony	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	09-MAR-10 09:36	030810B-2
CCV21										
	Antimony	527	ug/L	500	ug/L	105.4	90.0 – 110.0	P	09-MAR-10 10:40	030810B-2
CCV22										
	Antimony	523	ug/L	500	ug/L	104.5	90.0 – 110.0	P	09-MAR-10 11:45	030810B-2



**METALS**  
**-2b-**  
**CRDL Standard for AA & ICP**

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS5,MER536,OPTIMA1,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	.229	ug/L	.2	ug/L	114.6	70.0 – 130.0	AV	24-FEB-10 10:09	022410S1-4
	Nickel	2.16	ug/L	2	ug/L	108	70.0 – 130.0	MS	06-MAR-10 20:54	100306-3
	Thallium	1.29	ug/L	1	ug/L	129	70.0 – 130.0	MS	06-MAR-10 20:54	100306-3
	Beryllium	.533	ug/L	.5	ug/L	106.6	70.0 – 130.0	MS	06-MAR-10 20:54	100306-3
	Arsenic	6.05	ug/L	5	ug/L	121	70.0 – 130.0	MS	06-MAR-10 20:54	100306-3
	Selenium	5.7	ug/L	5	ug/L	113.9	70.0 – 130.0	MS	06-MAR-10 20:54	100306-3
PQL01										
	Aluminum	191	ug/L	200	ug/L	95.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Magnesium	304	ug/L	300	ug/L	101.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Potassium	167	ug/L	150	ug/L	111.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Zinc	8.74	ug/L	10	ug/L	87.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Vanadium	4.92	ug/L	5	ug/L	98.3	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Copper	10.1	ug/L	10	ug/L	101.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Cobalt	4.4	ug/L	5	ug/L	88	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Chromium	4.08	ug/L	5	ug/L	81.5	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Cadmium	4.8	ug/L	5	ug/L	96	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Barium	4.8	ug/L	5	ug/L	96	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Sodium	292	ug/L	300	ug/L	97.2	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Silver	5.26	ug/L	5	ug/L	105.2	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Calcium	194	ug/L	200	ug/L	97	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Manganese	9.87	ug/L	10	ug/L	98.7	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Lead	8.47	ug/L	10	ug/L	84.7	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Iron	91.4	ug/L	100	ug/L	91.4	70.0 – 130.0	P	26-FEB-10 13:16	022610D-1
	Antimony	9.07	ug/L	10	ug/L	90.8	70.0 – 130.0	P	08-MAR-10 14:31	030810B-2
PQL02										
	Potassium	177	ug/L	150	ug/L	117.8	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Silver	5.23	ug/L	5	ug/L	104.7	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Sodium	365	ug/L	300	ug/L	121.8	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Barium	4.74	ug/L	5	ug/L	94.8	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Manganese	10	ug/L	10	ug/L	100	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1

**METALS**  
**-2b-**  
**CRDL Standard for AA & ICP**

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: ICPMS5,MER536,OPTIMA1,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>
	Magnesium	306	ug/L	300	ug/L	101.9	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Lead	11.9	ug/L	10	ug/L	118.6	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Iron	93.1	ug/L	100	ug/L	93.1	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Aluminum	203	ug/L	200	ug/L	101.5	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Cadmium	5.01	ug/L	5	ug/L	100.2	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Chromium	4.52	ug/L	5	ug/L	90.4	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Cobalt	4.33	ug/L	5	ug/L	86.6	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Copper	10.4	ug/L	10	ug/L	103.8	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Vanadium	5.25	ug/L	5	ug/L	105	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Zinc	8.71	ug/L	10	ug/L	87.1	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1
	Calcium	192	ug/L	200	ug/L	95.9	70.0 – 130.0	P	26-FEB-10 16:08	022610D-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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>
<b>ICB01</b>										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	24-FEB-10 10:07	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 13:13	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:13	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 13:13	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:13	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 13:13	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 13:13	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 13:13	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 13:13	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 13:13	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:13	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 13:13	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 20:50	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 20:50	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 20:50	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 20:50	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 20:50	100306-3
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 14:23	030810B-2
<b>CCB01</b>										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	24-FEB-10 10:13	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 13:35	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:35	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:35	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:35	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:35	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:35	022610D-1

Metals  
-3a-  
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1704

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>
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 13:35	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:35	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 13:35	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 13:35	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 13:35	022610D-1
	Potassium	119.3	+/-250	J	64.0	250	SOL	P	26-FEB-10 13:35	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:35	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 13:35	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:35	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 13:35	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 21:08	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 21:08	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 21:08	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 21:08	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 21:08	100306-3
	Antimony	7.18	+/-10	J	3.3	10.0	SOL	P	08-MAR-10 15:12	030810B-2
<b>CCB02</b>	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	24-FEB-10 10:37	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 13:56	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:56	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:56	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:56	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:56	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 13:56	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 13:56	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 13:56	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 13:56	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 13:56	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 13:56	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 13:56	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:56	022610D-1

**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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>
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 13:56	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 13:56	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 13:56	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 21:30	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 21:30	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 21:30	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 21:30	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 21:30	100306-3
	Antimony	4.63	+/-10	J	3.3	10.0	SOL	P	08-MAR-10 15:29	030810B-2
<b>CCB03</b>	Mercury	-0.073	+/-2	J	0.068	0.2	SOL	AV	24-FEB-10 11:01	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 14:40	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 14:40	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 14:40	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 14:40	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 14:40	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 14:40	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 14:40	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 14:40	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 14:40	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 14:40	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 14:40	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 22:03	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 22:03	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 22:03	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 22:03	100306-3

**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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>
CCB04	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 22:03	100306-3
	Antimony	7.29	+/-10	J	3.3	10.0	SOL	P	08-MAR-10 15:57	030810B-2
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	24-FEB-10 11:25	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 15:20	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 15:20	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 15:20	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 15:20	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 15:20	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 15:20	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 15:20	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 15:20	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 15:20	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 15:20	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 15:20	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 22:36	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 22:36	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 22:36	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 22:36	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 22:36	100306-3
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 17:20	030810B-2
CCB05	Mercury	-0.087	+/-2	J	0.068	0.2	SOL	AV	24-FEB-10 11:50	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 16:11	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:11	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:11	022610D-1

**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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	26-FEB-10 16:11	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 16:11	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 16:11	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 16:11	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 16:11	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 16:11	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 16:11	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 16:11	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 16:11	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:11	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 16:11	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:11	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 16:11	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 23:10	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 23:10	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 23:10	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 23:10	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 23:10	100306-3
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 18:31	030810B-2
<b>CCB06</b>	Mercury	-0.092	+/-2	J	0.068	0.2	SOL	AV	24-FEB-10 12:13	022410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 16:22	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 16:22	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 16:22	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 16:22	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 16:22	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 16:22	022610D-1

**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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	26-FEB-10 16:22	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 16:22	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 16:22	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 16:22	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 16:22	022610D-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	06-MAR-10 23:43	100306-3
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 23:43	100306-3
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 23:43	100306-3
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 23:43	100306-3
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 23:43	100306-3
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 19:45	030810B-2
<b>CCB07</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 17:25	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 17:25	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 17:25	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 17:25	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 17:25	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 17:25	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 17:25	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 17:25	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 17:25	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:25	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 17:25	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 20:48	030810B-2



**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

Contract: LANL01004

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<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>
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 17:52	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 17:52	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 17:52	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 17:52	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 17:52	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 17:52	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 17:52	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 17:52	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 17:52	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 17:52	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 17:52	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 21:51	030810B-2
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 18:24	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:24	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:24	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 18:24	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 18:24	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 18:24	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 18:24	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 18:24	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 18:24	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 18:24	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 18:24	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 18:24	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:24	022610D-1

**Metals**  
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**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

Contract: LANL01004

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<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>
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 18:24	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:24	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 18:24	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 22:53	030810B-2
<b>CCB10</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 18:50	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 18:50	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 18:50	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 18:50	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 18:50	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 18:50	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 18:50	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 18:50	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 18:50	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 18:50	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 18:50	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	08-MAR-10 23:57	030810B-2
<b>CCB11</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 19:30	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 19:30	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 19:30	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 19:30	022610D-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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>
CCB12	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 19:30	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 19:30	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 19:30	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 19:30	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 19:30	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 19:30	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 19:30	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 00:59	030810B-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 20:06	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 20:06	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 20:06	022610D-1
CCB13	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 20:06	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 20:06	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 20:06	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 20:06	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 20:06	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 20:06	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:06	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 20:06	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 01:54	030810B-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 20:38	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:38	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:38	022610D-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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	26-FEB-10 20:38	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 20:38	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 20:38	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 20:38	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 20:38	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 20:38	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 20:38	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 20:38	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 20:38	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:38	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 20:38	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 20:38	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 20:38	022610D-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 03:12	030810B-2
<b>CCB14</b>	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	26-FEB-10 21:11	022610D-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 21:11	022610D-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	26-FEB-10 21:11	022610D-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	26-FEB-10 21:11	022610D-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	26-FEB-10 21:11	022610D-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	26-FEB-10 21:11	022610D-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	26-FEB-10 21:11	022610D-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	26-FEB-10 21:11	022610D-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	26-FEB-10 21:11	022610D-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	26-FEB-10 21:11	022610D-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	26-FEB-10 21:11	022610D-1

**Metals**  
**-3a-**  
**Initial and Continuing Calibration Blank Summary**

SDG No.: 10-1704

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>
CCB15	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 04:30	030810B-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 05:34	030810B-2
CCB16	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 06:17	030810B-2
CCB17	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 07:24	030810B-2
CCB18	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 07:43	030810B-2
CCB19	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 08:46	030810B-2
CCB20	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 09:44	030810B-2
CCB21	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 10:47	030810B-2
CCB22	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	09-MAR-10 11:52	030810B-2

**METALS**  
**-3b-**  
**PREPARATION BLANK SUMMARY**

**SDG NO.** 10-1704  
**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>
1202039807	Aluminum	6390	ug/kg	+/-18800	U	P	6390	18800
	Antimony	310	ug/kg	+/-940	U	P	310	940
	Barium	94	ug/kg	+/-470	U	P	94	470
	Cadmium	94	ug/kg	+/-470	U	P	94	470
	Calcium	7520	ug/kg	+/-23500	U	P	7520	23500
	Chromium	141	ug/kg	+/-470	U	P	141	470
	Cobalt	141	ug/kg	+/-470	U	P	141	470
	Copper	282	ug/kg	+/-940	U	P	282	940
	Iron	7520	ug/kg	+/-23500	U	P	7520	23500
	Lead	-275	ug/kg	+/-940	J	P	235	940
	Magnesium	7990	ug/kg	+/-28200	U	P	7990	28200
	Manganese	188	ug/kg	+/-940	U	P	188	940
	Potassium	6020	ug/kg	+/-23500	U	P	6020	23500
	Silver	94	ug/kg	+/-470	U	P	94	470
	Sodium	6580	ug/kg	+/-23500	U	P	6580	23500
	Vanadium	94	ug/kg	+/-470	U	P	94	470
	Zinc	310	ug/kg	+/-940	U	P	310	940
1202041640	Arsenic	196	ug/kg	+/-978	U	MS	196	978
	Beryllium	19.6	ug/kg	+/-97.8	U	MS	19.6	97.8
	Nickel	97.8	ug/kg	+/-391	U	MS	97.8	391
	Selenium	489	ug/kg	+/-978	U	MS	489	978
	Thallium	58.7	ug/kg	+/-196	U	MS	58.7	196
1202047366	Mercury	-5.24	ug/kg	+/-11.5	J	AV	3.92	11.5

**METALS**  
**-4-**  
**Interference Check Sample**

SDG No: 10-1704

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<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>
<b>ICSA01</b>									
	Aluminum	502000	ug/L	500000	ug/L	100	80.0 – 120.0	26-FEB-10 13:20	022610D-1
	Barium	7.45	ug/L					26-FEB-10 13:20	022610D-1
	Cadmium	6.84	ug/L					26-FEB-10 13:20	022610D-1
	Calcium	470000	ug/L	500000	ug/L	94.1	80.0 – 120.0	26-FEB-10 13:20	022610D-1
	Chromium	-2.56	ug/L					26-FEB-10 13:20	022610D-1
	Cobalt	3.0	ug/L					26-FEB-10 13:20	022610D-1
	Copper	-0.582	ug/L					26-FEB-10 13:20	022610D-1
	Iron	182000	ug/L	200000	ug/L	90.8	80.0 – 120.0	26-FEB-10 13:20	022610D-1
	Lead	-18.9	ug/L					26-FEB-10 13:20	022610D-1
	Magnesium	478000	ug/L	500000	ug/L	95.7	80.0 – 120.0	26-FEB-10 13:20	022610D-1
	Manganese	0.372	ug/L					26-FEB-10 13:20	022610D-1
	Potassium	-27.3	ug/L					26-FEB-10 13:20	022610D-1
	Silver	-0.163	ug/L					26-FEB-10 13:20	022610D-1
	Sodium	-3.9	ug/L					26-FEB-10 13:20	022610D-1
	Vanadium	1.97	ug/L					26-FEB-10 13:20	022610D-1
	Zinc	0.813	ug/L					26-FEB-10 13:20	022610D-1
<b>ICSAB01</b>									
	Aluminum	498000	ug/L	500000	ug/L	99.6	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Barium	481	ug/L	500	ug/L	96.3	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Cadmium	456	ug/L	500	ug/L	91.1	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Calcium	467000	ug/L	500000	ug/L	93.4	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Chromium	466	ug/L	500	ug/L	93.3	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Cobalt	431	ug/L	500	ug/L	86.1	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Copper	537	ug/L	500	ug/L	107	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Iron	180000	ug/L	200000	ug/L	90	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Lead	449	ug/L	500	ug/L	89.7	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Magnesium	474000	ug/L	500000	ug/L	94.8	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Manganese	467	ug/L	500	ug/L	93.4	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Potassium	5250	ug/L	5000	ug/L	105	80.0 – 120.0	26-FEB-10 13:23	022610D-1

## METALS

-4-

## Interference Check Sample

SDG No: 10-1704

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	259	ug/L	250	ug/L	104	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Sodium	4980	ug/L	5000	ug/L	99.6	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Vanadium	501	ug/L	500	ug/L	100	80.0 – 120.0	26-FEB-10 13:23	022610D-1
	Zinc	456	ug/L	500	ug/L	91.2	80.0 – 120.0	26-FEB-10 13:23	022610D-1



## METALS

-4-

## Interference Check Sample

SDG No: 10-1704

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	Antimony	-0.731	ug/L					08-MAR-10 14:38	030810B-2
ICSAB01	Antimony	561	ug/L	500	ug/L	112	80.0 - 120.0	08-MAR-10 14:44	030810B-2

**METALS**  
**-4-**  
**Interference Check Sample**

SDG No: 10-1704

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>
<b>ICSA01</b>									
	Arsenic	0.214	ug/L					06-MAR-10 20:57	100306-3
	Beryllium	0.076	ug/L					06-MAR-10 20:57	100306-3
	Nickel	3.21	ug/L					06-MAR-10 20:57	100306-3
	Selenium	-1.62	ug/L					06-MAR-10 20:57	100306-3
	Thallium	0.028	ug/L					06-MAR-10 20:57	100306-3
<b>ICSAB01</b>									
	Arsenic	19.3	ug/L	20	ug/L	96.5	80.0 - 120.0	06-MAR-10 21:01	100306-3
	Beryllium	17.7	ug/L	20	ug/L	88.7	80.0 - 120.0	06-MAR-10 21:01	100306-3
	Nickel	21.2	ug/L	23.31	ug/L	90.8	80.0 - 120.0	06-MAR-10 21:01	100306-3
	Selenium	17.8	ug/L	20	ug/L	88.9	80.0 - 120.0	06-MAR-10 21:01	100306-3
	Thallium	19.6	ug/L	20	ug/L	98.1	80.0 - 120.0	06-MAR-10 21:01	100306-3

## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-1704 Client ID RE15-10-8185S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91

Sample ID: 246679001 Spike ID: 1202039810

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/kg		7390000		4670000		528000	516	N/A	P
Antimony	ug/kg	75-125	50000		354	U	52800	94.7		P
Barium	ug/kg	75-125	75200		22200		52800	100		P
Cadmium	ug/kg	75-125	52600		249	J	52800	99.3		P
Calcium	ug/kg	75-125	1420000		1010000		528000	77.5		P
Chromium	ug/kg	75-125	59400		4040		52800	105		P
Cobalt	ug/kg	75-125	50700		686		52800	94.7		P
Copper	ug/kg	75-125	57100		2520		52800	103		P
Iron	ug/kg		8030000		6590000		528000	274	N/A	P
Lead	ug/kg	75-125	58100		4190		52800	102		P
Magnesium	ug/kg	75-125	1410000		722000		528000	131	N	P
Manganese	ug/kg		313000		243000		52800	131	N/A	P
Potassium	ug/kg	75-125	1210000		545000		528000	126	N	P
Silver	ug/kg	75-125	51800		128	J	52800	97.9		P
Sodium	ug/kg	75-125	534000		58900		528000	90.1		P
Vanadium	ug/kg	75-125	57800		4980		52800	100		P
Zinc	ug/kg	75-125	102000		44400		52800	110		P

## METALS

-5a-

## Matrix Spike Duplicate Summary

SDG NO. 10-1704 Client ID RE15-10-8185SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91

Sample ID: 246679001 Spike ID: 1202039812

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/kg		8850000		4670000		533000	784	N/A	P
Antimony	ug/kg	75-125	46500		354	U	53300	87.3		P
Barium	ug/kg	75-125	79500		22200		53300	108		P
Cadmium	ug/kg	75-125	53100		249	J	53300	99.2		P
Calcium	ug/kg	75-125	1580000		1010000		533000	108		P
Chromium	ug/kg	75-125	62500		4040		53300	110		P
Cobalt	ug/kg	75-125	51000		686		53300	94.5		P
Copper	ug/kg	75-125	58200		2520		53300	104		P
Iron	ug/kg		8900000		6590000		533000	434	N/A	P
Lead	ug/kg	75-125	58400		4190		53300	102		P
Magnesium	ug/kg	75-125	1590000		722000		533000	163	N	P
Manganese	ug/kg		339000		243000		53300	179	N/A	P
Potassium	ug/kg	75-125	1340000		545000		533000	150	N	P
Silver	ug/kg	75-125	52400		128	J	53300	98.2		P
Sodium	ug/kg	75-125	547000		58900		533000	91.6		P
Vanadium	ug/kg	75-125	59200		4980		53300	102		P
Zinc	ug/kg	75-125	109000		44400		53300	121		P

## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-1704 Client ID RE15-10-8185S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 91

Sample ID: 246679001 Spike ID: 1202041643

<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>
Beryllium	ug/kg	75-125	6690		3140		5460	65	N	MS
Nickel	ug/kg	75-125	6260		2500		5460	68.8	N	MS
Selenium	ug/kg	75-125	1460		525	U	2190	66	N	MS
Arsenic	ug/kg	75-125	6780		728	J	8740	69.3	N	MS
Thallium	ug/kg	75-125	8090		65.9	J	10900	73.4	N	MS

## METALS

-5a-

## Matrix Spike Duplicate Summary

**SDG NO.** 10-1704 **Client ID** RE15-10-8185SD

**Contract:** LANL01004 **Level:** Low

**Matrix:** SOIL **% Solids:** 91

**Sample ID:** 246679001 **Spike ID:** 1202041644

<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>
Nickel	ug/kg	75-125	7300		2500		5250	91.6		MS
Selenium	ug/kg	75-125	1440		525	U	2100	67.8	N	MS
Thallium	ug/kg	75-125	8440		65.9	J	10500	79.8		MS
Arsenic	ug/kg	75-125	7410		728	J	8390	79.7		MS
Beryllium	ug/kg	75-125	8260		3140		5250	97.5		MS

## METALS

-5a-

## Matrix Spike Summary

SDG NO. 10-1704

Client ID RE46-10-12680S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 93.5

Sample ID: 246754001

Spike ID: 1202047369

<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	170		11.4	J	124	128	N	AV

## METALS

-5a-

## Matrix Spike Duplicate Summary

**SDG NO.** 10-1704 **Client ID** RE46-10-12680SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 93.5**Sample ID:** 246754001 **Spike ID:** 1202047371

<b>Analyte</b>	<b>Units</b>	<b>Acceptance Limit</b>	<b>Spiked Result</b>	<b>C</b>	<b>Sample Result</b>	<b>C</b>	<b>Spike Added</b>	<b>% Recovery</b>	<b>Qual</b>	<b>M</b>
Mercury	ug/kg	75-125	161		11.4	J	125	120		AV



**Metals**  
**-6-**  
**Duplicate Sample Summary**

SDG No.: 10-1704

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8185D

Sample ID: 246679001

Duplicate ID: 1202039809

Percent Solids for Dup: 91

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/kg	+/-20%	4670000		5880000		22.9	*	P
Antimony	ug/kg		354 U		350 U				P
Barium	ug/kg	+/-20%	22200		25400		13.5		P
Cadmium	ug/kg	+/-531	249 J		273 J		9.06		P
Calcium	ug/kg	+/-20%	1010000		1130000		11.1		P
Chromium	ug/kg	+/-20%	4040		5600		32.4	*	P
Cobalt	ug/kg	+/-531	686		727		5.72		P
Copper	ug/kg	+/-1060	2520		3110		20.9		P
Iron	ug/kg	+/-20%	6590000		7590000		14.1		P
Lead	ug/kg	+/-1060	4190		4790		13.3		P
Magnesium	ug/kg	+/-20%	722000		881000		19.9		P
Manganese	ug/kg	+/-20%	243000		256000		5.06		P
Potassium	ug/kg	+/-20%	545000		647000		17.1		P
Silver	ug/kg	+/-531	128 J		133 J		3.32		P
Sodium	ug/kg	+/-26500	58900		66300		11.7		P
Vanadium	ug/kg	+/-20%	4980		5620		12		P
Zinc	ug/kg	+/-20%	44400		53100		17.7		P

**Metals**  
**-6-**  
**Duplicate Sample Summary**

SDG No.: 10-1704

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8185SD

Sample ID: 1202039810

Duplicate ID: 1202039812

Percent Solids for Dup: 91

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/kg	+/-20	7390000		8850000		17.9		P
Antimony	ug/kg	+/-20	50000		46500		7.19		P
Barium	ug/kg	+/-20	75200		79500		5.59		P
Cadmium	ug/kg	+/-20	52600		53100		.894		P
Calcium	ug/kg	+/-20	1420000		1580000		11.2		P
Chromium	ug/kg	+/-20	59400		62500		4.99		P
Cobalt	ug/kg	+/-20	50700		51000		.691		P
Copper	ug/kg	+/-20	57100		58200		1.88		P
Iron	ug/kg	+/-20	8030000		8900000		10.2		P
Lead	ug/kg	+/-20	58100		58400		.496		P
Magnesium	ug/kg	+/-20	1410000		1590000		12.1		P
Manganese	ug/kg	+/-20	313000		339000		8.02		P
Potassium	ug/kg	+/-20	1210000		1340000		10.5		P
Silver	ug/kg	+/-20	51800		52400		1.28		P
Sodium	ug/kg	+/-20	534000		547000		2.29		P
Vanadium	ug/kg	+/-20	57800		59200		2.33		P
Zinc	ug/kg	+/-20	102000		109000		6.28		P

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**Metals**  
**-6-**  
**Duplicate Sample Summary**

**SDG No.:** 10-1704

**Contract:** LANL01004

**Lab Code:** GEL

**Matrix:** SOLID

**Level:** Low

**Client ID:** RE15-10-8185D

**Sample ID:** 246679001

**Duplicate ID:** 1202041641

**Percent Solids for Dup:** 91

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Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/kg	+/-1100	728 J		815 J		11.2		MS
Beryllium	ug/kg	+/-20%	3140		3820		19.5		MS
Nickel	ug/kg	+/-20%	2500		2830		12.5		MS
Selenium	ug/kg		525 U		549 U				MS
Thallium	ug/kg	+/-219	65.9 J		76.8 J		15.3		MS

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## Metals

-6-

## Duplicate Sample Summary

SDG No.: 10-1704

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-8185SD

Sample ID: 1202041643

Duplicate ID: 1202041644

Percent Solids for Dup: 91

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/kg	+/-20	6780		7410		8.89		MS
Beryllium	ug/kg	+/-20	6690		8260		20.9	*	MS
Nickel	ug/kg	+/-20	6260		7300		15.4		MS
Selenium	ug/kg	+/-20	1460		1440		1.46		MS
Thallium	ug/kg	+/-20	8090		8440		4.24		MS

## Metals

-6-

## Duplicate Sample Summary

SDG No.: 10-1704

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12680D

Sample ID: 246754001

Duplicate ID: 1202047368

Percent Solids for Dup: 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-12.6	11.4 J		18.1		45.6		AV

**Percent Solids for Dup: 93.5**

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	170		161		5.56		AV

## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-1704

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>
1202039808								
	Aluminum	ug/kg	10500000	9830000		93.6	56-144	P
	Antimony	ug/kg	173000	135000		78.2	71-130	P
	Barium	ug/kg	198000	195000		98.3	80-120	P
	Cadmium	ug/kg	60700	62200		102	81-120	P
	Calcium	ug/kg	9870000	9710000		98.3	83-117	P
	Chromium	ug/kg	236000	251000		106	80-120	P
	Cobalt	ug/kg	91200	94300		103	81-120	P
	Copper	ug/kg	174000	187000		107	81-118	P
	Iron	ug/kg	18000000	18200000		101	51-149	P
	Lead	ug/kg	86000	83600		97.2	79-121	P
	Magnesium	ug/kg	4000000	3840000		96	79-122	P
	Manganese	ug/kg	558000	556000		99.6	81-119	P
	Potassium	ug/kg	4300000	4210000		97.9	74-127	P
	Silver	ug/kg	30100	30400		101	66-134	P
	Sodium	ug/kg	1020000	912000		89.4	74-127	P
	Vanadium	ug/kg	115000	128000		111	79-121	P
	Zinc	ug/kg	594000	593000		99.9	80-121	P

## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-1704

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>
1202041645								
	Beryllium	ug/kg	77600	86400		111	84-116	MS
	Nickel	ug/kg	134000	147000		109	78-123	MS
	Selenium	ug/kg	286000	305000		106	77-123	MS
	Thallium	ug/kg	121000	146000		121	78-122	MS
	Arsenic	ug/kg	104000	113000		108	78-123	MS



## METALS

-7-

## Laboratory Control Sample Summary

SDG NO. 10-1704

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>
1202047367	Mercury	ug/kg	5150	6280		122	71.6-128.3	AV

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-1704 Client ID RE15-10-8185L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246679001 Serial Dilution ID: 1202039811

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	43500		45200		3.79		10	P
Antimony	3.3	U	16.5	U				P
Barium	207		206		.725		10	P
Cadmium	2.32	J	5	U	100			P
Calcium	9390		9550		1.7		10	P
Chromium	37.6		36.4		3.32			P
Cobalt	6.39		7.5	U	100			P
Copper	23.5		21.7	J	7.66			P
Iron	61400		64000		4.23		10	P
Lead	39		32	J	17.9			P
Magnesium	6730		7050		4.75		10	P
Manganese	2270		2330		2.42		10	P
Potassium	5080		5300		4.33		10	P
Silver	1.2	J	5	U	100			P
Sodium	549		590	J	7.47			P
Vanadium	46.4		47.2		1.62			P
Zinc	414		419		1.21		10	P

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-1704

Client ID RE15-10-8185L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 246679001

Serial Dilution ID: 1202041642

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	3.47	J	5.1	J	47			MS
Beryllium	15		15.1		.667		10	MS
Nickel	11.9		12.4		4.2			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.314	J	1.5	U	100			MS

## METALS

-9-

## Serial Dilution Sample Summary

SDG NO. 10-1704

Client ID RE46-10-12680L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 246754001

Serial Dilution ID: 1202047370

<b>Analyte</b>	<b><u>Initial Value ng/L</u></b>	<b><u>C</u></b>	<b><u>Serial Value ng/L</u></b>	<b><u>C</u></b>	<b><u>% Difference</u></b>	<b><u>Qual</u></b>	<b><u>Acceptance Limit</u></b>	<b><u>M</u></b>
Mercury	.183	J	.34	U	100			AV

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METALS  
-13-  
SAMPLE PREPARATION SUMMARY

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SDG No: 10-1704

Method Type: P

Contract: LANL01004

Lab Code: GEL

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<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 951772							
1202039807	MB for batch 951772	MB	S	21-FEB-10	.532g	50mL	
1202039808	LCS for batch 951772	LCS	S	21-FEB-10	.501g	50mL	
1202039810	RE15-10-8185S	MS	S	21-FEB-10	.521g	50mL	
1202039812	RE15-10-8185SD	MSD	S	21-FEB-10	.516g	50mL	
1202039809	RE15-10-8185D	DUP	S	21-FEB-10	.518g	50mL	
246679001	RE15-10-8185	SAMPLE	S	21-FEB-10	.512g	50mL	
246679002	RE15-10-8183	SAMPLE	S	21-FEB-10	.545g	50mL	
246679003	RE15-10-8179	SAMPLE	S	21-FEB-10	.513g	50mL	
246679004	RE15-10-8184	SAMPLE	S	21-FEB-10	.502g	50mL	
246679005	RE15-10-8180	SAMPLE	S	21-FEB-10	.535g	50mL	
246679006	RE15-10-8181	SAMPLE	S	21-FEB-10	.503g	50mL	
246679007	RE15-10-8182	SAMPLE	S	21-FEB-10	.506g	50mL	
246679008	RE15-10-8210	SAMPLE	S	21-FEB-10	.531g	50mL	

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SW846

**METALS**  
**-13-**  
**SAMPLE PREPARATION SUMMARY**

SDG No: 10-1704

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>
<b>Batch Number</b>	952563						
1202041640	MB for batch 952563	MB	S	18-FEB-10	.511g	50mL	
1202041645	LCS for batch 952563	LCS	S	18-FEB-10	.504g	50mL	
1202041643	RE15-10-8185S	MS	S	18-FEB-10	.503g	50mL	
1202041644	RE15-10-8185SD	MSD	S	18-FEB-10	.524g	50mL	
1202041641	RE15-10-8185D	DUP	S	18-FEB-10	.501g	50mL	
246679001	RE15-10-8185	SAMPLE	S	18-FEB-10	.524g	50mL	
246679002	RE15-10-8183	SAMPLE	S	18-FEB-10	.514g	50mL	
246679003	RE15-10-8179	SAMPLE	S	18-FEB-10	.503g	50mL	
246679004	RE15-10-8184	SAMPLE	S	18-FEB-10	.5g	50mL	
246679005	RE15-10-8180	SAMPLE	S	18-FEB-10	.516g	50mL	
246679006	RE15-10-8181	SAMPLE	S	18-FEB-10	.501g	50mL	
246679007	RE15-10-8182	SAMPLE	S	18-FEB-10	.541g	50mL	
246679008	RE15-10-8210	SAMPLE	S	18-FEB-10	.5g	50mL	

SW846

**METALS**  
**-13-**  
**SAMPLE PREPARATION SUMMARY**

SDG No: 10-1704

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	954986						
1202047366	MB for batch 954986	MB	S	23-FEB-10	.52g	30mL	
1202047367	LCS for batch 954986	LCS	S	23-FEB-10	.204g	30mL	
1202047369	RE46-10-12680S	MS	S	23-FEB-10	.516g	30mL	
1202047371	RE46-10-12680SD	MSD	S	23-FEB-10	.514g	30mL	
1202047368	RE46-10-12680D	DUP	S	23-FEB-10	.51g	30mL	
246679001	RE15-10-8185	SAMPLE	S	23-FEB-10	.514g	30mL	
246679002	RE15-10-8183	SAMPLE	S	23-FEB-10	.548g	30mL	
246679003	RE15-10-8179	SAMPLE	S	23-FEB-10	.588g	30mL	
246679004	RE15-10-8184	SAMPLE	S	23-FEB-10	.545g	30mL	
246679005	RE15-10-8180	SAMPLE	S	23-FEB-10	.536g	30mL	
246679006	RE15-10-8181	SAMPLE	S	23-FEB-10	.526g	30mL	
246679007	RE15-10-8182	SAMPLE	S	23-FEB-10	.59g	30mL	
246679008	RE15-10-8210	SAMPLE	S	23-FEB-10	.521g	30mL	

SW846

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 06-MAR-10

End Date: 06-MAR-10

Client Sdg: 10-1704

Method: MS

Data File: 100306-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0.0	1	20:36			X		X											X	X				X		
S10	1	20:39			X		X											X	X				X		
S100	1	20:43			X		X											X	X				X		
ICV01	1	20:46			X		X											X	X				X		
ICB01	1	20:50			X		X											X	X				X		
CRDL01	1	20:54			X		X											X	X				X		
ICSA01	1	20:57			X		X											X	X				X		
ICSAB01	1	21:01			X		X											X	X				X		
CCV01	1	21:05			X		X											X	X				X		
CCB01	1	21:08			X		X											X	X				X		
ZZZZZZ	2	21:12																							
ZZZZZZ	2	21:16																							
ZZZZZZ	2	21:19																							
ZZZZZZ	2	21:23																							
CCV02	1	21:26			X		X											X	X				X		
CCB02	1	21:30			X		X											X	X				X		
ZZZZZZ	2	21:34																							
ZZZZZZ	2	21:38																							
ZZZZZZ	2	21:41																							
ZZZZZZ	2	21:45																							
ZZZZZZ	2	21:49																							
ZZZZZZ	2	21:52																							
ZZZZZZ	2	21:56																							
CCV03	1	22:00			X		X											X	X				X		
CCB03	1	22:03			X		X											X	X				X		
ZZZZZZ	2	22:07																							
ZZZZZZ	40	22:11																							
ZZZZZZ	2	22:14																							
ZZZZZZ	2	22:18																							
ZZZZZZ	2	22:22																							
ZZZZZZ	2	22:25																							
ZZZZZZ	10	22:29																							
CCV04	1	22:33			X		X											X	X				X		
CCB04	1	22:36			X		X											X	X				X		
1202041640	2	22:40			X		X											X	X				X		
1202041645	40	22:44			X		X											X	X				X		
246679001	2	22:47			X		X											X	X				X		
1202041641	2	22:51			X		X											X	X				X		
1202041643	2	22:55			X		X											X	X				X		
1202041644	2	22:59			X		X											X	X				X		



[illegible]

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 08-MAR-10

End Date: 09-MAR-10

Client Sdg: 10-1704

Method P

Data File: 030810B-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0.0	1	13:43		X																					
S0.1	1	13:50		X																					
S0.5	1	13:57		X																					
SCAL	1	14:04		X																					
S10	1	14:11																							
ICV01	1	14:17		X																					
ICB01	1	14:23		X																					
PQL01	1	14:31		X																					
ICSA01	1	14:38		X																					
ICSAB01	1	14:44		X																					
LR01	1	14:51		X																					
LR02	1	14:58		X																					
CCV01	1	15:05		X																					
CCB01	1	15:12		X																					
CCV02	1	15:22		X																					
CCB02	1	15:29		X																					
LR03	1	15:37		X																					
LR04	1	15:43		X																					
CCV03	1	15:50		X																					
CCB03	1	15:57		X																					
ZZZZZZ	1	16:17																							
ZZZZZZ	1	16:23																							
ZZZZZZ	1	16:31																							
ZZZZZZ	1	16:38																							
ZZZZZZ	1	16:45																							
ZZZZZZ	1	16:52																							
ZZZZZZ	5	16:59																							
ZZZZZZ	1	17:06																							
CCV04	1	17:13		X																					
CCB04	1	17:20		X																					
ZZZZZZ	1	17:27																							
ZZZZZZ	1	17:34																							
ZZZZZZ	1	17:41																							
ZZZZZZ	1	17:48																							
ZZZZZZ	1	17:55																							
ZZZZZZ	1	18:02																							
ZZZZZZ	1	18:09																							
ZZZZZZ	1	18:16																							
CCV05	1	18:24		X																					
CCB05	1	18:31		X																					

**Metals**  
-14-  
**Analysis Run Log**

Samp No.	D/F	Run Time
ZZZZZZ	1	18:43
ZZZZZZ	1	18:50
ZZZZZZ	1	18:57
ZZZZZZ	1	19:04
ZZZZZZ	1	19:11
ZZZZZZ	1	19:18
ZZZZZZ	1	19:25
ZZZZZZ	1	19:32
CCV06	1	19:38
CCB06	1	19:45
ZZZZZZ	1	19:53
ZZZZZZ	1	20:00
ZZZZZZ	1	20:07
ZZZZZZ	1	20:14
ZZZZZZ	1	20:20
ZZZZZZ	1	20:27
ZZZZZZ	5	20:34
CCV07	1	20:41
CCB07	1	20:48
ZZZZZZ	1	20:55
ZZZZZZ	1	21:02
ZZZZZZ	1	21:09
ZZZZZZ	1	21:16
ZZZZZZ	1	21:24
ZZZZZZ	1	21:30
ZZZZZZ	1	21:37
CCV08	1	21:44
CCB08	1	21:51
ZZZZZZ	1	21:59
ZZZZZZ	1	22:06
ZZZZZZ	1	22:12
ZZZZZZ	1	22:19
ZZZZZZ	1	22:26
ZZZZZZ	1	22:33
ZZZZZZ	1	22:40
CCV09	1	22:46
CCB09	1	22:53
ZZZZZZ	1	23:01
ZZZZZZ	1	23:09
ZZZZZZ	1	23:16

**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	V	Zn
ZZZZZZ	1	23:22																						
ZZZZZZ	1	23:29																						
ZZZZZZ	1	23:36																						
ZZZZZZ	5	23:43																						
CCV10	1	23:50		X																				
CCB10	1	23:57		X																				
ZZZZZZ	1	00:04																						
ZZZZZZ	1	00:11																						
ZZZZZZ	1	00:18																						
ZZZZZZ	1	00:25																						
ZZZZZZ	1	00:32																						
ZZZZZZ	1	00:38																						
ZZZZZZ	1	00:45																						
CCV11	1	00:52		X																				
CCB11	1	00:59		X																				
ZZZZZZ	1	01:07																						
ZZZZZZ	1	01:13																						
ZZZZZZ	1	01:20																						
ZZZZZZ	1	01:27																						
ZZZZZZ	1	01:34																						
ZZZZZZ	1	01:41																						
CCV12	1	01:47		X																				
CCB12	1	01:54		X																				
ZZZZZZ	1	02:02																						
ZZZZZZ	1	02:09																						
ZZZZZZ	10	02:16																						
ZZZZZZ	10	02:23																						
ZZZZZZ	10	02:30																						
ZZZZZZ	10	02:37																						
ZZZZZZ	50	02:44																						
ZZZZZZ	10	02:51																						
ZZZZZZ	10	02:58																						
CCV13	1	03:05		X																				
CCB13	1	03:12		X																				
ZZZZZZ	10	03:19																						
ZZZZZZ	10	03:26																						
ZZZZZZ	10	03:33																						
ZZZZZZ	10	03:40																						
ZZZZZZ	10	03:48																						
ZZZZZZ	10	03:56																						



**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	V	Zn
ZZZZZZ	10	08:54																							
ZZZZZZ	10	09:01																							
ZZZZZZ	10	09:09																							
ZZZZZZ	10	09:16																							
ZZZZZZ	1	09:23																							
ZZZZZZ	1	09:30																							
CCV20	1	09:36		X																					
CCB20	1	09:44		X																					
1202039807	1	09:52		X																					
1202039808	1	09:59		X																					
246679001	1	10:05		X																					
1202039809	1	10:12		X																					
1202039810	1	10:20		X																					
1202039812	1	10:26		X																					
1202039811	5	10:33		X																					
CCV21	1	10:40		X																					
CCB21	1	10:47		X																					
246679002	1	10:55		X																					
246679003	1	11:02		X																					
246679004	1	11:09		X																					
246679005	1	11:16		X																					
246679006	1	11:23		X																					
246679007	1	11:30		X																					
246679008	1	11:38		X																					
CCV22	1	11:45		X																					
CCB22	1	11:52		X																					

**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 24-FEB-10

End Date: 24-FEB-10

Client Sdg: 10-1704

Method: AV

Data File: 022410S1-4

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0.0	1	09:53															X								
S0.2	1	09:55															X								
S0.5	1	09:57															X								
S2.0	1	09:59															X								
S5.0	1	10:01															X								
S10	1	10:03															X								
ICV01	1	10:05															X								
ICB01	1	10:07															X								
CRDL01	1	10:09															X								
CCV01	1	10:11															X								
CCB01	1	10:13															X								
ZZZZZZ	1	10:15																							
ZZZZZZ	10	10:17																							
ZZZZZZ	1	10:19																							
ZZZZZZ	1	10:21																							
ZZZZZZ	1	10:23																							
ZZZZZZ	1	10:25																							
ZZZZZZ	5	10:27																							
ZZZZZZ	1	10:29																							
ZZZZZZ	1	10:31																							
ZZZZZZ	10	10:33																							
CCV02	1	10:35															X								
CCB02	1	10:37															X								
ZZZZZZ	1	10:39																							
ZZZZZZ	1	10:41																							
ZZZZZZ	1	10:43																							
ZZZZZZ	1	10:45																							
ZZZZZZ	1	10:47																							
ZZZZZZ	1	10:49																							
ZZZZZZ	1	10:51																							
ZZZZZZ	1	10:53																							
ZZZZZZ	1	10:55																							
ZZZZZZ	1	10:57																							
CCV03	1	10:59															X								
CCB03	1	11:01															X								
ZZZZZZ	1	11:03																							
ZZZZZZ	1	11:05																							
ZZZZZZ	1	11:07																							
ZZZZZZ	1	11:09																							
ZZZZZZ	1	11:11																							

**Metals**  
**-14-**  
**Analysis Run Log**

Samp No.	D/F	Run Time
ZZZZZZ	5	11:13
ZZZZZZ	1	11:15
ZZZZZZ	1	11:16
ZZZZZZ	1	11:18
ZZZZZZ	1	11:20
CCV04	1	11:22
CCB04	1	11:25
ZZZZZZ	1	11:28
ZZZZZZ	1	11:30
ZZZZZZ	1	11:32
ZZZZZZ	1	11:34
1202047366	1	11:36
1202047367	10	11:38
246679001	1	11:40
246679002	1	11:42
246679003	1	11:44
246679004	1	11:46
CCV05	1	11:47
CCB05	1	11:50
246679005	1	11:52
246679006	1	11:54
246679007	1	11:55
246679008	1	11:57
ZZZZZZ	1	11:59
1202047368	1	12:01
1202047369	1	12:03
1202047371	1	12:05
1202047370	5	12:07
ZZZZZZ	1	12:09
CCV06	1	12:11
CCB06	1	12:13



**Metals**  
**-14-**  
**Analysis Run Log**

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 26-FEB-10

End Date: 26-FEB-10

Client Sdg: 10-1704

Method P

Data File: 022610D-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn
S0.0	1	12:53	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
S0.1	1	12:57				X		X		X	X	X		X		X			X		X			X	X
S0.5	1	13:00	X			X		X	X	X	X	X		X	X	X			X		X			X	X
SCAL	1	13:03	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
S10	1	13:07	X						X				X		X							X			
ICV01	1	13:09	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ICB01	1	13:13	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
PQL01	1	13:16	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ICSA01	1	13:20	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ICSAB01	1	13:23	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
LR01	1	13:25	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
LR02	1	13:28	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCV01	1	13:32	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB01	1	13:35	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
LR03	1	13:45	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
LR04	1	13:48	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCV02	1	13:52	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB02	1	13:56	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ZZZZZZ	1	14:08																							
ZZZZZZ	1	14:11																							
ZZZZZZ	1	14:14																							
ZZZZZZ	1	14:18																							
ZZZZZZ	1	14:22																							
ZZZZZZ	1	14:25																							
ZZZZZZ	5	14:29																							
ZZZZZZ	1	14:33																							
CCV03	1	14:36	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB03	1	14:40	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ZZZZZZ	1	14:44																							
ZZZZZZ	1	14:47																							
ZZZZZZ	1	14:51																							
ZZZZZZ	1	14:55																							
ZZZZZZ	1	14:58																							
ZZZZZZ	1	15:02																							
ZZZZZZ	1	15:06																							
ZZZZZZ	1	15:09																							
ZZZZZZ	1	15:13																							
CCV04	1	15:17	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB04	1	15:20	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ZZZZZZ	1	15:24																							

**Metals**  
**-14-**  
**Analysis Run Log**

[illegible]

**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	V	Zn
ZZZZZZ	1	18:32																							
ZZZZZZ	1	18:35																							
ZZZZZZ	1	18:39																							
ZZZZZZ	1	18:43																							
CCV10	1	18:46	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB10	1	18:50	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ZZZZZZ	1	18:54																							
ZZZZZZ	1	18:57																							
ZZZZZZ	1	19:00																							
ZZZZZZ	1	19:04																							
ZZZZZZ	1	19:07																							
ZZZZZZ	1	19:11																							
ZZZZZZ	5	19:15																							
ZZZZZZ	1	19:18																							
ZZZZZZ	1	19:22																							
CCV11	1	19:26	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB11	1	19:30	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
ZZZZZZ	1	19:33																							
ZZZZZZ	1	19:37																							
ZZZZZZ	1	19:41																							
ZZZZZZ	1	19:44																							
ZZZZZZ	1	19:48																							
ZZZZZZ	1	19:52																							
ZZZZZZ	1	19:55																							
ZZZZZZ	1	19:59																							
CCV12	1	20:03	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB12	1	20:06	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039807	1	20:10	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039808	1	20:14	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
246679001	1	20:16	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039809	1	20:20	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039810	1	20:24	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039812	1	20:27	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
1202039811	5	20:31	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCV13	1	20:35	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
CCB13	1	20:38	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
246679002	1	20:42	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
246679003	1	20:46	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
246679004	1	20:49	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X
246679005	1	20:53	X			X		X	X	X	X	X	X	X	X	X			X		X	X		X	X

**Metals**  
**-14-**  
**Analysis Run Log**

Samp No.	D/F	Run Time																				
246679006	1	20:57	X		X		X	X	X	X	X	X	X	X		X		X	X		X	X
246679007	1	21:00	X		X		X	X	X	X	X	X	X	X		X		X	X		X	X
246679008	1	21:04	X		X		X	X	X	X	X	X	X	X		X		X	X		X	X
CCV14	1	21:08	X		X		X	X	X	X	X	X	X	X		X		X	X		X	X
CCB14	1	21:11	X		X		X	X	X	X	X	X	X	X		X		X	X		X	X

# Standards

**METALS**  
**-10-**  
**Instrument Detection Limits**

**SDG NO.** 10-1704

**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>
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
	Vanadium		2.0	10
	Zinc		2.0	10

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**METALS**  
**-10-**  
**Instrument Detection Limits**

**SDG NO.** 10-1704

**Contract:** LANL01004

**Lab Code:** GEL

**MDL Effective Date:** 15-JUN-09

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	<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. 10-1704

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
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10



**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-1704**

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: GELGEL Job No: **10-1704**

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: **10-1704**

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: GEL

GEL Job No: 10-1704

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: **10-1704**

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: **10-1704**Contract: LANI.01004Instrument: OPTIMA3Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Tin	Titanium	Uranium	Vanadium	Zinc
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**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-1704**Contract: LANL01004Instrument: OPTIMA1Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
<b>Parmname</b>	<b>Wavelength</b>					
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	-0.05500	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	-0.28800	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
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.04600	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: **10-1704**

Contract: LANL01004

Instrument: OPTIMA1

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	11.3250	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	-1.59900	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	-21.2250	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.68400
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	1.19100	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	105.59
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
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	3.36300	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	-2.30400	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.61100



**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-1704**

Contract: LANL01004

Instrument: OPTIMA1

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	20.5430
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-16.3320
Arsenic	188.979	-0.05800	0.00000	0.00000	0.00000	1.97700
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	0.13300	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	-0.90500
Copper	324.752	-0.13900	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.03800	-2.87600	0.00000	0.00000	0.00000
Magnesium	279.077	1.07300	0.00000	0.00000	0.00000	-16.8110
Manganese	257.61	-0.13900	0.00000	0.04000	0.00000	0.00000
Molybdenum	202.031	-0.03800	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.01300	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.81200	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.88200	0.00000	0.28200	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	-0.06300	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.03900	0.00000	0.00000	-4.11700	0.00000
Tin	189.927	-0.09200	0.00000	-0.19600	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.07900	0.00000	0.00000
Uranium	409.014	0.13900	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-0.05300	0.00000	0.00000	0.00000	-7.71400
Zinc	213.857	0.14460	0.00000	0.02030	0.00000	0.00000

**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GELGEL Job No: **10-1704**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Selenium	Silicon	Silver
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	-0.99900	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
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
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	4.41600	0.00000	0.00000	0.00000	0.00000

**METALS**  
**-11-**  
**Interement Correction Factors**

Lab Code: GEL

GEL Job No: 10-1704

Contract: L.AN1.01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Sulfur	Thallium	Tin	Titanium	Uranium
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	0.38100	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	2.08700	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	1.04000
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	-14.8110	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
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-8.68900	-1.22400
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	-1.03900
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

**METALS**  
**-11-**  
**Interelement Correction Factors**

Lab Code: GEL

GEL Job No: 10-1704

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000
Antimony	206.836	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000
Barium	233.527	-1.80500	0.00000
Beryllium	313.107	0.00000	0.00000
Boron	249.677	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000
Chromium	267.716	-0.63000	0.00000
Cobalt	228.616	0.00000	0.00000
Copper	324.752	0.00000	0.00000
Iron	238.204	0.00000	0.00000
Lead	220.353	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000
Manganese	257.61	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000
Nickel	231.604	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000
Selenium	196.026	0.00000	0.00000
Silicon	251.611	0.00000	0.00000
Silver	328.068	-6.59800	0.00000
Sulfur	181.975	0.00000	0.00000
Thallium	190.801	0.00000	0.00000
Tin	189.927	0.00000	0.00000
Titanium	334.94	0.00000	0.00000
Uranium	409.014	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000
Zinc	213.857	0.00000	0.00000

**METALS**  
**-12-**  
**Linear Ranges**

SDG NO. 10-1704

Contract: LANL01004

Lab Code: GEL

Instrument IDICPMS5

<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
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

**METALS**  
**-12-**  
**Linear Ranges**

SDG NO. 10-1704

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
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

**METALS**  
**-12-**  
**Linear Ranges**

SDG NO. 10-1704

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<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
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

# Raw Data



## =====

## Analysis Begun

Start Time: 2/26/2010 12:53:49

Plasma On Time: 2/8/2010 03:37:33

Logged In Analyst: optima

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\022610B.sif

Batch ID:

Results Data Set: 022610D

Results Library: c:\pe\optimal\Results\Results.mdb

## =====

## Method Loaded

Method Name: Gen Eng fast\_new Si

Method Last Saved: 2/26/2010 03:41:55

IEC File: 011510.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	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
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: 8

Sample ID: S0

Date Collected: 2/26/2010 12:53:52

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	109054.7	109054.7	99.9 %	12:54:26
1	Al 396.153Radial†	-178.1	-178.3	[0.00] µg/L	12:54:26
1	Ca 317.933Radial†	379.6	380.1	[0.00] µg/L	12:54:46
1	Fe 238.204 Radial†	31.2	31.2	[0.00] µg/L	12:54:46

1	K 766.490 Radial†	164.7	165.0	[0.00]	µg/L	12:54:26
1	Mg 279.077 IEC†	10.0	10.0	[0.00]	µg/L	12:54:46
1	Na 589.592 Radial†	245.2	245.6	[0.00]	µg/L	12:54:26
1	Sr 421.552†	159.9	160.1	[0.00]	µg/L	12:54:26
1	Sc 361.383	1683748.1	1683748.1	100.06	%	12:55:48
1	Y 371.029	936203.6	936203.6	100.01	%	12:55:48
1	Ag 328.068†	-582.4	-582.0	[0.00]	µg/L	12:55:54
1	As 188.979†	-4.5	-4.5	[0.00]	µg/L	12:56:14
1	B 249.677†	169.1	169.0	[0.00]	µg/L	12:56:14
1	Ba 233.527†	-19.7	-19.7	[0.00]	µg/L	12:56:14
1	Be 313.107†	-1974.8	-1973.5	[0.00]	µg/L	12:55:54
1	Cd 226.502†	-143.8	-143.7	[0.00]	µg/L	12:56:14
1	Co 228.616†	26.0	26.0	[0.00]	µg/L	12:56:14
1	Cr 267.716†	89.0	88.9	[0.00]	µg/L	12:56:14
1	Cu 324.752†	2643.0	2641.3	[0.00]	µg/L	12:55:54
1	Mn 257.610†	-530.9	-530.5	[0.00]	µg/L	12:56:14
1	Mo 202.031†	6.9	6.9	[0.00]	µg/L	12:56:14
1	Ni 231.604†	305.7	305.5	[0.00]	µg/L	12:56:14
1	P 214.914†	237.6	237.5	[0.00]	µg/L	12:56:14
1	Pb 220.353†	39.1	39.0	[0.00]	µg/L	12:56:14
1	S 181.975 Axial†	18.4	18.4	[0.00]	µg/L	12:56:14
1	Sb 206.836†	19.7	19.7	[0.00]	µg/L	12:56:14
1	Se 196.026†	13.6	13.6	[0.00]	µg/L	12:56:14
1	SiO2†	1368.3	1367.4	[0.00]	µg/L	12:55:54
1	Si 251.611†	349.0	348.7	[0.00]	µg/L	12:56:14
1	Sn 189.927†	4.3	4.3	[0.00]	µg/L	12:56:14
1	Ti 334.940†	-30.6	-30.6	[0.00]	µg/L	12:55:54
1	Tl 190.801†	-26.0	-25.9	[0.00]	µg/L	12:56:14
1	U 409.014†	127.5	127.4	[0.00]	µg/L	12:55:54
1	V 292.402†	-130.0	-130.0	[0.00]	µg/L	12:55:54
1	Zn 213.857†	588.1	587.7	[0.00]	µg/L	12:56:14
2	Sc RADIAL	109276.2	109276.2	100	%	12:54:51
2	Al 396.153Radial†	-172.9	-172.7	[0.00]	µg/L	12:54:51
2	Ca 317.933Radial†	386.8	386.6	[0.00]	µg/L	12:55:12
2	Fe 238.204 Radial†	30.3	30.2	[0.00]	µg/L	12:55:12
2	K 766.490 Radial†	239.2	239.0	[0.00]	µg/L	12:54:51
2	Mg 279.077 IEC†	9.0	9.0	[0.00]	µg/L	12:55:12
2	Na 589.592 Radial†	234.8	234.6	[0.00]	µg/L	12:54:51
2	Sr 421.552†	148.3	148.2	[0.00]	µg/L	12:54:51
2	Sc 361.383	1680544.4	1680544.4	99.874	%	12:56:20
2	Y 371.029	934924.8	934924.8	99.872	%	12:56:20
2	Ag 328.068†	-552.0	-552.7	[0.00]	µg/L	12:56:26
2	As 188.979†	-3.1	-3.1	[0.00]	µg/L	12:56:46
2	B 249.677†	152.7	152.9	[0.00]	µg/L	12:56:46
2	Ba 233.527†	-17.2	-17.3	[0.00]	µg/L	12:56:46
2	Be 313.107†	-1934.5	-1936.9	[0.00]	µg/L	12:56:26
2	Cd 226.502†	-145.0	-145.1	[0.00]	µg/L	12:56:46
2	Co 228.616†	25.2	25.3	[0.00]	µg/L	12:56:46
2	Cr 267.716†	93.5	93.6	[0.00]	µg/L	12:56:46
2	Cu 324.752†	2617.9	2621.2	[0.00]	µg/L	12:56:26
2	Mn 257.610†	-538.6	-539.3	[0.00]	µg/L	12:56:46
2	Mo 202.031†	3.9	3.9	[0.00]	µg/L	12:56:46
2	Ni 231.604†	298.2	298.6	[0.00]	µg/L	12:56:46
2	P 214.914†	240.4	240.7	[0.00]	µg/L	12:56:46
2	Pb 220.353†	48.2	48.3	[0.00]	µg/L	12:56:46
2	S 181.975 Axial†	17.4	17.4	[0.00]	µg/L	12:56:46
2	Sb 206.836†	23.4	23.5	[0.00]	µg/L	12:56:46
2	Se 196.026†	7.1	7.1	[0.00]	µg/L	12:56:46
2	SiO2†	1385.2	1386.9	[0.00]	µg/L	12:56:26
2	Si 251.611†	360.7	361.2	[0.00]	µg/L	12:56:46
2	Sn 189.927†	2.4	2.4	[0.00]	µg/L	12:56:46
2	Ti 334.940†	-12.1	-12.1	[0.00]	µg/L	12:56:26
2	Tl 190.801†	-26.5	-26.6	[0.00]	µg/L	12:56:46
2	U 409.014†	130.3	130.4	[0.00]	µg/L	12:56:26
2	V 292.402†	-177.6	-177.8	[0.00]	µg/L	12:56:26
2	Zn 213.857†	579.3	580.1	[0.00]	µg/L	12:56:46
3	Sc RADIAL	109270.9	109270.9	100	%	12:55:17
3	Al 396.153Radial†	-173.8	-173.7	[0.00]	µg/L	12:55:17
3	Ca 317.933Radial†	384.2	383.9	[0.00]	µg/L	12:55:38
3	Fe 238.204 Radial†	32.4	32.4	[0.00]	µg/L	12:55:38
3	K 766.490 Radial†	288.5	288.3	[0.00]	µg/L	12:55:17

3	Mg 279.077 IEC†	7.3	7.3	[0.00]	µg/L	12:55:38
3	Na 589.592 Radial†	225.8	225.6	[0.00]	µg/L	12:55:17
3	Sr 421.552†	156.7	156.6	[0.00]	µg/L	12:55:17
3	Sc 361.383	1683718.1	1683718.1	100.06	%	12:56:52
3	Y 371.029	937235.9	937235.9	100.12	%	12:56:52
3	Ag 328.068†	-563.4	-563.0	[0.00]	µg/L	12:56:58
3	As 188.979†	-3.9	-3.9	[0.00]	µg/L	12:57:18
3	B 249.677†	154.1	154.0	[0.00]	µg/L	12:57:18
3	Ba 233.527†	-16.8	-16.8	[0.00]	µg/L	12:57:18
3	Be 313.107†	-1928.2	-1927.0	[0.00]	µg/L	12:56:58
3	Cd 226.502†	-143.9	-143.8	[0.00]	µg/L	12:57:18
3	Co 228.616†	15.5	15.4	[0.00]	µg/L	12:57:18
3	Cr 267.716†	88.0	88.0	[0.00]	µg/L	12:57:18
3	Cu 324.752†	2608.3	2606.7	[0.00]	µg/L	12:56:58
3	Mn 257.610†	-563.3	-562.9	[0.00]	µg/L	12:57:18
3	Mo 202.031†	2.3	2.3	[0.00]	µg/L	12:57:18
3	Ni 231.604†	292.1	291.9	[0.00]	µg/L	12:57:18
3	P 214.914†	246.5	246.3	[0.00]	µg/L	12:57:18
3	Pb 220.353†	41.3	41.2	[0.00]	µg/L	12:57:18
3	S 181.975 Axial†	26.3	26.3	[0.00]	µg/L	12:57:18
3	Sb 206.836†	19.9	19.9	[0.00]	µg/L	12:57:18
3	Se 196.026†	19.3	19.2	[0.00]	µg/L	12:57:18
3	SiO2†	1396.1	1395.2	[0.00]	µg/L	12:56:58
3	Si 251.611†	382.4	382.1	[0.00]	µg/L	12:57:18
3	Sn 189.927†	7.0	7.0	[0.00]	µg/L	12:57:18
3	Ti 334.940†	18.3	18.2	[0.00]	µg/L	12:56:58
3	Tl 190.801†	-24.3	-24.2	[0.00]	µg/L	12:57:18
3	U 409.014†	194.8	194.7	[0.00]	µg/L	12:56:58
3	V 292.402†	-148.1	-148.0	[0.00]	µg/L	12:56:58
3	Zn 213.857†	573.4	573.0	[0.00]	µg/L	12:57:18

## Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	1682670.2	1841.02	0.11%	100.00	%
Sc RADIAL	109200.6	126.40	0.12%	100	%
Y 371.029	936121.4	1157.78	0.12%	100.00	%
Ag 328.068†	-565.9	14.85	2.62%	[0.00]	µg/L
Al 396.153Radial†	-174.9	2.97	1.70%	[0.00]	µg/L
As 188.979†	-3.9	0.67	17.41%	[0.00]	µg/L
B 249.677†	158.6	8.96	5.65%	[0.00]	µg/L
Ba 233.527†	-17.9	1.58	8.79%	[0.00]	µg/L
Be 313.107†	-1945.8	24.51	1.26%	[0.00]	µg/L
Ca 317.933Radial†	383.6	3.23	0.84%	[0.00]	µg/L
Cd 226.502†	-144.2	0.80	0.55%	[0.00]	µg/L
Co 228.616†	22.2	5.90	26.52%	[0.00]	µg/L
Cr 267.716†	90.2	3.03	3.36%	[0.00]	µg/L
Cu 324.752†	2623.1	17.36	0.66%	[0.00]	µg/L
Fe 238.204 Radial†	31.3	1.09	3.49%	[0.00]	µg/L
K 766.490 Radial†	230.7	62.07	26.90%	[0.00]	µg/L
Mg 279.077 IEC†	8.8	1.35	15.36%	[0.00]	µg/L
Mn 257.610†	-544.2	16.75	3.08%	[0.00]	µg/L
Mo 202.031†	4.4	2.32	53.29%	[0.00]	µg/L
Na 589.592 Radial†	235.3	10.00	4.25%	[0.00]	µg/L
Ni 231.604†	298.7	6.78	2.27%	[0.00]	µg/L
P 214.914†	241.5	4.50	1.86%	[0.00]	µg/L
Pb 220.353†	42.8	4.81	11.24%	[0.00]	µg/L
S 181.975 Axial†	20.7	4.90	23.71%	[0.00]	µg/L
Sb 206.836†	21.0	2.13	10.13%	[0.00]	µg/L
Se 196.026†	13.3	6.08	45.67%	[0.00]	µg/L
SiO2†	1383.2	14.27	1.03%	[0.00]	µg/L
Si 251.611†	364.0	16.87	4.64%	[0.00]	µg/L
Sn 189.927†	4.6	2.31	50.64%	[0.00]	µg/L
Sr 421.552†	155.0	6.15	3.97%	[0.00]	µg/L
Ti 334.940†	-8.1	24.65	302.54%	[0.00]	µg/L
Tl 190.801†	-25.6	1.21	4.73%	[0.00]	µg/L
U 409.014†	150.8	38.00	25.19%	[0.00]	µg/L
V 292.402†	-151.9	24.17	15.91%	[0.00]	µg/L
Zn 213.857†	580.3	7.35	1.27%	[0.00]	µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 2/26/2010 12:57:27

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	109052.5	109052.5	99.9 %	12:58:02
1	K 766.490 Radial†	1981.2	1753.1	[1000] µg/L	12:58:02
1	Sr 421.552†	22418.8	22294.3	[100] µg/L	12:58:02
1	Sc 361.383	1656988.3	1656988.3	98.474 %	12:58:24
1	Y 371.029	919316.6	919316.6	98.205 %	12:58:24
1	Ag 328.068†	10888.3	11623.0	[100] µg/L	12:58:29
1	As 188.979†	51.1	55.8	[100] µg/L	12:58:50
1	B 249.677†	2071.5	1944.9	[100] µg/L	12:58:29
1	Ba 233.527†	3985.1	4064.8	[100] µg/L	12:58:29
1	Be 313.107†	141240.9	145375.8	[100] µg/L	12:58:24
1	Cd 226.502†	3469.4	3667.4	[100] µg/L	12:58:29
1	Co 228.616†	2012.6	2021.5	[100] µg/L	12:58:50
1	Cr 267.716†	4137.6	4111.5	[100] µg/L	12:58:29
1	Cu 324.752†	17264.6	14909.1	[100] µg/L	12:58:29
1	Mn 257.610†	28188.0	29169.1	[100] µg/L	12:58:29
1	Mo 202.031†	927.7	937.7	[100] µg/L	12:58:50
1	Ni 231.604†	1843.8	1573.7	[100] µg/L	12:58:50
1	P 214.914†	489.6	255.7	[500] µg/L	12:58:50
1	Pb 220.353†	376.6	339.6	[100] µg/L	12:58:50
1	S 181.975 Axial†	77.1	57.6	[200] µg/L	12:58:50
1	Sb 206.836†	121.9	102.8	[100] µg/L	12:58:50
1	Se 196.026†	101.0	89.2	[100] µg/L	12:58:50
1	SiO2†	6318.4	5033.1	[1069.5] µg/L	12:58:29
1	Si 251.611†	6515.2	6252.1	[500] µg/L	12:58:29
1	Sn 189.927†	225.3	224.2	[100] µg/L	12:58:50
1	Ti 334.940†	37594.1	38184.9	[100] µg/L	12:58:29
1	Tl 190.801†	68.3	94.9	[100] µg/L	12:58:50
1	U 409.014†	1120.0	986.5	[100] µg/L	12:58:29
1	V 292.402†	7994.9	8270.8	[100] µg/L	12:58:29
1	Zn 213.857†	4590.5	4081.4	[100] µg/L	12:58:29
2	Sc RADIAL	109415.4	109415.4	100 %	12:58:08
2	K 766.490 Radial†	2036.3	1801.5	[1000] µg/L	12:58:08
2	Sr 421.552†	22495.0	22295.8	[100] µg/L	12:58:08
2	Sc 361.383	1651631.7	1651631.7	98.155 %	12:58:56
2	Y 371.029	915346.7	915346.7	97.781 %	12:58:56
2	Ag 328.068†	10902.0	11672.8	[100] µg/L	12:59:01
2	As 188.979†	47.2	52.0	[100] µg/L	12:59:22
2	B 249.677†	2035.9	1915.5	[100] µg/L	12:59:01
2	Ba 233.527†	3980.8	4073.5	[100] µg/L	12:59:01
2	Be 313.107†	141710.6	146319.6	[100] µg/L	12:58:56
2	Cd 226.502†	3449.6	3658.6	[100] µg/L	12:59:01
2	Co 228.616†	2014.3	2029.9	[100] µg/L	12:59:22
2	Cr 267.716†	4130.3	4117.7	[100] µg/L	12:59:01
2	Cu 324.752†	17287.0	14988.8	[100] µg/L	12:59:01
2	Mn 257.610†	28271.2	29346.7	[100] µg/L	12:59:01
2	Mo 202.031†	934.7	947.9	[100] µg/L	12:59:22
2	Ni 231.604†	1845.6	1581.6	[100] µg/L	12:59:22
2	P 214.914†	486.0	253.7	[500] µg/L	12:59:22
2	Pb 220.353†	377.7	342.0	[100] µg/L	12:59:22
2	S 181.975 Axial†	76.4	57.2	[200] µg/L	12:59:22
2	Sb 206.836†	122.3	103.6	[100] µg/L	12:59:22
2	Se 196.026†	94.4	82.9	[100] µg/L	12:59:22
2	SiO2†	6325.8	5061.5	[1069.5] µg/L	12:59:01
2	Si 251.611†	6529.5	6288.2	[500] µg/L	12:59:01
2	Sn 189.927†	236.9	236.8	[100] µg/L	12:59:22
2	Ti 334.940†	37548.6	38262.4	[100] µg/L	12:59:01
2	Tl 190.801†	64.5	91.3	[100] µg/L	12:59:22
2	U 409.014†	1008.4	876.5	[100] µg/L	12:59:01
2	V 292.402†	8059.5	8362.9	[100] µg/L	12:59:01

2	Zn 213.857†	4596.6	4102.7	[100] µg/L	12:59:01
3	Sc RADIAL	109443.9	109443.9	100 %	12:58:13
3	K 766.490 Radial†	2122.1	1886.6	[1000] µg/L	12:58:13
3	Sr 421.552†	22589.4	22384.2	[100] µg/L	12:58:13
3	Sc 361.383	1646735.2	1646735.2	97.864 %	12:59:27
3	Y 371.029	915869.2	915869.2	97.837 %	12:59:27
3	Ag 328.068†	10866.4	11669.5	[100] µg/L	12:59:33
3	As 188.979†	53.2	58.2	[100] µg/L	12:59:54
3	B 249.677†	2062.8	1949.2	[100] µg/L	12:59:33
3	Ba 233.527†	4009.2	4114.6	[100] µg/L	12:59:33
3	Be 313.107†	141581.8	146617.2	[100] µg/L	12:59:27
3	Cd 226.502†	3447.1	3666.5	[100] µg/L	12:59:33
3	Co 228.616†	2033.3	2055.4	[100] µg/L	12:59:54
3	Cr 267.716†	4158.7	4159.3	[100] µg/L	12:59:33
3	Cu 324.752†	17369.9	15125.9	[100] µg/L	12:59:33
3	Mn 257.610†	28472.8	29638.3	[100] µg/L	12:59:33
3	Mo 202.031†	932.3	948.3	[100] µg/L	12:59:54
3	Ni 231.604†	1857.4	1599.3	[100] µg/L	12:59:54
3	P 214.914†	493.9	263.2	[500] µg/L	12:59:54
3	Pb 220.353†	374.9	340.2	[100] µg/L	12:59:54
3	S 181.975 Axial†	77.5	58.5	[200] µg/L	12:59:54
3	Sb 206.836†	119.9	101.5	[100] µg/L	12:59:54
3	Se 196.026†	98.2	87.0	[100] µg/L	12:59:54
3	SiO2†	6383.6	5139.7	[1069.5] µg/L	12:59:33
3	Si 251.611†	6615.3	6395.6	[500] µg/L	12:59:33
3	Sn 189.927†	232.4	232.9	[100] µg/L	12:59:54
3	Ti 334.940†	37856.7	38691.0	[100] µg/L	12:59:33
3	Tl 190.801†	65.2	92.2	[100] µg/L	12:59:54
3	U 409.014†	996.4	867.3	[100] µg/L	12:59:33
3	V 292.402†	8004.4	8331.0	[100] µg/L	12:59:33
3	Zn 213.857†	4622.6	4143.2	[100] µg/L	12:59:33

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Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1651785.1	5128.27	0.31%	98.165 %
Sc RADIAL	109303.9	218.22	0.20%	100 %
Y 371.029	916844.2	2157.03	0.24%	97.941 %
Ag 328.068†	11655.1	27.85	0.24%	[100] µg/L
As 188.979†	55.3	3.14	5.67%	[100] µg/L
B 249.677†	1936.6	18.35	0.95%	[100] µg/L
Ba 233.527†	4084.3	26.62	0.65%	[100] µg/L
Be 313.107†	146104.2	648.12	0.44%	[100] µg/L
Cd 226.502†	3664.2	4.85	0.13%	[100] µg/L
Co 228.616†	2035.6	17.68	0.87%	[100] µg/L
Cr 267.716†	4129.5	25.98	0.63%	[100] µg/L
Cu 324.752†	15008.0	109.66	0.73%	[100] µg/L
K 766.490 Radial†	1813.8	67.58	3.73%	[1000] µg/L
Mn 257.610†	29384.7	236.90	0.81%	[100] µg/L
Mo 202.031†	944.7	6.02	0.64%	[100] µg/L
Ni 231.604†	1584.9	13.09	0.83%	[100] µg/L
P 214.914†	257.5	5.04	1.96%	[500] µg/L
Pb 220.353†	340.6	1.22	0.36%	[100] µg/L
S 181.975 Axial†	57.8	0.64	1.12%	[200] µg/L
Sb 206.836†	102.6	1.05	1.03%	[100] µg/L
Se 196.026†	86.4	3.23	3.73%	[100] µg/L
SiO2†	5078.1	55.20	1.09%	[1069.5] µg/L
Si 251.611†	6312.0	74.64	1.18%	[500] µg/L
Sn 189.927†	231.3	6.43	2.78%	[100] µg/L
Sr 421.552†	22324.8	51.49	0.23%	[100] µg/L
Ti 334.940†	38379.4	272.55	0.71%	[100] µg/L
Tl 190.801†	92.8	1.90	2.05%	[100] µg/L
U 409.014†	910.1	66.35	7.29%	[100] µg/L
V 292.402†	8321.6	46.77	0.56%	[100] µg/L
Zn 213.857†	4109.1	31.39	0.76%	[100] µg/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 2/26/2010 13:00:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	110260.3	110260.3	101 %		13:00:35
1	Al 396.153Radial†	9843.2	9923.5	[5000] µg/L		13:00:35
1	Ca 317.933Radial†	15220.4	14690.6	[5000] µg/L		13:00:55
1	K 766.490 Radial†	8949.1	8632.3	[5000] µg/L		13:00:35
1	Mg 279.077 IEC†	507.0	493.4	[5000] µg/L		13:00:55
1	Sr 421.552†	109452.4	108245.5	[500] µg/L		13:00:35
1	Sc 361.383	1683963.2	1683963.2	100.08 %		13:01:59
1	Y 371.029	931583.8	931583.8	99.515 %		13:01:59
1	Ag 328.068†	54423.2	54947.4	[500] µg/L		13:02:05
1	As 188.979†	275.3	278.9	[500] µg/L		13:02:25
1	B 249.677†	9399.7	9233.8	[500] µg/L		13:02:05
1	Ba 233.527†	19192.8	19196.0	[500] µg/L		13:02:05
1	Be 313.107†	694060.4	695473.3	[500] µg/L		13:01:59
1	Cd 226.502†	16817.8	16949.1	[500] µg/L		13:02:05
1	Co 228.616†	9613.8	9584.1	[500] µg/L		13:02:05
1	Cr 267.716†	19370.7	19265.6	[500] µg/L		13:02:05
1	Cu 324.752†	71892.9	69214.6	[500] µg/L		13:02:05
1	Mn 257.610†	136306.7	136746.2	[500] µg/L		13:02:05
1	Mo 202.031†	4508.7	4500.9	[500] µg/L		13:02:25
1	Ni 231.604†	7730.8	7426.2	[500] µg/L		13:02:05
1	P 214.914†	1419.1	1176.5	[2500] µg/L		13:02:25
1	Pb 220.353†	1658.7	1614.6	[500] µg/L		13:02:25
1	S 181.975 Axial†	284.7	263.8	[1000] µg/L		13:02:25
1	Sb 206.836†	488.1	466.7	[500] µg/L		13:02:25
1	Se 196.026†	427.1	413.4	[500] µg/L		13:02:25
1	SiO2†	25641.0	24238.1	[5347.5] µg/L		13:02:05
1	Si 251.611†	30610.3	30222.7	[2500] µg/L		13:02:05
1	Sn 189.927†	1107.4	1102.0	[500] µg/L		13:02:25
1	Ti 334.940†	187413.5	187277.7	[500] µg/L		13:01:59
1	Tl 190.801†	406.7	431.9	[500] µg/L		13:02:25
1	U 409.014†	5150.0	4995.2	[500] µg/L		13:02:05
1	V 292.402†	39009.3	39131.3	[500] µg/L		13:02:05
1	Zn 213.857†	19310.7	18715.6	[500] µg/L		13:02:05
2	Sc RADIAL	109643.4	109643.4	100 %		13:01:01
2	Al 396.153Radial†	9870.1	10005.1	[5000] µg/L		13:01:01
2	Ca 317.933Radial†	15208.1	14763.1	[5000] µg/L		13:01:22
2	K 766.490 Radial†	8929.0	8662.2	[5000] µg/L		13:01:01
2	Mg 279.077 IEC†	502.2	491.4	[5000] µg/L		13:01:22
2	Sr 421.552†	109615.8	109018.1	[500] µg/L		13:01:01
2	Sc 361.383	1666060.3	1666060.3	99.013 %		13:02:32
2	Y 371.029	918687.8	918687.8	98.138 %		13:02:32
2	Ag 328.068†	54768.4	55880.3	[500] µg/L		13:02:37
2	As 188.979†	267.4	273.9	[500] µg/L		13:02:58
2	B 249.677†	9478.2	9414.0	[500] µg/L		13:02:37
2	Ba 233.527†	19321.4	19531.9	[500] µg/L		13:02:37
2	Be 313.107†	688641.3	697452.6	[500] µg/L		13:02:32
2	Cd 226.502†	16934.6	17247.7	[500] µg/L		13:02:37
2	Co 228.616†	9721.2	9795.9	[500] µg/L		13:02:37
2	Cr 267.716†	19490.9	19595.1	[500] µg/L		13:02:37
2	Cu 324.752†	72272.6	70370.1	[500] µg/L		13:02:37
2	Mn 257.610†	136818.5	138726.8	[500] µg/L		13:02:37
2	Mo 202.031†	4477.4	4517.7	[500] µg/L		13:02:58
2	Ni 231.604†	7750.1	7528.7	[500] µg/L		13:02:37
2	P 214.914†	1411.0	1183.6	[2500] µg/L		13:02:58
2	Pb 220.353†	1651.9	1625.5	[500] µg/L		13:02:58
2	S 181.975 Axial†	285.7	267.8	[1000] µg/L		13:02:58
2	Sb 206.836†	494.1	478.0	[500] µg/L		13:02:58
2	Se 196.026†	424.0	414.9	[500] µg/L		13:02:58
2	SiO2†	25816.6	24690.8	[5347.5] µg/L		13:02:37

2	Si 251.611†	30894.5	30838.5	[2500]	µg/L	13:02:37
2	Sn 189.927†	1094.0	1100.4	[500]	µg/L	13:02:58
2	Ti 334.940†	185982.4	187844.7	[500]	µg/L	13:02:32
2	Tl 190.801†	408.9	438.5	[500]	µg/L	13:02:58
2	U 409.014†	5080.2	4980.0	[500]	µg/L	13:02:37
2	V 292.402†	39235.6	39778.7	[500]	µg/L	13:02:37
2	Zn 213.857†	19461.1	19074.8	[500]	µg/L	13:02:37
3	Sc RADIAL	109827.5	109827.5	101	%	13:01:27
3	Al 396.153Radial†	9886.9	10005.4	[5000]	µg/L	13:01:27
3	Ca 317.933Radial†	15184.9	14714.7	[5000]	µg/L	13:01:47
3	K 766.490 Radial†	9013.4	8731.2	[5000]	µg/L	13:01:27
3	Mg 279.077 IEC†	499.0	487.4	[5000]	µg/L	13:01:47
3	Sr 421.552†	110506.4	109720.6	[500]	µg/L	13:01:27
3	Sc 361.383	1680383.1	1680383.1	99.864	%	13:03:05
3	Y 371.029	932881.6	932881.6	99.654	%	13:03:05
3	Ag 328.068†	52984.6	53622.6	[500]	µg/L	13:03:10
3	As 188.979†	237.2	241.4	[500]	µg/L	13:03:31
3	B 249.677†	9131.4	8985.2	[500]	µg/L	13:03:10
3	Ba 233.527†	18390.9	18433.8	[500]	µg/L	13:03:10
3	Be 313.107†	670890.0	673748.9	[500]	µg/L	13:03:05
3	Cd 226.502†	16032.5	16198.5	[500]	µg/L	13:03:10
3	Co 228.616†	9160.4	9150.6	[500]	µg/L	13:03:10
3	Cr 267.716†	18072.8	18007.2	[500]	µg/L	13:03:10
3	Cu 324.752†	68384.0	65854.1	[500]	µg/L	13:03:10
3	Mn 257.610†	129307.5	130027.7	[500]	µg/L	13:03:10
3	Mo 202.031†	3933.8	3934.8	[500]	µg/L	13:03:31
3	Ni 231.604†	7324.2	7035.5	[500]	µg/L	13:03:10
3	P 214.914†	1297.4	1057.7	[2500]	µg/L	13:03:31
3	Pb 220.353†	1494.4	1453.6	[500]	µg/L	13:03:31
3	S 181.975 Axial†	262.5	242.1	[1000]	µg/L	13:03:31
3	Sb 206.836†	439.9	419.5	[500]	µg/L	13:03:31
3	Se 196.026†	391.9	379.1	[500]	µg/L	13:03:31
3	SiO2†	24755.3	23405.8	[5347.5]	µg/L	13:03:10
3	Si 251.611†	29589.2	29265.5	[2500]	µg/L	13:03:10
3	Sn 189.927†	945.9	942.7	[500]	µg/L	13:03:31
3	Ti 334.940†	180042.1	180295.3	[500]	µg/L	13:03:05
3	Tl 190.801†	380.5	406.6	[500]	µg/L	13:03:31
3	U 409.014†	4846.7	4702.5	[500]	µg/L	13:03:10
3	V 292.402†	36784.1	36986.1	[500]	µg/L	13:03:10
3	Zn 213.857†	18390.8	17835.6	[500]	µg/L	13:03:10

## Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1676802.2	9473.39	0.56%	99.651	%
Sc RADIAL	109910.4	316.67	0.29%	101	%
Y 371.029	927717.7	7847.03	0.85%	99.102	%
Ag 328.068†	54816.8	1134.50	2.07%	[500]	µg/L
Al 396.153Radial†	9978.0	47.21	0.47%	[5000]	µg/L
As 188.979†	264.7	20.39	7.70%	[500]	µg/L
B 249.677†	9211.0	215.33	2.34%	[500]	µg/L
Ba 233.527†	19053.9	562.69	2.95%	[500]	µg/L
Be 313.107†	688891.6	13151.24	1.91%	[500]	µg/L
Ca 317.933Radial†	14722.8	36.96	0.25%	[5000]	µg/L
Cd 226.502†	16798.4	540.55	3.22%	[500]	µg/L
Co 228.616†	9510.2	328.92	3.46%	[500]	µg/L
Cr 267.716†	18956.0	837.98	4.42%	[500]	µg/L
Cu 324.752†	68479.6	2346.03	3.43%	[500]	µg/L
K 766.490 Radial†	8675.2	50.71	0.58%	[5000]	µg/L
Mg 279.077 IEC†	490.7	3.05	0.62%	[5000]	µg/L
Mn 257.610†	135166.9	4559.51	3.37%	[500]	µg/L
Mo 202.031†	4317.8	331.75	7.68%	[500]	µg/L
Ni 231.604†	7330.1	260.25	3.55%	[500]	µg/L
P 214.914†	1139.3	70.74	6.21%	[2500]	µg/L
Pb 220.353†	1564.6	96.27	6.15%	[500]	µg/L
S 181.975 Axial†	257.9	13.82	5.36%	[1000]	µg/L
Sb 206.836†	454.7	31.03	6.82%	[500]	µg/L
Se 196.026†	402.5	20.24	5.03%	[500]	µg/L
SiO2†	24111.6	651.76	2.70%	[5347.5]	µg/L
Si 251.611†	30108.9	792.67	2.63%	[2500]	µg/L

Sn 189.927†	1048.3	91.53	8.73%	[500] µg/L
Sr 421.552†	108994.8	737.85	0.68%	[500] µg/L
Ti 334.940†	185139.2	4204.56	2.27%	[500] µg/L
Tl 190.801†	425.7	16.85	3.96%	[500] µg/L
U 409.014†	4892.6	164.78	3.37%	[500] µg/L
V 292.402†	38632.0	1461.71	3.78%	[500] µg/L
Zn 213.857†	18542.0	637.59	3.44%	[500] µg/L



Sequence No.: 4  
 Sample ID: SCAL  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 4  
 Date Collected: 2/26/2010 13:03:40  
 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	111155.2	111155.2	102 %	13:04:14
1	Al 396.153Radial†	20654.3	20466.0	[10000] µg/L	13:04:14
1	Ca 317.933Radial†	31510.3	30572.6	[10000] µg/L	13:04:14
1	Fe 238.204 Radial†	1373.7	1318.2	[10000] µg/L	13:04:34
1	K 766.490 Radial†	18303.6	17751.0	[10000] µg/L	13:04:14
1	Mg 279.077 IEC†	1026.8	1000.0	[10000] µg/L	13:04:34
1	Na 589.592 Radial†	29316.7	28565.9	[10000] µg/L	13:04:14
1	Sr 421.552†	225800.5	221674.9	[1000] µg/L	13:04:14
1	Sc 361.383	1686890.1	1686890.1	100.25 %	13:05:38
1	Y 371.029	931602.9	931602.9	99.517 %	13:05:38
1	Ag 328.068†	113517.0	113799.0	[1000] µg/L	13:05:44
1	As 188.979†	563.9	566.4	[1000] µg/L	13:06:05
1	B 249.677†	19398.4	19191.2	[1000] µg/L	13:05:44
1	Ba 233.527†	39694.8	39613.4	[1000] µg/L	13:05:44
1	Be 313.107†	1415590.9	1413995.4	[1000] µg/L	13:05:38
1	Cd 226.502†	34883.5	34940.4	[1000] µg/L	13:05:44
1	Co 228.616†	19832.2	19760.4	[1000] µg/L	13:05:44
1	Cr 267.716†	40181.8	39991.1	[1000] µg/L	13:05:44
1	Cu 324.752†	145952.5	142964.3	[1000] µg/L	13:05:44
1	Mn 257.610†	280817.8	280659.5	[1000] µg/L	13:05:44
1	Mo 202.031†	9216.6	9189.2	[1000] µg/L	13:06:05
1	Ni 231.604†	15370.7	15033.6	[1000] µg/L	13:06:05
1	P 214.914†	2675.0	2426.9	[5000] µg/L	13:06:05
1	Pb 220.353†	3356.1	3304.9	[1000] µg/L	13:06:05
1	S 181.975 Axial†	561.0	538.9	[2000] µg/L	13:06:05
1	Sb 206.836†	1005.8	982.2	[1000] µg/L	13:06:05
1	Se 196.026†	858.1	842.6	[1000] µg/L	13:06:05
1	SiO2†	51290.4	49778.9	[10695] µg/L	13:05:44
1	Si 251.611†	62580.7	62060.1	[5000] µg/L	13:05:44
1	Sn 189.927†	2258.9	2248.7	[1000] µg/L	13:06:05
1	Ti 334.940†	381107.7	380162.4	[1000] µg/L	13:05:38
1	Tl 190.801†	859.6	883.0	[1000] µg/L	13:06:05
1	U 409.014†	10748.9	10571.1	[1000] µg/L	13:05:44
1	V 292.402†	81287.7	81236.3	[1000] µg/L	13:05:44
1	Zn 213.857†	38662.9	37985.9	[1000] µg/L	13:05:44
2	Sc RADIAL	112184.6	112184.6	103 %	13:04:40
2	Al 396.153Radial†	20740.6	20363.8	[10000] µg/L	13:04:40
2	Ca 317.933Radial†	31704.0	30477.1	[10000] µg/L	13:04:40
2	Fe 238.204 Radial†	1370.1	1302.4	[10000] µg/L	13:05:00
2	K 766.490 Radial†	18372.0	17652.6	[10000] µg/L	13:04:40
2	Mg 279.077 IEC†	1028.6	992.4	[10000] µg/L	13:05:00
2	Na 589.592 Radial†	29463.2	28444.3	[10000] µg/L	13:04:40
2	Sr 421.552†	227444.7	221240.0	[1000] µg/L	13:04:40
2	Sc 361.383	1697004.2	1697004.2	100.85 %	13:06:11
2	Y 371.029	941128.4	941128.4	100.53 %	13:06:11
2	Ag 328.068†	113311.2	112920.0	[1000] µg/L	13:06:17
2	As 188.979†	569.1	568.1	[1000] µg/L	13:06:38
2	B 249.677†	19429.2	19106.4	[1000] µg/L	13:06:17
2	Ba 233.527†	39834.7	39516.1	[1000] µg/L	13:06:17
2	Be 313.107†	1425387.9	1415293.9	[1000] µg/L	13:06:11
2	Cd 226.502†	34865.9	34715.7	[1000] µg/L	13:06:17
2	Co 228.616†	19839.5	19649.7	[1000] µg/L	13:06:17
2	Cr 267.716†	40127.7	39698.6	[1000] µg/L	13:06:17
2	Cu 324.752†	146038.1	142181.5	[1000] µg/L	13:06:17
2	Mn 257.610†	281191.8	279360.9	[1000] µg/L	13:06:17
2	Mo 202.031†	9223.6	9141.3	[1000] µg/L	13:06:38
2	Ni 231.604†	15369.3	14940.9	[1000] µg/L	13:06:38
2	P 214.914†	2672.1	2408.1	[5000] µg/L	13:06:38
2	Pb 220.353†	3356.3	3285.1	[1000] µg/L	13:06:38

2	S 181.975 Axial†	574.6	549.1	[2000]	µg/L	13:06:38
2	Sb 206.836†	1003.0	973.5	[1000]	µg/L	13:06:38
2	Se 196.026†	861.8	841.2	[1000]	µg/L	13:06:38
2	SiO2†	51514.0	49695.7	[10695]	µg/L	13:06:17
2	Si 251.611†	62935.5	62039.9	[5000]	µg/L	13:06:17
2	Sn 189.927†	2254.3	2230.7	[1000]	µg/L	13:06:38
2	Ti 334.940†	383328.4	380098.8	[1000]	µg/L	13:06:11
2	Tl 190.801†	863.2	881.5	[1000]	µg/L	13:06:38
2	U 409.014†	10771.0	10529.2	[1000]	µg/L	13:06:17
2	V 292.402†	81323.3	80788.3	[1000]	µg/L	13:06:17
2	Zn 213.857†	38757.2	37849.6	[1000]	µg/L	13:06:17
3	Sc RADIAL	111477.0	111477.0	102	%	13:05:06
3	Al 396.153Radial†	20648.8	20402.0	[10000]	µg/L	13:05:06
3	Ca 317.933Radial†	31555.3	30527.4	[10000]	µg/L	13:05:06
3	Fe 238.204 Radial†	1373.2	1313.9	[10000]	µg/L	13:05:27
3	K 766.490 Radial†	18248.8	17645.4	[10000]	µg/L	13:05:06
3	Mg 279.077 IEC†	1030.0	1000.2	[10000]	µg/L	13:05:27
3	Na 589.592 Radial†	29412.3	28576.4	[10000]	µg/L	13:05:06
3	Sr 421.552†	226300.5	221524.5	[1000]	µg/L	13:05:06
3	Sc 361.383	1677142.2	1677142.2	99.671	%	13:06:45
3	Y 371.029	932906.8	932906.8	99.657	%	13:06:45
3	Ag 328.068†	109785.6	110713.4	[1000]	µg/L	13:06:50
3	As 188.979†	495.9	501.4	[1000]	µg/L	13:07:11
3	B 249.677†	18667.2	18570.1	[1000]	µg/L	13:06:50
3	Ba 233.527†	37589.9	37731.7	[1000]	µg/L	13:06:50
3	Be 313.107†	1367875.6	1374330.1	[1000]	µg/L	13:06:45
3	Cd 226.502†	32932.0	33184.8	[1000]	µg/L	13:06:50
3	Co 228.616†	18532.7	18571.5	[1000]	µg/L	13:06:50
3	Cr 267.716†	36784.7	36815.8	[1000]	µg/L	13:06:50
3	Cu 324.752†	137116.7	134945.6	[1000]	µg/L	13:06:50
3	Mn 257.610†	263596.1	265009.2	[1000]	µg/L	13:06:50
3	Mo 202.031†	7958.7	7980.5	[1000]	µg/L	13:07:11
3	Ni 231.604†	13320.3	13065.6	[1000]	µg/L	13:07:11
3	P 214.914†	2383.9	2150.3	[5000]	µg/L	13:07:11
3	Pb 220.353†	2999.1	2966.1	[1000]	µg/L	13:07:11
3	S 181.975 Axial†	518.8	499.8	[2000]	µg/L	13:07:11
3	Sb 206.836†	892.4	874.3	[1000]	µg/L	13:07:11
3	Se 196.026†	774.4	763.6	[1000]	µg/L	13:07:11
3	SiO2†	49307.9	48087.3	[10695]	µg/L	13:06:50
3	Si 251.611†	60211.1	60045.6	[5000]	µg/L	13:06:50
3	Sn 189.927†	1920.1	1921.9	[1000]	µg/L	13:07:11
3	Ti 334.940†	366213.3	367428.6	[1000]	µg/L	13:06:45
3	Tl 190.801†	788.8	817.0	[1000]	µg/L	13:07:11
3	U 409.014†	9990.4	9872.5	[1000]	µg/L	13:06:50
3	V 292.402†	75406.1	75806.6	[1000]	µg/L	13:06:50
3	Zn 213.857†	36289.5	35828.8	[1000]	µg/L	13:06:50

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Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1687012.2	9931.57	0.59%	100.26 %
Sc RADIAL	111605.6	526.59	0.47%	102 %
Y 371.029	935212.7	5164.47	0.55%	99.903 %
Ag 328.068†	112477.4	1589.69	1.41%	[1000] µg/L
Al 396.153Radial†	20410.6	51.64	0.25%	[10000] µg/L
As 188.979†	545.3	38.03	6.97%	[1000] µg/L
B 249.677†	18955.9	336.83	1.78%	[1000] µg/L
Ba 233.527†	38953.8	1059.44	2.72%	[1000] µg/L
Be 313.107†	1401206.5	23284.68	1.66%	[1000] µg/L
Ca 317.933Radial†	30525.7	47.77	0.16%	[10000] µg/L
Cd 226.502†	34280.3	955.36	2.79%	[1000] µg/L
Co 228.616†	19327.2	656.75	3.40%	[1000] µg/L
Cr 267.716†	38835.2	1754.92	4.52%	[1000] µg/L
Cu 324.752†	140030.5	4421.02	3.16%	[1000] µg/L
Fe 238.204 Radial†	1311.5	8.19	0.62%	[10000] µg/L
K 766.490 Radial†	17683.0	59.00	0.33%	[10000] µg/L
Mg 279.077 IEC†	997.5	4.43	0.44%	[10000] µg/L
Mn 257.610†	275009.9	8685.16	3.16%	[1000] µg/L
Mo 202.031†	8770.4	684.42	7.80%	[1000] µg/L
Na 589.592 Radial†	28528.9	73.46	0.26%	[10000] µg/L

Ni 231.604†	14346.7	1110.43	7.74%	[1000] µg/L
P 214.914†	2328.4	154.57	6.64%	[5000] µg/L
Pb 220.353†	3185.4	190.15	5.97%	[1000] µg/L
S 181.975 Axial†	529.2	26.02	4.92%	[2000] µg/L
Sb 206.836†	943.4	59.97	6.36%	[1000] µg/L
Se 196.026†	815.8	45.22	5.54%	[1000] µg/L
SiO2†	49187.3	953.55	1.94%	[10695] µg/L
Si 251.611†	61381.9	1157.30	1.89%	[5000] µg/L
Sn 189.927†	2133.8	183.71	8.61%	[1000] µg/L
Sr 421.552†	221479.8	220.88	0.10%	[1000] µg/L
Ti 334.940†	375896.6	7333.58	1.95%	[1000] µg/L
Tl 190.801†	860.5	37.66	4.38%	[1000] µg/L
U 409.014†	10324.3	391.82	3.80%	[1000] µg/L
V 292.402†	79277.1	3013.87	3.80%	[1000] µg/L
Zn 213.857†	37221.4	1207.98	3.25%	[1000] µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 2/26/2010 13:07:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc RADIAL	109415.2	109415.2	100	%	13:07:53
1	Al 396.153Radial†	104101.9	104072.7	[50000]	µg/L	13:07:53
1	Ca 317.933Radial†	154690.2	154003.3	[50000]	µg/L	13:07:53
1	Fe 238.204 Radial†	2687.8	2651.3	[20000]	µg/L	13:08:13
1	Mg 279.077 IEC†	5003.5	4984.9	[50000]	µg/L	13:08:13
1	Na 589.592 Radial†	57874.2	57525.4	[20000]	µg/L	13:07:53
1	Sc 361.383	1674532.3	1674532.3	99.516	%	13:09:17
1	Y 371.029	924652.9	924652.9	98.775	%	13:09:17
2	Sc RADIAL	108323.3	108323.3	99.2	%	13:08:19
2	Al 396.153Radial†	104054.4	105072.0	[50000]	µg/L	13:08:19
2	Ca 317.933Radial†	154003.4	154867.1	[50000]	µg/L	13:08:19
2	Fe 238.204 Radial†	2677.0	2667.4	[20000]	µg/L	13:08:39
2	Mg 279.077 IEC†	4983.5	5015.1	[50000]	µg/L	13:08:39
2	Na 589.592 Radial†	57985.6	58219.9	[20000]	µg/L	13:08:19
2	Sc 361.383	1668694.4	1668694.4	99.169	%	13:09:25
2	Y 371.029	919288.7	919288.7	98.202	%	13:09:25
3	Sc RADIAL	108023.3	108023.3	98.9	%	13:08:45
3	Al 396.153Radial†	103406.3	104708.2	[50000]	µg/L	13:08:45
3	Ca 317.933Radial†	152741.4	154022.5	[50000]	µg/L	13:08:45
3	Fe 238.204 Radial†	2680.1	2678.0	[20000]	µg/L	13:09:05
3	Mg 279.077 IEC†	4982.8	5028.4	[50000]	µg/L	13:09:05
3	Na 589.592 Radial†	57680.0	58073.4	[20000]	µg/L	13:08:45
3	Sc 361.383	1679190.1	1679190.1	99.793	%	13:09:33
3	Y 371.029	924194.2	924194.2	98.726	%	13:09:33

## Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib. Units
Sc 361.383	1674138.9	5258.92	0.31%	99.493	%
Sc RADIAL	108587.3	732.50	0.67%	99.4	%
Y 371.029	922711.9	2973.44	0.32%	98.568	%
Al 396.153Radial†	104617.7	505.77	0.48%	[50000]	µg/L
Ca 317.933Radial†	154297.6	493.27	0.32%	[50000]	µg/L
Fe 238.204 Radial†	2665.6	13.47	0.51%	[20000]	µg/L
Mg 279.077 IEC†	5009.5	22.25	0.44%	[50000]	µg/L
Na 589.592 Radial†	57939.6	366.07	0.63%	[20000]	µg/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	111.9	0.00000	0.999942	
Al 396.153Radial	3	Lin Thru 0	0.0	2.089	0.00000	0.999979	
As 188.979	3	Lin Thru 0	0.0	0.5422	0.00000	0.999930	
B 249.677	3	Lin Thru 0	0.0	18.85	0.00000	0.999933	
Ba 233.527	3	Lin Thru 0	0.0	38.80	0.00000	0.999951	
Be 313.107	3	Lin Thru 0	0.0	1397	0.00000	0.999969	
Ca 317.933Radial	3	Lin Thru 0	0.0	3.083	0.00000	0.999988	
Cd 226.502	3	Lin Thru 0	0.0	34.16	0.00000	0.999947	
Co 228.616	3	Lin Thru 0	0.0	19.27	0.00000	0.999967	
Cr 267.716	3	Lin Thru 0	0.0	38.67	0.00000	0.999936	
Cu 324.752	3	Lin Thru 0	0.0	139.5	0.00000	0.999939	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.1329	0.00000	0.999979	
K 766.490 Radial	3	Lin Thru 0	0.0	1.762	0.00000	0.999968	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.1002	0.00000	0.999998	
Mn 257.610	3	Lin Thru 0	0.0	274.2	0.00000	0.999956	
Mo 202.031	3	Lin Thru 0	0.0	8.749	0.00000	0.999956	
Na 589.592 Radia	2	Lin Thru 0	0.0	2.888	0.00000	0.999981	

Ni 231.604	3	Lin Thru 0	0.0	14.42	0.00000	0.999923
P 214.914	3	Lin Thru 0	0.0	0.4641	0.00000	0.999915
Pb 220.353	3	Lin Thru 0	0.0	3.176	0.00000	0.999954
S 181.975 Axial	3	Lin Thru 0	0.0	0.2635	0.00000	0.999912
Sb 206.836	3	Lin Thru 0	0.0	0.9373	0.00000	0.999860
Se 196.026	3	Lin Thru 0	0.0	0.8140	0.00000	0.999971
SiO2	3	Lin Thru 0	0.0	4.582	0.00000	0.999964
Si 251.611	3	Lin Thru 0	0.0	12.23	0.00000	0.999967
Sn 189.927	3	Lin Thru 0	0.0	2.128	0.00000	0.999946
Sr 421.552	3	Lin Thru 0	0.0	220.8	0.00000	0.999980
Ti 334.940	3	Lin Thru 0	0.0	374.8	0.00000	0.999980
Tl 190.801	3	Lin Thru 0	0.0	0.8592	0.00000	0.999965
U 409.014	3	Lin Thru 0	0.0	10.21	0.00000	0.999732
V 292.402	3	Lin Thru 0	0.0	78.91	0.00000	0.999936
Zn 213.857	3	Lin Thru 0	0.0	37.22	0.00000	0.999956

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 2/26/2010 13:09:41

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	110132.3	110132.3	101 %		13:10:15
1	Al 396.153Radial†	9965.8	10056.4	4801.6 µg/L	4801.6 ppb	13:10:15
1	Ca 317.933Radial†	15212.4	14700.1	4767.6 µg/L	4767.6 ppb	13:10:15
1	Fe 238.204 Radial†	680.5	643.5	4854.6 µg/L	4854.6 ppb	13:10:35
1	K 766.490 Radial†	4472.2	4203.6	2385.6 µg/L	2385.6 ppb	13:10:15
1	Mg 279.077 IEC†	511.5	498.4	4980.5 µg/L	4980.5 ppb	13:10:35
1	Na 589.592 Radial†	6933.3	6639.4	2298.8 µg/L	2298.8 ppb	13:10:15
1	Sr 421.552†	112896.6	111786.6	506.28 µg/L	506.28 ppb	13:10:15
1	Sc 361.383	1685460.8	1685460.8	100.17 %		13:11:39
1	Y 371.029	936222.6	936222.6	100.01 %		13:11:39
1	Ag 328.068†	28349.9	28868.9	261.89 µg/L	261.89 ppb	13:11:45
1	As 188.979†	257.1	260.5	479.34 µg/L	479.34 ppb	13:12:05
1	B 249.677†	9876.4	9701.4	512.84 µg/L	512.84 ppb	13:11:45
1	Ba 233.527†	19728.3	19713.6	508.99 µg/L	508.99 ppb	13:11:45
1	Be 313.107†	362950.2	364295.1	260.58 µg/L	260.58 ppb	13:11:39
1	Cd 226.502†	17127.2	17243.1	504.70 µg/L	504.70 ppb	13:11:45
1	Co 228.616†	9920.5	9881.8	512.16 µg/L	512.16 ppb	13:11:45
1	Cr 267.716†	19203.7	19081.8	493.75 µg/L	493.75 ppb	13:11:45
1	Cu 324.752†	73382.1	70637.5	507.27 µg/L	507.27 ppb	13:11:45
1	Mn 257.610†	142166.1	142475.0	519.49 µg/L	519.49 ppb	13:11:39
1	Mo 202.031†	4835.0	4822.7	551.41 µg/L	551.41 ppb	13:12:05
1	Ni 231.604†	7876.8	7565.1	524.05 µg/L	524.05 ppb	13:11:45
1	P 214.914†	1442.5	1198.6	2535.0 µg/L	2535.0 ppb	13:12:05
1	Pb 220.353†	1650.2	1604.6	505.57 µg/L	505.57 ppb	13:12:05
1	S 181.975 Axial†	691.0	669.2	2539.8 µg/L	2539.8 ppb	13:12:05
1	Sb 206.836†	499.5	477.6	512.90 µg/L	512.90 ppb	13:12:05
1	Se 196.026†	2146.5	2129.6	2628.4 µg/L	2628.4 ppb	13:12:05
1	SiO2†	48217.9	46754.9	10203 µg/L	10203 ppb	13:11:45
1	Si 251.611†	58718.5	58257.3	4762.3 µg/L	4762.3 ppb	13:11:45
1	Sn 189.927†	1189.6	1183.0	556.35 µg/L	556.35 ppb	13:12:05
1	Ti 334.940†	185464.7	185165.8	493.66 µg/L	493.66 ppb	13:11:39
1	Tl 190.801†	430.9	455.8	535.49 µg/L	535.49 ppb	13:12:05
1	U 409.014†	4961.0	4802.0	469.47 µg/L	469.47 ppb	13:11:45
1	V 292.402†	40287.2	40372.5	517.69 µg/L	517.69 ppb	13:11:45
1	Zn 213.857†	19963.0	19349.7	516.16 µg/L	516.16 ppb	13:11:45
2	Sc RADIAL	110647.3	110647.3	101 %		13:10:41
2	Al 396.153Radial†	9964.7	10009.3	4779.1 µg/L	4779.1 ppb	13:10:41
2	Ca 317.933Radial†	15331.4	14747.4	4782.9 µg/L	4782.9 ppb	13:10:41
2	Fe 238.204 Radial†	677.5	637.4	4808.4 µg/L	4808.4 ppb	13:11:01
2	K 766.490 Radial†	4575.0	4284.5	2431.5 µg/L	2431.5 ppb	13:10:41
2	Mg 279.077 IEC†	514.2	498.7	4983.4 µg/L	4983.4 ppb	13:11:01
2	Na 589.592 Radial†	6954.8	6628.6	2295.1 µg/L	2295.1 ppb	13:10:41
2	Sr 421.552†	113375.9	111738.6	506.06 µg/L	506.06 ppb	13:10:41
2	Sc 361.383	1693171.1	1693171.1	100.62 %		13:12:12
2	Y 371.029	942627.9	942627.9	100.70 %		13:12:12
2	Ag 328.068†	28188.7	28579.8	259.27 µg/L	259.27 ppb	13:12:18
2	As 188.979†	263.2	265.4	488.39 µg/L	488.39 ppb	13:12:38
2	B 249.677†	9853.5	9633.8	509.27 µg/L	509.27 ppb	13:12:18
2	Ba 233.527†	19695.5	19591.2	505.83 µg/L	505.83 ppb	13:12:18
2	Be 313.107†	363072.7	362766.8	259.48 µg/L	259.48 ppb	13:12:12
2	Cd 226.502†	17088.0	17126.2	501.28 µg/L	501.28 ppb	13:12:18
2	Co 228.616†	9867.3	9783.9	507.08 µg/L	507.08 ppb	13:12:18
2	Cr 267.716†	19221.3	19011.9	491.94 µg/L	491.94 ppb	13:12:18
2	Cu 324.752†	73135.7	70059.0	503.11 µg/L	503.11 ppb	13:12:18
2	Mn 257.610†	142487.7	142148.3	518.30 µg/L	518.30 ppb	13:12:12
2	Mo 202.031†	4824.9	4790.6	547.74 µg/L	547.74 ppb	13:12:38
2	Ni 231.604†	7833.7	7486.4	518.60 µg/L	518.60 ppb	13:12:18
2	P 214.914†	1437.7	1187.3	2511.0 µg/L	2511.0 ppb	13:12:38
2	Pb 220.353†	1646.4	1593.4	502.02 µg/L	502.02 ppb	13:12:38

2	S 181.975 Axial†	690.0	665.0	2524.0 µg/L	2524.0 ppb	13:12:38
2	Sb 206.836†	495.9	471.8	506.66 µg/L	506.66 ppb	13:12:38
2	Se 196.026†	2144.2	2117.6	2613.4 µg/L	2613.4 ppb	13:12:38
2	SiO2†	48197.7	46515.6	10151 µg/L	10151 ppb	13:12:18
2	Si 251.611†	58584.3	57857.0	4729.6 µg/L	4729.6 ppb	13:12:18
2	Sn 189.927†	1184.7	1172.8	551.52 µg/L	551.52 ppb	13:12:38
2	Ti 334.940†	185672.8	184529.4	491.97 µg/L	491.97 ppb	13:12:12
2	Tl 190.801†	430.7	453.6	532.95 µg/L	532.95 ppb	13:12:38
2	U 409.014†	5042.2	4860.1	475.17 µg/L	475.17 ppb	13:12:18
2	V 292.402†	40136.5	40039.5	513.44 µg/L	513.44 ppb	13:12:18
2	Zn 213.857†	19890.2	19186.6	511.81 µg/L	511.81 ppb	13:12:18
3	Sc RADIAL	109464.8	109464.8	100 %		13:11:07
3	Al 396.153Radial†	9918.9	10069.9	4809.6 µg/L	4809.6 ppb	13:11:07
3	Ca 317.933Radial†	15256.9	14836.5	4811.8 µg/L	4811.8 ppb	13:11:07
3	Fe 238.204 Radial†	679.5	646.5	4876.7 µg/L	4876.7 ppb	13:11:27
3	K 766.490 Radial†	4533.2	4291.5	2435.5 µg/L	2435.5 ppb	13:11:07
3	Mg 279.077 IEC†	511.7	501.7	5011.6 µg/L	5011.6 ppb	13:11:27
3	Na 589.592 Radial†	6945.4	6693.3	2317.5 µg/L	2317.5 ppb	13:11:07
3	Sr 421.552†	112882.9	112455.4	509.31 µg/L	509.31 ppb	13:11:07
3	Sc 361.383	1690137.7	1690137.7	100.44 %		13:12:46
3	Y 371.029	939692.7	939692.7	100.38 %		13:12:46
3	Ag 328.068†	27179.1	27624.9	250.56 µg/L	250.56 ppb	13:12:51
3	As 188.979†	227.6	230.4	424.06 µg/L	424.06 ppb	13:13:12
3	B 249.677†	9513.6	9312.9	492.16 µg/L	492.16 ppb	13:12:51
3	Ba 233.527†	18772.5	18707.5	483.00 µg/L	483.00 ppb	13:12:51
3	Be 313.107†	354777.6	355155.9	254.04 µg/L	254.04 ppb	13:12:46
3	Cd 226.502†	16135.7	16208.6	474.39 µg/L	474.39 ppb	13:12:51
3	Co 228.616†	9358.9	9295.3	481.69 µg/L	481.69 ppb	13:12:51
3	Cr 267.716†	17808.1	17639.3	456.43 µg/L	456.43 ppb	13:12:51
3	Cu 324.752†	69567.0	66636.5	478.59 µg/L	478.59 ppb	13:12:51
3	Mn 257.610†	139015.0	138945.1	506.62 µg/L	506.62 ppb	13:12:46
3	Mo 202.031†	4181.0	4158.2	475.46 µg/L	475.46 ppb	13:13:12
3	Ni 231.604†	7416.4	7085.0	490.79 µg/L	490.79 ppb	13:12:51
3	P 214.914†	1290.6	1043.4	2202.2 µg/L	2202.2 ppb	13:13:12
3	Pb 220.353†	1484.5	1435.1	452.03 µg/L	452.03 ppb	13:13:12
3	S 181.975 Axial†	632.0	608.5	2309.4 µg/L	2309.4 ppb	13:13:12
3	Sb 206.836†	441.9	418.9	449.48 µg/L	449.48 ppb	13:13:12
3	Se 196.026†	1925.2	1903.4	2350.5 µg/L	2350.5 ppb	13:13:12
3	SiO2†	46371.2	44783.2	9772.9 µg/L	9772.9 ppb	13:12:51
3	Si 251.611†	56262.9	55650.3	4549.2 µg/L	4549.2 ppb	13:12:51
3	Sn 189.927†	1014.7	1005.7	473.02 µg/L	473.02 ppb	13:13:12
3	Ti 334.940†	180783.1	179992.5	479.86 µg/L	479.86 ppb	13:12:46
3	Tl 190.801†	397.6	421.5	495.46 µg/L	495.46 ppb	13:13:12
3	U 409.014†	4678.2	4506.7	440.53 µg/L	440.53 ppb	13:12:51
3	V 292.402†	37758.7	37743.8	483.68 µg/L	483.68 ppb	13:12:51
3	Zn 213.857†	18827.6	18164.2	484.50 µg/L	484.50 ppb	13:12:51

## Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689589.9	100.41 %	0.231			0.23%
Sc RADIAL	110081.5	101 %	0.5			0.54%
Y 371.029	939514.4	100.36 %	0.343			0.34%
Ag 328.068†	28357.9	257.24 µg/L	5.932	257.24 ppb	5.932	2.31%
QC value within limits for Ag 328.068 Recovery = 102.89%						
Al 396.153Radial†	10045.2	4796.7 µg/L	15.80	4796.7 ppb	15.80	0.33%
QC value within limits for Al 396.153Radial Recovery = 95.93%						
As 188.979†	252.1	463.93 µg/L	34.822	463.93 ppb	34.822	7.51%
QC value within limits for As 188.979 Recovery = 92.79%						
B 249.677†	9549.3	504.75 µg/L	11.054	504.75 ppb	11.054	2.19%
QC value within limits for B 249.677 Recovery = 100.95%						
Ba 233.527†	19337.4	499.28 µg/L	14.181	499.28 ppb	14.181	2.84%
QC value within limits for Ba 233.527 Recovery = 99.86%						
Be 313.107†	360739.3	258.03 µg/L	3.501	258.03 ppb	3.501	1.36%
QC value within limits for Be 313.107 Recovery = 103.21%						
Ca 317.933Radial†	14761.3	4787.5 µg/L	22.46	4787.5 ppb	22.46	0.47%
QC value within limits for Ca 317.933Radial Recovery = 95.75%						
Cd 226.502†	16859.3	493.45 µg/L	16.603	493.45 ppb	16.603	3.36%
QC value within limits for Cd 226.502 Recovery = 98.69%						
Co 228.616†	9653.7	500.31 µg/L	16.323	500.31 ppb	16.323	3.26%

QC value within limits for Co 228.616 Recovery = 100.06%							
Cr 267.716†	18577.6	480.71 µg/L	21.045	480.71 ppb	21.045	4.38%	
QC value within limits for Cr 267.716 Recovery = 96.14%							
Cu 324.752†	69111.0	496.33 µg/L	15.497	496.33 ppb	15.497	3.12%	
QC value within limits for Cu 324.752 Recovery = 99.27%							
Fe 238.204 Radial†	642.5	4846.6 µg/L	34.85	4846.6 ppb	34.85	0.72%	
QC value within limits for Fe 238.204 Radial Recovery = 96.93%							
K 766.490 Radial†	4259.9	2417.6 µg/L	27.72	2417.6 ppb	27.72	1.15%	
QC value within limits for K 766.490 Radial Recovery = 96.70%							
Mg 279.077 IEC†	499.6	4991.8 µg/L	17.17	4991.8 ppb	17.17	0.34%	
QC value within limits for Mg 279.077 IEC Recovery = 99.84%							
Mn 257.610†	141189.4	514.80 µg/L	7.113	514.80 ppb	7.113	1.38%	
QC value within limits for Mn 257.610 Recovery = 102.96%							
Mo 202.031†	4590.5	524.87 µg/L	42.830	524.87 ppb	42.830	8.16%	
QC value within limits for Mo 202.031 Recovery = 104.97%							
Na 589.592 Radial†	6653.8	2303.8 µg/L	12.01	2303.8 ppb	12.01	0.52%	
QC value within limits for Na 589.592 Radial Recovery = 92.15%							
Ni 231.604†	7378.8	511.14 µg/L	17.837	511.14 ppb	17.837	3.49%	
QC value within limits for Ni 231.604 Recovery = 102.23%							
P 214.914†	1143.1	2416.1 µg/L	185.58	2416.1 ppb	185.58	7.68%	
QC value within limits for P 214.914 Recovery = 96.64%							
Pb 220.353†	1544.4	486.54 µg/L	29.936	486.54 ppb	29.936	6.15%	
QC value within limits for Pb 220.353 Recovery = 97.31%							
S 181.975 Axial†	647.6	2457.7 µg/L	128.67	2457.7 ppb	128.67	5.24%	
QC value within limits for S 181.975 Axial Recovery = 98.31%							
Sb 206.836†	456.1	489.68 µg/L	34.952	489.68 ppb	34.952	7.14%	
QC value within limits for Sb 206.836 Recovery = 97.94%							
Se 196.026†	2050.2	2530.8 µg/L	156.26	2530.8 ppb	156.26	6.17%	
QC value within limits for Se 196.026 Recovery = 101.23%							
SiO2†	46017.9	10042 µg/L	234.8	10042 ppb	234.8	2.34%	
QC value within limits for SiO2 Recovery = 93.90%							
Si 251.611†	57254.9	4680.4 µg/L	114.77	4680.4 ppb	114.77	2.45%	
QC value within limits for Si 251.611 Recovery = 93.61%							
Sn 189.927†	1120.5	526.96 µg/L	46.782	526.96 ppb	46.782	8.88%	
QC value within limits for Sn 189.927 Recovery = 105.39%							
Sr 421.552†	111993.5	507.21 µg/L	1.815	507.21 ppb	1.815	0.36%	
QC value within limits for Sr 421.552 Recovery = 101.44%							
Ti 334.940†	183229.2	488.50 µg/L	7.527	488.50 ppb	7.527	1.54%	
QC value within limits for Ti 334.940 Recovery = 97.70%							
Tl 190.801†	443.6	521.30 µg/L	22.418	521.30 ppb	22.418	4.30%	
QC value within limits for Tl 190.801 Recovery = 104.26%							
U 409.014†	4722.9	461.72 µg/L	18.570	461.72 ppb	18.570	4.02%	
QC value within limits for U 409.014 Recovery = 92.34%							
V 292.402†	39385.3	504.94 µg/L	18.533	504.94 ppb	18.533	3.67%	
QC value within limits for V 292.402 Recovery = 100.99%							
Zn 213.857†	18900.1	504.16 µg/L	17.160	504.16 ppb	17.160	3.40%	
QC value within limits for Zn 213.857 Recovery = 100.83%							
All analyte(s) passed QC.							



Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 2/26/2010 13:13:21

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	107313.6	107313.6	98.3 %		13:13:54
1	Al 396.153Radial†	-185.1	-13.4	-6.4653 µg/L	-6.4653 ppb	13:13:54
1	Ca 317.933Radial†	383.9	7.1	2.2988 µg/L	2.2988 ppb	13:14:15
1	Fe 238.204 Radial†	29.8	-0.9	-7.0484 µg/L	-7.0484 ppb	13:14:15
1	K 766.490 Radial†	244.8	18.4	10.436 µg/L	10.436 ppb	13:13:54
1	Mg 279.077 IEC†	10.4	1.8	17.904 µg/L	17.904 ppb	13:14:15
1	Na 589.592 Radial†	252.7	21.9	7.5703 µg/L	7.5703 ppb	13:13:54
1	Sr 421.552†	153.8	1.5	0.0068 µg/L	0.0068 ppb	13:13:54
1	Sc 361.383	1680864.9	1680864.9	99.893 %		13:15:17
1	Y 371.029	929555.4	929555.4	99.299 %		13:15:17
1	Ag 328.068†	-516.3	49.1	0.4385 µg/L	0.4385 ppb	13:15:23
1	As 188.979†	-11.4	-7.6	-13.977 µg/L	-13.977 ppb	13:15:43
1	B 249.677†	186.6	28.1	1.4946 µg/L	1.4946 ppb	13:15:43
1	Ba 233.527†	-14.3	3.6	0.0938 µg/L	0.0938 ppb	13:15:43
1	Be 313.107†	-1920.0	23.8	0.0169 µg/L	0.0169 ppb	13:15:23
1	Cd 226.502†	-145.6	-1.5	-0.0446 µg/L	-0.0446 ppb	13:15:43
1	Co 228.616†	22.1	-0.2	-0.0082 µg/L	-0.0082 ppb	13:15:43
1	Cr 267.716†	69.8	-20.3	-0.5247 µg/L	-0.5247 ppb	13:15:43
1	Cu 324.752†	2750.6	130.5	0.9343 µg/L	0.9343 ppb	13:15:23
1	Mn 257.610†	-523.0	20.6	0.0737 µg/L	0.0737 ppb	13:15:43
1	Mo 202.031†	17.1	12.8	1.4643 µg/L	1.4643 ppb	13:15:43
1	Ni 231.604†	294.0	-4.4	-0.3032 µg/L	-0.3032 ppb	13:15:43
1	P 214.914†	241.3	0.1	0.1336 µg/L	0.1336 ppb	13:15:43
1	Pb 220.353†	49.6	6.8	2.1406 µg/L	2.1406 ppb	13:15:43
1	S 181.975 Axial†	19.5	-1.1	-4.2873 µg/L	-4.2873 ppb	13:15:43
1	Sb 206.836†	21.7	0.7	0.7763 µg/L	0.7763 ppb	13:15:43
1	Se 196.026†	20.1	6.8	8.3179 µg/L	8.3179 ppb	13:15:43
1	SiO2†	1437.8	56.2	12.265 µg/L	12.265 ppb	13:15:23
1	Si 251.611†	404.9	41.3	3.3800 µg/L	3.3800 ppb	13:15:43
1	Sn 189.927†	1.7	-2.8	-1.3355 µg/L	-1.3355 ppb	13:15:43
1	Ti 334.940†	156.0	164.3	0.4369 µg/L	0.4369 ppb	13:15:23
1	Tl 190.801†	-20.0	5.6	6.5308 µg/L	6.5308 ppb	13:15:43
1	U 409.014†	181.4	30.8	3.0148 µg/L	3.0148 ppb	13:15:23
1	V 292.402†	-138.1	13.7	0.1861 µg/L	0.1861 ppb	13:15:23
1	Zn 213.857†	572.5	-7.2	-0.1930 µg/L	-0.1930 ppb	13:15:43
2	Sc RADIAL	107556.6	107556.6	98.5 %		13:14:20
2	Al 396.153Radial†	-140.7	32.1	15.328 µg/L	15.328 ppb	13:14:20
2	Ca 317.933Radial†	388.4	10.8	3.5007 µg/L	3.5007 ppb	13:14:41
2	Fe 238.204 Radial†	31.7	0.9	6.4481 µg/L	6.4481 ppb	13:14:41
2	K 766.490 Radial†	220.4	-6.9	-3.9418 µg/L	-3.9418 ppb	13:14:20
2	Mg 279.077 IEC†	11.5	2.9	29.372 µg/L	29.372 ppb	13:14:41
2	Na 589.592 Radial†	222.3	-9.6	-3.3214 µg/L	-3.3214 ppb	13:14:20
2	Sr 421.552†	138.8	-14.0	-0.0635 µg/L	-0.0635 ppb	13:14:20
2	Sc 361.383	1671154.0	1671154.0	99.316 %		13:15:49
2	Y 371.029	927348.1	927348.1	99.063 %		13:15:49
2	Ag 328.068†	-501.1	61.4	0.5468 µg/L	0.5468 ppb	13:15:55
2	As 188.979†	-4.9	-1.1	-1.9751 µg/L	-1.9751 ppb	13:16:15
2	B 249.677†	180.4	23.0	1.2171 µg/L	1.2171 ppb	13:16:15
2	Ba 233.527†	-26.4	-8.7	-0.2246 µg/L	-0.2246 ppb	13:16:15
2	Be 313.107†	-1883.3	49.5	0.0354 µg/L	0.0354 ppb	13:15:55
2	Cd 226.502†	-142.6	0.7	0.0189 µg/L	0.0189 ppb	13:16:15
2	Co 228.616†	19.9	-2.2	-0.1146 µg/L	-0.1146 ppb	13:16:15
2	Cr 267.716†	75.6	-14.0	-0.3625 µg/L	-0.3625 ppb	13:16:15
2	Cu 324.752†	2785.0	181.2	1.3000 µg/L	1.3000 ppb	13:15:55
2	Mn 257.610†	-521.2	19.4	0.0693 µg/L	0.0693 ppb	13:16:15
2	Mo 202.031†	17.7	13.5	1.5441 µg/L	1.5441 ppb	13:16:15
2	Ni 231.604†	302.6	6.0	0.4186 µg/L	0.4186 ppb	13:16:15
2	P 214.914†	246.1	6.3	13.380 µg/L	13.380 ppb	13:16:15
2	Pb 220.353†	43.5	0.9	0.3012 µg/L	0.3012 ppb	13:16:15

2	S 181.975 Axial†	24.6	4.0	15.350 µg/L	15.350 ppb	13:16:15
2	Sb 206.836†	22.1	1.3	1.3793 µg/L	1.3793 ppb	13:16:15
2	Se 196.026†	11.0	-2.2	-2.7423 µg/L	-2.7423 ppb	13:16:15
2	SiO2†	1398.9	25.3	5.5248 µg/L	5.5248 ppb	13:15:55
2	Si 251.611†	415.2	54.0	4.4180 µg/L	4.4180 ppb	13:16:15
2	Sn 189.927†	3.2	-1.4	-0.6421 µg/L	-0.6421 ppb	13:16:15
2	Ti 334.940†	93.2	101.9	0.2697 µg/L	0.2697 ppb	13:15:55
2	Tl 190.801†	-26.4	-1.0	-1.2044 µg/L	-1.2044 ppb	13:16:15
2	U 409.014†	120.0	-30.0	-2.9449 µg/L	-2.9449 ppb	13:15:55
2	V 292.402†	-176.6	-25.9	-0.3199 µg/L	-0.3199 ppb	13:15:55
2	Zn 213.857†	564.2	-12.2	-0.3342 µg/L	-0.3342 ppb	13:16:15
3	Sc RADIAL	108481.8	108481.8	99.3 %		13:14:46
3	Al 396.153Radial†	-159.3	14.5	6.9171 µg/L	6.9171 ppb	13:14:46
3	Ca 317.933Radial†	401.0	20.1	6.5050 µg/L	6.5050 ppb	13:15:07
3	Fe 238.204 Radial†	31.5	0.4	3.0680 µg/L	3.0680 ppb	13:15:07
3	K 766.490 Radial†	206.3	-23.1	-13.092 µg/L	-13.092 ppb	13:14:46
3	Mg 279.077 IEC†	4.6	-4.1	-41.308 µg/L	-41.308 ppb	13:15:07
3	Na 589.592 Radial†	241.8	8.1	2.8106 µg/L	2.8106 ppb	13:14:46
3	Sr 421.552†	149.9	-4.1	-0.0184 µg/L	-0.0184 ppb	13:14:46
3	Sc 361.383	1664238.1	1664238.1	98.905 %		13:16:21
3	Y 371.029	928336.9	928336.9	99.168 %		13:16:21
3	Ag 328.068†	-488.5	72.0	0.6444 µg/L	0.6444 ppb	13:16:27
3	As 188.979†	-4.9	-1.1	-2.0589 µg/L	-2.0589 ppb	13:16:48
3	B 249.677†	177.8	21.1	1.1201 µg/L	1.1201 ppb	13:16:48
3	Ba 233.527†	-16.2	1.5	0.0402 µg/L	0.0402 ppb	13:16:48
3	Be 313.107†	-1786.8	139.3	0.0995 µg/L	0.0995 ppb	13:16:27
3	Cd 226.502†	-126.4	16.4	0.4792 µg/L	0.4792 ppb	13:16:48
3	Co 228.616†	25.3	3.3	0.1737 µg/L	0.1737 ppb	13:16:48
3	Cr 267.716†	94.8	5.6	0.1458 µg/L	0.1458 ppb	13:16:48
3	Cu 324.752†	2759.8	167.3	1.2001 µg/L	1.2001 ppb	13:16:27
3	Mn 257.610†	-523.4	15.0	0.0578 µg/L	0.0578 ppb	13:16:48
3	Mo 202.031†	16.1	11.9	1.3638 µg/L	1.3638 ppb	13:16:48
3	Ni 231.604†	295.0	-0.4	-0.0289 µg/L	-0.0289 ppb	13:16:48
3	P 214.914†	244.9	6.1	13.091 µg/L	13.091 ppb	13:16:48
3	Pb 220.353†	33.3	-9.2	-2.8802 µg/L	-2.8802 ppb	13:16:48
3	S 181.975 Axial†	19.4	-1.1	-4.2102 µg/L	-4.2102 ppb	13:16:48
3	Sb 206.836†	24.2	3.4	3.6524 µg/L	3.6524 ppb	13:16:48
3	Se 196.026†	19.9	6.9	8.4628 µg/L	8.4628 ppb	13:16:48
3	SiO2†	1415.1	47.6	10.382 µg/L	10.382 ppb	13:16:27
3	Si 251.611†	410.7	51.2	4.1893 µg/L	4.1893 ppb	13:16:48
3	Sn 189.927†	2.5	-2.0	-0.9650 µg/L	-0.9650 ppb	13:16:48
3	Ti 334.940†	169.2	179.2	0.4814 µg/L	0.4814 ppb	13:16:27
3	Tl 190.801†	-24.9	0.4	0.4501 µg/L	0.4501 ppb	13:16:48
3	U 409.014†	160.0	10.9	1.0703 µg/L	1.0703 ppb	13:16:27
3	V 292.402†	-141.1	9.3	0.1301 µg/L	0.1301 ppb	13:16:27
3	Zn 213.857†	572.0	-1.9	-0.0507 µg/L	-0.0507 ppb	13:16:48

## Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1672085.7	99.371 %	0.4964			0.50%
Sc RADIAL	107784.0	98.7 %	0.56			0.57%
Y 371.029	928413.5	99.177 %	0.1181			0.12%
Ag 328.068†	60.8	0.5432 µg/L	0.10297	0.5432 ppb	0.10297	18.95%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.1	5.2598 µg/L	10.99061	5.2598 ppb	10.99061	208.95%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.3	-6.0035 µg/L	6.90503	-6.0035 ppb	6.90503	115.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	24.1	1.2773 µg/L	0.19435	1.2773 ppb	0.19435	15.22%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.2	-0.0302 µg/L	0.17047	-0.0302 ppb	0.17047	563.92%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	70.9	0.0506 µg/L	0.04337	0.0506 ppb	0.04337	85.77%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	12.6	4.1015 µg/L	2.16651	4.1015 ppb	2.16651	52.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.2	0.1512 µg/L	0.28586	0.1512 ppb	0.28586	189.07%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.3	0.0169 µg/L	0.14580	0.0169 ppb	0.14580	860.73%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-9.6 -0.2471 µg/L	0.34983 -0.2471 ppb	0.34983 141.57%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	159.7 1.1448 µg/L	0.18904 1.1448 ppb	0.18904 16.51%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	0.1 0.8226 µg/L	7.02285 0.8226 ppb	7.02285 853.79%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	-3.9 -2.1993 µg/L	11.86020 -2.1993 ppb	11.86020 539.26%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.2 1.9892 µg/L	37.93270 1.9892 ppb	37.93270 >999.9%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	18.4 0.0669 µg/L	0.00818 0.0669 ppb	0.00818 12.22%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	12.8 1.4574 µg/L	0.09031 1.4574 ppb	0.09031 6.20%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	6.8 2.3532 µg/L	5.46022 2.3532 ppb	5.46022 232.04%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	0.4 0.0288 µg/L	0.36435 0.0288 ppb	0.36435 >999.9%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	4.2 8.8682 µg/L	7.56578 8.8682 ppb	7.56578 85.31%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-0.5 -0.1461 µg/L	2.54013 -0.1461 ppb	2.54013 >999.9%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.6 2.2842 µg/L	11.31550 2.2842 ppb	11.31550 495.38%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.8 1.9360 µg/L	1.51671 1.9360 ppb	1.51671 78.34%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.8 4.6795 µg/L	6.42786 4.6795 ppb	6.42786 137.36%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	43.0 9.3909 µg/L	3.47800 9.3909 ppb	3.47800 37.04%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	48.9 3.9958 µg/L	0.54542 3.9958 ppb	0.54542 13.65%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-2.1 -0.9809 µg/L	0.34696 -0.9809 ppb	0.34696 35.37%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.5 -0.0251 µg/L	0.03562 -0.0251 ppb	0.03562 142.08%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	148.5 0.3960 µg/L	0.11160 0.3960 ppb	0.11160 28.18%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	1.7 1.9255 µg/L	4.07319 1.9255 ppb	4.07319 211.54%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	3.9 0.3801 µg/L	3.03925 0.3801 ppb	3.03925 799.69%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-1.0 -0.0012 µg/L	0.27740 -0.0012 ppb	0.27740 >999.9%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	-7.1 -0.1927 µg/L	0.14177 -0.1927 ppb	0.14177 73.59%
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: 2/26/2010 13:16:58

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	107574.9	107574.9	98.5 %		13:17:30
1	Al 396.153Radial†	234.9	413.4	197.64 µg/L	197.64 ppb	13:17:30
1	Ca 317.933Radial†	961.9	592.9	192.30 µg/L	192.30 ppb	13:17:51
1	Fe 238.204 Radial†	42.0	11.4	85.701 µg/L	85.701 ppb	13:17:51
1	K 766.490 Radial†	519.0	296.1	168.06 µg/L	168.06 ppb	13:17:30
1	Mg 279.077 IEC†	33.9	25.7	256.45 µg/L	256.45 ppb	13:17:51
1	Na 589.592 Radial†	1091.9	873.1	302.30 µg/L	302.30 ppb	13:17:30
1	Sr 421.552†	1207.4	1070.6	4.8488 µg/L	4.8488 ppb	13:17:30
1	Sc 361.383	1688148.7	1688148.7	100.33 %		13:18:53
1	Y 371.029	940106.3	940106.3	100.43 %		13:18:53
1	Ag 328.068†	-16.1	549.9	4.9562 µg/L	4.9562 ppb	13:18:58
1	As 188.979†	9.7	13.5	24.833 µg/L	24.833 ppb	13:19:19
1	B 249.677†	1063.5	901.4	47.776 µg/L	47.776 ppb	13:18:58
1	Ba 233.527†	174.6	191.9	4.9553 µg/L	4.9553 ppb	13:19:19
1	Be 313.107†	4722.6	6653.1	4.7605 µg/L	4.7605 ppb	13:18:58
1	Cd 226.502†	23.2	167.4	4.8945 µg/L	4.8945 ppb	13:19:19
1	Co 228.616†	114.0	91.3	4.7378 µg/L	4.7378 ppb	13:19:19
1	Cr 267.716†	261.7	170.7	4.4171 µg/L	4.4171 ppb	13:19:19
1	Cu 324.752†	4053.7	1417.5	10.178 µg/L	10.178 ppb	13:18:58
1	Mn 257.610†	2193.1	2730.2	9.9437 µg/L	9.9437 ppb	13:18:58
1	Mo 202.031†	87.0	82.3	9.4156 µg/L	9.4156 ppb	13:19:19
1	Ni 231.604†	365.4	65.5	4.5408 µg/L	4.5408 ppb	13:19:19
1	P 214.914†	312.4	69.9	149.71 µg/L	149.71 ppb	13:19:19
1	Pb 220.353†	68.5	25.5	7.9797 µg/L	7.9797 ppb	13:19:19
1	S 181.975 Axial†	45.4	24.5	93.159 µg/L	93.159 ppb	13:19:19
1	Sb 206.836†	31.0	9.9	10.632 µg/L	10.632 ppb	13:19:19
1	Se 196.026†	36.9	23.4	28.891 µg/L	28.891 ppb	13:19:19
1	SiO2†	2311.1	920.4	200.85 µg/L	200.85 ppb	13:18:58
1	Si 251.611†	1479.8	1111.0	90.820 µg/L	90.820 ppb	13:19:19
1	Sn 189.927†	23.9	19.2	9.0660 µg/L	9.0660 ppb	13:19:19
1	Ti 334.940†	1756.2	1758.7	4.6746 µg/L	4.6746 ppb	13:18:58
1	Tl 190.801†	-9.3	16.3	19.138 µg/L	19.138 ppb	13:19:19
1	U 409.014†	749.0	595.7	58.337 µg/L	58.337 ppb	13:18:58
1	V 292.402†	243.9	395.0	5.1524 µg/L	5.1524 ppb	13:18:58
1	Zn 213.857†	914.1	330.9	8.8339 µg/L	8.8339 ppb	13:19:19
2	Sc RADIAL	106836.0	106836.0	97.8 %		13:17:56
2	Al 396.153Radial†	222.4	402.2	192.29 µg/L	192.29 ppb	13:17:56
2	Ca 317.933Radial†	963.9	601.6	195.13 µg/L	195.13 ppb	13:18:17
2	Fe 238.204 Radial†	42.6	12.2	92.181 µg/L	92.181 ppb	13:18:17
2	K 766.490 Radial†	487.7	267.7	151.94 µg/L	151.94 ppb	13:17:56
2	Mg 279.077 IEC†	37.8	29.9	298.25 µg/L	298.25 ppb	13:18:17
2	Na 589.592 Radial†	1004.7	791.7	274.12 µg/L	274.12 ppb	13:17:56
2	Sr 421.552†	1232.9	1105.2	5.0052 µg/L	5.0052 ppb	13:17:56
2	Sc 361.383	1674205.3	1674205.3	99.497 %		13:19:25
2	Y 371.029	931146.5	931146.5	99.469 %		13:19:25
2	Ag 328.068†	35.1	601.2	5.4126 µg/L	5.4126 ppb	13:19:30
2	As 188.979†	12.4	16.3	30.075 µg/L	30.075 ppb	13:19:51
2	B 249.677†	1052.1	898.7	47.628 µg/L	47.628 ppb	13:19:30
2	Ba 233.527†	168.2	187.0	4.8267 µg/L	4.8267 ppb	13:19:51
2	Be 313.107†	4648.2	6617.5	4.7349 µg/L	4.7349 ppb	13:19:30
2	Cd 226.502†	27.2	171.6	5.0174 µg/L	5.0174 ppb	13:19:51
2	Co 228.616†	109.6	87.9	4.5593 µg/L	4.5593 ppb	13:19:51
2	Cr 267.716†	249.7	160.8	4.1613 µg/L	4.1613 ppb	13:19:51
2	Cu 324.752†	4018.9	1416.2	10.169 µg/L	10.169 ppb	13:19:30
2	Mn 257.610†	2192.2	2747.5	10.004 µg/L	10.004 ppb	13:19:30
2	Mo 202.031†	89.1	85.2	9.7396 µg/L	9.7396 ppb	13:19:51
2	Ni 231.604†	364.8	68.0	4.7140 µg/L	4.7140 ppb	13:19:51
2	P 214.914†	313.0	73.1	156.57 µg/L	156.57 ppb	13:19:51
2	Pb 220.353†	71.5	29.0	9.1035 µg/L	9.1035 ppb	13:19:51

2	S 181.975 Axial†	45.6	25.1	95.314 µg/L	95.314 ppb	13:19:51
2	Sb 206.836†	29.3	8.4	9.1238 µg/L	9.1238 ppb	13:19:51
2	Se 196.026†	44.1	31.0	38.227 µg/L	38.227 ppb	13:19:51
2	SiO2†	2328.7	957.3	208.91 µg/L	208.91 ppb	13:19:30
2	Si 251.611†	1489.8	1133.4	92.649 µg/L	92.649 ppb	13:19:51
2	Sn 189.927†	28.5	24.1	11.341 µg/L	11.341 ppb	13:19:51
2	Ti 334.940†	1846.1	1863.6	4.9513 µg/L	4.9513 ppb	13:19:30
2	Tl 190.801†	-9.8	15.7	18.386 µg/L	18.386 ppb	13:19:51
2	U 409.014†	666.4	518.9	50.808 µg/L	50.808 ppb	13:19:30
2	V 292.402†	209.3	362.3	4.7326 µg/L	4.7326 ppb	13:19:30
2	Zn 213.857†	919.9	344.2	9.1890 µg/L	9.1890 ppb	13:19:51
3	Sc RADIAL	106926.3	106926.3	97.9 %		13:18:22
3	Al 396.153Radial†	202.5	381.8	182.51 µg/L	182.51 ppb	13:18:22
3	Ca 317.933Radial†	962.3	599.2	194.34 µg/L	194.34 ppb	13:18:43
3	Fe 238.204 Radial†	43.2	12.8	96.350 µg/L	96.350 ppb	13:18:43
3	K 766.490 Radial†	538.4	319.1	181.08 µg/L	181.08 ppb	13:18:22
3	Mg 279.077 IEC†	43.7	35.8	357.63 µg/L	357.63 ppb	13:18:43
3	Na 589.592 Radial†	1075.1	862.7	298.72 µg/L	298.72 ppb	13:18:22
3	Sr 421.552†	1234.3	1105.6	5.0070 µg/L	5.0070 ppb	13:18:22
3	Sc 361.383	1677299.1	1677299.1	99.681 %		13:19:57
3	Y 371.029	931475.0	931475.0	99.504 %		13:19:57
3	Ag 328.068†	34.3	600.3	5.4058 µg/L	5.4058 ppb	13:20:03
3	As 188.979†	6.7	10.6	19.436 µg/L	19.436 ppb	13:20:23
3	B 249.677†	1040.1	884.8	46.888 µg/L	46.888 ppb	13:20:03
3	Ba 233.527†	160.3	178.8	4.6162 µg/L	4.6162 ppb	13:20:23
3	Be 313.107†	4515.1	6475.3	4.6332 µg/L	4.6332 ppb	13:20:03
3	Cd 226.502†	9.3	153.5	4.4880 µg/L	4.4880 ppb	13:20:23
3	Co 228.616†	97.1	75.2	3.9006 µg/L	3.9006 ppb	13:20:23
3	Cr 267.716†	230.5	141.0	3.6502 µg/L	3.6502 ppb	13:20:23
3	Cu 324.752†	4014.0	1403.8	10.081 µg/L	10.081 ppb	13:20:03
3	Mn 257.610†	2102.6	2653.6	9.6582 µg/L	9.6582 ppb	13:20:03
3	Mo 202.031†	88.2	84.1	9.6184 µg/L	9.6184 ppb	13:20:23
3	Ni 231.604†	363.5	66.0	4.5712 µg/L	4.5712 ppb	13:20:23
3	P 214.914†	301.3	60.7	129.92 µg/L	129.92 ppb	13:20:23
3	Pb 220.353†	69.2	26.6	8.3260 µg/L	8.3260 ppb	13:20:23
3	S 181.975 Axial†	50.4	29.9	113.56 µg/L	113.56 ppb	13:20:23
3	Sb 206.836†	23.1	2.2	2.4389 µg/L	2.4389 ppb	13:20:23
3	Se 196.026†	41.1	27.9	34.310 µg/L	34.310 ppb	13:20:23
3	SiO2†	2329.2	953.5	208.08 µg/L	208.08 ppb	13:20:03
3	Si 251.611†	1416.8	1057.3	86.433 µg/L	86.433 ppb	13:20:23
3	Sn 189.927†	21.6	17.1	8.0672 µg/L	8.0672 ppb	13:20:23
3	Ti 334.940†	1789.2	1803.1	4.7850 µg/L	4.7850 ppb	13:20:03
3	Tl 190.801†	-9.3	16.2	19.013 µg/L	19.013 ppb	13:20:23
3	U 409.014†	732.0	583.5	57.136 µg/L	57.136 ppb	13:20:03
3	V 292.402†	219.7	372.3	4.8639 µg/L	4.8639 ppb	13:20:03
3	Zn 213.857†	884.5	307.1	8.1886 µg/L	8.1886 ppb	13:20:23

## Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1679884.4	99.834 %	0.4352			0.44%
Sc RADIAL	107112.4	98.1 %	0.37			0.38%
Y 371.029	934242.6	99.799 %	0.5427			0.54%
Ag 328.068†	583.8	5.2582 µg/L	0.26160	5.2582 ppb	0.26160	4.98%
QC value within limits for Ag 328.068 Recovery = 105.16%						
Al 396.153Radial†	399.1	190.81 µg/L	7.674	190.81 ppb	7.674	4.02%
QC value within limits for Al 396.153Radial Recovery = 95.41%						
As 188.979†	13.4	24.782 µg/L	5.3199	24.782 ppb	5.3199	21.47%
QC value within limits for As 188.979 Recovery = 82.61%						
B 249.677†	895.0	47.431 µg/L	0.4758	47.431 ppb	0.4758	1.00%
QC value within limits for B 249.677 Recovery = 94.86%						
Ba 233.527†	185.9	4.7994 µg/L	0.17120	4.7994 ppb	0.17120	3.57%
QC value within limits for Ba 233.527 Recovery = 95.99%						
Be 313.107†	6582.0	4.7096 µg/L	0.06732	4.7096 ppb	0.06732	1.43%
QC value within limits for Be 313.107 Recovery = 94.19%						
Ca 317.933Radial†	597.9	193.92 µg/L	1.457	193.92 ppb	1.457	0.75%
QC value within limits for Ca 317.933Radial Recovery = 96.96%						
Cd 226.502†	164.2	4.8000 µg/L	0.27707	4.8000 ppb	0.27707	5.77%
QC value within limits for Cd 226.502 Recovery = 96.00%						
Co 228.616†	84.8	4.3992 µg/L	0.44100	4.3992 ppb	0.44100	10.02%

QC value within limits for Co 228.616 Recovery = 87.98%							
Cr 267.716†	157.5	4.0762 µg/L	0.39046	4.0762 ppb	0.39046	9.58%	
QC value within limits for Cr 267.716 Recovery = 81.52%							
Cu 324.752†	1412.5	10.143 µg/L	0.0532	10.143 ppb	0.0532	0.52%	
QC value within limits for Cu 324.752 Recovery = 101.43%							
Fe 238.204 Radial†	12.1	91.410 µg/L	5.3663	91.410 ppb	5.3663	5.87%	
QC value within limits for Fe 238.204 Radial Recovery = 91.41%							
K 766.490 Radial†	294.3	167.02 µg/L	14.600	167.02 ppb	14.600	8.74%	
QC value within limits for K 766.490 Radial Recovery = 111.35%							
Mg 279.077 IEC†	30.5	304.11 µg/L	50.842	304.11 ppb	50.842	16.72%	
QC value within limits for Mg 279.077 IEC Recovery = 101.37%							
Mn 257.610†	2710.5	9.8687 µg/L	0.18486	9.8687 ppb	0.18486	1.87%	
QC value within limits for Mn 257.610 Recovery = 98.69%							
Mo 202.031†	83.9	9.5912 µg/L	0.16370	9.5912 ppb	0.16370	1.71%	
QC value within limits for Mo 202.031 Recovery = 95.91%							
Na 589.592 Radial†	842.5	291.71 µg/L	15.341	291.71 ppb	15.341	5.26%	
QC value within limits for Na 589.592 Radial Recovery = 97.24%							
Ni 231.604†	66.5	4.6087 µg/L	0.09247	4.6087 ppb	0.09247	2.01%	
QC value within limits for Ni 231.604 Recovery = 92.17%							
P 214.914†	67.9	145.40 µg/L	13.837	145.40 ppb	13.837	9.52%	
QC value within limits for P 214.914 Recovery = 96.93%							
Pb 220.353†	27.0	8.4698 µg/L	0.57554	8.4698 ppb	0.57554	6.80%	
QC value within limits for Pb 220.353 Recovery = 84.70%							
S 181.975 Axial†	26.5	100.68 µg/L	11.206	100.68 ppb	11.206	11.13%	
QC value within limits for S 181.975 Axial Recovery = 100.68%							
Sb 206.836†	6.8	7.3982 µg/L	4.36058	7.3982 ppb	4.36058	58.94%	
QC value within limits for Sb 206.836 Recovery = 73.98%							
Se 196.026†	27.5	33.809 µg/L	4.6881	33.809 ppb	4.6881	13.87%	
QC value within limits for Se 196.026 Recovery = 112.70%							
SiO2†	943.7	205.95 µg/L	4.432	205.95 ppb	4.432	2.15%	
QC value within limits for SiO2 Recovery = 96.69%							
Si 251.611†	1100.6	89.967 µg/L	3.1945	89.967 ppb	3.1945	3.55%	
QC value within limits for Si 251.611 Recovery = 89.97%							
Sn 189.927†	20.1	9.4915 µg/L	1.67798	9.4915 ppb	1.67798	17.68%	
QC value within limits for Sn 189.927 Recovery = 94.92%							
Sr 421.552†	1093.8	4.9537 µg/L	0.09081	4.9537 ppb	0.09081	1.83%	
QC value within limits for Sr 421.552 Recovery = 99.07%							
Ti 334.940†	1808.5	4.8036 µg/L	0.13925	4.8036 ppb	0.13925	2.90%	
QC value within limits for Ti 334.940 Recovery = 96.07%							
Tl 190.801†	16.1	18.846 µg/L	0.4033	18.846 ppb	0.4033	2.14%	
QC value within limits for Tl 190.801 Recovery = 94.23%							
U 409.014†	566.0	55.427 µg/L	4.0446	55.427 ppb	4.0446	7.30%	
QC value within limits for U 409.014 Recovery = 110.85%							
V 292.402†	376.6	4.9163 µg/L	0.21471	4.9163 ppb	0.21471	4.37%	
QC value within limits for V 292.402 Recovery = 98.33%							
Zn 213.857†	327.4	8.7372 µg/L	0.50717	8.7372 ppb	0.50717	5.80%	
QC value within limits for Zn 213.857 Recovery = 87.37%							

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: ICSEA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 2/26/2010 13:20:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: ICSEA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	103941.2	103941.2	95.2 %		13:21:14
1	Al 396.153Radial†	993840.6	1044303.9	499790 µg/L	499790 ppb	13:21:08
1	Ca 317.933Radial†	1376364.9	1445625.6	468850 µg/L	468850 ppb	13:21:08
1	Fe 238.204 Radial†	23143.5	24283.3	182780 µg/L	182780 ppb	13:21:14
1	K 766.490 Radial†	173.2	-48.7	-27.661 µg/L	-27.661 ppb	13:21:14
1	Mg 279.077 IEC†	45794.1	48102.5	480090 µg/L	480090 ppb	13:21:14
1	Na 589.592 Radial†	196.9	-28.4	-9.8191 µg/L	-9.8191 ppb	13:21:14
1	Sr 421.552†	861.8	750.4	3.3987 µg/L	3.3987 ppb	13:21:14
1	Sc 361.383	1544612.9	1544612.9	91.795 %		13:21:48
1	Y 371.029	852557.2	852557.2	91.073 %		13:21:48
1	Ag 328.068†	-2922.4	-2617.6	0.2185 µg/L	0.2185 ppb	13:21:48
1	As 188.979†	4.5	8.8	2.3965 µg/L	2.3965 ppb	13:22:09
1	B 249.677†	1472.3	1445.3	-18.722 µg/L	-18.722 ppb	13:21:48
1	Ba 233.527†	236.4	275.4	7.0901 µg/L	7.0901 ppb	13:22:09
1	Be 313.107†	-2566.4	-850.0	-0.6173 µg/L	-0.6173 ppb	13:21:48
1	Cd 226.502†	728.1	937.4	6.7792 µg/L	6.7792 ppb	13:22:09
1	Co 228.616†	70.3	54.3	2.7633 µg/L	2.7633 ppb	13:22:09
1	Cr 267.716†	-6.1	-96.8	-2.5070 µg/L	-2.5070 ppb	13:22:09
1	Cu 324.752†	-2093.2	-4903.3	-0.7854 µg/L	-0.7854 ppb	13:21:48
1	Mn 257.610†	4989.6	5979.8	0.2550 µg/L	0.2550 ppb	13:21:48
1	Mo 202.031†	-62.6	-72.5	-1.3413 µg/L	-1.3413 ppb	13:22:09
1	Ni 231.604†	220.0	-59.0	-1.7203 µg/L	-1.7203 ppb	13:22:09
1	P 214.914†	255.4	36.8	77.472 µg/L	77.472 ppb	13:22:09
1	Pb 220.353†	-71.7	-120.9	-17.519 µg/L	-17.519 ppb	13:22:09
1	S 181.975 Axial†	-9.8	-31.3	-118.92 µg/L	-118.92 ppb	13:22:09
1	Sb 206.836†	18.0	-1.4	-8.6670 µg/L	-8.6670 ppb	13:22:09
1	Se 196.026†	-149.9	-176.6	26.887 µg/L	26.887 ppb	13:22:09
1	SiO2†	1117.7	-165.6	-36.136 µg/L	-36.136 ppb	13:22:09
1	Si 251.611†	368.2	37.1	3.0321 µg/L	3.0321 ppb	13:22:09
1	Sn 189.927†	-128.5	-144.6	-12.452 µg/L	-12.452 ppb	13:22:09
1	Ti 334.940†	8021.9	8747.0	-7.1061 µg/L	-7.1061 ppb	13:21:48
1	Tl 190.801†	17.5	44.7	-12.948 µg/L	-12.948 ppb	13:22:09
1	U 409.014†	278.3	152.3	-39.089 µg/L	-39.089 ppb	13:21:48
1	V 292.402†	-493.1	-385.2	1.7720 µg/L	1.7720 ppb	13:22:09
1	Zn 213.857†	1783.2	1362.3	0.7570 µg/L	0.7570 ppb	13:22:09
2	Sc RADIAL	103485.4	103485.4	94.8 %		13:21:25
2	Al 396.153Radial†	998169.4	1053470.3	504180 µg/L	504180 ppb	13:21:20
2	Ca 317.933Radial†	1380058.4	1455891.5	472180 µg/L	472180 ppb	13:21:20
2	Fe 238.204 Radial†	22794.6	24022.2	180820 µg/L	180820 ppb	13:21:25
2	K 766.490 Radial†	186.1	-34.4	-19.502 µg/L	-19.502 ppb	13:21:25
2	Mg 279.077 IEC†	45368.6	47865.4	477730 µg/L	477730 ppb	13:21:25
2	Na 589.592 Radial†	206.3	-17.5	-6.0731 µg/L	-6.0731 ppb	13:21:25
2	Sr 421.552†	855.8	748.1	3.3880 µg/L	3.3880 ppb	13:21:25
2	Sc 361.383	1538500.2	1538500.2	91.432 %		13:22:15
2	Y 371.029	855195.9	855195.9	91.355 %		13:22:15
2	Ag 328.068†	-2892.4	-2597.5	0.1477 µg/L	0.1477 ppb	13:22:15
2	As 188.979†	14.1	19.3	21.537 µg/L	21.537 ppb	13:22:36
2	B 249.677†	1429.2	1404.5	-19.861 µg/L	-19.861 ppb	13:22:15
2	Ba 233.527†	255.0	296.8	7.6404 µg/L	7.6404 ppb	13:22:36
2	Be 313.107†	-2441.6	-724.6	-0.5273 µg/L	-0.5273 ppb	13:22:15
2	Cd 226.502†	716.5	927.9	6.7248 µg/L	6.7248 ppb	13:22:36
2	Co 228.616†	76.9	61.8	3.1516 µg/L	3.1516 ppb	13:22:36
2	Cr 267.716†	-7.6	-98.5	-2.5493 µg/L	-2.5493 ppb	13:22:36
2	Cu 324.752†	-2048.4	-4863.4	-0.8687 µg/L	-0.8687 ppb	13:22:15
2	Mn 257.610†	4945.5	5953.2	0.2012 µg/L	0.2012 ppb	13:22:15
2	Mo 202.031†	-61.6	-71.8	-1.3315 µg/L	-1.3315 ppb	13:22:36
2	Ni 231.604†	244.9	-30.8	0.2122 µg/L	0.2122 ppb	13:22:36
2	P 214.914†	230.5	10.6	24.026 µg/L	24.026 ppb	13:22:36
2	Pb 220.353†	-69.9	-119.3	-16.686 µg/L	-16.686 ppb	13:22:36

2	S 181.975 Axial†	-19.8	-42.4	-160.89 µg/L	-160.89 ppb	13:22:36
2	Sb 206.836†	20.9	1.8	-5.2476 µg/L	-5.2476 ppb	13:22:36
2	Se 196.026†	-158.2	-186.4	9.8165 µg/L	9.8165 ppb	13:22:36
2	SiO2†	1150.7	-124.7	-27.204 µg/L	-27.204 ppb	13:22:36
2	Si 251.611†	379.1	50.6	4.1350 µg/L	4.1350 ppb	13:22:36
2	Sn 189.927†	-121.0	-136.9	-8.9975 µg/L	-8.9975 ppb	13:22:36
2	Ti 334.940†	7794.7	8533.3	-7.4360 µg/L	-7.4360 ppb	13:22:15
2	Tl 190.801†	13.8	40.6	-18.511 µg/L	-18.511 ppb	13:22:36
2	U 409.014†	323.1	202.6	-34.093 µg/L	-34.093 ppb	13:22:15
2	V 292.402†	-458.2	-349.2	2.1624 µg/L	2.1624 ppb	13:22:36
2	Zn 213.857†	1777.1	1363.4	1.0033 µg/L	1.0033 ppb	13:22:36
3	Sc RADIAL	103820.2	103820.2	95.1 %		13:21:37
3	Al 396.153Radial†	995343.4	1047101.0	501130 µg/L	501130 ppb	13:21:31
3	Ca 317.933Radial†	1377375.9	1448373.6	469740 µg/L	469740 ppb	13:21:31
3	Fe 238.204 Radial†	22913.1	24069.2	181170 µg/L	181170 ppb	13:21:37
3	K 766.490 Radial†	161.2	-61.2	-34.719 µg/L	-34.719 ppb	13:21:37
3	Mg 279.077 IEC†	45505.1	47854.6	477620 µg/L	477620 ppb	13:21:37
3	Na 589.592 Radial†	235.2	12.1	4.1873 µg/L	4.1873 ppb	13:21:37
3	Sr 421.552†	926.8	819.8	3.7130 µg/L	3.7130 ppb	13:21:37
3	Sc 361.383	1541428.2	1541428.2	91.606 %		13:22:43
3	Y 371.029	851225.3	851225.3	90.931 %		13:22:43
3	Ag 328.068†	-3005.2	-2714.7	-0.8547 µg/L	-0.8547 ppb	13:22:43
3	As 188.979†	12.6	17.6	18.546 µg/L	18.546 ppb	13:23:03
3	B 249.677†	1444.9	1418.7	-19.292 µg/L	-19.292 ppb	13:22:43
3	Ba 233.527†	254.9	296.2	7.6245 µg/L	7.6245 ppb	13:23:03
3	Be 313.107†	-2507.9	-791.8	-0.5755 µg/L	-0.5755 ppb	13:22:43
3	Cd 226.502†	728.4	939.4	7.0210 µg/L	7.0210 ppb	13:23:03
3	Co 228.616†	75.9	60.6	3.0867 µg/L	3.0867 ppb	13:23:03
3	Cr 267.716†	-9.9	-101.0	-2.6139 µg/L	-2.6139 ppb	13:23:03
3	Cu 324.752†	-1961.5	-4764.3	-0.0920 µg/L	-0.0920 ppb	13:22:43
3	Mn 257.610†	5063.2	6071.4	0.6606 µg/L	0.6606 ppb	13:22:43
3	Mo 202.031†	-67.2	-77.7	-1.9994 µg/L	-1.9994 ppb	13:23:03
3	Ni 231.604†	238.7	-38.1	-0.2872 µg/L	-0.2872 ppb	13:23:03
3	P 214.914†	249.8	31.2	67.164 µg/L	67.164 ppb	13:23:03
3	Pb 220.353†	-86.2	-136.9	-22.423 µg/L	-22.423 ppb	13:23:03
3	S 181.975 Axial†	-17.5	-39.8	-151.14 µg/L	-151.14 ppb	13:23:03
3	Sb 206.836†	20.0	0.8	-6.3384 µg/L	-6.3384 ppb	13:23:03
3	Se 196.026†	-150.1	-177.2	22.436 µg/L	22.436 ppb	13:23:03
3	SiO2†	1143.5	-135.0	-29.450 µg/L	-29.450 ppb	13:23:03
3	Si 251.611†	406.9	80.2	6.5538 µg/L	6.5538 ppb	13:23:03
3	Sn 189.927†	-118.7	-134.1	-7.7666 µg/L	-7.7666 ppb	13:23:03
3	Ti 334.940†	7789.0	8510.8	-7.5263 µg/L	-7.5263 ppb	13:22:43
3	Tl 190.801†	14.6	41.5	-16.987 µg/L	-16.987 ppb	13:23:03
3	U 409.014†	269.2	143.0	-39.829 µg/L	-39.829 ppb	13:22:43
3	V 292.402†	-472.1	-363.4	1.9841 µg/L	1.9841 ppb	13:23:03
3	Zn 213.857†	1769.7	1351.6	0.6787 µg/L	0.6787 ppb	13:23:03

## Mean Data: ICSSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1541513.8	91.611 %	0.1817			0.20%
Sc RADIAL	103748.9	95.0 %	0.22			0.23%
Y 371.029	852992.8	91.120 %	0.2159			0.24%
Ag 328.068†	-2643.3	-0.1628 µg/L	0.60025	-0.1628 ppb	0.60025	368.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1048291.8	501700 µg/L	2248.3	501700 ppb	2248.3	0.45%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	15.2	14.160 µg/L	10.2964	14.160 ppb	10.2964	72.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1422.8	-19.292 µg/L	0.5693	-19.292 ppb	0.5693	2.95%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	289.5	7.4517 µg/L	0.31325	7.4517 ppb	0.31325	4.20%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-788.8	-0.5734 µg/L	0.04503	-0.5734 ppb	0.04503	7.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1449963.6	470260 µg/L	1723.6	470260 ppb	1723.6	0.37%
QC value within limits for Ca 317.933Radial Recovery = 94.05%						
Cd 226.502†	934.9	6.8416 µg/L	0.15767	6.8416 ppb	0.15767	2.30%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	58.9	3.0005 µg/L	0.20797	3.0005 ppb	0.20797	6.93%



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-98.8	-2.5567 µg/L	0.05381	-2.5567 ppb	0.05381	2.10%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-4843.7	-0.5821 µg/L	0.42645	-0.5821 ppb	0.42645	73.27%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	24124.9	181590 µg/L	1047.4	181590 ppb	1047.4	0.58%	
QC value within limits for Fe 238.204 Radial Recovery = 90.80%							
K 766.490 Radial†	-48.1	-27.294 µg/L	7.6151	-27.294 ppb	7.6151	27.90%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	47940.8	478480 µg/L	1398.2	478480 ppb	1398.2	0.29%	
QC value within limits for Mg 279.077 IEC Recovery = 95.70%							
Mn 257.610†	6001.5	0.3722 µg/L	0.25116	0.3722 ppb	0.25116	67.47%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-74.0	-1.5574 µg/L	0.38278	-1.5574 ppb	0.38278	24.58%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-11.3	-3.9017 µg/L	7.25130	-3.9017 ppb	7.25130	185.85%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-42.6	-0.5984 µg/L	1.00310	-0.5984 ppb	1.00310	167.63%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	26.2	56.221 µg/L	28.3537	56.221 ppb	28.3537	50.43%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-125.7	-18.876 µg/L	3.1001	-18.876 ppb	3.1001	16.42%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-37.8	-143.65 µg/L	21.967	-143.65 ppb	21.967	15.29%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	0.4	-6.7510 µg/L	1.74666	-6.7510 ppb	1.74666	25.87%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-180.0	19.713 µg/L	8.8550	19.713 ppb	8.8550	44.92%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-141.7	-30.930 µg/L	4.6462	-30.930 ppb	4.6462	15.02%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	55.9	4.5736 µg/L	1.80136	4.5736 ppb	1.80136	39.39%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-138.5	-9.7388 µg/L	2.42922	-9.7388 ppb	2.42922	24.94%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	772.8	3.4999 µg/L	0.18463	3.4999 ppb	0.18463	5.28%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	8597.0	-7.3561 µg/L	0.22120	-7.3561 ppb	0.22120	3.01%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	42.3	-16.149 µg/L	2.8749	-16.149 ppb	2.8749	17.80%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	165.9	-37.670 µg/L	3.1196	-37.670 ppb	3.1196	8.28%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-365.9	1.9728 µg/L	0.19544	1.9728 ppb	0.19544	9.91%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	1359.1	0.8130 µg/L	0.16943	0.8130 ppb	0.16943	20.84%	
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: 2/26/2010 13:23:13

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	103767.5	103767.5	95.0 %		13:23:53
1	Al 396.153Radial†	988171.9	1040086.2	497760 µg/L	497760 ppb	13:23:47
1	Ca 317.933Radial†	1367825.2	1439059.2	466720 µg/L	466720 ppb	13:23:47
1	Fe 238.204 Radial†	22767.2	23928.0	180120 µg/L	180120 ppb	13:23:53
1	K 766.490 Radial†	9109.5	9355.7	5309.5 µg/L	5309.5 ppb	13:23:53
1	Mg 279.077 IEC†	45222.9	47582.0	474910 µg/L	474910 ppb	13:23:53
1	Na 589.592 Radial†	13880.7	14372.2	4976.2 µg/L	4976.2 ppb	13:23:53
1	Sr 421.552†	104666.1	109991.3	498.15 µg/L	498.15 ppb	13:23:53
1	Sc 361.383	1551579.6	1551579.6	92.209 %		13:24:28
1	Y 371.029	862225.5	862225.5	92.106 %		13:24:28
1	Ag 328.068†	23660.5	26225.4	260.80 µg/L	260.80 ppb	13:24:28
1	As 188.979†	278.0	305.3	548.34 µg/L	548.34 ppb	13:24:48
1	B 249.677†	10297.9	11009.3	490.72 µg/L	490.72 ppb	13:24:28
1	Ba 233.527†	17249.4	18724.7	483.47 µg/L	483.47 ppb	13:24:48
1	Be 313.107†	304465.6	332135.3	237.54 µg/L	237.54 ppb	13:24:28
1	Cd 226.502†	14925.9	16331.1	458.12 µg/L	458.12 ppb	13:24:48
1	Co 228.616†	7703.0	8331.6	431.61 µg/L	431.61 ppb	13:24:48
1	Cr 267.716†	16789.1	18117.5	468.81 µg/L	468.81 ppb	13:24:48
1	Cu 324.752†	67348.7	70415.8	538.63 µg/L	538.63 ppb	13:24:28
1	Mn 257.610†	123549.0	134531.7	469.22 µg/L	469.22 ppb	13:24:28
1	Mo 202.031†	3929.2	4256.8	493.39 µg/L	493.39 ppb	13:24:48
1	Ni 231.604†	6207.4	6433.2	447.93 µg/L	447.93 ppb	13:24:48
1	P 214.914†	1321.0	1191.2	2517.0 µg/L	2517.0 ppb	13:24:48
1	Pb 220.353†	1303.0	1370.2	452.02 µg/L	452.02 ppb	13:24:48
1	S 181.975 Axial†	609.2	640.0	2429.0 µg/L	2429.0 ppb	13:24:48
1	Sb 206.836†	454.8	472.3	499.48 µg/L	499.48 ppb	13:24:48
1	Se 196.026†	1605.2	1727.5	2360.8 µg/L	2360.8 ppb	13:24:48
1	SiO2†	46170.3	48688.0	10625 µg/L	10625 ppb	13:24:28
1	Si 251.611†	56667.9	61091.7	4994.0 µg/L	4994.0 ppb	13:24:28
1	Sn 189.927†	860.8	929.0	491.54 µg/L	491.54 ppb	13:24:48
1	Ti 334.940†	179786.9	194984.9	490.11 µg/L	490.11 ppb	13:24:28
1	Tl 190.801†	374.0	431.2	442.38 µg/L	442.38 ppb	13:24:48
1	U 409.014†	4719.9	4967.8	433.17 µg/L	433.17 ppb	13:24:28
1	V 292.402†	35619.1	38780.4	503.41 µg/L	503.41 ppb	13:24:48
1	Zn 213.857†	17590.5	18496.4	458.61 µg/L	458.61 ppb	13:24:48
2	Sc RADIAL	104417.0	104417.0	95.6 %		13:24:05
2	Al 396.153Radial†	996200.6	1042013.8	498690 µg/L	498690 ppb	13:23:59
2	Ca 317.933Radial†	1381020.2	1443904.4	468290 µg/L	468290 ppb	13:23:59
2	Fe 238.204 Radial†	22850.5	23866.0	179650 µg/L	179650 ppb	13:24:05
2	K 766.490 Radial†	9073.3	9258.2	5254.2 µg/L	5254.2 ppb	13:24:05
2	Mg 279.077 IEC†	45380.2	47450.4	473590 µg/L	473590 ppb	13:24:05
2	Na 589.592 Radial†	13999.1	14405.2	4987.7 µg/L	4987.7 ppb	13:24:05
2	Sr 421.552†	105195.5	109859.8	497.55 µg/L	497.55 ppb	13:24:05
2	Sc 361.383	1567999.3	1567999.3	93.185 %		13:24:55
2	Y 371.029	867919.6	867919.6	92.714 %		13:24:55
2	Ag 328.068†	23586.3	25877.2	257.59 µg/L	257.59 ppb	13:24:55
2	As 188.979†	273.4	297.3	533.40 µg/L	533.40 ppb	13:25:16
2	B 249.677†	10259.8	10851.4	482.58 µg/L	482.58 ppb	13:24:55
2	Ba 233.527†	17267.2	18547.9	478.90 µg/L	478.90 ppb	13:25:16
2	Be 313.107†	304920.0	329165.2	235.42 µg/L	235.42 ppb	13:24:55
2	Cd 226.502†	14915.3	16150.3	452.88 µg/L	452.88 ppb	13:25:16
2	Co 228.616†	7741.6	8285.5	429.23 µg/L	429.23 ppb	13:25:16
2	Cr 267.716†	16784.1	17921.3	463.73 µg/L	463.73 ppb	13:25:16
2	Cu 324.752†	67524.2	69839.3	534.41 µg/L	534.41 ppb	13:24:55
2	Mn 257.610†	123440.0	133011.6	463.74 µg/L	463.74 ppb	13:24:55
2	Mo 202.031†	3933.3	4216.6	488.78 µg/L	488.78 ppb	13:25:16
2	Ni 231.604†	6196.5	6351.0	442.23 µg/L	442.23 ppb	13:25:16
2	P 214.914†	1311.8	1166.2	2464.2 µg/L	2464.2 ppb	13:25:16
2	Pb 220.353†	1294.3	1346.1	444.48 µg/L	444.48 ppb	13:25:16

2	S 181.975 Axial†	622.3	647.1	2455.8 µg/L	2455.8 ppb	13:25:16
2	Sb 206.836†	457.5	470.0	497.01 µg/L	497.01 ppb	13:25:16
2	Se 196.026†	1601.7	1705.5	2333.0 µg/L	2333.0 ppb	13:25:16
2	SiO2†	46262.0	48262.0	10532 µg/L	10532 ppb	13:24:55
2	Si 251.611†	56912.6	60710.8	4962.9 µg/L	4962.9 ppb	13:24:55
2	Sn 189.927†	855.5	913.5	484.14 µg/L	484.14 ppb	13:25:16
2	Ti 334.940†	179835.8	192995.7	484.93 µg/L	484.93 ppb	13:24:55
2	Tl 190.801†	363.7	415.9	424.09 µg/L	424.09 ppb	13:25:16
2	U 409.014†	4759.4	4956.6	432.04 µg/L	432.04 ppb	13:24:55
2	V 292.402†	35596.8	38352.0	497.91 µg/L	497.91 ppb	13:25:16
2	Zn 213.857†	17578.5	18283.8	453.02 µg/L	453.02 ppb	13:25:16
3	Sc RADIAL	104623.2	104623.2	95.8 %		13:24:16
3	Al 396.153Radial†	995290.6	1039010.8	497250 µg/L	497250 ppb	13:24:11
3	Ca 317.933Radial†	1378471.0	1438397.3	466510 µg/L	466510 ppb	13:24:11
3	Fe 238.204 Radial†	22974.6	23948.5	180270 µg/L	180270 ppb	13:24:16
3	K 766.490 Radial†	8967.5	9129.1	5180.9 µg/L	5180.9 ppb	13:24:16
3	Mg 279.077 IEC†	45510.3	47492.7	474010 µg/L	474010 ppb	13:24:16
3	Na 589.592 Radial†	13974.1	14350.2	4968.6 µg/L	4968.6 ppb	13:24:16
3	Sr 421.552†	105374.2	109829.5	497.41 µg/L	497.41 ppb	13:24:16
3	Sc 361.383	1558014.6	1558014.6	92.592 %		13:25:23
3	Y 371.029	857502.2	857502.2	91.602 %		13:25:23
3	Ag 328.068†	23576.8	26029.1	259.05 µg/L	259.05 ppb	13:25:23
3	As 188.979†	279.7	305.9	549.39 µg/L	549.39 ppb	13:25:43
3	B 249.677†	10331.3	10999.3	490.10 µg/L	490.10 ppb	13:25:23
3	Ba 233.527†	17258.3	18657.1	481.72 µg/L	481.72 ppb	13:25:43
3	Be 313.107†	305069.8	331424.0	237.04 µg/L	237.04 ppb	13:25:23
3	Cd 226.502†	14911.3	16248.6	455.69 µg/L	455.69 ppb	13:25:43
3	Co 228.616†	7719.6	8314.9	430.75 µg/L	430.75 ppb	13:25:43
3	Cr 267.716†	16781.4	18033.9	466.64 µg/L	466.64 ppb	13:25:43
3	Cu 324.752†	67504.3	70282.2	537.70 µg/L	537.70 ppb	13:25:23
3	Mn 257.610†	123890.4	134347.1	468.61 µg/L	468.61 ppb	13:25:23
3	Mo 202.031†	3947.7	4259.2	493.67 µg/L	493.67 ppb	13:25:43
3	Ni 231.604†	6220.0	6419.0	446.95 µg/L	446.95 ppb	13:25:43
3	P 214.914†	1297.8	1160.1	2450.0 µg/L	2450.0 ppb	13:25:43
3	Pb 220.353†	1301.4	1362.7	449.59 µg/L	449.59 ppb	13:25:43
3	S 181.975 Axial†	617.0	645.7	2450.7 µg/L	2450.7 ppb	13:25:43
3	Sb 206.836†	453.0	468.2	495.20 µg/L	495.20 ppb	13:25:43
3	Se 196.026†	1613.3	1729.1	2363.9 µg/L	2363.9 ppb	13:25:43
3	SiO2†	46412.8	48743.1	10637 µg/L	10637 ppb	13:25:23
3	Si 251.611†	57000.5	61197.0	5002.6 µg/L	5002.6 ppb	13:25:23
3	Sn 189.927†	873.6	938.9	496.09 µg/L	496.09 ppb	13:25:43
3	Ti 334.940†	180273.5	194705.2	489.43 µg/L	489.43 ppb	13:25:23
3	Tl 190.801†	372.3	427.7	438.29 µg/L	438.29 ppb	13:25:43
3	U 409.014†	4850.7	5088.0	444.94 µg/L	444.94 ppb	13:25:23
3	V 292.402†	35611.2	38612.4	501.29 µg/L	501.29 ppb	13:25:43
3	Zn 213.857†	17583.4	18410.0	456.33 µg/L	456.33 ppb	13:25:43

## Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1559197.8	92.662 %	0.4917			0.53%
Sc RADIAL	104269.2	95.5 %	0.41			0.43%
Y 371.029	862549.1	92.141 %	0.5572			0.60%
Ag 328.068†	26043.9	259.15 µg/L	1.606	259.15 ppb	1.606	0.62%
QC value within limits for Ag 328.068 Recovery = 103.66%						
Al 396.153Radial†	1040370.3	497900 µg/L	728.2	497900 ppb	728.2	0.15%
QC value within limits for Al 396.153Radial Recovery = 99.58%						
As 188.979†	302.8	543.71 µg/L	8.945	543.71 ppb	8.945	1.65%
QC value within limits for As 188.979 Recovery = 108.74%						
B 249.677†	10953.4	487.80 µg/L	4.532	487.80 ppb	4.532	0.93%
QC value within limits for B 249.677 Recovery = 97.56%						
Ba 233.527†	18643.2	481.37 µg/L	2.304	481.37 ppb	2.304	0.48%
QC value within limits for Ba 233.527 Recovery = 96.27%						
Be 313.107†	330908.2	236.67 µg/L	1.109	236.67 ppb	1.109	0.47%
QC value within limits for Be 313.107 Recovery = 94.67%						
Ca 317.933Radial†	1440453.6	467170 µg/L	975.1	467170 ppb	975.1	0.21%
QC value within limits for Ca 317.933Radial Recovery = 93.43%						
Cd 226.502†	16243.3	455.56 µg/L	2.625	455.56 ppb	2.625	0.58%
QC value within limits for Cd 226.502 Recovery = 91.11%						
Co 228.616†	8310.7	430.53 µg/L	1.207	430.53 ppb	1.207	0.28%

QC value within limits for Co 228.616 Recovery = 86.11%							
Cr 267.716†	18024.2	466.39 µg/L	2.547	466.39 ppb	2.547	0.55%	
QC value within limits for Cr 267.716 Recovery = 93.28%							
Cu 324.752†	70179.1	536.91 µg/L	2.218	536.91 ppb	2.218	0.41%	
QC value within limits for Cu 324.752 Recovery = 107.38%							
Fe 238.204 Radial†	23914.2	180010 µg/L	323.4	180010 ppb	323.4	0.18%	
QC value within limits for Fe 238.204 Radial Recovery = 90.01%							
K 766.490 Radial†	9247.7	5248.2 µg/L	64.50	5248.2 ppb	64.50	1.23%	
QC value within limits for K 766.490 Radial Recovery = 104.96%							
Mg 279.077 IEC†	47508.4	474170 µg/L	670.4	474170 ppb	670.4	0.14%	
QC value within limits for Mg 279.077 IEC Recovery = 94.83%							
Mn 257.610†	133963.4	467.19 µg/L	3.006	467.19 ppb	3.006	0.64%	
QC value within limits for Mn 257.610 Recovery = 93.44%							
Mo 202.031†	4244.2	491.95 µg/L	2.745	491.95 ppb	2.745	0.56%	
QC value within limits for Mo 202.031 Recovery = 98.39%							
Na 589.592 Radial†	14375.9	4977.5 µg/L	9.58	4977.5 ppb	9.58	0.19%	
QC value within limits for Na 589.592 Radial Recovery = 99.55%							
Ni 231.604†	6401.1	445.70 µg/L	3.050	445.70 ppb	3.050	0.68%	
QC value within limits for Ni 231.604 Recovery = 89.14%							
P 214.914†	1172.5	2477.0 µg/L	35.30	2477.0 ppb	35.30	1.43%	
QC value within limits for P 214.914 Recovery = 99.08%							
Pb 220.353†	1359.7	448.69 µg/L	3.849	448.69 ppb	3.849	0.86%	
QC value within limits for Pb 220.353 Recovery = 89.74%							
S 181.975 Axial†	644.3	2445.2 µg/L	14.25	2445.2 ppb	14.25	0.58%	
QC value within limits for S 181.975 Axial Recovery = 97.81%							
Sb 206.836†	470.1	497.23 µg/L	2.151	497.23 ppb	2.151	0.43%	
QC value within limits for Sb 206.836 Recovery = 99.45%							
Se 196.026†	1720.7	2352.6 µg/L	17.01	2352.6 ppb	17.01	0.72%	
QC value within limits for Se 196.026 Recovery = 94.10%							
SiO2†	48564.4	10598 µg/L	57.5	10598 ppb	57.5	0.54%	
QC value within limits for SiO2 Recovery = 99.09%							
Si 251.611†	60999.8	4986.5 µg/L	20.91	4986.5 ppb	20.91	0.42%	
QC value within limits for Si 251.611 Recovery = 99.73%							
Sn 189.927†	927.1	490.59 µg/L	6.030	490.59 ppb	6.030	1.23%	
QC value within limits for Sn 189.927 Recovery = 98.12%							
Sr 421.552†	109893.5	497.70 µg/L	0.390	497.70 ppb	0.390	0.08%	
QC value within limits for Sr 421.552 Recovery = 99.54%							
Ti 334.940†	194228.6	488.16 µg/L	2.814	488.16 ppb	2.814	0.58%	
QC value within limits for Ti 334.940 Recovery = 97.63%							
Tl 190.801†	424.9	434.92 µg/L	9.602	434.92 ppb	9.602	2.21%	
QC value within limits for Tl 190.801 Recovery = 86.98%							
U 409.014†	5004.1	436.72 µg/L	7.139	436.72 ppb	7.139	1.63%	
QC value within limits for U 409.014 Recovery = 87.34%							
V 292.402†	38581.6	500.87 µg/L	2.771	500.87 ppb	2.771	0.55%	
QC value within limits for V 292.402 Recovery = 100.17%							
Zn 213.857†	18396.7	455.99 µg/L	2.807	455.99 ppb	2.807	0.62%	
QC value within limits for Zn 213.857 Recovery = 91.20%							

All analyte(s) passed QC.

Sequence No.: 11  
 Sample ID: LR1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 105  
 Date Collected: 2/26/2010 13:25:54  
 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	104683.1	104683.1	95.9 %		13:26:34
1	Al 396.153Radial†	940971.0	981752.5	469860 µg/L	469860 ppb	13:26:29
1	Ca 317.933Radial†	1317483.3	1373954.3	445610 µg/L	445610 ppb	13:26:29
1	Fe 238.204 Radial†	53112.6	55373.4	416800 µg/L	416800 ppb	13:26:34
1	K 766.490 Radial†	44.2	-184.6	-104.76 µg/L	-104.76 ppb	13:26:34
1	Mg 279.077 IEC†	43574.3	45446.0	453320 µg/L	453320 ppb	13:26:34
1	Na 589.592 Radial†	1267157.1	1321604.7	457590 µg/L	457590 ppb	13:26:29
1	Sr 421.552†	2563.6	2519.2	11.410 µg/L	11.410 ppb	13:26:34
1	Sc 361.383	1544013.8	1544013.8	91.760 %		13:27:08
1	Y 371.029	845910.5	845910.5	90.363 %		13:27:08
1	Ag 328.068†	-5662.7	-5605.3	3.6494 µg/L	3.6494 ppb	13:27:29
1	As 188.979†	-15.3	-12.9	-22.702 µg/L	-22.702 ppb	13:27:29
1	B 249.677†	2980.7	3089.8	-53.592 µg/L	-53.592 ppb	13:27:08
1	Ba 233.527†	518.2	582.7	14.971 µg/L	14.971 ppb	13:27:29
1	Be 313.107†	-8647.8	-7478.6	-5.3638 µg/L	-5.3638 ppb	13:27:08
1	Cd 226.502†	1774.7	2078.3	13.732 µg/L	13.732 ppb	13:27:29
1	Co 228.616†	200.0	195.7	10.077 µg/L	10.077 ppb	13:27:29
1	Cr 267.716†	313.2	251.2	6.4782 µg/L	6.4782 ppb	13:27:29
1	Cu 324.752†	-6949.2	-10196.3	5.2676 µg/L	5.2676 ppb	13:27:29
1	Mn 257.610†	5394.3	6423.0	17.513 µg/L	17.513 ppb	13:27:08
1	Mo 202.031†	-140.3	-157.2	-2.1337 µg/L	-2.1337 ppb	13:27:29
1	Ni 231.604†	215.9	-63.3	1.0144 µg/L	1.0144 ppb	13:27:29
1	P 214.914†	353.6	143.9	113.84 µg/L	113.84 ppb	13:27:29
1	Pb 220.353†	-5.4	-48.8	-20.723 µg/L	-20.723 ppb	13:27:29
1	S 181.975 Axial†	-20.5	-43.0	-163.23 µg/L	-163.23 ppb	13:27:29
1	Sb 206.836†	18.2	-1.2	-8.3023 µg/L	-8.3023 ppb	13:27:29
1	Se 196.026†	-309.5	-350.6	603.03 µg/L	603.03 ppb	13:27:29
1	SiO2†	1217.8	-56.0	-12.221 µg/L	-12.221 ppb	13:27:29
1	Si 251.611†	-156.7	-534.8	-43.716 µg/L	-43.716 ppb	13:27:29
1	Sn 189.927†	-98.6	-112.0	-17.021 µg/L	-17.021 ppb	13:27:29
1	Ti 334.940†	9555.0	10421.2	-0.9163 µg/L	-0.9163 ppb	13:27:08
1	Tl 190.801†	9.3	35.7	32.190 µg/L	32.190 ppb	13:27:29
1	U 409.014†	139180.0	151527.9	14760 µg/L	14760 ppb	13:27:08
1	V 292.402†	-2024.4	-2054.3	4.5633 µg/L	4.5633 ppb	13:27:29
1	Zn 213.857†	2899.5	2579.6	23.909 µg/L	23.909 ppb	13:27:29
2	Sc RADIAL	103650.6	103650.6	94.9 %		13:26:46
2	Al 396.153Radial†	934126.5	984319.6	471080 µg/L	471080 ppb	13:26:40
2	Ca 317.933Radial†	1308346.4	1378018.8	446920 µg/L	446920 ppb	13:26:40
2	Fe 238.204 Radial†	52558.5	55341.4	416560 µg/L	416560 ppb	13:26:46
2	K 766.490 Radial†	168.3	-53.5	-30.353 µg/L	-30.353 ppb	13:26:46
2	Mg 279.077 IEC†	43061.9	45358.9	452450 µg/L	452450 ppb	13:26:46
2	Na 589.592 Radial†	1261268.6	1328568.5	460010 µg/L	460010 ppb	13:26:40
2	Sr 421.552†	2542.9	2524.0	11.431 µg/L	11.431 ppb	13:26:46
2	Sc 361.383	1532332.8	1532332.8	91.066 %		13:27:36
2	Y 371.029	840543.4	840543.4	89.790 %		13:27:36
2	Ag 328.068†	-5654.6	-5643.4	3.2766 µg/L	3.2766 ppb	13:27:56
2	As 188.979†	-12.5	-9.8	-17.166 µg/L	-17.166 ppb	13:27:56
2	B 249.677†	2971.0	3103.8	-52.723 µg/L	-52.723 ppb	13:27:36
2	Ba 233.527†	521.1	590.2	15.163 µg/L	15.163 ppb	13:27:56
2	Be 313.107†	-8793.7	-7710.6	-5.5305 µg/L	-5.5305 ppb	13:27:36
2	Cd 226.502†	1775.5	2094.0	14.216 µg/L	14.216 ppb	13:27:56
2	Co 228.616†	203.0	200.7	10.334 µg/L	10.334 ppb	13:27:56
2	Cr 267.716†	295.0	233.7	6.0275 µg/L	6.0275 ppb	13:27:56
2	Cu 324.752†	-7019.2	-10330.9	4.2577 µg/L	4.2577 ppb	13:27:56
2	Mn 257.610†	5480.7	6562.7	18.067 µg/L	18.067 ppb	13:27:36
2	Mo 202.031†	-149.5	-168.5	-3.4269 µg/L	-3.4269 ppb	13:27:56
2	Ni 231.604†	211.0	-66.9	0.7639 µg/L	0.7639 ppb	13:27:56
2	P 214.914†	359.8	153.6	135.41 µg/L	135.41 ppb	13:27:56
2	Pb 220.353†	-17.1	-61.6	-24.923 µg/L	-24.923 ppb	13:27:56

2	S 181.975 Axial†	-22.7	-45.7	-173.29 µg/L	-173.29 ppb	13:27:56
2	Sb 206.836†	21.9	3.0	-3.8948 µg/L	-3.8948 ppb	13:27:56
2	Se 196.026†	-315.8	-360.1	591.14 µg/L	591.14 ppb	13:27:56
2	SiO2†	1204.7	-60.3	-13.153 µg/L	-13.153 ppb	13:27:56
2	Si 251.611†	-169.9	-550.6	-45.006 µg/L	-45.006 ppb	13:27:56
2	Sn 189.927†	-102.2	-116.8	-19.361 µg/L	-19.361 ppb	13:27:56
2	Ti 334.940†	10019.0	11010.1	0.7445 µg/L	0.7445 ppb	13:27:36
2	Tl 190.801†	1.9	27.6	22.789 µg/L	22.789 ppb	13:27:56
2	U 409.014†	140199.0	153803.2	14982 µg/L	14982 ppb	13:27:36
2	V 292.402†	-2020.5	-2066.8	4.6162 µg/L	4.6162 ppb	13:27:56
2	Zn 213.857†	2908.7	2613.8	24.890 µg/L	24.890 ppb	13:27:56
3	Sc RADIAL	104536.9	104536.9	95.7 %		13:26:58
3	Al 396.153Radial†	935709.9	977629.8	467880 µg/L	467880 ppb	13:26:52
3	Ca 317.933Radial†	1313078.3	1371275.4	444740 µg/L	444740 ppb	13:26:52
3	Fe 238.204 Radial†	53082.6	55419.5	417150 µg/L	417150 ppb	13:26:58
3	K 766.490 Radial†	126.8	-98.3	-55.785 µg/L	-55.785 ppb	13:26:58
3	Mg 279.077 IEC†	43497.5	45429.2	453150 µg/L	453150 ppb	13:26:58
3	Na 589.592 Radial†	1263891.1	1320042.0	457050 µg/L	457050 ppb	13:26:52
3	Sr 421.552†	2545.9	2504.5	11.343 µg/L	11.343 ppb	13:26:58
3	Sc 361.383	1530388.9	1530388.9	90.950 %		13:28:03
3	Y 371.029	839990.5	839990.5	89.731 %		13:28:03
3	Ag 328.068†	-5650.8	-5647.1	3.3190 µg/L	3.3190 ppb	13:28:24
3	As 188.979†	-14.1	-11.6	-20.298 µg/L	-20.298 ppb	13:28:24
3	B 249.677†	2868.6	2995.4	-58.780 µg/L	-58.780 ppb	13:28:03
3	Ba 233.527†	514.0	583.1	14.980 µg/L	14.980 ppb	13:28:24
3	Be 313.107†	-8692.4	-7611.5	-5.4591 µg/L	-5.4591 ppb	13:28:03
3	Cd 226.502†	1767.2	2087.2	13.953 µg/L	13.953 ppb	13:28:24
3	Co 228.616†	192.2	189.0	9.7316 µg/L	9.7316 ppb	13:28:24
3	Cr 267.716†	296.7	236.0	6.0870 µg/L	6.0870 ppb	13:28:24
3	Cu 324.752†	-6984.0	-10301.9	4.5758 µg/L	4.5758 ppb	13:28:24
3	Mn 257.610†	5374.9	6454.0	17.658 µg/L	17.658 ppb	13:28:03
3	Mo 202.031†	-147.2	-166.2	-3.1466 µg/L	-3.1466 ppb	13:28:24
3	Ni 231.604†	219.1	-57.7	1.4091 µg/L	1.4091 ppb	13:28:24
3	P 214.914†	354.0	147.8	121.39 µg/L	121.39 ppb	13:28:24
3	Pb 220.353†	-5.5	-48.9	-21.037 µg/L	-21.037 ppb	13:28:24
3	S 181.975 Axial†	-38.7	-63.2	-239.91 µg/L	-239.91 ppb	13:28:24
3	Sb 206.836†	13.7	-5.9	-13.379 µg/L	-13.379 ppb	13:28:24
3	Se 196.026†	-304.3	-347.9	607.76 µg/L	607.76 ppb	13:28:24
3	SiO2†	1228.8	-32.1	-7.0157 µg/L	-7.0157 ppb	13:28:24
3	Si 251.611†	-138.8	-516.6	-42.233 µg/L	-42.233 ppb	13:28:24
3	Sn 189.927†	-100.6	-115.1	-18.550 µg/L	-18.550 ppb	13:28:24
3	Ti 334.940†	9590.3	10552.7	-0.5660 µg/L	-0.5660 ppb	13:28:03
3	Tl 190.801†	10.5	37.2	34.271 µg/L	34.271 ppb	13:28:24
3	U 409.014†	139310.7	153021.9	14906 µg/L	14906 ppb	13:28:03
3	V 292.402†	-2024.0	-2073.5	4.4759 µg/L	4.4759 ppb	13:28:24
3	Zn 213.857†	2890.4	2597.7	24.387 µg/L	24.387 ppb	13:28:24

## Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1535578.5	91.258 %	0.4380			0.48%
Sc RADIAL	104290.2	95.5 %	0.51			0.54%
Y 371.029	842148.1	89.961 %	0.3493			0.39%
Ag 328.068†	-5631.9	3.4150 µg/L	0.20408	3.4150 ppb	0.20408	5.98%
Al 396.153Radial†	981234.0	469610 µg/L	1615.2	469610 ppb	1615.2	0.34%
QC value within limits for Al 396.153Radial Recovery = 93.92%						
As 188.979†	-11.4	-20.055 µg/L	2.7762	-20.055 ppb	2.7762	13.84%
B 249.677†	3063.0	-55.032 µg/L	3.2748	-55.032 ppb	3.2748	5.95%
Ba 233.527†	585.3	15.038 µg/L	0.1083	15.038 ppb	0.1083	0.72%
Be 313.107†	-7600.2	-5.4511 µg/L	0.08361	-5.4511 ppb	0.08361	1.53%
Ca 317.933Radial†	1374416.2	445760 µg/L	1101.2	445760 ppb	1101.2	0.25%
QC value less than the lower limit for Ca 317.933Radial Recovery = 89.15%						
Cd 226.502†	2086.5	13.967 µg/L	0.2423	13.967 ppb	0.2423	1.74%
Co 228.616†	195.1	10.048 µg/L	0.3024	10.048 ppb	0.3024	3.01%
Cr 267.716†	240.3	6.1976 µg/L	0.24481	6.1976 ppb	0.24481	3.95%
Cu 324.752†	-10276.4	4.7004 µg/L	0.51637	4.7004 ppb	0.51637	10.99%
Fe 238.204 Radial†	55378.1	416840 µg/L	295.5	416840 ppb	295.5	0.07%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 83.37%						
K 766.490 Radial†	-112.1	-63.633 µg/L	37.8194	-63.633 ppb	37.8194	59.43%
Mg 279.077 IEC†	45411.4	452970 µg/L	460.9	452970 ppb	460.9	0.10%

QC value within limits for Mg 279.077 IEC Recovery = 90.59%

Mn 257.610†	6479.9	17.746 µg/L	0.2872	17.746 ppb	0.2872	1.62%
Mo 202.031†	-164.0	-2.9024 µg/L	0.68032	-2.9024 ppb	0.68032	23.44%
Na 589.592 Radial†	1323405.1	458220 µg/L	1571.7	458220 ppb	1571.7	0.34%

QC value within limits for Na 589.592 Radial Recovery = 91.64%

Ni 231.604†	-62.6	1.0625 µg/L	0.32529	1.0625 ppb	0.32529	30.62%
P 214.914†	148.4	123.55 µg/L	10.945	123.55 ppb	10.945	8.86%
Pb 220.353†	-53.1	-22.228 µg/L	2.3393	-22.228 ppb	2.3393	10.52%
S 181.975 Axial†	-50.6	-192.14 µg/L	41.670	-192.14 ppb	41.670	21.69%
Sb 206.836†	-1.4	-8.5253 µg/L	4.74594	-8.5253 ppb	4.74594	55.67%
Se 196.026†	-352.9	600.64 µg/L	8.560	600.64 ppb	8.560	1.43%
SiO2†	-49.5	-10.796 µg/L	3.3071	-10.796 ppb	3.3071	30.63%
Si 251.611†	-534.0	-43.652 µg/L	1.3880	-43.652 ppb	1.3880	3.18%
Sn 189.927†	-114.6	-18.310 µg/L	1.1883	-18.310 ppb	1.1883	6.49%
Sr 421.552†	2515.9	11.395 µg/L	0.0460	11.395 ppb	0.0460	0.40%
Ti 334.940†	10661.3	-0.2459 µg/L	0.87546	-0.2459 ppb	0.87546	355.97%
Tl 190.801†	33.5	29.750 µg/L	6.1178	29.750 ppb	6.1178	20.56%
U 409.014†	152784.3	14883 µg/L	113.2	14883 ppb	113.2	0.76%

QC value within limits for U 409.014 Recovery = 99.22%

V 292.402†	-2064.8	4.5518 µg/L	0.07088	4.5518 ppb	0.07088	1.56%
Zn 213.857†	2597.0	24.395 µg/L	0.4906	24.395 ppb	0.4906	2.01%

QC Failed. Continue with analysis.

Sequence No.: 12  
 Sample ID: LR2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 108  
 Date Collected: 2/26/2010 13:28:33  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	108717.9	108717.9	99.6 %		13:29:16
1	Al 396.153Radial†	669.3	847.2	203.33 µg/L	203.33 ppb	13:29:16
1	Ca 317.933Radial†	571.2	190.1	61.669 µg/L	61.669 ppb	13:29:37
1	Fe 238.204 Radial†	26.2	-4.9	159.48 µg/L	159.48 ppb	13:29:37
1	K 766.490 Radial†	513045.4	515092.3	292320 µg/L	292320 ppb	13:29:11
1	Mg 279.077 IEC†	5.7	-3.0	135.24 µg/L	135.24 ppb	13:29:37
1	Na 589.592 Radial†	740.7	508.7	176.15 µg/L	176.15 ppb	13:29:16
1	Sr 421.552†	2089010.0	2098129.4	9502.3 µg/L	9502.3 ppb	13:29:11
1	Sc 361.383	1675175.8	1675175.8	99.555 %		13:31:07
1	Y 371.029	920522.0	920522.0	98.334 %		13:31:07
1	Ag 328.068†	-5780.7	-5240.7	18.228 µg/L	18.228 ppb	13:31:13
1	As 188.979†	5261.5	5288.9	9734.8 µg/L	9734.8 ppb	13:31:13
1	B 249.677†	90573.7	90820.3	4855.7 µg/L	4855.7 ppb	13:31:07
1	Ba 233.527†	527774.8	530153.9	13681 µg/L	13681 ppb	13:31:07
1	Be 313.107†	3883980.8	3903302.8	2790.4 µg/L	2790.4 ppb	13:31:07
1	Cd 226.502†	321638.6	323221.8	9470.9 µg/L	9470.9 ppb	13:31:07
1	Co 228.616†	177754.7	178527.7	9251.5 µg/L	9251.5 ppb	13:31:07
1	Cr 267.716†	924949.4	928997.2	24029 µg/L	24029 ppb	13:31:07
1	Cu 324.752†	2752181.5	2761871.1	19798 µg/L	19798 ppb	13:31:07
1	Mn 257.610†	2540477.9	2552387.8	9307.4 µg/L	9307.4 ppb	13:31:07
1	Mo 202.031†	85702.6	86081.6	9839.0 µg/L	9839.0 ppb	13:31:07
1	Ni 231.604†	141497.3	141831.7	9824.2 µg/L	9824.2 ppb	13:31:07
1	P 214.914†	9239.8	9039.7	17537 µg/L	17537 ppb	13:31:13
1	Pb 220.353†	76139.5	76437.3	24063 µg/L	24063 ppb	13:31:07
1	S 181.975 Axial†	13379.5	13418.6	50928 µg/L	50928 ppb	13:31:13
1	Sb 206.836†	9165.1	9185.1	9688.1 µg/L	9688.1 ppb	13:31:13
1	Se 196.026†	7776.1	7797.5	9578.7 µg/L	9578.7 ppb	13:31:13
1	SiO2†	446664.1	447279.2	97608 µg/L	97608 ppb	13:31:07
1	Si 251.611†	555039.5	557158.6	45546 µg/L	45546 ppb	13:31:07
1	Sn 189.927†	21292.7	21383.4	10049 µg/L	10049 ppb	13:31:13
1	Ti 334.940†	3530501.6	3546304.5	9460.7 µg/L	9460.7 ppb	13:31:07
1	Tl 190.801†	7916.3	7977.3	9372.8 µg/L	9372.8 ppb	13:31:13
1	U 409.014†	-7408.5	-7592.5	-743.81 µg/L	-743.81 ppb	13:31:07
1	V 292.402†	774314.7	777930.7	9989.1 µg/L	9989.1 ppb	13:31:07
1	Zn 213.857†	526041.3	527814.4	14104 µg/L	14104 ppb	13:31:07
2	Sc RADIAL	107943.8	107943.8	98.8 %		13:29:49
2	Al 396.153Radial†	676.0	858.8	208.26 µg/L	208.26 ppb	13:29:49
2	Ca 317.933Radial†	581.8	205.0	66.490 µg/L	66.490 ppb	13:30:10
2	Fe 238.204 Radial†	24.9	-6.1	151.08 µg/L	151.08 ppb	13:30:10
2	K 766.490 Radial†	512829.9	518570.3	294300 µg/L	294300 ppb	13:29:44
2	Mg 279.077 IEC†	4.9	-3.8	128.34 µg/L	128.34 ppb	13:30:10
2	Na 589.592 Radial†	690.2	463.0	160.30 µg/L	160.30 ppb	13:29:49
2	Sr 421.552†	2086358.7	2110496.3	9558.4 µg/L	9558.4 ppb	13:29:44
2	Sc 361.383	1667192.6	1667192.6	99.080 %		13:31:29
2	Y 371.029	915374.2	915374.2	97.784 %		13:31:29
2	Ag 328.068†	-5661.3	-5148.0	19.232 µg/L	19.232 ppb	13:31:35
2	As 188.979†	5172.2	5224.0	9615.1 µg/L	9615.1 ppb	13:31:35
2	B 249.677†	90498.1	91179.6	4874.9 µg/L	4874.9 ppb	13:31:29
2	Ba 233.527†	527017.6	531928.2	13727 µg/L	13727 ppb	13:31:29
2	Be 313.107†	3879818.5	3917783.2	2800.7 µg/L	2800.7 ppb	13:31:29
2	Cd 226.502†	321668.9	324799.4	9517.1 µg/L	9517.1 ppb	13:31:29
2	Co 228.616†	177447.8	179072.9	9279.8 µg/L	9279.8 ppb	13:31:29
2	Cr 267.716†	923857.5	932344.1	24116 µg/L	24116 ppb	13:31:29
2	Cu 324.752†	2750288.9	2773198.6	19879 µg/L	19879 ppb	13:31:29
2	Mn 257.610†	2536630.5	2560724.0	9337.8 µg/L	9337.8 ppb	13:31:29
2	Mo 202.031†	85551.0	86340.8	9868.7 µg/L	9868.7 ppb	13:31:29
2	Ni 231.604†	141259.7	142272.5	9854.7 µg/L	9854.7 ppb	13:31:29
2	P 214.914†	9064.2	8906.9	17239 µg/L	17239 ppb	13:31:35
2	Pb 220.353†	75973.1	76635.6	24126 µg/L	24126 ppb	13:31:29



2	S 181.975 Axial†	13141.0	13242.3	50259 µg/L	50259 ppb	13:31:35
2	Sb 206.836†	9018.4	9081.1	9576.8 µg/L	9576.8 ppb	13:31:35
2	Se 196.026†	7713.5	7771.8	9547.1 µg/L	9547.1 ppb	13:31:35
2	SiO2†	448758.2	451541.1	98538 µg/L	98538 ppb	13:31:29
2	Si 251.611†	557642.3	562455.2	45979 µg/L	45979 ppb	13:31:29
2	Sn 189.927†	20835.6	21024.5	9880.7 µg/L	9880.7 ppb	13:31:35
2	Ti 334.940†	3527661.4	3560419.2	9498.4 µg/L	9498.4 ppb	13:31:29
2	Tl 190.801†	7861.9	7960.4	9353.5 µg/L	9353.5 ppb	13:31:35
2	U 409.014†	-7379.3	-7598.7	-744.41 µg/L	-744.41 ppb	13:31:29
2	V 292.402†	772728.7	780054.4	10016 µg/L	10016 ppb	13:31:29
2	Zn 213.857†	525581.3	529880.4	14159 µg/L	14159 ppb	13:31:29
3	Sc RADIAL	108379.3	108379.3	99.2 %		13:30:22
3	Al 396.153Radial†	728.5	908.9	244.35 µg/L	244.35 ppb	13:30:22
3	Ca 317.933Radial†	645.6	267.0	86.589 µg/L	86.589 ppb	13:30:42
3	Fe 238.204 Radial†	26.6	-4.4	151.81 µg/L	151.81 ppb	13:30:42
3	K 766.490 Radial†	517197.9	520886.7	295610 µg/L	295610 ppb	13:30:16
3	Mg 279.077 IEC†	-3.6	-12.4	32.193 µg/L	32.193 ppb	13:30:42
3	Na 589.592 Radial†	634.9	404.5	140.04 µg/L	140.04 ppb	13:30:22
3	Sr 421.552†	2112648.1	2128503.4	9639.9 µg/L	9639.9 ppb	13:30:16
3	Sc 361.383	1678637.2	1678637.2	99.760 %		13:31:51
3	Y 371.029	921426.9	921426.9	98.430 %		13:31:51
3	Ag 328.068†	-5208.6	-4655.2	19.563 µg/L	19.563 ppb	13:31:57
3	As 188.979†	4810.9	4826.3	8882.7 µg/L	8882.7 ppb	13:31:57
3	B 249.677†	87894.5	87947.0	4700.3 µg/L	4700.3 ppb	13:31:51
3	Ba 233.527†	503138.8	504365.5	13016 µg/L	13016 ppb	13:31:51
3	Be 313.107†	3669136.8	3679897.8	2630.7 µg/L	2630.7 ppb	13:31:51
3	Cd 226.502†	305108.8	305986.1	8965.8 µg/L	8965.8 ppb	13:31:51
3	Co 228.616†	167818.6	168199.6	8716.3 µg/L	8716.3 ppb	13:31:51
3	Cr 267.716†	855258.0	857222.6	22173 µg/L	22173 ppb	13:31:51
3	Cu 324.752†	2599223.0	2602844.6	18658 µg/L	18658 ppb	13:31:51
3	Mn 257.610†	2396276.8	2402578.1	8761.1 µg/L	8761.1 ppb	13:31:51
3	Mo 202.031†	80996.7	81187.0	9279.6 µg/L	9279.6 ppb	13:31:51
3	Ni 231.604†	133335.0	133356.7	9237.1 µg/L	9237.1 ppb	13:31:51
3	P 214.914†	8321.9	8100.4	15615 µg/L	15615 ppb	13:31:57
3	Pb 220.353†	73141.9	73274.8	23068 µg/L	23068 ppb	13:31:51
3	S 181.975 Axial†	12334.8	12343.8	46849 µg/L	46849 ppb	13:31:57
3	Sb 206.836†	8347.9	8346.9	8805.8 µg/L	8805.8 ppb	13:31:57
3	Se 196.026†	7164.0	7167.9	8805.3 µg/L	8805.3 ppb	13:31:57
3	SiO2†	434304.2	433964.5	94703 µg/L	94703 ppb	13:31:51
3	Si 251.611†	539820.8	540753.7	44205 µg/L	44205 ppb	13:31:51
3	Sn 189.927†	18796.4	18837.0	8852.7 µg/L	8852.7 ppb	13:31:57
3	Ti 334.940†	3339831.8	3347864.0	8931.4 µg/L	8931.4 ppb	13:31:51
3	Tl 190.801†	7561.2	7605.0	8934.5 µg/L	8934.5 ppb	13:31:57
3	U 409.014†	-6944.1	-7111.6	-696.70 µg/L	-696.70 ppb	13:31:51
3	V 292.402†	729440.5	731344.9	9390.1 µg/L	9390.1 ppb	13:31:51
3	Zn 213.857†	498101.3	498717.7	13327 µg/L	13327 ppb	13:31:51

## Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1673668.5	99.465 %	0.3488			0.35%
Sc RADIAL	108347.0	99.2 %	0.36			0.36%
Y 371.029	919107.7	98.183 %	0.3488			0.36%
Ag 328.068†	-5014.6	19.008 µg/L	0.6953	19.008 ppb	0.6953	3.66%
Al 396.153Radial†	871.6	218.65 µg/L	22.399	218.65 ppb	22.399	10.24%
As 188.979†	5113.1	9410.9 µg/L	461.32	9410.9 ppb	461.32	4.90%
QC value within limits for As 188.979 Recovery = 94.11%						
B 249.677†	89982.3	4810.3 µg/L	95.73	4810.3 ppb	95.73	1.99%
QC value within limits for B 249.677 Recovery = 96.21%						
Ba 233.527†	522149.2	13475 µg/L	398.2	13475 ppb	398.2	2.96%
QC value less than the lower limit for Ba 233.527 Recovery = 89.83%						
Be 313.107†	3833661.2	2740.6 µg/L	95.34	2740.6 ppb	95.34	3.48%
QC value within limits for Be 313.107 Recovery = 91.35%						
Ca 317.933Radial†	220.7	71.583 µg/L	13.2175	71.583 ppb	13.2175	18.46%
Cd 226.502†	318002.4	9317.9 µg/L	305.83	9317.9 ppb	305.83	3.28%
QC value within limits for Cd 226.502 Recovery = 93.18%						
Co 228.616†	175266.7	9082.5 µg/L	317.49	9082.5 ppb	317.49	3.50%
QC value within limits for Co 228.616 Recovery = 90.83%						
Cr 267.716†	906188.0	23439 µg/L	1097.6	23439 ppb	1097.6	4.68%
QC value within limits for Cr 267.716 Recovery = 93.76%						

Cu 324.752†	2712638.1	19445 µg/L	682.8	19445 ppb	682.8	3.51%
QC value within limits for Cu 324.752 Recovery = 97.23%						
Fe 238.204 Radial†	-5.2	154.12 µg/L	4.655	154.12 ppb	4.655	3.02%
K 766.490 Radial†	518183.1	294080 µg/L	1655.2	294080 ppb	1655.2	0.56%
QC value within limits for K 766.490 Radial Recovery = 98.03%						
Mg 279.077 IEC†	-6.4	98.590 µg/L	57.6052	98.590 ppb	57.6052	58.43%
Mn 257.610†	2505230.0	9135.5 µg/L	324.53	9135.5 ppb	324.53	3.55%
QC value within limits for Mn 257.610 Recovery = 91.35%						
Mo 202.031†	84536.5	9662.4 µg/L	331.88	9662.4 ppb	331.88	3.43%
QC value within limits for Mo 202.031 Recovery = 96.62%						
Na 589.592 Radial†	458.7	158.83 µg/L	18.098	158.83 ppb	18.098	11.39%
Ni 231.604†	139153.6	9638.7 µg/L	348.08	9638.7 ppb	348.08	3.61%
QC value within limits for Ni 231.604 Recovery = 96.39%						
P 214.914†	8682.3	16797 µg/L	1034.2	16797 ppb	1034.2	6.16%
QC value greater than the upper limit for P 214.914 Recovery = 111.98%						
Pb 220.353†	75449.2	23752 µg/L	593.6	23752 ppb	593.6	2.50%
QC value within limits for Pb 220.353 Recovery = 95.01%						
S 181.975 Axial†	13001.6	49345 µg/L	2187.8	49345 ppb	2187.8	4.43%
QC value within limits for S 181.975 Axial Recovery = 98.69%						
Sb 206.836†	8871.0	9356.9 µg/L	480.48	9356.9 ppb	480.48	5.14%
QC value within limits for Sb 206.836 Recovery = 93.57%						
Se 196.026†	7579.1	9310.4 µg/L	437.68	9310.4 ppb	437.68	4.70%
QC value within limits for Se 196.026 Recovery = 93.10%						
SiO2†	444261.6	96950 µg/L	2000.8	96950 ppb	2000.8	2.06%
QC value within limits for SiO2 Recovery = 90.61%						
Si 251.611†	553455.9	45243 µg/L	924.9	45243 ppb	924.9	2.04%
QC value within limits for Si 251.611 Recovery = 90.49%						
Sn 189.927†	20415.0	9594.3 µg/L	647.73	9594.3 ppb	647.73	6.75%
QC value within limits for Sn 189.927 Recovery = 95.94%						
Sr 421.552†	2112376.4	9566.9 µg/L	69.18	9566.9 ppb	69.18	0.72%
QC value within limits for Sr 421.552 Recovery = 95.67%						
Ti 334.940†	3484862.5	9296.8 µg/L	317.07	9296.8 ppb	317.07	3.41%
QC value within limits for Ti 334.940 Recovery = 92.97%						
Tl 190.801†	7847.6	9220.3 µg/L	247.70	9220.3 ppb	247.70	2.69%
QC value within limits for Tl 190.801 Recovery = 92.20%						
U 409.014†	-7434.2	-728.30 µg/L	27.375	-728.30 ppb	27.375	3.76%
V 292.402†	763110.0	9798.5 µg/L	353.94	9798.5 ppb	353.94	3.61%
QC value within limits for V 292.402 Recovery = 97.99%						
Zn 213.857†	518804.2	13863 µg/L	465.5	13863 ppb	465.5	3.36%
QC value within limits for Zn 213.857 Recovery = 92.42%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 13:32:07

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	111974.6	111974.6	103 %		13:32:45
1	Al 396.153Radial†	9623.1	9559.6	4564.9 µg/L	4564.9 ppb	13:32:45
1	Ca 317.933Radial†	14762.6	14013.3	4544.9 µg/L	4544.9 ppb	13:33:05
1	Fe 238.204 Radial†	662.0	614.3	4634.1 µg/L	4634.1 ppb	13:33:05
1	K 766.490 Radial†	9341.0	8878.8	5038.9 µg/L	5038.9 ppb	13:32:45
1	Mg 279.077 IEC†	495.9	474.8	4744.2 µg/L	4744.2 ppb	13:33:05
1	Na 589.592 Radial†	27454.1	26538.8	9188.8 µg/L	9188.8 ppb	13:32:45
1	Sr 421.552†	106611.8	103815.7	470.18 µg/L	470.18 ppb	13:32:45
1	Sc 361.383	1721888.6	1721888.6	102.33 %		13:34:08
1	Y 371.029	948049.3	948049.3	101.27 %		13:34:08
1	Ag 328.068†	53291.8	52643.9	474.01 µg/L	474.01 ppb	13:34:14
1	As 188.979†	261.8	259.7	478.02 µg/L	478.02 ppb	13:34:34
1	B 249.677†	9382.4	9010.1	476.26 µg/L	476.26 ppb	13:34:14
1	Ba 233.527†	18874.9	18462.9	476.70 µg/L	476.70 ppb	13:34:14
1	Be 313.107†	668584.5	655302.4	468.89 µg/L	468.89 ppb	13:34:08
1	Cd 226.502†	16504.6	16272.9	476.30 µg/L	476.30 ppb	13:34:14
1	Co 228.616†	9479.0	9240.9	478.89 µg/L	478.89 ppb	13:34:14
1	Cr 267.716†	19054.7	18530.5	479.48 µg/L	479.48 ppb	13:34:14
1	Cu 324.752†	70519.6	66290.4	476.07 µg/L	476.07 ppb	13:34:14
1	Mn 257.610†	133143.7	130655.5	476.40 µg/L	476.40 ppb	13:34:14
1	Mo 202.031†	4442.3	4336.7	495.86 µg/L	495.86 ppb	13:34:34
1	Ni 231.604†	7598.1	7126.4	493.66 µg/L	493.66 ppb	13:34:14
1	P 214.914†	1379.3	1106.4	2338.7 µg/L	2338.7 ppb	13:34:34
1	Pb 220.353†	1613.3	1533.7	483.13 µg/L	483.13 ppb	13:34:34
1	S 181.975 Axial†	276.6	249.6	947.38 µg/L	947.38 ppb	13:34:34
1	Sb 206.836†	485.2	453.1	486.05 µg/L	486.05 ppb	13:34:34
1	Se 196.026†	416.0	393.2	494.72 µg/L	494.72 ppb	13:34:34
1	SiO2†	25481.1	23517.5	5132.2 µg/L	5132.2 ppb	13:34:14
1	Si 251.611†	30477.5	29419.3	2404.9 µg/L	2404.9 ppb	13:34:14
1	Sn 189.927†	1061.2	1032.5	485.57 µg/L	485.57 ppb	13:34:34
1	Ti 334.940†	181606.5	177478.3	473.17 µg/L	473.17 ppb	13:34:08
1	Tl 190.801†	397.1	413.6	486.21 µg/L	486.21 ppb	13:34:34
1	U 409.014†	5022.0	4756.8	465.09 µg/L	465.09 ppb	13:34:14
1	V 292.402†	38331.0	37609.9	482.21 µg/L	482.21 ppb	13:34:14
1	Zn 213.857†	19107.3	18091.8	482.58 µg/L	482.58 ppb	13:34:14
2	Sc RADIAL	112054.7	112054.7	103 %		13:33:10
2	Al 396.153Radial†	9588.9	9519.6	4545.7 µg/L	4545.7 ppb	13:33:10
2	Ca 317.933Radial†	14778.6	14018.6	4546.6 µg/L	4546.6 ppb	13:33:31
2	Fe 238.204 Radial†	661.8	613.7	4629.3 µg/L	4629.3 ppb	13:33:31
2	K 766.490 Radial†	9117.5	8654.5	4911.6 µg/L	4911.6 ppb	13:33:10
2	Mg 279.077 IEC†	490.6	469.4	4689.8 µg/L	4689.8 ppb	13:33:31
2	Na 589.592 Radial†	27366.1	26433.8	9152.5 µg/L	9152.5 ppb	13:33:10
2	Sr 421.552†	106282.2	103420.1	468.39 µg/L	468.39 ppb	13:33:10
2	Sc 361.383	1711353.1	1711353.1	101.70 %		13:34:41
2	Y 371.029	948712.5	948712.5	101.35 %		13:34:41
2	Ag 328.068†	53434.6	53105.0	478.14 µg/L	478.14 ppb	13:34:47
2	As 188.979†	265.5	264.9	487.64 µg/L	487.64 ppb	13:35:07
2	B 249.677†	9323.1	9008.2	476.17 µg/L	476.17 ppb	13:34:47
2	Ba 233.527†	18834.6	18536.9	478.61 µg/L	478.61 ppb	13:34:47
2	Be 313.107†	666699.0	657470.7	470.44 µg/L	470.44 ppb	13:34:41
2	Cd 226.502†	16500.1	16367.8	479.08 µg/L	479.08 ppb	13:34:47
2	Co 228.616†	9428.7	9248.5	479.29 µg/L	479.29 ppb	13:34:47
2	Cr 267.716†	19051.2	18641.7	482.35 µg/L	482.35 ppb	13:34:47
2	Cu 324.752†	70701.8	66893.8	480.39 µg/L	480.39 ppb	13:34:47
2	Mn 257.610†	133250.2	131561.1	479.70 µg/L	479.70 ppb	13:34:47
2	Mo 202.031†	4428.4	4349.8	497.35 µg/L	497.35 ppb	13:35:07
2	Ni 231.604†	7593.3	7167.4	496.50 µg/L	496.50 ppb	13:34:47
2	P 214.914†	1377.3	1112.7	2351.8 µg/L	2351.8 ppb	13:35:07
2	Pb 220.353†	1614.1	1544.2	486.41 µg/L	486.41 ppb	13:35:07

2	S 181.975 Axial†	276.7	251.3	953.91 µg/L	953.91 ppb	13:35:07
2	Sb 206.836†	488.9	459.7	493.01 µg/L	493.01 ppb	13:35:07
2	Se 196.026†	422.3	401.9	505.38 µg/L	505.38 ppb	13:35:07
2	SiO2†	25539.2	23728.0	5178.1 µg/L	5178.1 ppb	13:34:47
2	Si 251.611†	30493.4	29618.3	2421.2 µg/L	2421.2 ppb	13:34:47
2	Sn 189.927†	1070.5	1048.0	492.86 µg/L	492.86 ppb	13:35:07
2	Ti 334.940†	181154.8	178126.8	474.90 µg/L	474.90 ppb	13:34:41
2	Tl 190.801†	392.5	411.5	483.74 µg/L	483.74 ppb	13:35:07
2	U 409.014†	5030.2	4795.1	468.84 µg/L	468.84 ppb	13:34:47
2	V 292.402†	38280.8	37791.1	484.52 µg/L	484.52 ppb	13:34:47
2	Zn 213.857†	19021.3	18122.2	483.38 µg/L	483.38 ppb	13:34:47
3	Sc RADIAL	112255.4	112255.4	103 %		13:33:36
3	Al 396.153Radial†	9587.2	9501.2	4538.1 µg/L	4538.1 ppb	13:33:36
3	Ca 317.933Radial†	14673.8	13890.9	4505.2 µg/L	4505.2 ppb	13:33:57
3	Fe 238.204 Radial†	653.3	604.3	4558.1 µg/L	4558.1 ppb	13:33:57
3	K 766.490 Radial†	9075.7	8598.0	4879.5 µg/L	4879.5 ppb	13:33:36
3	Mg 279.077 IEC†	490.0	467.9	4674.7 µg/L	4674.7 ppb	13:33:57
3	Na 589.592 Radial†	27362.2	26382.3	9134.6 µg/L	9134.6 ppb	13:33:36
3	Sr 421.552†	106199.3	103154.4	467.18 µg/L	467.18 ppb	13:33:36
3	Sc 361.383	1712250.8	1712250.8	101.76 %		13:35:14
3	Y 371.029	946732.5	946732.5	101.13 %		13:35:14
3	Ag 328.068†	51574.7	51249.6	461.37 µg/L	461.37 ppb	13:35:19
3	As 188.979†	245.5	245.1	451.28 µg/L	451.28 ppb	13:35:40
3	B 249.677†	8993.0	8679.0	458.69 µg/L	458.69 ppb	13:35:19
3	Ba 233.527†	17969.3	17676.8	456.39 µg/L	456.39 ppb	13:35:19
3	Be 313.107†	654270.6	644913.3	461.45 µg/L	461.45 ppb	13:35:14
3	Cd 226.502†	15661.3	15535.0	454.68 µg/L	454.68 ppb	13:35:19
3	Co 228.616†	8936.9	8760.3	453.93 µg/L	453.93 ppb	13:35:19
3	Cr 267.716†	17741.9	17345.2	448.81 µg/L	448.81 ppb	13:35:19
3	Cu 324.752†	67200.9	63416.9	455.45 µg/L	455.45 ppb	13:35:19
3	Mn 257.610†	125940.3	124308.8	453.25 µg/L	453.25 ppb	13:35:19
3	Mo 202.031†	3924.7	3852.5	440.51 µg/L	440.51 ppb	13:35:40
3	Ni 231.604†	7151.1	6728.9	466.13 µg/L	466.13 ppb	13:35:19
3	P 214.914†	1269.4	1006.0	2123.6 µg/L	2123.6 ppb	13:35:40
3	Pb 220.353†	1473.2	1404.9	442.48 µg/L	442.48 ppb	13:35:40
3	S 181.975 Axial†	260.8	235.6	894.31 µg/L	894.31 ppb	13:35:40
3	Sb 206.836†	450.9	422.1	452.33 µg/L	452.33 ppb	13:35:40
3	Se 196.026†	380.5	360.6	454.45 µg/L	454.45 ppb	13:35:40
3	SiO2†	24589.4	22781.4	4971.5 µg/L	4971.5 ppb	13:35:19
3	Si 251.611†	29403.0	28531.0	2332.3 µg/L	2332.3 ppb	13:35:19
3	Sn 189.927†	932.6	912.0	428.93 µg/L	428.93 ppb	13:35:40
3	Ti 334.940†	177711.2	174649.3	465.63 µg/L	465.63 ppb	13:35:14
3	Tl 190.801†	371.8	391.0	459.76 µg/L	459.76 ppb	13:35:40
3	U 409.014†	4730.3	4497.7	439.72 µg/L	439.72 ppb	13:35:19
3	V 292.402†	36046.3	35575.5	455.90 µg/L	455.90 ppb	13:35:19
3	Zn 213.857†	18111.2	17218.1	459.27 µg/L	459.27 ppb	13:35:19

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1715164.2	101.93 %	0.347			0.34%
Sc RADIAL	112094.9	103 %	0.1			0.13%
Y 371.029	947831.4	101.25 %	0.108			0.11%
Ag 328.068†	52332.8	471.17 µg/L	8.736	471.17 ppb	8.736	1.85%
QC value within limits for Ag 328.068 Recovery = 94.23%						
Al 396.153Radial†	9526.8	4549.6 µg/L	13.82	4549.6 ppb	13.82	0.30%
QC value within limits for Al 396.153Radial Recovery = 90.99%						
As 188.979†	256.6	472.31 µg/L	18.836	472.31 ppb	18.836	3.99%
QC value within limits for As 188.979 Recovery = 94.46%						
B 249.677†	8999.1	470.37 µg/L	10.118	470.37 ppb	10.118	2.15%
QC value within limits for B 249.677 Recovery = 94.07%						
Ba 233.527†	18225.5	470.56 µg/L	12.313	470.56 ppb	12.313	2.62%
QC value within limits for Ba 233.527 Recovery = 94.11%						
Be 313.107†	652562.1	466.93 µg/L	4.803	466.93 ppb	4.803	1.03%
QC value within limits for Be 313.107 Recovery = 93.39%						
Ca 317.933Radial†	13974.3	4532.2 µg/L	23.43	4532.2 ppb	23.43	0.52%
QC value within limits for Ca 317.933Radial Recovery = 90.64%						
Cd 226.502†	16058.6	470.02 µg/L	13.358	470.02 ppb	13.358	2.84%
QC value within limits for Cd 226.502 Recovery = 94.00%						
Co 228.616†	9083.2	470.70 µg/L	14.530	470.70 ppb	14.530	3.09%

QC value within limits for Co 228.616 Recovery = 94.14%							
Cr 267.716†	18172.5	470.21 µg/L	18.592	470.21 ppb	18.592	3.95%	
QC value within limits for Cr 267.716 Recovery = 94.04%							
Cu 324.752†	65533.7	470.64 µg/L	13.326	470.64 ppb	13.326	2.83%	
QC value within limits for Cu 324.752 Recovery = 94.13%							
Fe 238.204 Radial†	610.7	4607.2 µg/L	42.58	4607.2 ppb	42.58	0.92%	
QC value within limits for Fe 238.204 Radial Recovery = 92.14%							
K 766.490 Radial†	8710.4	4943.3 µg/L	84.31	4943.3 ppb	84.31	1.71%	
QC value within limits for K 766.490 Radial Recovery = 98.87%							
Mg 279.077 IEC†	470.7	4702.9 µg/L	36.51	4702.9 ppb	36.51	0.78%	
QC value within limits for Mg 279.077 IEC Recovery = 94.06%							
Mn 257.610†	128841.8	469.78 µg/L	14.411	469.78 ppb	14.411	3.07%	
QC value within limits for Mn 257.610 Recovery = 93.96%							
Mo 202.031†	4179.7	477.91 µg/L	32.396	477.91 ppb	32.396	6.78%	
QC value within limits for Mo 202.031 Recovery = 95.58%							
Na 589.592 Radial†	26451.6	9158.6 µg/L	27.61	9158.6 ppb	27.61	0.30%	
QC value within limits for Na 589.592 Radial Recovery = 91.59%							
Ni 231.604†	7007.6	485.43 µg/L	16.779	485.43 ppb	16.779	3.46%	
QC value within limits for Ni 231.604 Recovery = 97.09%							
P 214.914†	1075.1	2271.4 µg/L	128.12	2271.4 ppb	128.12	5.64%	
QC value within limits for P 214.914 Recovery = 90.86%							
Pb 220.353†	1494.3	470.67 µg/L	24.474	470.67 ppb	24.474	5.20%	
QC value within limits for Pb 220.353 Recovery = 94.13%							
S 181.975 Axial†	245.5	931.87 µg/L	32.689	931.87 ppb	32.689	3.51%	
QC value within limits for S 181.975 Axial Recovery = 93.19%							
Sb 206.836†	445.0	477.13 µg/L	21.756	477.13 ppb	21.756	4.56%	
QC value within limits for Sb 206.836 Recovery = 95.43%							
Se 196.026†	385.2	484.85 µg/L	26.861	484.85 ppb	26.861	5.54%	
QC value within limits for Se 196.026 Recovery = 96.97%							
SiO2†	23342.3	5093.9 µg/L	108.46	5093.9 ppb	108.46	2.13%	
QC value within limits for SiO2 Recovery = 95.26%							
Si 251.611†	29189.6	2386.1 µg/L	47.32	2386.1 ppb	47.32	1.98%	
QC value within limits for Si 251.611 Recovery = 95.45%							
Sn 189.927†	997.5	469.12 µg/L	34.993	469.12 ppb	34.993	7.46%	
QC value within limits for Sn 189.927 Recovery = 93.82%							
Sr 421.552†	103463.4	468.58 µg/L	1.507	468.58 ppb	1.507	0.32%	
QC value within limits for Sr 421.552 Recovery = 93.72%							
Ti 334.940†	176751.5	471.23 µg/L	4.932	471.23 ppb	4.932	1.05%	
QC value within limits for Ti 334.940 Recovery = 94.25%							
Tl 190.801†	405.4	476.57 µg/L	14.614	476.57 ppb	14.614	3.07%	
QC value within limits for Tl 190.801 Recovery = 95.31%							
U 409.014†	4683.2	457.88 µg/L	15.840	457.88 ppb	15.840	3.46%	
QC value within limits for U 409.014 Recovery = 91.58%							
V 292.402†	36992.2	474.21 µg/L	15.901	474.21 ppb	15.901	3.35%	
QC value within limits for V 292.402 Recovery = 94.84%							
Zn 213.857†	17810.7	475.07 µg/L	13.694	475.07 ppb	13.694	2.88%	
QC value within limits for Zn 213.857 Recovery = 95.01%							
All analyte(s) passed QC.							

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 13:35:49

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	108349.5	108349.5	99.2 %		13:36:22
1	Al 396.153Radial†	-146.9	26.8	12.823 µg/L	12.823 ppb	13:36:22
1	Ca 317.933Radial†	409.5	29.2	9.4683 µg/L	9.4683 ppb	13:36:43
1	Fe 238.204 Radial†	32.1	1.1	7.9080 µg/L	7.9080 ppb	13:36:43
1	K 766.490 Radial†	464.8	237.7	134.91 µg/L	134.91 ppb	13:36:22
1	Mg 279.077 IEC†	12.6	3.9	38.992 µg/L	38.992 ppb	13:36:43
1	Na 589.592 Radial†	320.3	87.6	30.326 µg/L	30.326 ppb	13:36:22
1	Sr 421.552†	278.3	125.5	0.5682 µg/L	0.5682 ppb	13:36:22
1	Sc 361.383	1691152.3	1691152.3	100.50 %		13:37:45
1	Y 371.029	936132.7	936132.7	100.00 %		13:37:45
1	Ag 328.068†	-493.7	74.7	0.6680 µg/L	0.6680 ppb	13:37:50
1	As 188.979†	-4.2	-0.4	-0.6902 µg/L	-0.6902 ppb	13:38:11
1	B 249.677†	219.5	59.7	3.1638 µg/L	3.1638 ppb	13:38:11
1	Ba 233.527†	-7.9	10.0	0.2588 µg/L	0.2588 ppb	13:38:11
1	Be 313.107†	-1886.3	69.0	0.0492 µg/L	0.0492 ppb	13:37:50
1	Cd 226.502†	-123.6	21.2	0.6205 µg/L	0.6205 ppb	13:38:11
1	Co 228.616†	24.7	2.4	0.1232 µg/L	0.1232 ppb	13:38:11
1	Cr 267.716†	81.4	-9.2	-0.2381 µg/L	-0.2381 ppb	13:38:11
1	Cu 324.752†	2673.7	37.2	0.2683 µg/L	0.2683 ppb	13:37:50
1	Mn 257.610†	-503.1	43.6	0.1570 µg/L	0.1570 ppb	13:38:11
1	Mo 202.031†	15.4	11.0	1.2524 µg/L	1.2524 ppb	13:38:11
1	Ni 231.604†	304.8	4.7	0.3235 µg/L	0.3235 ppb	13:38:11
1	P 214.914†	246.3	3.6	7.7666 µg/L	7.7666 ppb	13:38:11
1	Pb 220.353†	46.0	3.0	0.9423 µg/L	0.9423 ppb	13:38:11
1	S 181.975 Axial†	24.2	3.4	12.747 µg/L	12.747 ppb	13:38:11
1	Sb 206.836†	25.2	4.0	4.2927 µg/L	4.2927 ppb	13:38:11
1	Se 196.026†	16.3	2.9	3.5121 µg/L	3.5121 ppb	13:38:11
1	SiO2†	1462.5	72.0	15.702 µg/L	15.702 ppb	13:37:50
1	Si 251.611†	481.0	114.6	9.3661 µg/L	9.3661 ppb	13:38:11
1	Sn 189.927†	0.7	-3.9	-1.8163 µg/L	-1.8163 ppb	13:38:11
1	Ti 334.940†	216.8	223.8	0.5942 µg/L	0.5942 ppb	13:37:50
1	Tl 190.801†	-25.6	0.1	0.0951 µg/L	0.0951 ppb	13:38:11
1	U 409.014†	118.2	-33.2	-3.2572 µg/L	-3.2572 ppb	13:37:50
1	V 292.402†	-158.7	-6.0	-0.0702 µg/L	-0.0702 ppb	13:37:50
1	Zn 213.857†	641.3	57.8	1.5472 µg/L	1.5472 ppb	13:38:11
2	Sc RADIAL	108056.3	108056.3	99.0 %		13:36:48
2	Al 396.153Radial†	-150.6	22.8	10.857 µg/L	10.857 ppb	13:36:48
2	Ca 317.933Radial†	411.7	32.5	10.549 µg/L	10.549 ppb	13:37:09
2	Fe 238.204 Radial†	31.1	0.2	1.1735 µg/L	1.1735 ppb	13:37:09
2	K 766.490 Radial†	466.3	240.5	136.47 µg/L	136.47 ppb	13:36:48
2	Mg 279.077 IEC†	11.1	2.5	24.891 µg/L	24.891 ppb	13:37:09
2	Na 589.592 Radial†	312.7	80.7	27.948 µg/L	27.948 ppb	13:36:48
2	Sr 421.552†	240.8	88.4	0.4003 µg/L	0.4003 ppb	13:36:48
2	Sc 361.383	1691483.6	1691483.6	100.52 %		13:38:17
2	Y 371.029	941172.7	941172.7	100.54 %		13:38:17
2	Ag 328.068†	-532.3	36.4	0.3271 µg/L	0.3271 ppb	13:38:22
2	As 188.979†	-4.5	-0.6	-1.1857 µg/L	-1.1857 ppb	13:38:43
2	B 249.677†	202.1	42.4	2.2502 µg/L	2.2502 ppb	13:38:43
2	Ba 233.527†	-2.5	15.4	0.3984 µg/L	0.3984 ppb	13:38:43
2	Be 313.107†	-1844.7	110.8	0.0790 µg/L	0.0790 ppb	13:38:22
2	Cd 226.502†	-122.7	22.1	0.6483 µg/L	0.6483 ppb	13:38:43
2	Co 228.616†	22.9	0.5	0.0257 µg/L	0.0257 ppb	13:38:43
2	Cr 267.716†	89.2	-1.4	-0.0372 µg/L	-0.0372 ppb	13:38:43
2	Cu 324.752†	2698.1	61.0	0.4376 µg/L	0.4376 ppb	13:38:22
2	Mn 257.610†	-500.7	46.1	0.1666 µg/L	0.1666 ppb	13:38:43
2	Mo 202.031†	18.9	14.5	1.6530 µg/L	1.6530 ppb	13:38:43
2	Ni 231.604†	302.3	2.1	0.1454 µg/L	0.1454 ppb	13:38:43
2	P 214.914†	241.6	-1.2	-2.5710 µg/L	-2.5710 ppb	13:38:43
2	Pb 220.353†	39.6	-3.4	-1.0734 µg/L	-1.0734 ppb	13:38:43

2	S 181.975 Axial†	23.6	2.8	10.706 µg/L	10.706 ppb	13:38:43
2	Sb 206.836†	23.4	2.2	2.4012 µg/L	2.4012 ppb	13:38:43
2	Se 196.026†	25.5	12.0	14.759 µg/L	14.759 ppb	13:38:43
2	SiO2†	1493.2	102.2	22.311 µg/L	22.311 ppb	13:38:22
2	Si 251.611†	507.3	140.7	11.501 µg/L	11.501 ppb	13:38:43
2	Sn 189.927†	4.0	-0.6	-0.2654 µg/L	-0.2654 ppb	13:38:43
2	Ti 334.940†	270.9	277.7	0.7390 µg/L	0.7390 ppb	13:38:22
2	Tl 190.801†	-25.9	-0.2	-0.2092 µg/L	-0.2092 ppb	13:38:43
2	U 409.014†	136.3	-15.3	-1.4965 µg/L	-1.4965 ppb	13:38:22
2	V 292.402†	-126.8	25.8	0.3386 µg/L	0.3386 ppb	13:38:22
2	Zn 213.857†	641.1	57.4	1.5403 µg/L	1.5403 ppb	13:38:43
3	Sc RADIAL	107577.4	107577.4	98.5 %		13:37:14
3	Al 396.153Radial†	-106.1	67.2	32.100 µg/L	32.100 ppb	13:37:14
3	Ca 317.933Radial†	410.6	33.3	10.789 µg/L	10.789 ppb	13:37:34
3	Fe 238.204 Radial†	31.5	0.7	5.4574 µg/L	5.4574 ppb	13:37:34
3	K 766.490 Radial†	377.5	152.5	86.519 µg/L	86.519 ppb	13:37:14
3	Mg 279.077 IEC†	11.8	3.2	31.661 µg/L	31.661 ppb	13:37:34
3	Na 589.592 Radial†	282.2	51.2	17.724 µg/L	17.724 ppb	13:37:14
3	Sr 421.552†	273.2	122.4	0.5543 µg/L	0.5543 ppb	13:37:14
3	Sc 361.383	1682481.8	1682481.8	99.989 %		13:38:49
3	Y 371.029	931197.3	931197.3	99.474 %		13:38:49
3	Ag 328.068†	-584.6	-18.8	-0.1644 µg/L	-0.1644 ppb	13:38:55
3	As 188.979†	-5.2	-1.4	-2.5688 µg/L	-2.5688 ppb	13:39:15
3	B 249.677†	212.4	53.8	2.8518 µg/L	2.8518 ppb	13:39:15
3	Ba 233.527†	4.7	22.6	0.5833 µg/L	0.5833 ppb	13:39:15
3	Be 313.107†	-1903.9	41.7	0.0296 µg/L	0.0296 ppb	13:38:55
3	Cd 226.502†	-126.1	18.1	0.5291 µg/L	0.5291 ppb	13:39:15
3	Co 228.616†	27.4	5.2	0.2681 µg/L	0.2681 ppb	13:39:15
3	Cr 267.716†	108.2	18.1	0.4679 µg/L	0.4679 ppb	13:39:15
3	Cu 324.752†	2717.3	94.5	0.6787 µg/L	0.6787 ppb	13:38:55
3	Mn 257.610†	-481.7	62.4	0.2259 µg/L	0.2259 ppb	13:39:15
3	Mo 202.031†	22.8	18.4	2.1057 µg/L	2.1057 ppb	13:39:15
3	Ni 231.604†	302.2	3.6	0.2501 µg/L	0.2501 ppb	13:39:15
3	P 214.914†	242.5	1.1	2.2589 µg/L	2.2589 ppb	13:39:15
3	Pb 220.353†	53.7	10.9	3.4279 µg/L	3.4279 ppb	13:39:15
3	S 181.975 Axial†	22.1	1.4	5.3435 µg/L	5.3435 ppb	13:39:15
3	Sb 206.836†	26.8	5.8	6.1707 µg/L	6.1707 ppb	13:39:15
3	Se 196.026†	20.2	6.9	8.4833 µg/L	8.4833 ppb	13:39:15
3	SiO2†	1516.5	133.4	29.121 µg/L	29.121 ppb	13:38:55
3	Si 251.611†	510.3	146.3	11.962 µg/L	11.962 ppb	13:39:15
3	Sn 189.927†	7.7	3.1	1.4709 µg/L	1.4709 ppb	13:39:15
3	Ti 334.940†	234.8	242.9	0.6457 µg/L	0.6457 ppb	13:38:55
3	Tl 190.801†	-26.1	-0.5	-0.6113 µg/L	-0.6113 ppb	13:39:15
3	U 409.014†	184.4	33.6	3.2856 µg/L	3.2856 ppb	13:38:55
3	V 292.402†	-123.2	28.8	0.3855 µg/L	0.3855 ppb	13:38:55
3	Zn 213.857†	633.3	53.0	1.4207 µg/L	1.4207 ppb	13:39:15

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1688372.5	100.34 %	0.303			0.30%
Sc RADIAL	107994.4	98.9 %	0.36			0.36%
Y 371.029	936167.6	100.00 %	0.533			0.53%
Ag 328.068†	30.8	0.2769 µg/L	0.41850	0.2769 ppb	0.41850	151.15%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	38.9	18.593 µg/L	11.7381	18.593 ppb	11.7381	63.13%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.8	-1.4816 µg/L	0.97358	-1.4816 ppb	0.97358	65.71%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	52.0	2.7553 µg/L	0.46437	2.7553 ppb	0.46437	16.85%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.0	0.4135 µg/L	0.16280	0.4135 ppb	0.16280	39.37%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	73.8	0.0526 µg/L	0.02487	0.0526 ppb	0.02487	47.28%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	31.7	10.269 µg/L	0.7033	10.269 ppb	0.7033	6.85%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	20.5	0.5993 µg/L	0.06237	0.5993 ppb	0.06237	10.41%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.7	0.1390 µg/L	0.12199	0.1390 ppb	0.12199	87.76%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	2.5	0.0642 µg/L	0.36376	0.0642 ppb	0.36376	566.81%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	64.3	0.4616 µg/L	0.20626	0.4616 ppb	0.20626	44.69%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.6	4.8463 µg/L	3.40861	4.8463 ppb	3.40861	70.33%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	210.2	119.30 µg/L	28.401	119.30 ppb	28.401	23.81%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	3.2	31.848 µg/L	7.0528	31.848 ppb	7.0528	22.15%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	50.7	0.1832 µg/L	0.03729	0.1832 ppb	0.03729	20.36%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	14.6	1.6704 µg/L	0.42694	1.6704 ppb	0.42694	25.56%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	73.2	25.332 µg/L	6.6958	25.332 ppb	6.6958	26.43%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	3.5	0.2397 µg/L	0.08952	0.2397 ppb	0.08952	37.35%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	1.2	2.4848 µg/L	5.17246	2.4848 ppb	5.17246	208.16%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.5	1.0989 µg/L	2.25475	1.0989 ppb	2.25475	205.18%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.5	9.5989 µg/L	3.82398	9.5989 ppb	3.82398	39.84%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.0	4.2882 µg/L	1.88475	4.2882 ppb	1.88475	43.95%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.3	8.9180 µg/L	5.63582	8.9180 ppb	5.63582	63.20%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	102.5	22.378 µg/L	6.7098	22.378 ppb	6.7098	29.98%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	133.9	10.943 µg/L	1.3851	10.943 ppb	1.3851	12.66%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.4	-0.2036 µg/L	1.64444	-0.2036 ppb	1.64444	807.61%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	112.1	0.5076 µg/L	0.09319	0.5076 ppb	0.09319	18.36%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	248.1	0.6596 µg/L	0.07339	0.6596 ppb	0.07339	11.13%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.2	-0.2418 µg/L	0.35436	-0.2418 ppb	0.35436	146.55%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-5.0	-0.4894 µg/L	3.38563	-0.4894 ppb	3.38563	691.85%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	16.2	0.2180 µg/L	0.25063	0.2180 ppb	0.25063	114.98%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	56.1	1.5027 µg/L	0.07112	1.5027 ppb	0.07112	4.73%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.



=====  
Analysis Begun

Start Time: 2/26/2010 13:45:10

Plasma On Time: 2/8/2010 03:37:33

Logged In Analyst: optima

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\022610B.sif

Batch ID:

Results Data Set: 022610D

Results Library: c:\pe\optimal\Results\Results.mdb  
=====

## Method Loaded

Method Name: Gen Eng fast\_new Si

Method Last Saved: 2/26/2010 12:57:20

IEC File: 011510.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	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
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: 113

Sample ID: LR1

Date Collected: 2/26/2010 13:45:12

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

=====  
Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110333.3	110333.3	101 %		13:45:47
1	Al 396.153Radial†	-195.8	-18.8	-8.7422 µg/L	-8.7422 ppb	13:45:47
1	Ca 317.933Radial†	549.9	160.7	52.105 µg/L	52.105 ppb	13:46:07
1	Fe 238.204 Radial†	47830.1	47307.8	356090 µg/L	356090 ppb	13:45:47

1	K 766.490 Radial†	167.4	-65.1	-36.954 µg/L	-36.954 ppb	13:45:47
1	Mg 279.077 IEC†	27.3	18.2	-200.25 µg/L	-200.25 ppb	13:46:07
1	Na 589.592 Radial†	268.8	30.8	10.653 µg/L	10.653 ppb	13:45:47
1	Sr 421.552†	296.7	138.7	0.6280 µg/L	0.6280 ppb	13:45:47
1	Sc 361.383	1711781.4	1711781.4	101.73 %		13:47:09
1	Y 371.029	940092.0	940092.0	100.42 %		13:47:09
1	Ag 328.068†	-4643.2	-3998.3	10.290 µg/L	10.290 ppb	13:47:15
1	As 188.979†	-42.2	-37.6	-48.715 µg/L	-48.715 ppb	13:47:36
1	B 249.677†	2585.6	2383.0	-59.422 µg/L	-59.422 ppb	13:47:15
1	Ba 233.527†	453.8	464.0	11.948 µg/L	11.948 ppb	13:47:36
1	Be 313.107†	-2068.1	-87.1	-0.0623 µg/L	-0.0623 ppb	13:47:15
1	Cd 226.502†	1584.1	1701.3	9.5564 µg/L	9.5564 ppb	13:47:15
1	Co 228.616†	383.3	354.5	18.383 µg/L	18.383 ppb	13:47:36
1	Cr 267.716†	-109.1	-197.4	-5.1093 µg/L	-5.1093 ppb	13:47:36
1	Cu 324.752†	-3493.2	-6056.9	23.527 µg/L	23.527 ppb	13:47:15
1	Mn 257.610†	126.4	668.5	23.506 µg/L	23.506 ppb	13:47:09
1	Mo 202.031†	-116.5	-118.9	-0.0572 µg/L	-0.0572 ppb	13:47:15
1	Ni 231.604†	229.5	-73.0	-0.4575 µg/L	-0.4575 ppb	13:47:36
1	P 214.914†	368.0	120.2	-25.472 µg/L	-25.472 ppb	13:47:36
1	Pb 220.353†	53.8	10.0	-10.433 µg/L	-10.433 ppb	13:47:36
1	S 181.975 Axial†	6.4	-14.4	-54.680 µg/L	-54.680 ppb	13:47:36
1	Sb 206.836†	13.1	-8.1	-8.8373 µg/L	-8.8373 ppb	13:47:36
1	Se 196.026†	-240.6	-249.8	865.21 µg/L	865.21 ppb	13:47:36
1	SiO2†	1187.1	-216.3	-47.203 µg/L	-47.203 ppb	13:47:36
1	Si 251.611†	-256.5	-616.2	-50.369 µg/L	-50.369 ppb	13:47:36
1	Sn 189.927†	6.3	1.7	-23.766 µg/L	-23.766 ppb	13:47:36
1	Ti 334.940†	-119.0	-108.8	-0.3039 µg/L	-0.3039 ppb	13:47:15
1	Tl 190.801†	-34.6	-8.4	40.517 µg/L	40.517 ppb	13:47:36
1	U 409.014†	964.5	797.2	28.602 µg/L	28.602 ppb	13:47:15
1	V 292.402†	-599.4	-437.2	7.4922 µg/L	7.4922 ppb	13:47:15
1	Zn 213.857†	2246.9	1628.4	26.912 µg/L	26.912 ppb	13:47:36
2	Sc RADIAL	110009.1	110009.1	101 %		13:46:13
2	Al 396.153Radial†	-224.1	-47.5	-22.490 µg/L	-22.490 ppb	13:46:13
2	Ca 317.933Radial†	557.8	170.2	55.188 µg/L	55.188 ppb	13:46:33
2	Fe 238.204 Radial†	48217.5	47831.9	360040 µg/L	360040 ppb	13:46:13
2	K 766.490 Radial†	138.1	-93.7	-53.175 µg/L	-53.175 ppb	13:46:13
2	Mg 279.077 IEC†	29.7	20.7	-179.37 µg/L	-179.37 ppb	13:46:33
2	Na 589.592 Radial†	234.7	-2.3	-0.7804 µg/L	-0.7804 ppb	13:46:13
2	Sr 421.552†	253.2	96.4	0.4366 µg/L	0.4366 ppb	13:46:13
2	Sc 361.383	1707214.5	1707214.5	101.46 %		13:47:42
2	Y 371.029	940537.8	940537.8	100.47 %		13:47:42
2	Ag 328.068†	-4612.0	-3979.8	10.964 µg/L	10.964 ppb	13:47:48
2	As 188.979†	-45.5	-41.0	-54.640 µg/L	-54.640 ppb	13:48:08
2	B 249.677†	2595.6	2399.6	-60.596 µg/L	-60.596 ppb	13:47:48
2	Ba 233.527†	467.3	478.5	12.323 µg/L	12.323 ppb	13:48:08
2	Be 313.107†	-2075.1	-99.5	-0.0712 µg/L	-0.0712 ppb	13:47:48
2	Cd 226.502†	1616.1	1737.0	10.155 µg/L	10.155 ppb	13:47:48
2	Co 228.616†	386.3	358.5	18.590 µg/L	18.590 ppb	13:48:08
2	Cr 267.716†	-113.5	-202.0	-5.2269 µg/L	-5.2269 ppb	13:48:08
2	Cu 324.752†	-3416.2	-5990.2	24.747 µg/L	24.747 ppb	13:47:48
2	Mn 257.610†	212.9	754.1	24.050 µg/L	24.050 ppb	13:47:42
2	Mo 202.031†	-100.2	-103.2	1.8906 µg/L	1.8906 ppb	13:47:48
2	Ni 231.604†	216.3	-85.5	-1.2689 µg/L	-1.2689 ppb	13:48:08
2	P 214.914†	371.1	124.3	-20.051 µg/L	-20.051 ppb	13:48:08
2	Pb 220.353†	57.1	13.5	-9.4828 µg/L	-9.4828 ppb	13:48:08
2	S 181.975 Axial†	7.9	-12.9	-49.032 µg/L	-49.032 ppb	13:48:08
2	Sb 206.836†	16.5	-4.8	-5.2442 µg/L	-5.2442 ppb	13:48:08
2	Se 196.026†	-233.7	-243.7	885.74 µg/L	885.74 ppb	13:48:08
2	SiO2†	1217.1	-183.5	-40.051 µg/L	-40.051 ppb	13:48:08
2	Si 251.611†	-225.6	-586.4	-47.933 µg/L	-47.933 ppb	13:48:08
2	Sn 189.927†	3.3	-1.3	-25.444 µg/L	-25.444 ppb	13:48:08
2	Ti 334.940†	-59.6	-50.6	-0.1505 µg/L	-0.1505 ppb	13:47:48
2	Tl 190.801†	-28.0	-2.0	48.493 µg/L	48.493 ppb	13:48:08
2	U 409.014†	942.1	777.7	26.142 µg/L	26.142 ppb	13:47:48
2	V 292.402†	-616.5	-455.7	7.4144 µg/L	7.4144 ppb	13:47:48
2	Zn 213.857†	2253.1	1640.5	27.051 µg/L	27.051 ppb	13:48:08
3	Sc RADIAL	110705.4	110705.4	101 %		13:46:38
3	Al 396.153Radial†	-177.3	0.0	0.3050 µg/L	0.3050 ppb	13:46:38
3	Ca 317.933Radial†	557.3	166.2	53.898 µg/L	53.898 ppb	13:46:59
3	Fe 238.204 Radial†	48225.1	47538.4	357830 µg/L	357830 ppb	13:46:38
3	K 766.490 Radial†	196.1	-37.3	-21.166 µg/L	-21.166 ppb	13:46:38

3	Mg 279.077 IEC†	31.7	22.5	-159.24 µg/L	-159.24 ppb	13:46:59
3	Na 589.592 Radial†	255.3	16.5	5.7211 µg/L	5.7211 ppb	13:46:38
3	Sr 421.552†	279.3	120.5	0.5459 µg/L	0.5459 ppb	13:46:38
3	Sc 361.383	1701403.6	1701403.6	101.11 %		13:48:15
3	Y 371.029	936850.6	936850.6	100.08 %		13:48:15
3	Ag 328.068†	-4381.1	-3766.9	12.574 µg/L	12.574 ppb	13:48:20
3	As 188.979†	-31.8	-27.6	-30.181 µg/L	-30.181 ppb	13:48:41
3	B 249.677†	2413.1	2227.9	-68.554 µg/L	-68.554 ppb	13:48:20
3	Ba 233.527†	385.6	399.3	10.278 µg/L	10.278 ppb	13:48:41
3	Be 313.107†	-2109.4	-140.4	-0.1005 µg/L	-0.1005 ppb	13:48:20
3	Cd 226.502†	1498.6	1626.3	7.1643 µg/L	7.1643 ppb	13:48:20
3	Co 228.616†	341.9	315.9	16.378 µg/L	16.378 ppb	13:48:41
3	Cr 267.716†	-84.7	-173.9	-4.5017 µg/L	-4.5017 ppb	13:48:41
3	Cu 324.752†	-3106.5	-5695.4	26.445 µg/L	26.445 ppb	13:48:20
3	Mn 257.610†	187.6	729.8	23.829 µg/L	23.829 ppb	13:48:15
3	Mo 202.031†	-122.4	-125.4	-0.7363 µg/L	-0.7363 ppb	13:48:20
3	Ni 231.604†	234.3	-66.9	-0.0090 µg/L	-0.0090 ppb	13:48:41
3	P 214.914†	359.1	113.7	-41.241 µg/L	-41.241 ppb	13:48:41
3	Pb 220.353†	50.3	6.9	-11.465 µg/L	-11.465 ppb	13:48:41
3	S 181.975 Axial†	10.9	-9.9	-37.762 µg/L	-37.762 ppb	13:48:41
3	Sb 206.836†	13.1	-8.1	-8.8418 µg/L	-8.8418 ppb	13:48:41
3	Se 196.026†	-197.1	-208.2	922.03 µg/L	922.03 ppb	13:48:41
3	SiO2†	1259.1	-137.9	-30.096 µg/L	-30.096 ppb	13:48:41
3	Si 251.611†	-137.1	-499.6	-40.841 µg/L	-40.841 ppb	13:48:41
3	Sn 189.927†	11.1	6.4	-21.651 µg/L	-21.651 ppb	13:48:41
3	Ti 334.940†	-16.4	-8.1	-0.0384 µg/L	-0.0384 ppb	13:48:20
3	Tl 190.801†	-38.0	-12.0	36.584 µg/L	36.584 ppb	13:48:41
3	U 409.014†	867.6	707.2	19.536 µg/L	19.536 ppb	13:48:20
3	V 292.402†	-679.5	-520.0	6.4929 µg/L	6.4929 ppb	13:48:20
3	Zn 213.857†	2014.1	1411.6	20.998 µg/L	20.998 ppb	13:48:41

## Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1706799.9	101.43 %		0.309			0.30%
Sc RADIAL	110349.3	101 %		0.3			0.32%
Y 371.029	939160.1	100.32 %		0.215			0.21%
Ag 328.068†	-3915.0	11.276 µg/L		1.1737	11.276 ppb	1.1737	10.41%
Al 396.153Radial†	-22.1	-10.309 µg/L		11.4781	-10.309 ppb	11.4781	111.34%
As 188.979†	-35.4	-44.512 µg/L		12.7596	-44.512 ppb	12.7596	28.67%
B 249.677†	2336.8	-62.857 µg/L		4.9680	-62.857 ppb	4.9680	7.90%
Ba 233.527†	447.3	11.516 µg/L		1.0885	11.516 ppb	1.0885	9.45%
Be 313.107†	-109.0	-0.0780 µg/L		0.01998	-0.0780 ppb	0.01998	25.63%
Ca 317.933Radial†	165.7	53.730 µg/L		1.5487	53.730 ppb	1.5487	2.88%
Cd 226.502†	1688.2	8.9586 µg/L		1.58241	8.9586 ppb	1.58241	17.66%
Co 228.616†	343.0	17.783 µg/L		1.2216	17.783 ppb	1.2216	6.87%
Cr 267.716†	-191.1	-4.9460 µg/L		0.38924	-4.9460 ppb	0.38924	7.87%
Cu 324.752†	-5914.1	24.906 µg/L		1.4653	24.906 ppb	1.4653	5.88%
Fe 238.204 Radial†	47559.3	357990 µg/L		1976.9	357990 ppb	1976.9	0.55%
K 766.490 Radial†	-65.4	-37.098 µg/L		16.0050	-37.098 ppb	16.0050	43.14%
Mg 279.077 IEC†	20.5	-179.62 µg/L		20.503	-179.62 ppb	20.503	11.41%
Mn 257.610†	717.4	23.795 µg/L		0.2735	23.795 ppb	0.2735	1.15%
Mo 202.031†	-115.8	0.3657 µg/L		1.36356	0.3657 ppb	1.36356	372.87%
Na 589.592 Radial†	15.0	5.1979 µg/L		5.73470	5.1979 ppb	5.73470	110.33%
Ni 231.604†	-75.1	-0.5785 µg/L		0.63861	-0.5785 ppb	0.63861	110.39%
P 214.914†	119.4	-28.921 µg/L		11.0084	-28.921 ppb	11.0084	38.06%
Pb 220.353†	10.1	-10.460 µg/L		0.9915	-10.460 ppb	0.9915	9.48%
S 181.975 Axial†	-12.4	-47.158 µg/L		8.6133	-47.158 ppb	8.6133	18.26%
Sb 206.836†	-7.0	-7.6411 µg/L		2.07574	-7.6411 ppb	2.07574	27.17%
Se 196.026†	-233.9	890.99 µg/L		28.769	890.99 ppb	28.769	3.23%
SiO2†	-179.2	-39.117 µg/L		8.5917	-39.117 ppb	8.5917	21.96%
Si 251.611†	-567.4	-46.381 µg/L		4.9497	-46.381 ppb	4.9497	10.67%
Sn 189.927†	2.2	-23.620 µg/L		1.9006	-23.620 ppb	1.9006	8.05%
Sr 421.552†	118.5	0.5368 µg/L		0.09602	0.5368 ppb	0.09602	17.89%
Ti 334.940†	-55.8	-0.1643 µg/L		0.13328	-0.1643 ppb	0.13328	81.14%
Tl 190.801†	-7.5	41.865 µg/L		6.0678	41.865 ppb	6.0678	14.49%
U 409.014†	760.7	24.760 µg/L		4.6879	24.760 ppb	4.6879	18.93%
V 292.402†	-471.0	7.1332 µg/L		0.55588	7.1332 ppb	0.55588	7.79%
Zn 213.857†	1560.2	24.987 µg/L		3.4549	24.987 ppb	3.4549	13.83%

Sequence No.: 2

Sample ID: LR1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 114

Date Collected: 2/26/2010 13:48:50

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	109181.1	109181.1	100.0 %		13:49:24
1	Al 396.153Radial†	-108.9	66.0	31.586 µg/L	31.586 ppb	13:49:29
1	Ca 317.933Radial†	1144928.0	1144748.6	371270 µg/L	371270 ppb	13:49:24
1	Fe 238.204 Radial†	34.1	2.8	20.858 µg/L	20.858 ppb	13:49:50
1	K 766.490 Radial†	175.3	-55.5	-31.478 µg/L	-31.478 ppb	13:49:29
1	Mg 279.077 IEC†	1.9	-6.9	-68.492 µg/L	-68.492 ppb	13:49:50
1	Na 589.592 Radial†	266.5	31.3	10.830 µg/L	10.830 ppb	13:49:29
1	Sr 421.552†	797.3	642.5	2.9098 µg/L	2.9098 ppb	13:49:29
1	Sc 361.383	1636795.0	1636795.0	97.274 %		13:51:03
1	Y 371.029	920202.6	920202.6	98.299 %		13:51:03
1	Ag 328.068†	-898.2	-357.4	-3.1963 µg/L	-3.1963 ppb	13:51:08
1	As 188.979†	26.6	31.2	38.290 µg/L	38.290 ppb	13:51:29
1	B 249.677†	273.9	123.0	6.5110 µg/L	6.5110 ppb	13:51:29
1	Ba 233.527†	-1.3	16.6	0.4250 µg/L	0.4250 ppb	13:51:29
1	Be 313.107†	-2111.5	-224.9	-0.1574 µg/L	-0.1574 ppb	13:51:08
1	Cd 226.502†	-56.8	85.8	2.5085 µg/L	2.5085 ppb	13:51:29
1	Co 228.616†	14.5	-7.3	-0.3607 µg/L	-0.3607 ppb	13:51:29
1	Cr 267.716†	49.6	-39.2	-1.0149 µg/L	-1.0149 ppb	13:51:29
1	Cu 324.752†	2831.7	288.0	2.0687 µg/L	2.0687 ppb	13:51:08
1	Mn 257.610†	-530.5	-1.2	0.0016 µg/L	0.0016 ppb	13:51:29
1	Mo 202.031†	9.3	5.3	0.6015 µg/L	0.6015 ppb	13:51:29
1	Ni 231.604†	282.3	-8.4	-0.5824 µg/L	-0.5824 ppb	13:51:29
1	P 214.914†	263.0	28.9	61.136 µg/L	61.136 ppb	13:51:29
1	Pb 220.353†	14.6	-27.9	-8.7590 µg/L	-8.7590 ppb	13:51:29
1	S 181.975 Axial†	11.3	-9.1	-34.440 µg/L	-34.440 ppb	13:51:29
1	Sb 206.836†	24.0	3.6	-1.6665 µg/L	-1.6665 ppb	13:51:29
1	Se 196.026†	-38.2	-52.6	-86.927 µg/L	-86.927 ppb	13:51:29
1	SiO2†	1407.9	64.2	14.013 µg/L	14.013 ppb	13:51:29
1	Si 251.611†	431.7	79.8	6.5226 µg/L	6.5226 ppb	13:51:29
1	Sn 189.927†	-120.8	-128.8	-57.262 µg/L	-57.262 ppb	13:51:29
1	Ti 334.940†	-3454.8	-3543.5	-3.5075 µg/L	-3.5075 ppb	13:51:08
1	Tl 190.801†	45.5	72.4	-1.4189 µg/L	-1.4189 ppb	13:51:29
1	U 409.014†	-63.6	-216.3	-43.837 µg/L	-43.837 ppb	13:51:08
1	V 292.402†	-217.4	-71.6	-0.9262 µg/L	-0.9262 ppb	13:51:08
1	Zn 213.857†	952.9	399.3	10.729 µg/L	10.729 ppb	13:51:29
2	Sc RADIAL	108666.3	108666.3	99.5 %		13:49:55
2	Al 396.153Radial†	-110.2	64.1	30.689 µg/L	30.689 ppb	13:50:01
2	Ca 317.933Radial†	1143828.7	1149069.6	372670 µg/L	372670 ppb	13:49:55
2	Fe 238.204 Radial†	32.5	1.3	9.9967 µg/L	9.9967 ppb	13:50:21
2	K 766.490 Radial†	230.6	1.0	0.5808 µg/L	0.5808 ppb	13:50:01
2	Mg 279.077 IEC†	1.6	-7.2	-71.706 µg/L	-71.706 ppb	13:50:21
2	Na 589.592 Radial†	306.1	72.3	25.030 µg/L	25.030 ppb	13:50:01
2	Sr 421.552†	797.8	646.7	2.9290 µg/L	2.9290 ppb	13:50:01
2	Sc 361.383	1640476.1	1640476.1	97.492 %		13:51:35
2	Y 371.029	915322.9	915322.9	97.778 %		13:51:35
2	Ag 328.068†	-1010.5	-470.6	-4.2123 µg/L	-4.2123 ppb	13:51:40
2	As 188.979†	20.5	24.8	26.426 µg/L	26.426 ppb	13:52:01
2	B 249.677†	277.6	126.1	6.6835 µg/L	6.6835 ppb	13:52:01
2	Ba 233.527†	1.5	19.4	0.4983 µg/L	0.4983 ppb	13:52:01
2	Be 313.107†	-2218.9	-330.1	-0.2328 µg/L	-0.2328 ppb	13:51:40
2	Cd 226.502†	-61.5	81.2	2.3748 µg/L	2.3748 ppb	13:52:01
2	Co 228.616†	18.2	-3.6	-0.1670 µg/L	-0.1670 ppb	13:52:01
2	Cr 267.716†	52.6	-36.2	-0.9381 µg/L	-0.9381 ppb	13:52:01
2	Cu 324.752†	2857.6	308.1	2.2103 µg/L	2.2103 ppb	13:51:40
2	Mn 257.610†	-532.0	-1.4	0.0002 µg/L	0.0002 ppb	13:52:01
2	Mo 202.031†	7.3	3.2	0.3608 µg/L	0.3608 ppb	13:52:01
2	Ni 231.604†	283.7	-7.7	-0.5324 µg/L	-0.5324 ppb	13:52:01
2	P 214.914†	259.0	24.1	50.912 µg/L	50.912 ppb	13:52:01
2	Pb 220.353†	14.4	-28.1	-8.8148 µg/L	-8.8148 ppb	13:52:01
2	S 181.975 Axial†	12.5	-7.9	-29.983 µg/L	-29.983 ppb	13:52:01

2	Sb 206.836†	16.1	-4.5	-10.366 µg/L	-10.366 ppb	13:52:01
2	Se 196.026†	-32.3	-46.4	-79.483 µg/L	-79.483 ppb	13:52:01
2	SiO2†	1432.7	86.4	18.848 µg/L	18.848 ppb	13:52:01
2	Si 251.611†	446.6	94.1	7.6938 µg/L	7.6938 ppb	13:52:01
2	Sn 189.927†	-118.3	-125.9	-55.885 µg/L	-55.885 ppb	13:52:01
2	Ti 334.940†	-3402.7	-3482.1	-3.3209 µg/L	-3.3209 ppb	13:51:40
2	Tl 190.801†	42.6	69.3	-5.3562 µg/L	-5.3562 ppb	13:52:01
2	U 409.014†	-73.6	-226.4	-44.911 µg/L	-44.911 ppb	13:51:40
2	V 292.402†	-265.4	-120.3	-1.5461 µg/L	-1.5461 ppb	13:51:40
2	Zn 213.857†	941.2	385.1	10.349 µg/L	10.349 ppb	13:52:01
3	Sc RADIAL	108631.2	108631.2	99.5 %		13:50:27
3	Al 396.153Radial†	-123.8	50.5	24.140 µg/L	24.140 ppb	13:50:32
3	Ca 317.933Radial†	1136567.1	1142140.8	370420 µg/L	370420 ppb	13:50:27
3	Fe 238.204 Radial†	36.8	5.7	43.183 µg/L	43.183 ppb	13:50:53
3	K 766.490 Radial†	296.3	67.1	38.102 µg/L	38.102 ppb	13:50:32
3	Mg 279.077 IEC†	-3.3	-12.1	-120.60 µg/L	-120.60 ppb	13:50:53
3	Na 589.592 Radial†	278.7	44.9	15.551 µg/L	15.551 ppb	13:50:32
3	Sr 421.552†	778.7	627.8	2.8433 µg/L	2.8433 ppb	13:50:32
3	Sc 361.383	1630185.3	1630185.3	96.881 %		13:52:07
3	Y 371.029	911496.8	911496.8	97.370 %		13:52:07
3	Ag 328.068†	-925.8	-389.7	-3.4787 µg/L	-3.4787 ppb	13:52:12
3	As 188.979†	29.9	34.7	44.736 µg/L	44.736 ppb	13:52:33
3	B 249.677†	260.7	110.5	5.8354 µg/L	5.8354 ppb	13:52:33
3	Ba 233.527†	-0.0	17.9	0.4607 µg/L	0.4607 ppb	13:52:33
3	Be 313.107†	-2080.4	-201.6	-0.1412 µg/L	-0.1412 ppb	13:52:12
3	Cd 226.502†	-78.6	63.1	1.8423 µg/L	1.8423 ppb	13:52:33
3	Co 228.616†	20.7	-0.9	-0.0300 µg/L	-0.0300 ppb	13:52:33
3	Cr 267.716†	53.1	-35.4	-0.9158 µg/L	-0.9158 ppb	13:52:33
3	Cu 324.752†	2792.1	258.9	1.8642 µg/L	1.8642 ppb	13:52:12
3	Mn 257.610†	-539.2	-12.3	-0.0342 µg/L	-0.0342 ppb	13:52:33
3	Mo 202.031†	13.2	9.3	1.0673 µg/L	1.0673 ppb	13:52:33
3	Ni 231.604†	282.1	-7.4	-0.5156 µg/L	-0.5156 ppb	13:52:33
3	P 214.914†	259.1	26.0	54.853 µg/L	54.853 ppb	13:52:33
3	Pb 220.353†	26.8	-15.2	-4.7531 µg/L	-4.7531 ppb	13:52:33
3	S 181.975 Axial†	14.7	-5.5	-20.999 µg/L	-20.999 ppb	13:52:33
3	Sb 206.836†	27.7	7.6	2.5585 µg/L	2.5585 ppb	13:52:33
3	Se 196.026†	-34.9	-49.4	-82.827 µg/L	-82.827 ppb	13:52:33
3	SiO2†	1420.4	83.0	18.110 µg/L	18.110 ppb	13:52:33
3	Si 251.611†	465.7	116.6	9.5354 µg/L	9.5354 ppb	13:52:33
3	Sn 189.927†	-126.2	-134.8	-60.122 µg/L	-60.122 ppb	13:52:33
3	Ti 334.940†	-2943.7	-3030.3	-2.1478 µg/L	-2.1478 ppb	13:52:12
3	Tl 190.801†	32.6	59.2	-16.511 µg/L	-16.511 ppb	13:52:33
3	U 409.014†	-24.2	-175.8	-39.822 µg/L	-39.822 ppb	13:52:12
3	V 292.402†	-183.4	-37.3	-0.4833 µg/L	-0.4833 ppb	13:52:12
3	Zn 213.857†	922.2	371.6	9.9872 µg/L	9.9872 ppb	13:52:33

## Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1635818.8	97.216 %	0.3099			0.32%
Sc RADIAL	108826.2	99.7 %	0.28			0.28%
Y 371.029	915674.1	97.816 %	0.4661			0.48%
Ag 328.068†	-405.9	-3.6291 µg/L	0.52440	-3.6291 ppb	0.52440	14.45%
Al 396.153Radial†	60.2	28.805 µg/L	4.0650	28.805 ppb	4.0650	14.11%
As 188.979†	30.3	36.484 µg/L	9.2876	36.484 ppb	9.2876	25.46%
B 249.677†	119.9	6.3433 µg/L	0.44825	6.3433 ppb	0.44825	7.07%
Ba 233.527†	18.0	0.4613 µg/L	0.03667	0.4613 ppb	0.03667	7.95%
Be 313.107†	-252.2	-0.1771 µg/L	0.04886	-0.1771 ppb	0.04886	27.59%
Ca 317.933Radial†	1145319.7	371450 µg/L	1135.0	371450 ppb	1135.0	0.31%
Cd 226.502†	76.7	2.2419 µg/L	0.35241	2.2419 ppb	0.35241	15.72%
Co 228.616†	-4.0	-0.1859 µg/L	0.16617	-0.1859 ppb	0.16617	89.37%
Cr 267.716†	-37.0	-0.9563 µg/L	0.05199	-0.9563 ppb	0.05199	5.44%
Cu 324.752†	285.0	2.0477 µg/L	0.17402	2.0477 ppb	0.17402	8.50%
Fe 238.204 Radial†	3.3	24.679 µg/L	16.9202	24.679 ppb	16.9202	68.56%
K 766.490 Radial†	4.2	2.4019 µg/L	34.82581	2.4019 ppb	34.82581	>999.9%
Mg 279.077 IEC†	-8.7	-86.933 µg/L	29.2021	-86.933 ppb	29.2021	33.59%
Mn 257.610†	-5.0	-0.0108 µg/L	0.02028	-0.0108 ppb	0.02028	187.51%
Mo 202.031†	5.9	0.6766 µg/L	0.35921	0.6766 ppb	0.35921	53.09%
Na 589.592 Radial†	49.5	17.137 µg/L	7.2316	17.137 ppb	7.2316	42.20%
Ni 231.604†	-7.8	-0.5435 µg/L	0.03476	-0.5435 ppb	0.03476	6.40%

P 214.914†	26.3	55.634 µg/L	5.1564	55.634 ppb	5.1564	9.27%
Pb 220.353†	-23.7	-7.4423 µg/L	2.32907	-7.4423 ppb	2.32907	31.30%
S 181.975 Axial†	-7.5	-28.474 µg/L	6.8464	-28.474 ppb	6.8464	24.04%
Sb 206.836†	2.2	-3.1580 µg/L	6.59010	-3.1580 ppb	6.59010	208.68%
Se 196.026†	-49.5	-83.079 µg/L	3.7282	-83.079 ppb	3.7282	4.49%
SiO2†	77.9	16.990 µg/L	2.6047	16.990 ppb	2.6047	15.33%
Si 251.611†	96.9	7.9173 µg/L	1.51876	7.9173 ppb	1.51876	19.18%
Sn 189.927†	-129.8	-57.756 µg/L	2.1615	-57.756 ppb	2.1615	3.74%
Sr 421.552†	639.0	2.8941 µg/L	0.04498	2.8941 ppb	0.04498	1.55%
Ti 334.940†	-3351.9	-2.9921 µg/L	0.73708	-2.9921 ppb	0.73708	24.63%
Tl 190.801†	67.0	-7.7620 µg/L	7.82840	-7.7620 ppb	7.82840	100.85%
U 409.014†	-206.1	-42.856 µg/L	2.6824	-42.856 ppb	2.6824	6.26%
V 292.402†	-76.4	-0.9852 µg/L	0.53385	-0.9852 ppb	0.53385	54.19%
Zn 213.857†	385.4	10.355 µg/L	0.3709	10.355 ppb	0.3709	3.58%

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

Autosampler Location: 7  
 Date Collected: 2/26/2010 13:52:42  
 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	111640.3	111640.3	102 %		13:53:19
1	Al 396.153Radial†	9677.1	9640.5	4603.6 µg/L	4603.6 ppb	13:53:19
1	Ca 317.933Radial†	15167.8	14452.8	4687.4 µg/L	4687.4 ppb	13:53:19
1	Fe 238.204 Radial†	660.1	614.4	4635.2 µg/L	4635.2 ppb	13:53:39
1	K 766.490 Radial†	8900.5	8475.3	4809.9 µg/L	4809.9 ppb	13:53:19
1	Mg 279.077 IEC†	489.6	470.1	4697.6 µg/L	4697.6 ppb	13:53:39
1	Na 589.592 Radial†	27426.1	26591.5	9207.1 µg/L	9207.1 ppb	13:53:19
1	Sr 421.552†	106939.2	104447.3	473.04 µg/L	473.04 ppb	13:53:19
1	Sc 361.383	1689207.7	1689207.7	100.39 %		13:54:42
1	Y 371.029	929092.3	929092.3	99.249 %		13:54:42
1	Ag 328.068†	53512.0	53870.8	485.02 µg/L	485.02 ppb	13:54:47
1	As 188.979†	262.5	265.3	488.30 µg/L	488.30 ppb	13:55:08
1	B 249.677†	9241.8	9047.4	478.25 µg/L	478.25 ppb	13:54:47
1	Ba 233.527†	18862.0	18806.9	485.58 µg/L	485.58 ppb	13:54:47
1	Be 313.107†	671046.3	670395.1	479.69 µg/L	479.69 ppb	13:54:42
1	Cd 226.502†	16554.4	16634.6	486.89 µg/L	486.89 ppb	13:54:47
1	Co 228.616†	9496.0	9437.0	489.06 µg/L	489.06 ppb	13:54:47
1	Cr 267.716†	19029.4	18865.6	488.15 µg/L	488.15 ppb	13:54:47
1	Cu 324.752†	70569.4	67673.2	485.98 µg/L	485.98 ppb	13:54:47
1	Mn 257.610†	133479.9	133507.5	486.80 µg/L	486.80 ppb	13:54:47
1	Mo 202.031†	4403.5	4382.1	501.05 µg/L	501.05 ppb	13:55:08
1	Ni 231.604†	7560.4	7232.5	501.01 µg/L	501.01 ppb	13:54:47
1	P 214.914†	1397.3	1150.4	2432.6 µg/L	2432.6 ppb	13:55:08
1	Pb 220.353†	1617.2	1568.1	493.95 µg/L	493.95 ppb	13:55:08
1	S 181.975 Axial†	282.1	260.3	987.85 µg/L	987.85 ppb	13:55:08
1	Sb 206.836†	482.4	459.5	492.85 µg/L	492.85 ppb	13:55:08
1	Se 196.026†	426.3	411.3	516.99 µg/L	516.99 ppb	13:55:08
1	SiO2†	25232.8	23752.0	5183.3 µg/L	5183.3 ppb	13:54:47
1	Si 251.611†	30167.2	29686.5	2426.8 µg/L	2426.8 ppb	13:54:47
1	Sn 189.927†	1077.3	1068.6	502.55 µg/L	502.55 ppb	13:55:08
1	Ti 334.940†	181481.4	180787.2	482.00 µg/L	482.00 ppb	13:54:42
1	Tl 190.801†	399.0	423.0	497.19 µg/L	497.19 ppb	13:55:08
1	U 409.014†	4953.8	4783.8	467.72 µg/L	467.72 ppb	13:54:47
1	V 292.402†	38280.6	38284.3	490.82 µg/L	490.82 ppb	13:54:47
1	Zn 213.857†	19025.1	18371.2	490.04 µg/L	490.04 ppb	13:54:47
2	Sc RADIAL	112109.0	112109.0	103 %		13:53:45
2	Al 396.153Radial†	9714.6	9637.5	4602.1 µg/L	4602.1 ppb	13:53:45
2	Ca 317.933Radial†	15275.6	14495.8	4701.3 µg/L	4701.3 ppb	13:53:45
2	Fe 238.204 Radial†	665.6	617.1	4655.2 µg/L	4655.2 ppb	13:54:05
2	K 766.490 Radial†	8850.3	8390.0	4761.5 µg/L	4761.5 ppb	13:53:45
2	Mg 279.077 IEC†	492.8	471.3	4708.9 µg/L	4708.9 ppb	13:54:05
2	Na 589.592 Radial†	27588.2	26637.2	9222.9 µg/L	9222.9 ppb	13:53:45
2	Sr 421.552†	107523.5	104579.1	473.63 µg/L	473.63 ppb	13:53:45
2	Sc 361.383	1689532.1	1689532.1	100.41 %		13:55:14
2	Y 371.029	929019.6	929019.6	99.241 %		13:55:14
2	Ag 328.068†	53852.7	54199.9	487.99 µg/L	487.99 ppb	13:55:20
2	As 188.979†	266.8	269.6	496.28 µg/L	496.28 ppb	13:55:40
2	B 249.677†	9331.6	9135.0	482.90 µg/L	482.90 ppb	13:55:20
2	Ba 233.527†	18981.5	18922.3	488.56 µg/L	488.56 ppb	13:55:20
2	Be 313.107†	670747.9	669969.6	479.38 µg/L	479.38 ppb	13:55:14
2	Cd 226.502†	16696.2	16772.6	490.93 µg/L	490.93 ppb	13:55:20
2	Co 228.616†	9540.6	9479.6	491.27 µg/L	491.27 ppb	13:55:20
2	Cr 267.716†	19140.9	18973.0	490.93 µg/L	490.93 ppb	13:55:20
2	Cu 324.752†	70881.0	67970.1	488.11 µg/L	488.11 ppb	13:55:20
2	Mn 257.610†	134025.3	134025.2	488.69 µg/L	488.69 ppb	13:55:20
2	Mo 202.031†	4414.7	4392.4	502.22 µg/L	502.22 ppb	13:55:40
2	Ni 231.604†	7656.0	7326.3	507.51 µg/L	507.51 ppb	13:55:20
2	P 214.914†	1394.2	1147.1	2425.2 µg/L	2425.2 ppb	13:55:40
2	Pb 220.353†	1636.9	1587.4	500.00 µg/L	500.00 ppb	13:55:40

2	S 181.975 Axial†	283.2	261.3	991.88 µg/L	991.88 ppb	13:55:40
2	Sb 206.836†	479.6	456.6	489.76 µg/L	489.76 ppb	13:55:40
2	Se 196.026†	417.6	402.6	506.36 µg/L	506.36 ppb	13:55:40
2	SiO2†	25415.7	23929.3	5222.0 µg/L	5222.0 ppb	13:55:20
2	Si 251.611†	30420.4	29932.9	2446.9 µg/L	2446.9 ppb	13:55:20
2	Sn 189.927†	1084.2	1075.2	505.67 µg/L	505.67 ppb	13:55:40
2	Ti 334.940†	181116.8	180389.3	480.94 µg/L	480.94 ppb	13:55:14
2	Tl 190.801†	403.8	427.8	502.72 µg/L	502.72 ppb	13:55:40
2	U 409.014†	5089.5	4918.0	480.86 µg/L	480.86 ppb	13:55:20
2	V 292.402†	38571.5	38566.8	494.43 µg/L	494.43 ppb	13:55:20
2	Zn 213.857†	19130.5	18472.5	492.73 µg/L	492.73 ppb	13:55:20
3	Sc RADIAL	111743.5	111743.5	102 %		13:54:11
3	Al 396.153Radial†	9729.2	9682.7	4625.0 µg/L	4625.0 ppb	13:54:11
3	Ca 317.933Radial†	15218.1	14488.3	4698.9 µg/L	4698.9 ppb	13:54:11
3	Fe 238.204 Radial†	658.8	612.5	4620.4 µg/L	4620.4 ppb	13:54:31
3	K 766.490 Radial†	8839.8	8407.9	4771.6 µg/L	4771.6 ppb	13:54:11
3	Mg 279.077 IEC†	489.2	469.3	4688.5 µg/L	4688.5 ppb	13:54:31
3	Na 589.592 Radial†	27527.6	26665.9	9232.8 µg/L	9232.8 ppb	13:54:11
3	Sr 421.552†	107332.8	104735.3	474.34 µg/L	474.34 ppb	13:54:11
3	Sc 361.383	1690843.8	1690843.8	100.49 %		13:55:46
3	Y 371.029	932978.5	932978.5	99.664 %		13:55:46
3	Ag 328.068†	52208.1	52521.7	472.81 µg/L	472.81 ppb	13:55:52
3	As 188.979†	233.3	236.0	434.45 µg/L	434.45 ppb	13:56:12
3	B 249.677†	8996.8	8794.7	464.81 µg/L	464.81 ppb	13:55:52
3	Ba 233.527†	18109.1	18039.5	465.76 µg/L	465.76 ppb	13:55:52
3	Be 313.107†	659785.6	658542.0	471.21 µg/L	471.21 ppb	13:55:46
3	Cd 226.502†	15807.4	15875.2	464.64 µg/L	464.64 ppb	13:55:52
3	Co 228.616†	9045.4	8979.5	465.29 µg/L	465.29 ppb	13:55:52
3	Cr 267.716†	17866.1	17689.5	457.72 µg/L	457.72 ppb	13:55:52
3	Cu 324.752†	67604.6	64654.8	464.34 µg/L	464.34 ppb	13:55:52
3	Mn 257.610†	127181.9	127111.3	463.48 µg/L	463.48 ppb	13:55:52
3	Mo 202.031†	3894.7	3871.5	442.69 µg/L	442.69 ppb	13:56:12
3	Ni 231.604†	7262.4	6928.6	479.97 µg/L	479.97 ppb	13:55:52
3	P 214.914†	1272.3	1024.7	2163.1 µg/L	2163.1 ppb	13:56:12
3	Pb 220.353†	1485.7	1435.7	452.15 µg/L	452.15 ppb	13:56:12
3	S 181.975 Axial†	264.7	242.7	921.22 µg/L	921.22 ppb	13:56:12
3	Sb 206.836†	429.3	406.2	435.31 µg/L	435.31 ppb	13:56:12
3	Se 196.026†	390.0	374.8	472.11 µg/L	472.11 ppb	13:56:12
3	SiO2†	24550.8	23048.9	5029.9 µg/L	5029.9 ppb	13:55:52
3	Si 251.611†	29297.0	28791.4	2353.6 µg/L	2353.6 ppb	13:55:52
3	Sn 189.927†	937.0	927.9	436.44 µg/L	436.44 ppb	13:56:12
3	Ti 334.940†	177972.2	177120.0	472.22 µg/L	472.22 ppb	13:55:46
3	Tl 190.801†	372.9	396.7	466.36 µg/L	466.36 ppb	13:56:12
3	U 409.014†	4736.2	4562.5	446.04 µg/L	446.04 ppb	13:55:52
3	V 292.402†	36441.5	36417.3	466.61 µg/L	466.61 ppb	13:55:52
3	Zn 213.857†	18176.9	17508.7	467.00 µg/L	467.00 ppb	13:55:52

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689861.2	100.43 %	0.051			0.05%
Sc RADIAL	111830.9	102 %	0.2			0.22%
Y 371.029	930363.5	99.385 %	0.2420			0.24%
Ag 328.068†	53530.8	481.94 µg/L	8.043	481.94 ppb	8.043	1.67%
QC value within limits for Ag 328.068 Recovery = 96.39%						
Al 396.153Radial†	9653.6	4610.2 µg/L	12.80	4610.2 ppb	12.80	0.28%
QC value within limits for Al 396.153Radial Recovery = 92.20%						
As 188.979†	257.0	473.01 µg/L	33.628	473.01 ppb	33.628	7.11%
QC value within limits for As 188.979 Recovery = 94.60%						
B 249.677†	8992.4	475.32 µg/L	9.394	475.32 ppb	9.394	1.98%
QC value within limits for B 249.677 Recovery = 95.06%						
Ba 233.527†	18589.6	479.96 µg/L	12.395	479.96 ppb	12.395	2.58%
QC value within limits for Ba 233.527 Recovery = 95.99%						
Be 313.107†	666302.2	476.76 µg/L	4.811	476.76 ppb	4.811	1.01%
QC value within limits for Be 313.107 Recovery = 95.35%						
Ca 317.933Radial†	14478.9	4695.9 µg/L	7.45	4695.9 ppb	7.45	0.16%
QC value within limits for Ca 317.933Radial Recovery = 93.92%						
Cd 226.502†	16427.5	480.82 µg/L	14.157	480.82 ppb	14.157	2.94%
QC value within limits for Cd 226.502 Recovery = 96.16%						
Co 228.616†	9298.7	481.87 µg/L	14.406	481.87 ppb	14.406	2.99%



QC value within limits for Co 228.616 Recovery = 96.37%							
Cr 267.716†	18509.4	478.93 µg/L	18.422	478.93 ppb	18.422	3.85%	
QC value within limits for Cr 267.716 Recovery = 95.79%							
Cu 324.752†	66766.0	479.48 µg/L	13.152	479.48 ppb	13.152	2.74%	
QC value within limits for Cu 324.752 Recovery = 95.90%							
Fe 238.204 Radial†	614.7	4636.9 µg/L	17.51	4636.9 ppb	17.51	0.38%	
QC value within limits for Fe 238.204 Radial Recovery = 92.74%							
K 766.490 Radial†	8424.4	4781.0 µg/L	25.53	4781.0 ppb	25.53	0.53%	
QC value within limits for K 766.490 Radial Recovery = 95.62%							
Mg 279.077 IEC†	470.2	4698.3 µg/L	10.19	4698.3 ppb	10.19	0.22%	
QC value within limits for Mg 279.077 IEC Recovery = 93.97%							
Mn 257.610†	131548.0	479.65 µg/L	14.043	479.65 ppb	14.043	2.93%	
QC value within limits for Mn 257.610 Recovery = 95.93%							
Mo 202.031†	4215.3	481.99 µg/L	34.039	481.99 ppb	34.039	7.06%	
QC value within limits for Mo 202.031 Recovery = 96.40%							
Na 589.592 Radial†	26631.5	9220.9 µg/L	12.99	9220.9 ppb	12.99	0.14%	
QC value within limits for Na 589.592 Radial Recovery = 92.21%							
Ni 231.604†	7162.5	496.16 µg/L	14.397	496.16 ppb	14.397	2.90%	
QC value within limits for Ni 231.604 Recovery = 99.23%							
P 214.914†	1107.4	2340.3 µg/L	153.49	2340.3 ppb	153.49	6.56%	
QC value within limits for P 214.914 Recovery = 93.61%							
Pb 220.353†	1530.4	482.03 µg/L	26.059	482.03 ppb	26.059	5.41%	
QC value within limits for Pb 220.353 Recovery = 96.41%							
S 181.975 Axial†	254.8	966.99 µg/L	39.683	966.99 ppb	39.683	4.10%	
QC value within limits for S 181.975 Axial Recovery = 96.70%							
Sb 206.836†	440.8	472.64 µg/L	32.362	472.64 ppb	32.362	6.85%	
QC value within limits for Sb 206.836 Recovery = 94.53%							
Se 196.026†	396.2	498.49 µg/L	23.453	498.49 ppb	23.453	4.70%	
QC value within limits for Se 196.026 Recovery = 99.70%							
SiO2†	23576.8	5145.1 µg/L	101.61	5145.1 ppb	101.61	1.97%	
QC value within limits for SiO2 Recovery = 96.21%							
Si 251.611†	29470.2	2409.1 µg/L	49.10	2409.1 ppb	49.10	2.04%	
QC value within limits for Si 251.611 Recovery = 96.36%							
Sn 189.927†	1023.9	481.56 µg/L	39.102	481.56 ppb	39.102	8.12%	
QC value within limits for Sn 189.927 Recovery = 96.31%							
Sr 421.552†	104587.2	473.67 µg/L	0.653	473.67 ppb	0.653	0.14%	
QC value within limits for Sr 421.552 Recovery = 94.73%							
Ti 334.940†	179432.2	478.39 µg/L	5.368	478.39 ppb	5.368	1.12%	
QC value within limits for Ti 334.940 Recovery = 95.68%							
Tl 190.801†	415.8	488.76 µg/L	19.592	488.76 ppb	19.592	4.01%	
QC value within limits for Tl 190.801 Recovery = 97.75%							
U 409.014†	4754.8	464.88 µg/L	17.584	464.88 ppb	17.584	3.78%	
QC value within limits for U 409.014 Recovery = 92.98%							
V 292.402†	37756.1	483.95 µg/L	15.124	483.95 ppb	15.124	3.13%	
QC value within limits for V 292.402 Recovery = 96.79%							
Zn 213.857†	18117.5	483.25 µg/L	14.142	483.25 ppb	14.142	2.93%	
QC value within limits for Zn 213.857 Recovery = 96.65%							

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 13:56:22

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	109104.0	109104.0	99.9 %		13:56:55
1	Al 396.153Radial†	-133.2	41.6	19.897 µg/L	19.897 ppb	13:56:55
1	Ca 317.933Radial†	420.6	37.4	12.144 µg/L	12.144 ppb	13:57:15
1	Fe 238.204 Radial†	29.5	-1.8	-13.347 µg/L	-13.347 ppb	13:57:15
1	K 766.490 Radial†	264.7	34.2	19.392 µg/L	19.392 ppb	13:56:55
1	Mg 279.077 IEC†	9.9	1.2	11.880 µg/L	11.880 ppb	13:57:15
1	Na 589.592 Radial†	218.8	-16.2	-5.6249 µg/L	-5.6249 ppb	13:56:55
1	Sr 421.552†	159.6	4.7	0.0214 µg/L	0.0214 ppb	13:56:55
1	Sc 361.383	1697141.8	1697141.8	100.86 %		13:58:17
1	Y 371.029	946235.9	946235.9	101.08 %		13:58:17
1	Ag 328.068†	-512.3	58.0	0.5165 µg/L	0.5165 ppb	13:58:23
1	As 188.979†	-6.1	-2.2	-4.1353 µg/L	-4.1353 ppb	13:58:43
1	B 249.677†	176.0	15.9	0.8479 µg/L	0.8479 ppb	13:58:43
1	Ba 233.527†	-9.0	9.0	0.2332 µg/L	0.2332 ppb	13:58:43
1	Be 313.107†	-1915.8	46.4	0.0331 µg/L	0.0331 ppb	13:58:23
1	Cd 226.502†	-139.8	5.6	0.1649 µg/L	0.1649 ppb	13:58:43
1	Co 228.616†	20.1	-2.3	-0.1183 µg/L	-0.1183 ppb	13:58:43
1	Cr 267.716†	73.6	-17.2	-0.4438 µg/L	-0.4438 ppb	13:58:43
1	Cu 324.752†	2663.6	17.8	0.1251 µg/L	0.1251 ppb	13:58:23
1	Mn 257.610†	-536.1	12.7	0.0447 µg/L	0.0447 ppb	13:58:43
1	Mo 202.031†	11.9	7.4	0.8482 µg/L	0.8482 ppb	13:58:43
1	Ni 231.604†	296.3	-4.9	-0.3401 µg/L	-0.3401 ppb	13:58:43
1	P 214.914†	250.5	6.8	14.741 µg/L	14.741 ppb	13:58:43
1	Pb 220.353†	40.6	-2.6	-0.8267 µg/L	-0.8267 ppb	13:58:43
1	S 181.975 Axial†	21.9	1.0	3.8638 µg/L	3.8638 ppb	13:58:43
1	Sb 206.836†	25.2	4.0	4.2444 µg/L	4.2444 ppb	13:58:43
1	Se 196.026†	22.0	8.5	10.399 µg/L	10.399 ppb	13:58:43
1	SiO2†	1409.2	14.0	3.0475 µg/L	3.0475 ppb	13:58:23
1	Si 251.611†	395.7	28.3	2.3150 µg/L	2.3150 ppb	13:58:43
1	Sn 189.927†	4.3	-0.3	-0.1550 µg/L	-0.1550 ppb	13:58:43
1	Ti 334.940†	87.0	94.4	0.2511 µg/L	0.2511 ppb	13:58:23
1	Tl 190.801†	-23.6	2.2	2.5210 µg/L	2.5210 ppb	13:58:43
1	U 409.014†	159.1	6.9	0.6733 µg/L	0.6733 ppb	13:58:23
1	V 292.402†	-146.4	6.8	0.0921 µg/L	0.0921 ppb	13:58:23
1	Zn 213.857†	595.8	10.5	0.2824 µg/L	0.2824 ppb	13:58:43
2	Sc RADIAL	108425.8	108425.8	99.3 %		13:57:21
2	Al 396.153Radial†	-164.8	9.0	4.2712 µg/L	4.2712 ppb	13:57:21
2	Ca 317.933Radial†	419.3	38.7	12.559 µg/L	12.559 ppb	13:57:41
2	Fe 238.204 Radial†	30.2	-0.9	-6.6343 µg/L	-6.6343 ppb	13:57:41
2	K 766.490 Radial†	249.3	20.3	11.536 µg/L	11.536 ppb	13:57:21
2	Mg 279.077 IEC†	12.6	4.0	39.542 µg/L	39.542 ppb	13:57:41
2	Na 589.592 Radial†	307.7	74.6	25.833 µg/L	25.833 ppb	13:57:21
2	Sr 421.552†	192.2	38.6	0.1750 µg/L	0.1750 ppb	13:57:21
2	Sc 361.383	1686554.5	1686554.5	100.23 %		13:58:49
2	Y 371.029	936341.8	936341.8	100.02 %		13:58:49
2	Ag 328.068†	-531.5	35.7	0.3186 µg/L	0.3186 ppb	13:58:55
2	As 188.979†	-8.4	-4.6	-8.4275 µg/L	-8.4275 ppb	13:59:16
2	B 249.677†	167.6	8.6	0.4606 µg/L	0.4606 ppb	13:59:16
2	Ba 233.527†	-13.1	4.9	0.1259 µg/L	0.1259 ppb	13:59:16
2	Be 313.107†	-1960.4	-10.0	-0.0073 µg/L	-0.0073 ppb	13:58:55
2	Cd 226.502†	-136.4	8.1	0.2393 µg/L	0.2393 ppb	13:59:16
2	Co 228.616†	18.2	-4.1	-0.2098 µg/L	-0.2098 ppb	13:59:16
2	Cr 267.716†	85.8	-4.6	-0.1187 µg/L	-0.1187 ppb	13:59:16
2	Cu 324.752†	2622.4	-6.6	-0.0489 µg/L	-0.0489 ppb	13:58:55
2	Mn 257.610†	-524.8	20.6	0.0721 µg/L	0.0721 ppb	13:59:16
2	Mo 202.031†	14.9	10.5	1.2012 µg/L	1.2012 ppb	13:59:16
2	Ni 231.604†	307.2	7.9	0.5451 µg/L	0.5451 ppb	13:59:16
2	P 214.914†	239.0	-3.0	-6.5561 µg/L	-6.5561 ppb	13:59:16
2	Pb 220.353†	41.9	-1.0	-0.3219 µg/L	-0.3219 ppb	13:59:16

2	S 181.975 Axial†	21.5	0.8	2.9515 µg/L	2.9515 ppb	13:59:16
2	Sb 206.836†	26.6	5.5	5.9178 µg/L	5.9178 ppb	13:59:16
2	Se 196.026†	16.1	2.8	3.3611 µg/L	3.3611 ppb	13:59:16
2	SiO2†	1424.9	38.4	8.3873 µg/L	8.3873 ppb	13:58:55
2	Si 251.611†	406.3	41.4	3.3810 µg/L	3.3810 ppb	13:59:16
2	Sn 189.927†	3.6	-1.0	-0.4554 µg/L	-0.4554 ppb	13:59:16
2	Ti 334.940†	113.8	121.7	0.3217 µg/L	0.3217 ppb	13:58:55
2	Tl 190.801†	-21.1	4.6	5.3122 µg/L	5.3122 ppb	13:59:16
2	U 409.014†	178.2	27.0	2.6418 µg/L	2.6418 ppb	13:58:55
2	V 292.402†	-143.6	8.7	0.1213 µg/L	0.1213 ppb	13:58:55
2	Zn 213.857†	597.1	15.4	0.4103 µg/L	0.4103 ppb	13:59:16
3	Sc RADIAL	108217.0	108217.0	99.1 %		13:57:47
3	Al 396.153Radial†	-139.2	34.4	16.462 µg/L	16.462 ppb	13:57:47
3	Ca 317.933Radial†	435.9	56.4	18.280 µg/L	18.280 ppb	13:58:07
3	Fe 238.204 Radial†	32.0	1.0	7.6993 µg/L	7.6993 ppb	13:58:07
3	K 766.490 Radial†	192.6	-36.4	-20.665 µg/L	-20.665 ppb	13:57:47
3	Mg 279.077 IEC†	10.6	2.0	19.629 µg/L	19.629 ppb	13:58:07
3	Na 589.592 Radial†	234.6	1.5	0.5080 µg/L	0.5080 ppb	13:57:47
3	Sr 421.552†	190.9	37.7	0.1706 µg/L	0.1706 ppb	13:57:47
3	Sc 361.383	1682113.1	1682113.1	99.967 %		13:59:22
3	Y 371.029	932942.6	932942.6	99.660 %		13:59:22
3	Ag 328.068†	-512.2	53.6	0.4810 µg/L	0.4810 ppb	13:59:27
3	As 188.979†	-1.4	2.5	4.5800 µg/L	4.5800 ppb	13:59:48
3	B 249.677†	172.8	14.2	0.7505 µg/L	0.7505 ppb	13:59:48
3	Ba 233.527†	-22.8	-4.9	-0.1248 µg/L	-0.1248 ppb	13:59:48
3	Be 313.107†	-1921.8	23.3	0.0165 µg/L	0.0165 ppb	13:59:27
3	Cd 226.502†	-141.7	2.5	0.0716 µg/L	0.0716 ppb	13:59:48
3	Co 228.616†	23.2	0.9	0.0466 µg/L	0.0466 ppb	13:59:48
3	Cr 267.716†	90.9	0.7	0.0190 µg/L	0.0190 ppb	13:59:48
3	Cu 324.752†	2641.6	19.4	0.1407 µg/L	0.1407 ppb	13:59:27
3	Mn 257.610†	-527.2	16.8	0.0605 µg/L	0.0605 ppb	13:59:48
3	Mo 202.031†	8.4	4.1	0.4665 µg/L	0.4665 ppb	13:59:48
3	Ni 231.604†	290.9	-7.7	-0.5333 µg/L	-0.5333 ppb	13:59:48
3	P 214.914†	249.8	8.4	18.162 µg/L	18.162 ppb	13:59:48
3	Pb 220.353†	34.5	-8.3	-2.6218 µg/L	-2.6218 ppb	13:59:48
3	S 181.975 Axial†	20.7	0.0	0.1232 µg/L	0.1232 ppb	13:59:48
3	Sb 206.836†	23.4	2.4	2.5629 µg/L	2.5629 ppb	13:59:48
3	Se 196.026†	17.3	4.0	4.8798 µg/L	4.8798 ppb	13:59:48
3	SiO2†	1418.6	35.9	7.8373 µg/L	7.8373 ppb	13:59:27
3	Si 251.611†	415.2	51.4	4.1979 µg/L	4.1979 ppb	13:59:48
3	Sn 189.927†	4.2	-0.4	-0.1668 µg/L	-0.1668 ppb	13:59:48
3	Ti 334.940†	168.0	176.2	0.4688 µg/L	0.4688 ppb	13:59:27
3	Tl 190.801†	-25.2	0.4	0.4632 µg/L	0.4632 ppb	13:59:48
3	U 409.014†	118.5	-32.3	-3.1654 µg/L	-3.1654 ppb	13:59:27
3	V 292.402†	-135.0	16.9	0.2145 µg/L	0.2145 ppb	13:59:27
3	Zn 213.857†	584.8	4.7	0.1281 µg/L	0.1281 ppb	13:59:48

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1688603.1	100.35 %	0.459			0.46%
Sc RADIAL	108582.3	99.4 %	0.42			0.43%
Y 371.029	938506.7	100.25 %	0.738			0.74%
Ag 328.068†	49.1	0.4387 µg/L	0.10549	0.4387 ppb	0.10549	24.05%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	28.3	13.543 µg/L	8.2115	13.543 ppb	8.2115	60.63%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-2.6609 µg/L	6.62788	-2.6609 ppb	6.62788	249.08%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	12.9	0.6863 µg/L	0.20149	0.6863 ppb	0.20149	29.36%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.0	0.0781 µg/L	0.18376	0.0781 ppb	0.18376	235.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	19.9	0.0141 µg/L	0.02030	0.0141 ppb	0.02030	143.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	44.2	14.328 µg/L	3.4289	14.328 ppb	3.4289	23.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.4	0.1586 µg/L	0.08405	0.1586 ppb	0.08405	53.00%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.8	-0.0938 µg/L	0.12994	-0.0938 ppb	0.12994	138.49%

QC value within limits	for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-7.0	-0.1812 µg/L	0.23762	-0.1812 ppb
QC value within limits	for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	10.2	0.0723 µg/L	0.10522	0.0723 ppb
QC value within limits	for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-0.5	-4.0940 µg/L	10.75073	-4.0940 ppb
QC value within limits	for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	6.0	3.4211 µg/L	21.22585	3.4211 ppb
QC value within limits	for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	2.4	23.684 µg/L	14.2699	23.684 ppb
QC value within limits	for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	16.7	0.0591 µg/L	0.01372	0.0591 ppb
QC value within limits	for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	7.3	0.8386 µg/L	0.36748	0.8386 ppb
QC value within limits	for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	19.9	6.9055 µg/L	16.67645	6.9055 ppb
QC value within limits	for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-1.6	-0.1094 µg/L	0.57501	-0.1094 ppb
QC value within limits	for Ni 231.604	Recovery = Not calculated		
P 214.914†	4.1	8.7825 µg/L	13.39324	8.7825 ppb
QC value within limits	for P 214.914	Recovery = Not calculated		
Pb 220.353†	-4.0	-1.2568 µg/L	1.20874	-1.2568 ppb
QC value within limits	for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.6	2.3128 µg/L	1.95035	2.3128 ppb
QC value within limits	for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	4.0	4.2417 µg/L	1.67747	4.2417 ppb
QC value within limits	for Sb 206.836	Recovery = Not calculated		
Se 196.026†	5.1	6.2132 µg/L	3.70344	6.2132 ppb
QC value within limits	for Se 196.026	Recovery = Not calculated		
SiO2†	29.4	6.4241 µg/L	2.93705	6.4241 ppb
QC value within limits	for SiO2	Recovery = Not calculated		
Si 251.611†	40.3	3.2980 µg/L	0.94420	3.2980 ppb
QC value within limits	for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-0.6	-0.2591 µg/L	0.17013	-0.2591 ppb
QC value within limits	for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	27.0	0.1223 µg/L	0.08742	0.1223 ppb
QC value within limits	for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	130.8	0.3472 µg/L	0.11111	0.3472 ppb
QC value within limits	for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.4	2.7655 µg/L	2.43371	2.7655 ppb
QC value within limits	for Tl 190.801	Recovery = Not calculated		
U 409.014†	0.5	0.0499 µg/L	2.95333	0.0499 ppb
QC value within limits	for U 409.014	Recovery = Not calculated		
V 292.402†	10.8	0.1426 µg/L	0.06391	0.1426 ppb
QC value within limits	for V 292.402	Recovery = Not calculated		
Zn 213.857†	10.2	0.2736 µg/L	0.14132	0.2736 ppb
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: 2/26/2010 14:36:50

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	109544.2	109544.2	100 %			14:37:27
1	Al 396.153Radial†	9934.0	10077.7	4812.6 µg/L		4812.6 ppb	14:37:27
1	Ca 317.933Radial†	15298.0	14866.5	4821.6 µg/L		4821.6 ppb	14:37:27
1	Fe 238.204 Radial†	673.4	640.0	4827.6 µg/L		4827.6 ppb	14:37:48
1	K 766.490 Radial†	8943.2	8684.4	4928.5 µg/L		4928.5 ppb	14:37:27
1	Mg 279.077 IEC†	500.6	490.3	4898.8 µg/L		4898.8 ppb	14:37:48
1	Na 589.592 Radial†	27888.0	27565.3	9544.2 µg/L		9544.2 ppb	14:37:27
1	Sr 421.552†	109381.8	108883.8	493.13 µg/L		493.13 ppb	14:37:27
1	Sc 361.383	1686070.5	1686070.5	100.20 %			14:38:51
1	Y 371.029	929061.8	929061.8	99.246 %			14:38:51
1	Ag 328.068†	54570.5	55026.4	495.44 µg/L		495.44 ppb	14:38:57
1	As 188.979†	267.1	270.4	497.68 µg/L		497.68 ppb	14:39:17
1	B 249.677†	9399.0	9221.4	487.40 µg/L		487.40 ppb	14:38:57
1	Ba 233.527†	19205.5	19184.7	495.33 µg/L		495.33 ppb	14:38:57
1	Be 313.107†	690770.7	691323.5	494.66 µg/L		494.66 ppb	14:38:51
1	Cd 226.502†	16739.8	16850.3	493.19 µg/L		493.19 ppb	14:38:57
1	Co 228.616†	9638.0	9596.3	497.30 µg/L		497.30 ppb	14:38:57
1	Cr 267.716†	19372.6	19243.3	497.92 µg/L		497.92 ppb	14:38:57
1	Cu 324.752†	72072.9	69304.5	497.71 µg/L		497.71 ppb	14:38:57
1	Mn 257.610†	135609.9	135880.6	495.45 µg/L		495.45 ppb	14:38:57
1	Mo 202.031†	4469.9	4456.5	509.56 µg/L		509.56 ppb	14:39:17
1	Ni 231.604†	7696.4	7382.2	511.38 µg/L		511.38 ppb	14:38:57
1	P 214.914†	1404.8	1160.5	2453.1 µg/L		2453.1 ppb	14:39:17
1	Pb 220.353†	1649.5	1603.3	505.03 µg/L		505.03 ppb	14:39:17
1	S 181.975 Axial†	283.4	262.2	995.06 µg/L		995.06 ppb	14:39:17
1	Sb 206.836†	481.2	459.3	492.59 µg/L		492.59 ppb	14:39:17
1	Se 196.026†	424.3	410.1	516.02 µg/L		516.02 ppb	14:39:17
1	SiO2†	25839.4	24404.1	5325.6 µg/L		5325.6 ppb	14:38:57
1	Si 251.611†	30968.2	30541.7	2496.7 µg/L		2496.7 ppb	14:38:57
1	Sn 189.927†	1092.5	1085.7	510.60 µg/L		510.60 ppb	14:39:17
1	Ti 334.940†	187118.7	186749.5	497.90 µg/L		497.90 ppb	14:38:51
1	Tl 190.801†	399.3	424.1	498.60 µg/L		498.60 ppb	14:39:17
1	U 409.014†	5123.5	4962.4	485.18 µg/L		485.18 ppb	14:38:57
1	V 292.402†	39093.9	39167.0	502.11 µg/L		502.11 ppb	14:38:57
1	Zn 213.857†	19316.2	18697.0	498.70 µg/L		498.70 ppb	14:38:57
2	Sc RADIAL	108562.3	108562.3	99.4 %			14:37:53
2	Al 396.153Radial†	9839.9	10072.7	4810.3 µg/L		4810.3 ppb	14:37:53
2	Ca 317.933Radial†	15194.6	14900.4	4832.5 µg/L		4832.5 ppb	14:37:53
2	Fe 238.204 Radial†	667.9	640.5	4831.7 µg/L		4831.7 ppb	14:38:14
2	K 766.490 Radial†	8946.3	8768.2	4976.1 µg/L		4976.1 ppb	14:37:53
2	Mg 279.077 IEC†	496.1	490.2	4898.0 µg/L		4898.0 ppb	14:38:14
2	Na 589.592 Radial†	27715.5	27643.2	9571.2 µg/L		9571.2 ppb	14:37:53
2	Sr 421.552†	108710.5	109194.7	494.54 µg/L		494.54 ppb	14:37:53
2	Sc 361.383	1682961.1	1682961.1	100.02 %			14:39:24
2	Y 371.029	925284.9	925284.9	98.842 %			14:39:24
2	Ag 328.068†	54681.7	55238.2	497.34 µg/L		497.34 ppb	14:39:29
2	As 188.979†	262.0	265.8	489.32 µg/L		489.32 ppb	14:39:50
2	B 249.677†	9468.8	9308.5	492.02 µg/L		492.02 ppb	14:39:29
2	Ba 233.527†	19191.4	19206.0	495.89 µg/L		495.89 ppb	14:39:29
2	Be 313.107†	685701.7	687529.0	491.95 µg/L		491.95 ppb	14:39:24
2	Cd 226.502†	16783.7	16925.1	495.38 µg/L		495.38 ppb	14:39:29
2	Co 228.616†	9662.0	9638.1	499.47 µg/L		499.47 ppb	14:39:29
2	Cr 267.716†	19363.5	19270.0	498.61 µg/L		498.61 ppb	14:39:29
2	Cu 324.752†	72191.3	69555.8	499.51 µg/L		499.51 ppb	14:39:29
2	Mn 257.610†	135741.0	136261.8	496.84 µg/L		496.84 ppb	14:39:29
2	Mo 202.031†	4434.5	4429.4	506.46 µg/L		506.46 ppb	14:39:50
2	Ni 231.604†	7721.7	7421.7	514.12 µg/L		514.12 ppb	14:39:29
2	P 214.914†	1394.6	1152.9	2436.5 µg/L		2436.5 ppb	14:39:50
2	Pb 220.353†	1632.4	1589.2	500.58 µg/L		500.58 ppb	14:39:50

2	S 181.975 Axial†	287.4	266.7	1012.0 µg/L	1012.0 ppb	14:39:50
2	Sb 206.836†	479.1	458.0	491.15 µg/L	491.15 ppb	14:39:50
2	Se 196.026†	415.5	402.1	506.17 µg/L	506.17 ppb	14:39:50
2	SiO2†	26063.7	24676.1	5385.0 µg/L	5385.0 ppb	14:39:29
2	Si 251.611†	31195.0	30825.6	2519.9 µg/L	2519.9 ppb	14:39:29
2	Sn 189.927†	1076.4	1071.7	504.00 µg/L	504.00 ppb	14:39:50
2	Ti 334.940†	185830.1	185806.1	495.38 µg/L	495.38 ppb	14:39:24
2	Tl 190.801†	399.1	424.6	499.18 µg/L	499.18 ppb	14:39:50
2	U 409.014†	5204.4	5052.7	494.03 µg/L	494.03 ppb	14:39:29
2	V 292.402†	39117.8	39262.9	503.32 µg/L	503.32 ppb	14:39:29
2	Zn 213.857†	19345.0	18761.3	500.42 µg/L	500.42 ppb	14:39:29
3	Sc RADIAL	110118.1	110118.1	101 %		14:38:19
3	Al 396.153Radial†	9944.6	10036.6	4794.2 µg/L	4794.2 ppb	14:38:19
3	Ca 317.933Radial†	15416.4	14904.4	4833.9 µg/L	4833.9 ppb	14:38:19
3	Fe 238.204 Radial†	668.1	631.2	4761.2 µg/L	4761.2 ppb	14:38:40
3	K 766.490 Radial†	9074.3	8768.0	4976.0 µg/L	4976.0 ppb	14:38:19
3	Mg 279.077 IEC†	499.4	486.4	4859.2 µg/L	4859.2 ppb	14:38:40
3	Na 589.592 Radial†	28006.3	27537.7	9534.7 µg/L	9534.7 ppb	14:38:19
3	Sr 421.552†	109767.8	108698.3	492.29 µg/L	492.29 ppb	14:38:19
3	Sc 361.383	1673078.9	1673078.9	99.430 %		14:39:56
3	Y 371.029	922815.6	922815.6	98.579 %		14:39:56
3	Ag 328.068†	52735.9	53604.2	482.55 µg/L	482.55 ppb	14:40:02
3	As 188.979†	240.0	245.3	451.48 µg/L	451.48 ppb	14:40:23
3	B 249.677†	9044.9	8938.1	472.36 µg/L	472.36 ppb	14:40:02
3	Ba 233.527†	18230.4	18352.8	473.85 µg/L	473.85 ppb	14:40:02
3	Be 313.107†	666220.3	671985.4	480.82 µg/L	480.82 ppb	14:39:56
3	Cd 226.502†	15924.7	16160.2	472.98 µg/L	472.98 ppb	14:40:02
3	Co 228.616†	9116.6	9146.6	473.94 µg/L	473.94 ppb	14:40:02
3	Cr 267.716†	17983.4	17996.4	465.66 µg/L	465.66 ppb	14:40:02
3	Cu 324.752†	68301.9	66070.5	474.51 µg/L	474.51 ppb	14:40:02
3	Mn 257.610†	128118.9	129397.6	471.81 µg/L	471.81 ppb	14:40:02
3	Mo 202.031†	3920.3	3938.5	450.34 µg/L	450.34 ppb	14:40:23
3	Ni 231.604†	7292.9	7036.0	487.40 µg/L	487.40 ppb	14:40:02
3	P 214.914†	1296.7	1062.7	2243.9 µg/L	2243.9 ppb	14:40:23
3	Pb 220.353†	1496.5	1462.2	460.50 µg/L	460.50 ppb	14:40:23
3	S 181.975 Axial†	263.6	244.5	927.81 µg/L	927.81 ppb	14:40:23
3	Sb 206.836†	441.5	423.0	453.30 µg/L	453.30 ppb	14:40:23
3	Se 196.026†	387.0	375.9	473.79 µg/L	473.79 ppb	14:40:23
3	SiO2†	25028.3	23788.6	5191.3 µg/L	5191.3 ppb	14:40:02
3	Si 251.611†	29868.3	29675.5	2425.9 µg/L	2425.9 ppb	14:40:02
3	Sn 189.927†	943.5	944.4	444.19 µg/L	444.19 ppb	14:40:23
3	Ti 334.940†	180118.1	181158.8	482.98 µg/L	482.98 ppb	14:39:56
3	Tl 190.801†	376.2	403.9	474.92 µg/L	474.92 ppb	14:40:23
3	U 409.014†	4796.8	4673.5	456.89 µg/L	456.89 ppb	14:40:02
3	V 292.402†	36679.4	37041.6	474.62 µg/L	474.62 ppb	14:40:02
3	Zn 213.857†	18264.8	17789.2	474.47 µg/L	474.47 ppb	14:40:02

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1680703.5	99.883 %	0.4031			0.40%
Sc RADIAL	109408.2	100 %	0.7			0.72%
Y 371.029	925720.8	98.889 %	0.3360			0.34%
Ag 328.068†	54622.9	491.78 µg/L	8.047	491.78 ppb	8.047	1.64%
QC value within limits for Ag 328.068 Recovery = 98.36%						
Al 396.153Radial†	10062.4	4805.7 µg/L	10.05	4805.7 ppb	10.05	0.21%
QC value within limits for Al 396.153Radial Recovery = 96.11%						
As 188.979†	260.5	479.49 µg/L	24.614	479.49 ppb	24.614	5.13%
QC value within limits for As 188.979 Recovery = 95.90%						
B 249.677†	9156.0	483.92 µg/L	10.281	483.92 ppb	10.281	2.12%
QC value within limits for B 249.677 Recovery = 96.78%						
Ba 233.527†	18914.5	488.36 µg/L	12.568	488.36 ppb	12.568	2.57%
QC value within limits for Ba 233.527 Recovery = 97.67%						
Be 313.107†	683612.6	489.14 µg/L	7.332	489.14 ppb	7.332	1.50%
QC value within limits for Be 313.107 Recovery = 97.83%						
Ca 317.933Radial†	14890.4	4829.3 µg/L	6.75	4829.3 ppb	6.75	0.14%
QC value within limits for Ca 317.933Radial Recovery = 96.59%						
Cd 226.502†	16645.2	487.18 µg/L	12.354	487.18 ppb	12.354	2.54%
QC value within limits for Cd 226.502 Recovery = 97.44%						
Co 228.616†	9460.3	490.24 µg/L	14.152	490.24 ppb	14.152	2.89%

QC value within limits for Co 228.616 Recovery = 98.05%							
Cr 267.716†	18836.6	487.40 µg/L	18.829	487.40 ppb	18.829	3.86%	
QC value within limits for Cr 267.716 Recovery = 97.48%							
Cu 324.752†	68310.3	490.58 µg/L	13.941	490.58 ppb	13.941	2.84%	
QC value within limits for Cu 324.752 Recovery = 98.12%							
Fe 238.204 Radial†	637.2	4806.8 µg/L	39.57	4806.8 ppb	39.57	0.82%	
QC value within limits for Fe 238.204 Radial Recovery = 96.14%							
K 766.490 Radial†	8740.2	4960.2 µg/L	27.42	4960.2 ppb	27.42	0.55%	
QC value within limits for K 766.490 Radial Recovery = 99.20%							
Mg 279.077 IEC†	489.0	4885.3 µg/L	22.59	4885.3 ppb	22.59	0.46%	
QC value within limits for Mg 279.077 IEC Recovery = 97.71%							
Mn 257.610†	133846.7	488.03 µg/L	14.068	488.03 ppb	14.068	2.88%	
QC value within limits for Mn 257.610 Recovery = 97.61%							
Mo 202.031†	4274.8	488.79 µg/L	33.329	488.79 ppb	33.329	6.82%	
QC value within limits for Mo 202.031 Recovery = 97.76%							
Na 589.592 Radial†	27582.1	9550.0 µg/L	18.94	9550.0 ppb	18.94	0.20%	
QC value within limits for Na 589.592 Radial Recovery = 95.50%							
Ni 231.604†	7280.0	504.30 µg/L	14.699	504.30 ppb	14.699	2.91%	
QC value within limits for Ni 231.604 Recovery = 100.86%							
P 214.914†	1125.3	2377.8 µg/L	116.30	2377.8 ppb	116.30	4.89%	
QC value within limits for P 214.914 Recovery = 95.11%							
Pb 220.353†	1551.6	488.70 µg/L	24.527	488.70 ppb	24.527	5.02%	
QC value within limits for Pb 220.353 Recovery = 97.74%							
S 181.975 Axial†	257.8	978.31 µg/L	44.548	978.31 ppb	44.548	4.55%	
QC value within limits for S 181.975 Axial Recovery = 97.83%							
Sb 206.836†	446.7	479.01 µg/L	22.277	479.01 ppb	22.277	4.65%	
QC value within limits for Sb 206.836 Recovery = 95.80%							
Se 196.026†	396.0	498.66 µg/L	22.094	498.66 ppb	22.094	4.43%	
QC value within limits for Se 196.026 Recovery = 99.73%							
SiO2†	24289.6	5300.6 µg/L	99.22	5300.6 ppb	99.22	1.87%	
QC value within limits for SiO2 Recovery = 99.12%							
Si 251.611†	30347.6	2480.8 µg/L	48.98	2480.8 ppb	48.98	1.97%	
QC value within limits for Si 251.611 Recovery = 99.23%							
Sn 189.927†	1033.9	486.26 µg/L	36.582	486.26 ppb	36.582	7.52%	
QC value within limits for Sn 189.927 Recovery = 97.25%							
Sr 421.552†	108925.6	493.32 µg/L	1.136	493.32 ppb	1.136	0.23%	
QC value within limits for Sr 421.552 Recovery = 98.66%							
Ti 334.940†	184571.5	492.09 µg/L	7.982	492.09 ppb	7.982	1.62%	
QC value within limits for Ti 334.940 Recovery = 98.42%							
Tl 190.801†	417.5	490.90 µg/L	13.842	490.90 ppb	13.842	2.82%	
QC value within limits for Tl 190.801 Recovery = 98.18%							
U 409.014†	4896.2	478.70 µg/L	19.399	478.70 ppb	19.399	4.05%	
QC value within limits for U 409.014 Recovery = 95.74%							
V 292.402†	38490.5	493.35 µg/L	16.234	493.35 ppb	16.234	3.29%	
QC value within limits for V 292.402 Recovery = 98.67%							
Zn 213.857†	18415.8	491.20 µg/L	14.513	491.20 ppb	14.513	2.95%	
QC value within limits for Zn 213.857 Recovery = 98.24%							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 14:40:32

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	108653.6	108653.6	99.5 %		14:41:05
1	Al 396.153Radial†	-153.3	20.8	9.9303 µg/L	9.9303 ppb	14:41:05
1	Ca 317.933Radial†	388.1	6.5	2.0930 µg/L	2.0930 ppb	14:41:25
1	Fe 238.204 Radial†	29.9	-1.2	-9.3807 µg/L	-9.3807 ppb	14:41:25
1	K 766.490 Radial†	253.4	23.9	13.552 µg/L	13.552 ppb	14:41:05
1	Mg 279.077 IEC†	8.7	0.0	0.1490 µg/L	0.1490 ppb	14:41:25
1	Na 589.592 Radial†	198.9	-35.4	-12.256 µg/L	-12.256 ppb	14:41:05
1	Sr 421.552†	178.9	24.9	0.1126 µg/L	0.1126 ppb	14:41:05
1	Sc 361.383	1669339.6	1669339.6	99.208 %		14:42:27
1	Y 371.029	922794.8	922794.8	98.576 %		14:42:27
1	Ag 328.068†	-586.0	-24.8	-0.2220 µg/L	-0.2220 ppb	14:42:33
1	As 188.979†	-10.7	-6.9	-12.751 µg/L	-12.751 ppb	14:42:53
1	B 249.677†	181.2	24.0	1.2792 µg/L	1.2792 ppb	14:42:53
1	Ba 233.527†	-17.1	0.6	0.0169 µg/L	0.0169 ppb	14:42:53
1	Be 313.107†	-2001.7	-71.9	-0.0516 µg/L	-0.0516 ppb	14:42:33
1	Cd 226.502†	-136.3	6.8	0.2011 µg/L	0.2011 ppb	14:42:53
1	Co 228.616†	20.7	-1.4	-0.0736 µg/L	-0.0736 ppb	14:42:53
1	Cr 267.716†	83.7	-5.8	-0.1510 µg/L	-0.1510 ppb	14:42:53
1	Cu 324.752†	2636.7	34.7	0.2473 µg/L	0.2473 ppb	14:42:33
1	Mn 257.610†	-481.5	58.9	0.2143 µg/L	0.2143 ppb	14:42:53
1	Mo 202.031†	18.2	14.0	1.5951 µg/L	1.5951 ppb	14:42:53
1	Ni 231.604†	290.6	-5.7	-0.3985 µg/L	-0.3985 ppb	14:42:53
1	P 214.914†	249.5	10.0	21.474 µg/L	21.474 ppb	14:42:53
1	Pb 220.353†	43.9	1.4	0.4383 µg/L	0.4383 ppb	14:42:53
1	S 181.975 Axial†	20.8	0.3	0.9722 µg/L	0.9722 ppb	14:42:53
1	Sb 206.836†	28.1	7.3	7.7822 µg/L	7.7822 ppb	14:42:53
1	Se 196.026†	10.5	-2.7	-3.3306 µg/L	-3.3306 ppb	14:42:53
1	SiO2†	1456.3	84.7	18.493 µg/L	18.493 ppb	14:42:33
1	Si 251.611†	457.6	97.3	7.9499 µg/L	7.9499 ppb	14:42:53
1	Sn 189.927†	3.1	-1.4	-0.6475 µg/L	-0.6475 ppb	14:42:53
1	Ti 334.940†	128.8	138.0	0.3681 µg/L	0.3681 ppb	14:42:33
1	Tl 190.801†	-20.2	5.2	6.0558 µg/L	6.0558 ppb	14:42:53
1	U 409.014†	129.0	-20.8	-2.0392 µg/L	-2.0392 ppb	14:42:33
1	V 292.402†	-140.6	10.2	0.1386 µg/L	0.1386 ppb	14:42:33
1	Zn 213.857†	589.4	13.8	0.3724 µg/L	0.3724 ppb	14:42:53
2	Sc RADIAL	108110.5	108110.5	99.0 %		14:41:31
2	Al 396.153Radial†	-153.8	19.6	9.3482 µg/L	9.3482 ppb	14:41:31
2	Ca 317.933Radial†	394.0	14.4	4.6687 µg/L	4.6687 ppb	14:41:51
2	Fe 238.204 Radial†	31.7	0.8	5.7541 µg/L	5.7541 ppb	14:41:51
2	K 766.490 Radial†	199.8	-28.9	-16.419 µg/L	-16.419 ppb	14:41:31
2	Mg 279.077 IEC†	11.9	3.2	32.392 µg/L	32.392 ppb	14:41:51
2	Na 589.592 Radial†	253.9	21.2	7.3489 µg/L	7.3489 ppb	14:41:31
2	Sr 421.552†	132.1	-21.5	-0.0974 µg/L	-0.0974 ppb	14:41:31
2	Sc 361.383	1671426.8	1671426.8	99.332 %		14:42:59
2	Y 371.029	922403.4	922403.4	98.535 %		14:42:59
2	Ag 328.068†	-499.2	63.4	0.5652 µg/L	0.5652 ppb	14:43:05
2	As 188.979†	-10.0	-6.2	-11.440 µg/L	-11.440 ppb	14:43:25
2	B 249.677†	156.9	-0.7	-0.0403 µg/L	-0.0403 ppb	14:43:25
2	Ba 233.527†	-11.0	6.8	0.1751 µg/L	0.1751 ppb	14:43:25
2	Be 313.107†	-2002.9	-70.6	-0.0507 µg/L	-0.0507 ppb	14:43:05
2	Cd 226.502†	-139.4	3.9	0.1139 µg/L	0.1139 ppb	14:43:25
2	Co 228.616†	16.4	-5.8	-0.2994 µg/L	-0.2994 ppb	14:43:25
2	Cr 267.716†	85.7	-3.9	-0.1006 µg/L	-0.1006 ppb	14:43:25
2	Cu 324.752†	2604.3	-1.3	-0.0079 µg/L	-0.0079 ppb	14:43:05
2	Mn 257.610†	-497.2	43.7	0.1573 µg/L	0.1573 ppb	14:43:25
2	Mo 202.031†	14.3	10.1	1.1514 µg/L	1.1514 ppb	14:43:25
2	Ni 231.604†	291.8	-4.9	-0.3404 µg/L	-0.3404 ppb	14:43:25
2	P 214.914†	256.5	16.8	36.146 µg/L	36.146 ppb	14:43:25
2	Pb 220.353†	42.6	0.0	0.0142 µg/L	0.0142 ppb	14:43:25



2	S 181.975 Axial†	21.0	0.5	1.7393 µg/L	1.7393 ppb	14:43:25
2	Sb 206.836†	21.1	0.2	0.1990 µg/L	0.1990 ppb	14:43:25
2	Se 196.026†	10.4	-2.8	-3.4621 µg/L	-3.4621 ppb	14:43:25
2	SiO2†	1480.8	107.6	23.476 µg/L	23.476 ppb	14:43:05
2	Si 251.611†	515.0	154.5	12.626 µg/L	12.626 ppb	14:43:25
2	Sn 189.927†	6.2	1.7	0.8147 µg/L	0.8147 ppb	14:43:25
2	Ti 334.940†	138.3	147.3	0.3906 µg/L	0.3906 ppb	14:43:05
2	Tl 190.801†	-26.0	-0.5	-0.6313 µg/L	-0.6313 ppb	14:43:25
2	U 409.014†	162.6	12.9	1.2599 µg/L	1.2599 ppb	14:43:05
2	V 292.402†	-172.0	-21.2	-0.2584 µg/L	-0.2584 ppb	14:43:05
2	Zn 213.857†	586.5	10.2	0.2721 µg/L	0.2721 ppb	14:43:25
3	Sc RADIAL	108765.9	108765.9	99.6 %		14:41:57
3	Al 396.153Radial†	-137.0	37.4	17.877 µg/L	17.877 ppb	14:41:57
3	Ca 317.933Radial†	395.8	13.9	4.4948 µg/L	4.4948 ppb	14:42:17
3	Fe 238.204 Radial†	31.7	0.5	4.0251 µg/L	4.0251 ppb	14:42:17
3	K 766.490 Radial†	266.5	36.9	20.921 µg/L	20.921 ppb	14:41:57
3	Mg 279.077 IEC†	8.0	-0.8	-7.7276 µg/L	-7.7276 ppb	14:42:17
3	Na 589.592 Radial†	186.5	-48.0	-16.633 µg/L	-16.633 ppb	14:41:57
3	Sr 421.552†	144.2	-10.2	-0.0460 µg/L	-0.0460 ppb	14:41:57
3	Sc 361.383	1670817.7	1670817.7	99.296 %		14:43:31
3	Y 371.029	924374.2	924374.2	98.745 %		14:43:31
3	Ag 328.068†	-471.0	91.6	0.8221 µg/L	0.8221 ppb	14:43:37
3	As 188.979†	-8.8	-5.0	-9.2300 µg/L	-9.2300 ppb	14:43:57
3	B 249.677†	163.3	5.8	0.3060 µg/L	0.3060 ppb	14:43:57
3	Ba 233.527†	-28.4	-10.7	-0.2753 µg/L	-0.2753 ppb	14:43:57
3	Be 313.107†	-2030.3	-98.9	-0.0709 µg/L	-0.0709 ppb	14:43:37
3	Cd 226.502†	-138.9	4.3	0.1248 µg/L	0.1248 ppb	14:43:57
3	Co 228.616†	15.3	-6.8	-0.3545 µg/L	-0.3545 ppb	14:43:57
3	Cr 267.716†	83.4	-6.2	-0.1595 µg/L	-0.1595 ppb	14:43:57
3	Cu 324.752†	2609.3	4.7	0.0347 µg/L	0.0347 ppb	14:43:37
3	Mn 257.610†	-507.2	33.4	0.1226 µg/L	0.1226 ppb	14:43:57
3	Mo 202.031†	9.1	4.8	0.5475 µg/L	0.5475 ppb	14:43:57
3	Ni 231.604†	288.6	-8.0	-0.5515 µg/L	-0.5515 ppb	14:43:57
3	P 214.914†	252.6	13.0	27.937 µg/L	27.937 ppb	14:43:57
3	Pb 220.353†	37.9	-4.6	-1.4653 µg/L	-1.4653 ppb	14:43:57
3	S 181.975 Axial†	16.6	-3.9	-14.991 µg/L	-14.991 ppb	14:43:57
3	Sb 206.836†	25.2	4.4	4.6792 µg/L	4.6792 ppb	14:43:57
3	Se 196.026†	20.7	7.6	9.3074 µg/L	9.3074 ppb	14:43:57
3	SiO2†	1533.7	161.4	35.219 µg/L	35.219 ppb	14:43:37
3	Si 251.611†	510.2	149.8	12.246 µg/L	12.246 ppb	14:43:57
3	Sn 189.927†	6.3	1.8	0.8533 µg/L	0.8533 ppb	14:43:57
3	Ti 334.940†	166.4	175.7	0.4695 µg/L	0.4695 ppb	14:43:37
3	Tl 190.801†	-18.2	7.2	8.4248 µg/L	8.4248 ppb	14:43:57
3	U 409.014†	210.0	60.7	5.9453 µg/L	5.9453 ppb	14:43:37
3	V 292.402†	-107.9	43.3	0.5585 µg/L	0.5585 ppb	14:43:37
3	Zn 213.857†	585.6	9.5	0.2580 µg/L	0.2580 ppb	14:43:57

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1670528.0	99.278 %	0.0638			0.06%
Sc RADIAL	108510.0	99.4 %	0.32			0.32%
Y 371.029	923190.8	98.619 %	0.1115			0.11%
Ag 328.068†	43.4	0.3884 µg/L	0.54402	0.3884 ppb	0.54402	140.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	25.9	12.385 µg/L	4.7650	12.385 ppb	4.7650	38.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-6.0	-11.140 µg/L	1.7796	-11.140 ppb	1.7796	15.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.7	0.5149 µg/L	0.68415	0.5149 ppb	0.68415	132.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.1	-0.0278 µg/L	0.22848	-0.0278 ppb	0.22848	822.37%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-80.4	-0.0577 µg/L	0.01146	-0.0577 ppb	0.01146	19.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	11.6	3.7521 µg/L	1.43950	3.7521 ppb	1.43950	38.36%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.0	0.1466 µg/L	0.04754	0.1466 ppb	0.04754	32.43%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.7	-0.2425 µg/L	0.14882	-0.2425 ppb	0.14882	61.37%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-5.3 -0.1370 µg/L	0.03181 -0.1370 ppb	0.03181 23.22%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	12.7 0.0914 µg/L	0.13673 0.0914 ppb	0.13673 149.65%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	0.0 0.1328 µg/L	8.28419 0.1328 ppb	8.28419 >999.9%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	10.6 6.0179 µg/L	19.77710 6.0179 ppb	19.77710 328.64%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.8 8.2712 µg/L	21.25747 8.2712 ppb	21.25747 257.01%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	45.3 0.1648 µg/L	0.04629 0.1648 ppb	0.04629 28.10%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	9.6 1.0980 µg/L	0.52585 1.0980 ppb	0.52585 47.89%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-20.7 -7.1800 µg/L	12.77128 -7.1800 ppb	12.77128 177.87%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-6.2 -0.4301 µg/L	0.10902 -0.4301 ppb	0.10902 25.35%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	13.2 28.519 µg/L	7.3534 28.519 ppb	7.3534 25.78%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-1.1 -0.3376 µg/L	0.99935 -0.3376 ppb	0.99935 296.01%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-1.1 -4.0932 µg/L	9.44565 -4.0932 ppb	9.44565 230.76%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	3.9 4.2201 µg/L	3.81239 4.2201 ppb	3.81239 90.34%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.7 0.8383 µg/L	7.33481 0.8383 ppb	7.33481 875.00%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	117.9 25.729 µg/L	8.5876 25.729 ppb	8.5876 33.38%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	133.8 10.941 µg/L	2.5969 10.941 ppb	2.5969 23.74%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.7 0.3402 µg/L	0.85557 0.3402 ppb	0.85557 251.50%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-2.3 -0.0103 µg/L	0.10949 -0.0103 ppb	0.10949 >999.9%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	153.7 0.4094 µg/L	0.05324 0.4094 ppb	0.05324 13.00%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	4.0 4.6164 µg/L	4.69651 4.6164 ppb	4.69651 101.73%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	17.6 1.7220 µg/L	4.01224 1.7220 ppb	4.01224 233.00%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	10.8 0.1462 µg/L	0.40854 0.1462 ppb	0.40854 279.35%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	11.2 0.3008 µg/L	0.06239 0.3008 ppb	0.06239 20.74%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 15:17:14

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	108898.9	108898.9	99.7 %		15:17:53
1	Al 396.153Radial†	9991.1	10193.7	4868.0 µg/L	4868.0 ppb	15:17:53
1	Ca 317.933Radial†	15470.9	15130.3	4907.1 µg/L	4907.1 ppb	15:17:53
1	Fe 238.204 Radial†	681.9	652.5	4922.0 µg/L	4922.0 ppb	15:18:14
1	K 766.490 Radial†	8964.6	8758.7	4970.7 µg/L	4970.7 ppb	15:17:53
1	Mg 279.077 IEC†	502.4	495.1	4946.4 µg/L	4946.4 ppb	15:18:14
1	Na 589.592 Radial†	28037.4	27879.8	9653.1 µg/L	9653.1 ppb	15:17:53
1	Sr 421.552†	109836.3	109985.6	498.12 µg/L	498.12 ppb	15:17:53
1	Sc 361.383	1673496.1	1673496.1	99.455 %		15:19:17
1	Y 371.029	923037.6	923037.6	98.602 %		15:19:17
1	Ag 328.068†	55008.9	55876.4	503.11 µg/L	503.11 ppb	15:19:23
1	As 188.979†	264.0	269.3	495.59 µg/L	495.59 ppb	15:19:43
1	B 249.677†	9467.7	9361.0	494.76 µg/L	494.76 ppb	15:19:23
1	Ba 233.527†	19409.6	19533.9	504.35 µg/L	504.35 ppb	15:19:23
1	Be 313.107†	693201.5	698947.5	500.12 µg/L	500.12 ppb	15:19:17
1	Cd 226.502†	16952.3	17189.4	503.12 µg/L	503.12 ppb	15:19:23
1	Co 228.616†	9741.3	9772.5	506.43 µg/L	506.43 ppb	15:19:23
1	Cr 267.716†	19528.5	19545.4	505.74 µg/L	505.74 ppb	15:19:23
1	Cu 324.752†	72574.1	70348.9	505.21 µg/L	505.21 ppb	15:19:23
1	Mn 257.610†	136831.9	138126.3	503.64 µg/L	503.64 ppb	15:19:23
1	Mo 202.031†	4513.2	4533.5	518.37 µg/L	518.37 ppb	15:19:43
1	Ni 231.604†	7764.8	7508.8	520.15 µg/L	520.15 ppb	15:19:23
1	P 214.914†	1420.1	1186.4	2508.3 µg/L	2508.3 ppb	15:19:43
1	Pb 220.353†	1658.8	1625.1	511.88 µg/L	511.88 ppb	15:19:43
1	S 181.975 Axial†	293.7	274.6	1042.3 µg/L	1042.3 ppb	15:19:43
1	Sb 206.836†	487.4	469.0	503.07 µg/L	503.07 ppb	15:19:43
1	Se 196.026†	433.2	422.3	531.25 µg/L	531.25 ppb	15:19:43
1	SiO2†	26110.5	24870.5	5427.4 µg/L	5427.4 ppb	15:19:23
1	Si 251.611†	31335.6	31143.3	2545.9 µg/L	2545.9 ppb	15:19:23
1	Sn 189.927†	1103.4	1104.9	519.64 µg/L	519.64 ppb	15:19:43
1	Ti 334.940†	187781.4	188819.0	503.41 µg/L	503.41 ppb	15:19:17
1	Tl 190.801†	407.8	435.6	512.06 µg/L	512.06 ppb	15:19:43
1	U 409.014†	5190.5	5068.1	495.52 µg/L	495.52 ppb	15:19:23
1	V 292.402†	39560.1	39928.9	511.87 µg/L	511.87 ppb	15:19:23
1	Zn 213.857†	19471.8	18998.3	506.74 µg/L	506.74 ppb	15:19:23
2	Sc RADIAL	109441.2	109441.2	100 %		15:18:19
2	Al 396.153Radial†	10058.9	10211.7	4876.6 µg/L	4876.6 ppb	15:18:19
2	Ca 317.933Radial†	15597.9	15180.1	4923.3 µg/L	4923.3 ppb	15:18:19
2	Fe 238.204 Radial†	678.7	645.9	4872.7 µg/L	4872.7 ppb	15:18:40
2	K 766.490 Radial†	9120.0	8869.2	5033.4 µg/L	5033.4 ppb	15:18:19
2	Mg 279.077 IEC†	503.5	493.6	4932.2 µg/L	4932.2 ppb	15:18:40
2	Na 589.592 Radial†	28189.7	27892.5	9657.5 µg/L	9657.5 ppb	15:18:19
2	Sr 421.552†	110678.1	110279.8	499.45 µg/L	499.45 ppb	15:18:19
2	Sc 361.383	1679861.0	1679861.0	99.833 %		15:19:50
2	Y 371.029	924939.8	924939.8	98.806 %		15:19:50
2	Ag 328.068†	54615.5	55272.8	497.68 µg/L	497.68 ppb	15:19:56
2	As 188.979†	273.5	277.9	511.45 µg/L	511.45 ppb	15:20:16
2	B 249.677†	9393.5	9250.6	488.92 µg/L	488.92 ppb	15:19:56
2	Ba 233.527†	19279.2	19329.4	499.07 µg/L	499.07 ppb	15:19:56
2	Be 313.107†	694766.3	697874.0	499.35 µg/L	499.35 ppb	15:19:50
2	Cd 226.502†	16780.6	16952.9	496.20 µg/L	496.20 ppb	15:19:56
2	Co 228.616†	9671.1	9665.0	500.86 µg/L	500.86 ppb	15:19:56
2	Cr 267.716†	19353.5	19295.7	499.28 µg/L	499.28 ppb	15:19:56
2	Cu 324.752†	72210.3	69708.0	500.61 µg/L	500.61 ppb	15:19:56
2	Mn 257.610†	136114.8	136886.7	499.12 µg/L	499.12 ppb	15:19:56
2	Mo 202.031†	4492.6	4495.8	514.05 µg/L	514.05 ppb	15:20:16
2	Ni 231.604†	7750.6	7464.9	517.12 µg/L	517.12 ppb	15:19:56
2	P 214.914†	1418.0	1178.9	2492.6 µg/L	2492.6 ppb	15:20:16
2	Pb 220.353†	1658.5	1618.4	509.78 µg/L	509.78 ppb	15:20:16

2	S 181.975 Axial†	287.7	267.5	1015.3 µg/L	1015.3 ppb	15:20:16
2	Sb 206.836†	486.5	466.3	500.14 µg/L	500.14 ppb	15:20:16
2	Se 196.026†	425.5	412.9	519.54 µg/L	519.54 ppb	15:20:16
2	SiO2†	26060.8	24721.3	5394.8 µg/L	5394.8 ppb	15:19:56
2	Si 251.611†	31223.2	30911.4	2526.9 µg/L	2526.9 ppb	15:19:56
2	Sn 189.927†	1097.9	1095.2	515.07 µg/L	515.07 ppb	15:20:16
2	Ti 334.940†	188268.9	188591.9	502.81 µg/L	502.81 ppb	15:19:50
2	Tl 190.801†	406.1	432.4	508.33 µg/L	508.33 ppb	15:20:16
2	U 409.014†	5188.0	5045.8	493.34 µg/L	493.34 ppb	15:19:56
2	V 292.402†	39238.0	39455.6	505.82 µg/L	505.82 ppb	15:19:56
2	Zn 213.857†	19359.9	18812.0	501.76 µg/L	501.76 ppb	15:19:56
3	Sc RADIAL	108995.9	108995.9	99.8 %		15:18:45
3	Al 396.153Radial†	10032.0	10225.8	4884.6 µg/L	4884.6 ppb	15:18:45
3	Ca 317.933Radial†	15490.0	15135.6	4908.8 µg/L	4908.8 ppb	15:18:45
3	Fe 238.204 Radial†	675.0	644.9	4864.7 µg/L	4864.7 ppb	15:19:06
3	K 766.490 Radial†	9061.9	8848.1	5021.5 µg/L	5021.5 ppb	15:18:45
3	Mg 279.077 IEC†	500.9	493.1	4925.9 µg/L	4925.9 ppb	15:19:06
3	Na 589.592 Radial†	28143.1	27960.7	9681.1 µg/L	9681.1 ppb	15:18:45
3	Sr 421.552†	110395.2	110447.6	500.21 µg/L	500.21 ppb	15:18:45
3	Sc 361.383	1663036.4	1663036.4	98.833 %		15:20:23
3	Y 371.029	915218.7	915218.7	97.767 %		15:20:23
3	Ag 328.068†	53266.4	54461.2	490.28 µg/L	490.28 ppb	15:20:28
3	As 188.979†	237.1	243.7	448.64 µg/L	448.64 ppb	15:20:49
3	B 249.677†	9147.1	9096.4	480.71 µg/L	480.71 ppb	15:20:28
3	Ba 233.527†	18488.3	18724.5	483.44 µg/L	483.44 ppb	15:20:28
3	Be 313.107†	667458.4	677284.3	484.62 µg/L	484.62 ppb	15:20:23
3	Cd 226.502†	16163.5	16498.6	482.88 µg/L	482.88 ppb	15:20:28
3	Co 228.616†	9198.3	9284.6	481.10 µg/L	481.10 ppb	15:20:28
3	Cr 267.716†	18234.5	18359.6	475.06 µg/L	475.06 ppb	15:20:28
3	Cu 324.752†	68670.6	66858.3	480.18 µg/L	480.18 ppb	15:20:28
3	Mn 257.610†	129325.5	131396.6	479.10 µg/L	479.10 ppb	15:20:28
3	Mo 202.031†	3954.3	3996.6	457.00 µg/L	457.00 ppb	15:20:49
3	Ni 231.604†	7377.5	7165.9	496.41 µg/L	496.41 ppb	15:20:28
3	P 214.914†	1291.8	1065.6	2249.5 µg/L	2249.5 ppb	15:20:49
3	Pb 220.353†	1506.7	1481.7	466.64 µg/L	466.64 ppb	15:20:49
3	S 181.975 Axial†	269.2	251.7	955.43 µg/L	955.43 ppb	15:20:49
3	Sb 206.836†	443.9	428.1	458.79 µg/L	458.79 ppb	15:20:49
3	Se 196.026†	387.0	378.2	476.91 µg/L	476.91 ppb	15:20:49
3	SiO2†	25262.4	24177.5	5276.2 µg/L	5276.2 ppb	15:20:28
3	Si 251.611†	30173.4	30165.6	2465.9 µg/L	2465.9 ppb	15:20:28
3	Sn 189.927†	942.5	949.1	446.42 µg/L	446.42 ppb	15:20:49
3	Ti 334.940†	180369.7	182507.2	486.58 µg/L	486.58 ppb	15:20:23
3	Tl 190.801†	379.8	409.8	481.85 µg/L	481.85 ppb	15:20:49
3	U 409.014†	4868.8	4775.4	466.86 µg/L	466.86 ppb	15:20:28
3	V 292.402†	37104.0	37694.0	482.97 µg/L	482.97 ppb	15:20:28
3	Zn 213.857†	18469.0	18106.7	482.94 µg/L	482.94 ppb	15:20:28

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1672131.2	99.374 %	0.5049			0.51%
Sc RADIAL	109112.0	99.9 %	0.26			0.27%
Y 371.029	921065.3	98.392 %	0.5503			0.56%
Ag 328.068†	55203.4	497.02 µg/L	6.443	497.02 ppb	6.443	1.30%
QC value within limits for Ag 328.068 Recovery = 99.40%						
Al 396.153Radial†	10210.4	4876.4 µg/L	8.30	4876.4 ppb	8.30	0.17%
QC value within limits for Al 396.153Radial Recovery = 97.53%						
As 188.979†	263.6	485.22 µg/L	32.660	485.22 ppb	32.660	6.73%
QC value within limits for As 188.979 Recovery = 97.04%						
B 249.677†	9236.0	488.13 µg/L	7.058	488.13 ppb	7.058	1.45%
QC value within limits for B 249.677 Recovery = 97.63%						
Ba 233.527†	19195.9	495.62 µg/L	10.875	495.62 ppb	10.875	2.19%
QC value within limits for Ba 233.527 Recovery = 99.12%						
Be 313.107†	691368.6	494.69 µg/L	8.736	494.69 ppb	8.736	1.77%
QC value within limits for Be 313.107 Recovery = 98.94%						
Ca 317.933Radial†	15148.6	4913.1 µg/L	8.87	4913.1 ppb	8.87	0.18%
QC value within limits for Ca 317.933Radial Recovery = 98.26%						
Cd 226.502†	16880.3	494.06 µg/L	10.287	494.06 ppb	10.287	2.08%
QC value within limits for Cd 226.502 Recovery = 98.81%						
Co 228.616†	9574.0	496.13 µg/L	13.310	496.13 ppb	13.310	2.68%

QC value within limits for Co 228.616 Recovery = 99.23%							
Cr 267.716†	19066.9	493.36 µg/L	16.174	493.36 ppb	16.174	3.28%	
QC value within limits for Cr 267.716 Recovery = 98.67%							
Cu 324.752†	68971.7	495.33 µg/L	13.324	495.33 ppb	13.324	2.69%	
QC value within limits for Cu 324.752 Recovery = 99.07%							
Fe 238.204 Radial†	647.8	4886.5 µg/L	31.02	4886.5 ppb	31.02	0.63%	
QC value within limits for Fe 238.204 Radial Recovery = 97.73%							
K 766.490 Radial†	8825.4	5008.5 µg/L	33.31	5008.5 ppb	33.31	0.66%	
QC value within limits for K 766.490 Radial Recovery = 100.17%							
Mg 279.077 IEC†	493.9	4934.8 µg/L	10.50	4934.8 ppb	10.50	0.21%	
QC value within limits for Mg 279.077 IEC Recovery = 98.70%							
Mn 257.610†	135469.8	493.95 µg/L	13.061	493.95 ppb	13.061	2.64%	
QC value within limits for Mn 257.610 Recovery = 98.79%							
Mo 202.031†	4342.0	496.47 µg/L	34.253	496.47 ppb	34.253	6.90%	
QC value within limits for Mo 202.031 Recovery = 99.29%							
Na 589.592 Radial†	27911.0	9663.9 µg/L	15.06	9663.9 ppb	15.06	0.16%	
QC value within limits for Na 589.592 Radial Recovery = 96.64%							
Ni 231.604†	7379.9	511.22 µg/L	12.922	511.22 ppb	12.922	2.53%	
QC value within limits for Ni 231.604 Recovery = 102.24%							
P 214.914†	1143.6	2416.8 µg/L	145.11	2416.8 ppb	145.11	6.00%	
QC value within limits for P 214.914 Recovery = 96.67%							
Pb 220.353†	1575.0	496.10 µg/L	25.538	496.10 ppb	25.538	5.15%	
QC value within limits for Pb 220.353 Recovery = 99.22%							
S 181.975 Axial†	264.6	1004.3 µg/L	44.46	1004.3 ppb	44.46	4.43%	
QC value within limits for S 181.975 Axial Recovery = 100.43%							
Sb 206.836†	454.5	487.33 µg/L	24.761	487.33 ppb	24.761	5.08%	
QC value within limits for Sb 206.836 Recovery = 97.47%							
Se 196.026†	404.5	509.24 µg/L	28.600	509.24 ppb	28.600	5.62%	
QC value within limits for Se 196.026 Recovery = 101.85%							
SiO2†	24589.7	5366.1 µg/L	79.60	5366.1 ppb	79.60	1.48%	
QC value within limits for SiO2 Recovery = 100.35%							
Si 251.611†	30740.1	2512.9 µg/L	41.76	2512.9 ppb	41.76	1.66%	
QC value within limits for Si 251.611 Recovery = 100.52%							
Sn 189.927†	1049.8	493.71 µg/L	41.021	493.71 ppb	41.021	8.31%	
QC value within limits for Sn 189.927 Recovery = 98.74%							
Sr 421.552†	110237.7	499.26 µg/L	1.059	499.26 ppb	1.059	0.21%	
QC value within limits for Sr 421.552 Recovery = 99.85%							
Ti 334.940†	186639.4	497.60 µg/L	9.551	497.60 ppb	9.551	1.92%	
QC value within limits for Ti 334.940 Recovery = 99.52%							
Tl 190.801†	425.9	500.74 µg/L	16.471	500.74 ppb	16.471	3.29%	
QC value within limits for Tl 190.801 Recovery = 100.15%							
U 409.014†	4963.1	485.24 µg/L	15.959	485.24 ppb	15.959	3.29%	
QC value within limits for U 409.014 Recovery = 97.05%							
V 292.402†	39026.1	500.22 µg/L	15.241	500.22 ppb	15.241	3.05%	
QC value within limits for V 292.402 Recovery = 100.04%							
Zn 213.857†	18639.0	497.15 µg/L	12.554	497.15 ppb	12.554	2.53%	
QC value within limits for Zn 213.857 Recovery = 99.43%							

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 15:20:58

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	108697.4	108697.4	99.5 %		15:21:31
1	Al 396.153Radial†	-136.7	37.6	17.977 µg/L	17.977 ppb	15:21:31
1	Ca 317.933Radial†	395.2	13.5	4.3815 µg/L	4.3815 ppb	15:21:52
1	Fe 238.204 Radial†	32.6	1.4	10.762 µg/L	10.762 ppb	15:21:52
1	K 766.490 Radial†	194.3	-35.5	-20.171 µg/L	-20.171 ppb	15:21:31
1	Mg 279.077 IEC†	10.7	1.9	19.441 µg/L	19.441 ppb	15:21:52
1	Na 589.592 Radial†	199.0	-35.3	-12.235 µg/L	-12.235 ppb	15:21:31
1	Sr 421.552†	149.6	-4.7	-0.0213 µg/L	-0.0213 ppb	15:21:31
1	Sc 361.383	1675824.1	1675824.1	99.593 %		15:22:54
1	Y 371.029	925474.6	925474.6	98.863 %		15:22:54
1	Ag 328.068†	-531.8	32.0	0.2884 µg/L	0.2884 ppb	15:22:59
1	As 188.979†	-2.1	1.8	3.2296 µg/L	3.2296 ppb	15:23:20
1	B 249.677†	164.0	6.0	0.3127 µg/L	0.3127 ppb	15:23:20
1	Ba 233.527†	-19.4	-1.6	-0.0410 µg/L	-0.0410 ppb	15:23:20
1	Be 313.107†	-2056.9	-119.5	-0.0856 µg/L	-0.0856 ppb	15:22:59
1	Cd 226.502†	-140.2	3.5	0.1000 µg/L	0.1000 ppb	15:23:20
1	Co 228.616†	16.2	-6.0	-0.3092 µg/L	-0.3092 ppb	15:23:20
1	Cr 267.716†	75.0	-14.9	-0.3848 µg/L	-0.3848 ppb	15:23:20
1	Cu 324.752†	2602.3	-10.2	-0.0708 µg/L	-0.0708 ppb	15:22:59
1	Mn 257.610†	-511.2	31.0	0.1124 µg/L	0.1124 ppb	15:23:20
1	Mo 202.031†	14.5	10.2	1.1627 µg/L	1.1627 ppb	15:23:20
1	Ni 231.604†	293.8	-3.7	-0.2544 µg/L	-0.2544 ppb	15:23:20
1	P 214.914†	249.6	9.2	19.820 µg/L	19.820 ppb	15:23:20
1	Pb 220.353†	36.4	-6.3	-1.9663 µg/L	-1.9663 ppb	15:23:20
1	S 181.975 Axial†	21.0	0.4	1.4765 µg/L	1.4765 ppb	15:23:20
1	Sb 206.836†	24.5	3.5	3.8030 µg/L	3.8030 ppb	15:23:20
1	Se 196.026†	13.5	0.3	0.3672 µg/L	0.3672 ppb	15:23:20
1	SiO2†	1485.9	108.8	23.741 µg/L	23.741 ppb	15:22:59
1	Si 251.611†	443.0	80.8	6.6080 µg/L	6.6080 ppb	15:23:20
1	Sn 189.927†	7.3	2.7	1.2838 µg/L	1.2838 ppb	15:23:20
1	Ti 334.940†	70.6	79.0	0.2093 µg/L	0.2093 ppb	15:22:59
1	Tl 190.801†	-27.1	-1.6	-1.8726 µg/L	-1.8726 ppb	15:23:20
1	U 409.014†	150.6	0.4	0.0377 µg/L	0.0377 ppb	15:22:59
1	V 292.402†	-133.1	18.2	0.2397 µg/L	0.2397 ppb	15:22:59
1	Zn 213.857†	579.7	1.8	0.0475 µg/L	0.0475 ppb	15:23:20
2	Sc RADIAL	108415.5	108415.5	99.3 %		15:21:57
2	Al 396.153Radial†	-139.0	34.9	16.721 µg/L	16.721 ppb	15:21:57
2	Ca 317.933Radial†	384.5	3.7	1.2129 µg/L	1.2129 ppb	15:22:18
2	Fe 238.204 Radial†	32.7	1.6	12.386 µg/L	12.386 ppb	15:22:18
2	K 766.490 Radial†	208.2	-21.0	-11.934 µg/L	-11.934 ppb	15:21:57
2	Mg 279.077 IEC†	9.7	1.0	10.416 µg/L	10.416 ppb	15:22:18
2	Na 589.592 Radial†	251.0	17.5	6.0586 µg/L	6.0586 ppb	15:21:57
2	Sr 421.552†	132.1	-21.9	-0.0992 µg/L	-0.0992 ppb	15:21:57
2	Sc 361.383	1677010.1	1677010.1	99.664 %		15:23:26
2	Y 371.029	920088.3	920088.3	98.287 %		15:23:26
2	Ag 328.068†	-549.5	14.6	0.1320 µg/L	0.1320 ppb	15:23:31
2	As 188.979†	-4.9	-1.0	-1.8962 µg/L	-1.8962 ppb	15:23:52
2	B 249.677†	179.8	21.8	1.1468 µg/L	1.1468 ppb	15:23:52
2	Ba 233.527†	-19.3	-1.4	-0.0362 µg/L	-0.0362 ppb	15:23:52
2	Be 313.107†	-2122.5	-183.8	-0.1317 µg/L	-0.1317 ppb	15:23:31
2	Cd 226.502†	-141.5	2.2	0.0631 µg/L	0.0631 ppb	15:23:52
2	Co 228.616†	10.1	-12.2	-0.6311 µg/L	-0.6311 ppb	15:23:52
2	Cr 267.716†	76.1	-13.8	-0.3580 µg/L	-0.3580 ppb	15:23:52
2	Cu 324.752†	2592.6	-21.7	-0.1532 µg/L	-0.1532 ppb	15:23:31
2	Mn 257.610†	-521.9	20.5	0.0750 µg/L	0.0750 ppb	15:23:52
2	Mo 202.031†	6.5	2.2	0.2530 µg/L	0.2530 ppb	15:23:52
2	Ni 231.604†	284.3	-13.4	-0.9274 µg/L	-0.9274 ppb	15:23:52
2	P 214.914†	245.7	5.0	10.780 µg/L	10.780 ppb	15:23:52
2	Pb 220.353†	37.1	-5.6	-1.7568 µg/L	-1.7568 ppb	15:23:52

2	S 181.975 Axial†	20.2	-0.4	-1.6675 µg/L	-1.6675 ppb	15:23:52
2	Sb 206.836†	18.6	-2.4	-2.5042 µg/L	-2.5042 ppb	15:23:52
2	Se 196.026†	17.8	4.5	5.5719 µg/L	5.5719 ppb	15:23:52
2	SiO2†	1473.4	95.2	20.783 µg/L	20.783 ppb	15:23:31
2	Si 251.611†	478.6	116.2	9.5015 µg/L	9.5015 ppb	15:23:52
2	Sn 189.927†	3.3	-1.3	-0.6007 µg/L	-0.6007 ppb	15:23:52
2	Ti 334.940†	124.9	133.4	0.3552 µg/L	0.3552 ppb	15:23:31
2	Tl 190.801†	-25.5	-0.0	0.0021 µg/L	0.0021 ppb	15:23:52
2	U 409.014†	108.0	-42.5	-4.1621 µg/L	-4.1621 ppb	15:23:31
2	V 292.402†	-148.8	2.6	0.0305 µg/L	0.0305 ppb	15:23:31
2	Zn 213.857†	582.6	4.3	0.1186 µg/L	0.1186 ppb	15:23:52
3	Sc RADIAL	108000.0	108000.0	98.9 %		15:22:23
3	Al 396.153Radial†	-133.6	39.8	19.040 µg/L	19.040 ppb	15:22:23
3	Ca 317.933Radial†	389.3	10.0	3.2592 µg/L	3.2592 ppb	15:22:43
3	Fe 238.204 Radial†	32.2	1.3	9.8972 µg/L	9.8972 ppb	15:22:43
3	K 766.490 Radial†	179.8	-48.9	-27.762 µg/L	-27.762 ppb	15:22:23
3	Mg 279.077 IEC†	7.2	-1.5	-14.483 µg/L	-14.483 ppb	15:22:43
3	Na 589.592 Radial†	184.1	-49.1	-16.995 µg/L	-16.995 ppb	15:22:23
3	Sr 421.552†	164.1	11.0	0.0497 µg/L	0.0497 ppb	15:22:23
3	Sc 361.383	1677182.9	1677182.9	99.674 %		15:23:58
3	Y 371.029	923262.6	923262.6	98.626 %		15:23:58
3	Ag 328.068†	-538.1	26.0	0.2355 µg/L	0.2355 ppb	15:24:04
3	As 188.979†	0.1	3.9	7.2242 µg/L	7.2242 ppb	15:24:24
3	B 249.677†	158.2	0.0	-0.0029 µg/L	-0.0029 ppb	15:24:24
3	Ba 233.527†	-26.0	-8.1	-0.2089 µg/L	-0.2089 ppb	15:24:24
3	Be 313.107†	-2039.5	-100.4	-0.0720 µg/L	-0.0720 ppb	15:24:04
3	Cd 226.502†	-136.7	7.1	0.2064 µg/L	0.2064 ppb	15:24:24
3	Co 228.616†	16.1	-6.1	-0.3154 µg/L	-0.3154 ppb	15:24:24
3	Cr 267.716†	86.0	-3.9	-0.1008 µg/L	-0.1008 ppb	15:24:24
3	Cu 324.752†	2605.7	-8.8	-0.0613 µg/L	-0.0613 ppb	15:24:04
3	Mn 257.610†	-522.2	20.4	0.0758 µg/L	0.0758 ppb	15:24:24
3	Mo 202.031†	12.0	7.7	0.8781 µg/L	0.8781 ppb	15:24:24
3	Ni 231.604†	295.4	-2.3	-0.1611 µg/L	-0.1611 ppb	15:24:24
3	P 214.914†	252.2	11.5	24.837 µg/L	24.837 ppb	15:24:24
3	Pb 220.353†	32.8	-10.0	-3.1309 µg/L	-3.1309 ppb	15:24:24
3	S 181.975 Axial†	20.9	0.3	1.1432 µg/L	1.1432 ppb	15:24:24
3	Sb 206.836†	24.2	3.3	3.5297 µg/L	3.5297 ppb	15:24:24
3	Se 196.026†	17.4	4.2	5.1662 µg/L	5.1662 ppb	15:24:24
3	SiO2†	1438.2	59.7	13.032 µg/L	13.032 ppb	15:24:04
3	Si 251.611†	484.7	122.3	9.9974 µg/L	9.9974 ppb	15:24:24
3	Sn 189.927†	5.1	0.6	0.2600 µg/L	0.2600 ppb	15:24:24
3	Ti 334.940†	142.5	151.1	0.4044 µg/L	0.4044 ppb	15:24:04
3	Tl 190.801†	-29.1	-3.6	-4.1443 µg/L	-4.1443 ppb	15:24:24
3	U 409.014†	124.3	-26.2	-2.5647 µg/L	-2.5647 ppb	15:24:04
3	V 292.402†	-130.4	21.1	0.2712 µg/L	0.2712 ppb	15:24:04
3	Zn 213.857†	573.3	-5.1	-0.1368 µg/L	-0.1368 ppb	15:24:24

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1676672.4	99.644 %	0.0440			0.04%
Sc RADIAL	108370.9	99.2 %	0.32			0.32%
Y 371.029	922941.8	98.592 %	0.2892			0.29%
Ag 328.068†	24.2	0.2186 µg/L	0.07960	0.2186 ppb	0.07960	36.41%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	37.5	17.913 µg/L	1.1608	17.913 ppb	1.1608	6.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.5	2.8525 µg/L	4.57184	2.8525 ppb	4.57184	160.27%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.3	0.4855 µg/L	0.59403	0.4855 ppb	0.59403	122.34%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-3.7	-0.0954 µg/L	0.09835	-0.0954 ppb	0.09835	103.13%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-134.6	-0.0965 µg/L	0.03131	-0.0965 ppb	0.03131	32.46%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.1	2.9512 µg/L	1.60658	2.9512 ppb	1.60658	54.44%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	4.3	0.1231 µg/L	0.07439	0.1231 ppb	0.07439	60.41%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.1	-0.4186 µg/L	0.18406	-0.4186 ppb	0.18406	43.98%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-10.9 -0.2812 µg/L	0.15682 -0.2812 ppb	0.15682 55.77%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-13.6 -0.0951 µg/L	0.05051 -0.0951 ppb	0.05051 53.11%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.5 11.015 µg/L	1.2635 11.015 ppb	1.2635 11.47%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	-35.2 -19.956 µg/L	7.9163 -19.956 ppb	7.9163 39.67%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.5 5.1246 µg/L	17.56969 5.1246 ppb	17.56969 342.85%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	24.0 0.0877 µg/L	0.02135 0.0877 ppb	0.02135 24.35%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	6.7 0.7646 µg/L	0.46539 0.7646 ppb	0.46539 60.87%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-22.3 -7.7239 µg/L	12.17101 -7.7239 ppb	12.17101 157.58%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-6.5 -0.4477 µg/L	0.41806 -0.4477 ppb	0.41806 93.39%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	8.6 18.479 µg/L	7.1240 18.479 ppb	7.1240 38.55%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-7.3 -2.2847 µg/L	0.74033 -2.2847 ppb	0.74033 32.40%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.1 0.3174 µg/L	1.72707 0.3174 ppb	1.72707 544.13%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.5 1.6095 µg/L	3.56523 1.6095 ppb	3.56523 221.51%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.0 3.7018 µg/L	2.89496 3.7018 ppb	2.89496 78.20%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	87.9 19.185 µg/L	5.5302 19.185 ppb	5.5302 28.83%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	106.5 8.7023 µg/L	1.83056 8.7023 ppb	1.83056 21.04%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.7 0.3144 µg/L	0.94343 0.3144 ppb	0.94343 300.11%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.2 -0.0236 µg/L	0.07447 -0.0236 ppb	0.07447 315.50%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	121.2 0.3229 µg/L	0.10147 0.3229 ppb	0.10147 31.42%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-1.7 -2.0049 µg/L	2.07635 -2.0049 ppb	2.07635 103.56%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-22.7 -2.2297 µg/L	2.11983 -2.2297 ppb	2.11983 95.07%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	14.0 0.1805 µg/L	0.13083 0.1805 ppb	0.13083 72.48%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	0.3 0.0097 µg/L	0.13181 0.0097 ppb	0.13181 >999.9%
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: 2/26/2010 16:04:30

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	108124.6	108124.6	99.0 %		16:05:09
1	Al 396.153Radial†	10131.8	10407.6	4970.2 µg/L	4970.2 ppb	16:05:09
1	Ca 317.933Radial†	15614.4	15386.2	4990.1 µg/L	4990.1 ppb	16:05:09
1	Fe 238.204 Radial†	675.2	650.7	4908.6 µg/L	4908.6 ppb	16:05:29
1	K 766.490 Radial†	9155.2	9015.5	5116.5 µg/L	5116.5 ppb	16:05:09
1	Mg 279.077 IEC†	499.6	495.8	4954.1 µg/L	4954.1 ppb	16:05:29
1	Na 589.592 Radial†	28705.0	28755.4	9956.3 µg/L	9956.3 ppb	16:05:09
1	Sr 421.552†	111583.3	112538.7	509.68 µg/L	509.68 ppb	16:05:09
1	Sc 361.383	1658940.8	1658940.8	98.590 %		16:06:33
1	Y 371.029	910131.1	910131.1	97.224 %		16:06:33
1	Ag 328.068†	55187.3	56542.6	509.09 µg/L	509.09 ppb	16:06:38
1	As 188.979†	265.2	272.9	502.29 µg/L	502.29 ppb	16:06:59
1	B 249.677†	9519.0	9496.5	501.97 µg/L	501.97 ppb	16:06:38
1	Ba 233.527†	19368.2	19663.1	507.69 µg/L	507.69 ppb	16:06:38
1	Be 313.107†	689965.3	701780.3	502.14 µg/L	502.14 ppb	16:06:33
1	Cd 226.502†	16994.8	17382.1	508.77 µg/L	508.77 ppb	16:06:38
1	Co 228.616†	9780.2	9897.9	512.94 µg/L	512.94 ppb	16:06:38
1	Cr 267.716†	19584.9	19774.9	511.68 µg/L	511.68 ppb	16:06:38
1	Cu 324.752†	72837.9	71256.7	511.72 µg/L	511.72 ppb	16:06:38
1	Mn 257.610†	137226.4	139733.5	509.50 µg/L	509.50 ppb	16:06:33
1	Mo 202.031†	4503.5	4563.6	521.80 µg/L	521.80 ppb	16:06:59
1	Ni 231.604†	7797.6	7610.5	527.19 µg/L	527.19 ppb	16:06:38
1	P 214.914†	1414.9	1193.6	2523.1 µg/L	2523.1 ppb	16:06:59
1	Pb 220.353†	1644.8	1625.5	512.02 µg/L	512.02 ppb	16:06:59
1	S 181.975 Axial†	286.3	269.7	1023.5 µg/L	1023.5 ppb	16:06:59
1	Sb 206.836†	489.9	475.8	510.33 µg/L	510.33 ppb	16:06:59
1	Se 196.026†	431.7	424.6	534.02 µg/L	534.02 ppb	16:06:59
1	SiO2†	25888.6	24875.7	5428.6 µg/L	5428.6 ppb	16:06:38
1	Si 251.611†	31022.1	31101.9	2542.5 µg/L	2542.5 ppb	16:06:38
1	Sn 189.927†	1090.4	1101.5	518.02 µg/L	518.02 ppb	16:06:59
1	Ti 334.940†	187112.7	189797.3	506.02 µg/L	506.02 ppb	16:06:33
1	Tl 190.801†	407.5	438.9	515.97 µg/L	515.97 ppb	16:06:59
1	U 409.014†	5246.2	5170.4	505.54 µg/L	505.54 ppb	16:06:38
1	V 292.402†	39538.0	40255.5	516.06 µg/L	516.06 ppb	16:06:38
1	Zn 213.857†	19483.4	19181.8	511.63 µg/L	511.63 ppb	16:06:38
2	Sc RADIAL	107768.1	107768.1	98.7 %		16:05:35
2	Al 396.153Radial†	10079.3	10388.2	4961.0 µg/L	4961.0 ppb	16:05:35
2	Ca 317.933Radial†	15512.4	15335.0	4973.5 µg/L	4973.5 ppb	16:05:35
2	Fe 238.204 Radial†	673.2	650.8	4909.8 µg/L	4909.8 ppb	16:05:55
2	K 766.490 Radial†	9075.4	8965.3	5088.0 µg/L	5088.0 ppb	16:05:35
2	Mg 279.077 IEC†	506.9	504.9	5044.6 µg/L	5044.6 ppb	16:05:55
2	Na 589.592 Radial†	28422.1	28564.6	9890.2 µg/L	9890.2 ppb	16:05:35
2	Sr 421.552†	110681.3	111997.6	507.23 µg/L	507.23 ppb	16:05:35
2	Sc 361.383	1654297.5	1654297.5	98.314 %		16:07:06
2	Y 371.029	908855.7	908855.7	97.087 %		16:07:06
2	Ag 328.068†	54538.4	56039.7	504.58 µg/L	504.58 ppb	16:07:12
2	As 188.979†	264.6	273.0	502.47 µg/L	502.47 ppb	16:07:32
2	B 249.677†	9400.5	9403.1	497.00 µg/L	497.00 ppb	16:07:12
2	Ba 233.527†	19189.2	19536.3	504.42 µg/L	504.42 ppb	16:07:12
2	Be 313.107†	686348.1	700065.4	500.92 µg/L	500.92 ppb	16:07:06
2	Cd 226.502†	16713.2	17144.1	501.80 µg/L	501.80 ppb	16:07:12
2	Co 228.616†	9633.4	9776.4	506.63 µg/L	506.63 ppb	16:07:12
2	Cr 267.716†	19344.8	19586.4	506.80 µg/L	506.80 ppb	16:07:12
2	Cu 324.752†	72181.5	70796.5	508.42 µg/L	508.42 ppb	16:07:12
2	Mn 257.610†	136368.3	139251.4	507.74 µg/L	507.74 ppb	16:07:06
2	Mo 202.031†	4450.8	4522.8	517.14 µg/L	517.14 ppb	16:07:32
2	Ni 231.604†	7735.6	7569.6	524.37 µg/L	524.37 ppb	16:07:12
2	P 214.914†	1405.6	1188.2	2511.8 µg/L	2511.8 ppb	16:07:32
2	Pb 220.353†	1645.1	1630.4	513.57 µg/L	513.57 ppb	16:07:32

2	S 181.975 Axial†	285.1	269.3	1021.9 µg/L	1021.9 ppb	16:07:32
2	Sb 206.836†	482.8	470.1	504.13 µg/L	504.13 ppb	16:07:32
2	Se 196.026†	424.4	418.3	526.26 µg/L	526.26 ppb	16:07:32
2	SiO2†	25646.7	24703.4	5390.9 µg/L	5390.9 ppb	16:07:12
2	Si 251.611†	30808.2	30972.6	2531.9 µg/L	2531.9 ppb	16:07:12
2	Sn 189.927†	1084.4	1098.4	516.60 µg/L	516.60 ppb	16:07:32
2	Ti 334.940†	186050.5	189249.5	504.56 µg/L	504.56 ppb	16:07:06
2	Tl 190.801†	404.2	436.8	513.42 µg/L	513.42 ppb	16:07:32
2	U 409.014†	5136.5	5073.8	496.08 µg/L	496.08 ppb	16:07:12
2	V 292.402†	39224.1	40048.7	513.38 µg/L	513.38 ppb	16:07:12
2	Zn 213.857†	19302.5	19053.3	508.19 µg/L	508.19 ppb	16:07:12
3	Sc RADIAL	108255.0	108255.0	99.1 %		16:06:01
3	Al 396.153Radial†	10083.8	10346.8	4942.7 µg/L	4942.7 ppb	16:06:01
3	Ca 317.933Radial†	15519.5	15271.5	4952.9 µg/L	4952.9 ppb	16:06:01
3	Fe 238.204 Radial†	668.4	642.9	4849.5 µg/L	4849.5 ppb	16:06:21
3	K 766.490 Radial†	9040.9	8889.1	5044.7 µg/L	5044.7 ppb	16:06:01
3	Mg 279.077 IEC†	502.6	498.2	4976.6 µg/L	4976.6 ppb	16:06:21
3	Na 589.592 Radial†	28445.4	28458.6	9853.5 µg/L	9853.5 ppb	16:06:01
3	Sr 421.552†	110868.7	111682.1	505.80 µg/L	505.80 ppb	16:06:01
3	Sc 361.383	1678412.8	1678412.8	99.747 %		16:07:39
3	Y 371.029	920413.1	920413.1	98.322 %		16:07:39
3	Ag 328.068†	52805.5	53505.4	481.69 µg/L	481.69 ppb	16:07:45
3	As 188.979†	236.5	240.9	443.46 µg/L	443.46 ppb	16:08:05
3	B 249.677†	9116.1	8980.6	474.55 µg/L	474.55 ppb	16:07:45
3	Ba 233.527†	18285.6	18349.9	473.77 µg/L	473.77 ppb	16:07:45
3	Be 313.107†	668606.5	672248.3	481.01 µg/L	481.01 ppb	16:07:39
3	Cd 226.502†	15950.5	16135.2	472.24 µg/L	472.24 ppb	16:07:45
3	Co 228.616†	9165.4	9166.4	474.96 µg/L	474.96 ppb	16:07:45
3	Cr 267.716†	17923.7	17879.0	462.63 µg/L	462.63 ppb	16:07:45
3	Cu 324.752†	68381.3	65931.7	473.54 µg/L	473.54 ppb	16:07:45
3	Mn 257.610†	133368.9	134251.4	489.51 µg/L	489.51 ppb	16:07:39
3	Mo 202.031†	3885.3	3890.8	444.90 µg/L	444.90 ppb	16:08:05
3	Ni 231.604†	7344.6	7064.6	489.39 µg/L	489.39 ppb	16:07:45
3	P 214.914†	1273.2	1035.0	2184.1 µg/L	2184.1 ppb	16:08:05
3	Pb 220.353†	1486.5	1447.4	455.83 µg/L	455.83 ppb	16:08:05
3	S 181.975 Axial†	261.6	241.6	916.94 µg/L	916.94 ppb	16:08:05
3	Sb 206.836†	432.5	412.6	442.15 µg/L	442.15 ppb	16:08:05
3	Se 196.026†	381.1	368.8	465.24 µg/L	465.24 ppb	16:08:05
3	SiO2†	24767.2	23446.9	5116.7 µg/L	5116.7 ppb	16:07:45
3	Si 251.611†	29597.1	29308.2	2395.8 µg/L	2395.8 ppb	16:07:45
3	Sn 189.927†	927.4	925.2	435.18 µg/L	435.18 ppb	16:08:05
3	Ti 334.940†	180505.5	180971.5	482.48 µg/L	482.48 ppb	16:07:39
3	Tl 190.801†	369.9	396.4	466.28 µg/L	466.28 ppb	16:08:05
3	U 409.014†	4902.6	4764.2	465.75 µg/L	465.75 ppb	16:07:45
3	V 292.402†	36859.2	37104.6	475.38 µg/L	475.38 ppb	16:07:45
3	Zn 213.857†	18349.1	17815.3	475.15 µg/L	475.15 ppb	16:07:45

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1663883.7	98.884 %	0.7604			0.77%
Sc RADIAL	108049.2	98.9 %	0.23			0.23%
Y 371.029	913133.3	97.544 %	0.6769			0.69%
Ag 328.068†	55362.5	498.45 µg/L	14.693	498.45 ppb	14.693	2.95%
QC value within limits for Ag 328.068 Recovery = 99.69%						
Al 396.153Radial†	10380.8	4958.0 µg/L	14.00	4958.0 ppb	14.00	0.28%
QC value within limits for Al 396.153Radial Recovery = 99.16%						
As 188.979†	262.3	482.74 µg/L	34.021	482.74 ppb	34.021	7.05%
QC value within limits for As 188.979 Recovery = 96.55%						
B 249.677†	9293.4	491.18 µg/L	14.608	491.18 ppb	14.608	2.97%
QC value within limits for B 249.677 Recovery = 98.24%						
Ba 233.527†	19183.1	495.29 µg/L	18.708	495.29 ppb	18.708	3.78%
QC value within limits for Ba 233.527 Recovery = 99.06%						
Be 313.107†	691364.7	494.69 µg/L	11.861	494.69 ppb	11.861	2.40%
QC value within limits for Be 313.107 Recovery = 98.94%						
Ca 317.933Radial†	15330.9	4972.2 µg/L	18.64	4972.2 ppb	18.64	0.37%
QC value within limits for Ca 317.933Radial Recovery = 99.44%						
Cd 226.502†	16887.1	494.27 µg/L	19.394	494.27 ppb	19.394	3.92%
QC value within limits for Cd 226.502 Recovery = 98.85%						
Co 228.616†	9613.5	498.18 µg/L	20.349	498.18 ppb	20.349	4.08%

QC value within limits for Co 228.616 Recovery = 99.64%							
Cr 267.716†	19080.1	493.70 µg/L	27.022	493.70 ppb	27.022	5.47%	
QC value within limits for Cr 267.716 Recovery = 98.74%							
Cu 324.752†	69328.3	497.89 µg/L	21.157	497.89 ppb	21.157	4.25%	
QC value within limits for Cu 324.752 Recovery = 99.58%							
Fe 238.204 Radial†	648.1	4889.3 µg/L	34.49	4889.3 ppb	34.49	0.71%	
QC value within limits for Fe 238.204 Radial Recovery = 97.79%							
K 766.490 Radial†	8956.7	5083.1 µg/L	36.12	5083.1 ppb	36.12	0.71%	
QC value within limits for K 766.490 Radial Recovery = 101.66%							
Mg 279.077 IEC†	499.6	4991.8 µg/L	47.10	4991.8 ppb	47.10	0.94%	
QC value within limits for Mg 279.077 IEC Recovery = 99.84%							
Mn 257.610†	137745.5	502.25 µg/L	11.071	502.25 ppb	11.071	2.20%	
QC value within limits for Mn 257.610 Recovery = 100.45%							
Mo 202.031†	4325.8	494.61 µg/L	43.116	494.61 ppb	43.116	8.72%	
QC value within limits for Mo 202.031 Recovery = 98.92%							
Na 589.592 Radial†	28592.8	9900.0 µg/L	52.08	9900.0 ppb	52.08	0.53%	
QC value within limits for Na 589.592 Radial Recovery = 99.00%							
Ni 231.604†	7414.9	513.65 µg/L	21.060	513.65 ppb	21.060	4.10%	
QC value within limits for Ni 231.604 Recovery = 102.73%							
P 214.914†	1138.9	2406.4 µg/L	192.54	2406.4 ppb	192.54	8.00%	
QC value within limits for P 214.914 Recovery = 96.25%							
Pb 220.353†	1567.8	493.81 µg/L	32.901	493.81 ppb	32.901	6.66%	
QC value within limits for Pb 220.353 Recovery = 98.76%							
S 181.975 Axial†	260.2	987.47 µg/L	61.085	987.47 ppb	61.085	6.19%	
QC value within limits for S 181.975 Axial Recovery = 98.75%							
Sb 206.836†	452.8	485.53 µg/L	37.703	485.53 ppb	37.703	7.77%	
QC value within limits for Sb 206.836 Recovery = 97.11%							
Se 196.026†	403.9	508.51 µg/L	37.670	508.51 ppb	37.670	7.41%	
QC value within limits for Se 196.026 Recovery = 101.70%							
SiO2†	24342.0	5312.1 µg/L	170.21	5312.1 ppb	170.21	3.20%	
QC value within limits for SiO2 Recovery = 99.34%							
Si 251.611†	30460.9	2490.1 µg/L	81.78	2490.1 ppb	81.78	3.28%	
QC value within limits for Si 251.611 Recovery = 99.60%							
Sn 189.927†	1041.7	489.93 µg/L	47.423	489.93 ppb	47.423	9.68%	
QC value within limits for Sn 189.927 Recovery = 97.99%							
Sr 421.552†	112072.8	507.57 µg/L	1.962	507.57 ppb	1.962	0.39%	
QC value within limits for Sr 421.552 Recovery = 101.51%							
Ti 334.940†	186672.8	497.69 µg/L	13.192	497.69 ppb	13.192	2.65%	
QC value within limits for Ti 334.940 Recovery = 99.54%							
Tl 190.801†	424.0	498.56 µg/L	27.983	498.56 ppb	27.983	5.61%	
QC value within limits for Tl 190.801 Recovery = 99.71%							
U 409.014†	5002.8	489.12 µg/L	20.784	489.12 ppb	20.784	4.25%	
QC value within limits for U 409.014 Recovery = 97.82%							
V 292.402†	39136.3	501.61 µg/L	22.753	501.61 ppb	22.753	4.54%	
QC value within limits for V 292.402 Recovery = 100.32%							
Zn 213.857†	18683.5	498.32 µg/L	20.142	498.32 ppb	20.142	4.04%	
QC value within limits for Zn 213.857 Recovery = 99.66%							
All analyte(s) passed QC.							

Sequence No.: 4

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 2/26/2010 16:08:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	107221.7	107221.7	98.2 %			16:08:50
1	Al 396.153Radial†	239.9	419.3	200.44 µg/L		200.44 ppb	16:08:50
1	Ca 317.933Radial†	957.8	591.9	191.98 µg/L		191.98 ppb	16:09:10
1	Fe 238.204 Radial†	42.1	11.6	87.179 µg/L		87.179 ppb	16:09:10
1	K 766.490 Radial†	482.0	260.2	147.66 µg/L		147.66 ppb	16:08:50
1	Mg 279.077 IEC†	38.6	30.5	304.84 µg/L		304.84 ppb	16:09:10
1	Na 589.592 Radial†	1269.8	1057.9	366.30 µg/L		366.30 ppb	16:08:50
1	Sr 421.552†	1270.8	1139.2	5.1596 µg/L		5.1596 ppb	16:08:50
1	Sc 361.383	1669290.6	1669290.6	99.205 %			16:10:12
1	Y 371.029	918795.5	918795.5	98.149 %			16:10:12
1	Ag 328.068†	10.9	576.9	5.1990 µg/L		5.1990 ppb	16:10:18
1	As 188.979†	10.9	14.9	27.430 µg/L		27.430 ppb	16:10:38
1	B 249.677†	1094.3	944.5	50.057 µg/L		50.057 ppb	16:10:18
1	Ba 233.527†	166.9	186.2	4.8075 µg/L		4.8075 ppb	16:10:38
1	Be 313.107†	4625.5	6608.4	4.7284 µg/L		4.7284 ppb	16:10:18
1	Cd 226.502†	32.8	177.3	5.1826 µg/L		5.1826 ppb	16:10:38
1	Co 228.616†	103.8	82.4	4.2757 µg/L		4.2757 ppb	16:10:38
1	Cr 267.716†	264.9	176.9	4.5775 µg/L		4.5775 ppb	16:10:38
1	Cu 324.752†	4046.3	1455.7	10.452 µg/L		10.452 ppb	16:10:18
1	Mn 257.610†	2209.3	2771.2	10.090 µg/L		10.090 ppb	16:10:18
1	Mo 202.031†	98.1	94.5	10.804 µg/L		10.804 ppb	16:10:38
1	Ni 231.604†	353.9	58.0	4.0212 µg/L		4.0212 ppb	16:10:38
1	P 214.914†	317.2	78.3	167.79 µg/L		167.79 ppb	16:10:38
1	Pb 220.353†	77.6	35.4	11.098 µg/L		11.098 ppb	16:10:38
1	S 181.975 Axial†	43.9	23.6	89.486 µg/L		89.486 ppb	16:10:38
1	Sb 206.836†	33.7	13.0	13.964 µg/L		13.964 ppb	16:10:38
1	Se 196.026†	41.9	29.0	35.638 µg/L		35.638 ppb	16:10:38
1	SiO2†	2285.3	920.4	200.86 µg/L		200.86 ppb	16:10:18
1	Si 251.611†	1515.0	1163.1	95.079 µg/L		95.079 ppb	16:10:38
1	Sn 189.927†	29.8	25.5	12.004 µg/L		12.004 ppb	16:10:38
1	Ti 334.940†	1886.2	1909.4	5.0729 µg/L		5.0729 ppb	16:10:18
1	Tl 190.801†	-10.6	14.9	17.490 µg/L		17.490 ppb	16:10:38
1	U 409.014†	672.1	526.6	51.566 µg/L		51.566 ppb	16:10:18
1	V 292.402†	254.9	408.8	5.3317 µg/L		5.3317 ppb	16:10:18
1	Zn 213.857†	909.4	336.4	8.9799 µg/L		8.9799 ppb	16:10:38
2	Sc RADIAL	107068.2	107068.2	98.0 %			16:09:16
2	Al 396.153Radial†	251.5	431.4	206.24 µg/L		206.24 ppb	16:09:16
2	Ca 317.933Radial†	958.6	594.1	192.69 µg/L		192.69 ppb	16:09:36
2	Fe 238.204 Radial†	43.9	13.5	101.88 µg/L		101.88 ppb	16:09:36
2	K 766.490 Radial†	588.2	369.1	209.49 µg/L		209.49 ppb	16:09:16
2	Mg 279.077 IEC†	37.5	29.5	294.66 µg/L		294.66 ppb	16:09:36
2	Na 589.592 Radial†	1274.5	1064.7	368.63 µg/L		368.63 ppb	16:09:16
2	Sr 421.552†	1242.6	1112.4	5.0378 µg/L		5.0378 ppb	16:09:16
2	Sc 361.383	1668139.2	1668139.2	99.136 %			16:10:44
2	Y 371.029	916882.2	916882.2	97.945 %			16:10:44
2	Ag 328.068†	16.9	582.9	5.2542 µg/L		5.2542 ppb	16:10:50
2	As 188.979†	9.6	13.5	24.941 µg/L		24.941 ppb	16:11:10
2	B 249.677†	1086.9	937.7	49.694 µg/L		49.694 ppb	16:10:50
2	Ba 233.527†	168.7	188.1	4.8575 µg/L		4.8575 ppb	16:11:10
2	Be 313.107†	4749.1	6736.3	4.8199 µg/L		4.8199 ppb	16:10:50
2	Cd 226.502†	33.3	177.8	5.1982 µg/L		5.1982 ppb	16:11:10
2	Co 228.616†	108.6	87.3	4.5292 µg/L		4.5292 ppb	16:11:10
2	Cr 267.716†	278.9	191.2	4.9474 µg/L		4.9474 ppb	16:11:10
2	Cu 324.752†	4067.3	1479.6	10.626 µg/L		10.626 ppb	16:10:50
2	Mn 257.610†	2187.4	2750.7	10.017 µg/L		10.017 ppb	16:10:50
2	Mo 202.031†	93.4	89.8	10.273 µg/L		10.273 ppb	16:11:10
2	Ni 231.604†	367.8	72.4	5.0154 µg/L		5.0154 ppb	16:11:10
2	P 214.914†	312.0	73.2	156.83 µg/L		156.83 ppb	16:11:10
2	Pb 220.353†	81.6	39.4	12.367 µg/L		12.367 ppb	16:11:10

2	S 181.975 Axial†	45.1	24.8	94.239 µg/L	94.239 ppb	16:11:10
2	Sb 206.836†	32.9	12.2	13.101 µg/L	13.101 ppb	16:11:10
2	Se 196.026†	34.5	21.5	26.508 µg/L	26.508 ppb	16:11:10
2	SiO2†	2328.2	965.3	210.66 µg/L	210.66 ppb	16:10:50
2	Si 251.611†	1517.0	1166.2	95.332 µg/L	95.332 ppb	16:11:10
2	Sn 189.927†	29.0	24.7	11.657 µg/L	11.657 ppb	16:11:10
2	Ti 334.940†	1896.5	1921.2	5.1051 µg/L	5.1051 ppb	16:10:50
2	Tl 190.801†	-10.5	15.0	17.603 µg/L	17.603 ppb	16:11:10
2	U 409.014†	812.4	668.6	65.476 µg/L	65.476 ppb	16:10:50
2	V 292.402†	251.3	405.4	5.3006 µg/L	5.3006 ppb	16:10:50
2	Zn 213.857†	907.7	335.4	8.9481 µg/L	8.9481 ppb	16:11:10
3	Sc RADIAL	107156.0	107156.0	98.1 %		16:09:42
3	Al 396.153Radial†	243.3	422.8	202.16 µg/L	202.16 ppb	16:09:42
3	Ca 317.933Radial†	952.6	587.2	190.46 µg/L	190.46 ppb	16:10:02
3	Fe 238.204 Radial†	42.5	12.0	90.239 µg/L	90.239 ppb	16:10:02
3	K 766.490 Radial†	525.3	304.6	172.88 µg/L	172.88 ppb	16:09:42
3	Mg 279.077 IEC†	39.8	31.8	317.80 µg/L	317.80 ppb	16:10:02
3	Na 589.592 Radial†	1253.4	1042.1	360.81 µg/L	360.81 ppb	16:09:42
3	Sr 421.552†	1250.4	1119.3	5.0691 µg/L	5.0691 ppb	16:09:42
3	Sc 361.383	1657178.0	1657178.0	98.485 %		16:11:16
3	Y 371.029	912125.7	912125.7	97.437 %		16:11:16
3	Ag 328.068†	16.3	582.4	5.2472 µg/L	5.2472 ppb	16:11:22
3	As 188.979†	9.6	13.6	25.116 µg/L	25.116 ppb	16:11:42
3	B 249.677†	1018.5	875.6	46.401 µg/L	46.401 ppb	16:11:22
3	Ba 233.527†	156.2	176.5	4.5582 µg/L	4.5582 ppb	16:11:42
3	Be 313.107†	4679.0	6696.8	4.7916 µg/L	4.7916 ppb	16:11:22
3	Cd 226.502†	14.6	159.1	4.6504 µg/L	4.6504 ppb	16:11:42
3	Co 228.616†	101.5	80.8	4.1893 µg/L	4.1893 ppb	16:11:42
3	Cr 267.716†	242.5	156.0	4.0382 µg/L	4.0382 ppb	16:11:42
3	Cu 324.752†	3961.4	1399.3	10.048 µg/L	10.048 ppb	16:11:22
3	Mn 257.610†	2141.4	2718.6	9.8974 µg/L	9.8974 ppb	16:11:22
3	Mo 202.031†	90.3	87.3	9.9849 µg/L	9.9849 ppb	16:11:42
3	Ni 231.604†	360.0	66.9	4.6373 µg/L	4.6373 ppb	16:11:42
3	P 214.914†	300.6	63.7	136.32 µg/L	136.32 ppb	16:11:42
3	Pb 220.353†	80.2	38.6	12.110 µg/L	12.110 ppb	16:11:42
3	S 181.975 Axial†	44.8	24.8	94.016 µg/L	94.016 ppb	16:11:42
3	Sb 206.836†	32.1	11.5	12.436 µg/L	12.436 ppb	16:11:42
3	Se 196.026†	40.9	28.3	34.789 µg/L	34.789 ppb	16:11:42
3	SiO2†	2316.6	969.0	211.47 µg/L	211.47 ppb	16:11:22
3	Si 251.611†	1440.8	1098.9	89.834 µg/L	89.834 ppb	16:11:42
3	Sn 189.927†	20.2	15.9	7.5156 µg/L	7.5156 ppb	16:11:42
3	Ti 334.940†	1877.6	1914.6	5.0858 µg/L	5.0858 ppb	16:11:22
3	Tl 190.801†	-7.6	17.8	20.886 µg/L	20.886 ppb	16:11:42
3	U 409.014†	677.9	537.5	52.628 µg/L	52.628 ppb	16:11:22
3	V 292.402†	236.4	392.0	5.1118 µg/L	5.1118 ppb	16:11:22
3	Zn 213.857†	873.9	307.1	8.1899 µg/L	8.1899 ppb	16:11:42

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Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1664869.3	98.942 %	0.3973			0.40%
Sc RADIAL	107148.6	98.1 %	0.07			0.07%
Y 371.029	915934.5	97.844 %	0.3669			0.37%
Ag 328.068†	580.8	5.2335 µg/L	0.03006	5.2335 ppb	0.03006	0.57%
QC value within limits for Ag 328.068 Recovery = 104.67%						
Al 396.153Radial†	424.5	202.95 µg/L	2.977	202.95 ppb	2.977	1.47%
QC value within limits for Al 396.153Radial Recovery = 101.47%						
As 188.979†	14.0	25.829 µg/L	1.3892	25.829 ppb	1.3892	5.38%
QC value within limits for As 188.979 Recovery = 86.10%						
B 249.677†	919.3	48.717 µg/L	2.0143	48.717 ppb	2.0143	4.13%
QC value within limits for B 249.677 Recovery = 97.43%						
Ba 233.527†	183.6	4.7410 µg/L	0.16034	4.7410 ppb	0.16034	3.38%
QC value within limits for Ba 233.527 Recovery = 94.82%						
Be 313.107†	6680.5	4.7800 µg/L	0.04687	4.7800 ppb	0.04687	0.98%
QC value within limits for Be 313.107 Recovery = 95.60%						
Ca 317.933Radial†	591.1	191.71 µg/L	1.141	191.71 ppb	1.141	0.60%
QC value within limits for Ca 317.933Radial Recovery = 95.86%						
Cd 226.502†	171.4	5.0104 µg/L	0.31185	5.0104 ppb	0.31185	6.22%
QC value within limits for Cd 226.502 Recovery = 100.21%						
Co 228.616†	83.5	4.3314 µg/L	0.17668	4.3314 ppb	0.17668	4.08%

QC value within limits for Co 228.616	Recovery = 86.63%				
Cr 267.716†	174.7	4.5210 µg/L	0.45722	4.5210 ppb	0.45722 10.11%
QC value within limits for Cr 267.716	Recovery = 90.42%				
Cu 324.752†	1444.9	10.375 µg/L	0.2964	10.375 ppb	0.2964 2.86%
QC value within limits for Cu 324.752	Recovery = 103.75%				
Fe 238.204 Radial†	12.4	93.099 µg/L	7.7548	93.099 ppb	7.7548 8.33%
QC value within limits for Fe 238.204 Radial	Recovery = 93.10%				
K 766.490 Radial†	311.3	176.67 µg/L	31.091	176.67 ppb	31.091 17.60%
QC value within limits for K 766.490 Radial	Recovery = 117.78%				
Mg 279.077 IEC†	30.6	305.77 µg/L	11.598	305.77 ppb	11.598 3.79%
QC value within limits for Mg 279.077 IEC	Recovery = 101.92%				
Mn 257.610†	2746.8	10.001 µg/L	0.0972	10.001 ppb	0.0972 0.97%
QC value within limits for Mn 257.610	Recovery = 100.01%				
Mo 202.031†	90.6	10.354 µg/L	0.4158	10.354 ppb	0.4158 4.02%
QC value within limits for Mo 202.031	Recovery = 103.54%				
Na 589.592 Radial†	1054.9	365.25 µg/L	4.013	365.25 ppb	4.013 1.10%
QC value within limits for Na 589.592 Radial	Recovery = 121.75%				
Ni 231.604†	65.8	4.5580 µg/L	0.50180	4.5580 ppb	0.50180 11.01%
QC value within limits for Ni 231.604	Recovery = 91.16%				
P 214.914†	71.8	153.65 µg/L	15.978	153.65 ppb	15.978 10.40%
QC value within limits for P 214.914	Recovery = 102.43%				
Pb 220.353†	37.8	11.859 µg/L	0.6706	11.859 ppb	0.6706 5.66%
QC value within limits for Pb 220.353	Recovery = 118.59%				
S 181.975 Axial†	24.4	92.580 µg/L	2.6820	92.580 ppb	2.6820 2.90%
QC value within limits for S 181.975 Axial	Recovery = 92.58%				
Sb 206.836†	12.2	13.167 µg/L	0.7662	13.167 ppb	0.7662 5.82%
QC value greater than the upper limit for Sb 206.836	Recovery = 131.67%				
Se 196.026†	26.2	32.312 µg/L	5.0438	32.312 ppb	5.0438 15.61%
QC value within limits for Se 196.026	Recovery = 107.71%				
Sio2†	951.6	207.66 µg/L	5.908	207.66 ppb	5.908 2.84%
QC value within limits for SiO2	Recovery = 97.49%				
Si 251.611†	1142.7	93.415 µg/L	3.1037	93.415 ppb	3.1037 3.32%
QC value within limits for Si 251.611	Recovery = 93.42%				
Sn 189.927†	22.0	10.392 µg/L	2.4972	10.392 ppb	2.4972 24.03%
QC value within limits for Sn 189.927	Recovery = 103.92%				
Sr 421.552†	1123.6	5.0888 µg/L	0.06324	5.0888 ppb	0.06324 1.24%
QC value within limits for Sr 421.552	Recovery = 101.78%				
Ti 334.940†	1915.1	5.0879 µg/L	0.01620	5.0879 ppb	0.01620 0.32%
QC value within limits for Ti 334.940	Recovery = 101.76%				
Tl 190.801†	15.9	18.660 µg/L	1.9287	18.660 ppb	1.9287 10.34%
QC value within limits for Tl 190.801	Recovery = 93.30%				
U 409.014†	577.6	56.557 µg/L	7.7427	56.557 ppb	7.7427 13.69%
QC value within limits for U 409.014	Recovery = 113.11%				
V 292.402†	402.1	5.2480 µg/L	0.11899	5.2480 ppb	0.11899 2.27%
QC value within limits for V 292.402	Recovery = 104.96%				
Zn 213.857†	326.3	8.7060 µg/L	0.44723	8.7060 ppb	0.44723 5.14%
QC value within limits for Zn 213.857	Recovery = 87.06%				

QC Failed. Continue with analysis.

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 16:11:52

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	105693.1	105693.1	96.8 %		16:12:26
1	Al 396.153Radial†	-159.4	10.3	4.9174 µg/L	4.9174 ppb	16:12:26
1	Ca 317.933Radial†	387.0	16.3	5.2816 µg/L	5.2816 ppb	16:12:46
1	Fe 238.204 Radial†	28.4	-2.0	-14.899 µg/L	-14.899 ppb	16:12:46
1	K 766.490 Radial†	291.9	70.9	40.218 µg/L	40.218 ppb	16:12:26
1	Mg 279.077 IEC†	9.4	1.0	9.5292 µg/L	9.5292 ppb	16:12:46
1	Na 589.592 Radial†	392.8	170.6	59.057 µg/L	59.057 ppb	16:12:26
1	Sr 421.552†	151.9	1.9	0.0087 µg/L	0.0087 ppb	16:12:26
1	Sc 361.383	1645865.3	1645865.3	97.813 %		16:13:48
1	Y 371.029	904534.7	904534.7	96.626 %		16:13:48
1	Ag 328.068†	-534.4	19.5	0.1729 µg/L	0.1729 ppb	16:13:54
1	As 188.979†	-3.6	0.2	0.3389 µg/L	0.3389 ppb	16:14:15
1	B 249.677†	154.6	-0.6	-0.0260 µg/L	-0.0260 ppb	16:14:15
1	Ba 233.527†	-21.4	-4.0	-0.1018 µg/L	-0.1018 ppb	16:14:15
1	Be 313.107†	-2041.7	-141.6	-0.1014 µg/L	-0.1014 ppb	16:13:54
1	Cd 226.502†	-137.7	3.4	0.1018 µg/L	0.1018 ppb	16:14:15
1	Co 228.616†	15.6	-6.3	-0.3265 µg/L	-0.3265 ppb	16:14:15
1	Cr 267.716†	70.5	-18.1	-0.4683 µg/L	-0.4683 ppb	16:14:15
1	Cu 324.752†	2596.0	31.0	0.2192 µg/L	0.2192 ppb	16:13:54
1	Mn 257.610†	-532.0	0.4	-0.0001 µg/L	-0.0001 ppb	16:14:15
1	Mo 202.031†	2.3	-2.0	-0.2325 µg/L	-0.2325 ppb	16:14:15
1	Ni 231.604†	298.0	6.0	0.4174 µg/L	0.4174 ppb	16:14:15
1	P 214.914†	245.6	9.6	20.630 µg/L	20.630 ppb	16:14:15
1	Pb 220.353†	49.3	7.6	2.3868 µg/L	2.3868 ppb	16:14:15
1	S 181.975 Axial†	21.7	1.5	5.6996 µg/L	5.6996 ppb	16:14:15
1	Sb 206.836†	20.8	0.2	0.2066 µg/L	0.2066 ppb	16:14:15
1	Se 196.026†	14.4	1.4	1.6880 µg/L	1.6880 ppb	16:14:15
1	SiO2†	1367.1	14.5	3.1668 µg/L	3.1668 ppb	16:13:54
1	Si 251.611†	364.8	9.0	0.7347 µg/L	0.7347 ppb	16:14:15
1	Sn 189.927†	1.3	-3.2	-1.5205 µg/L	-1.5205 ppb	16:14:15
1	Ti 334.940†	13.8	22.2	0.0587 µg/L	0.0587 ppb	16:13:54
1	Tl 190.801†	-27.7	-2.7	-3.1870 µg/L	-3.1870 ppb	16:14:15
1	U 409.014†	157.5	10.2	1.0015 µg/L	1.0015 ppb	16:13:54
1	V 292.402†	-144.9	3.7	0.0451 µg/L	0.0451 ppb	16:13:54
1	Zn 213.857†	567.9	0.3	0.0059 µg/L	0.0059 ppb	16:14:15
2	Sc RADIAL	105409.0	105409.0	96.5 %		16:12:52
2	Al 396.153Radial†	-162.7	6.3	3.0226 µg/L	3.0226 ppb	16:12:52
2	Ca 317.933Radial†	385.4	15.8	5.1107 µg/L	5.1107 ppb	16:13:12
2	Fe 238.204 Radial†	30.6	0.4	3.0989 µg/L	3.0989 ppb	16:13:12
2	K 766.490 Radial†	245.1	23.2	13.167 µg/L	13.167 ppb	16:12:52
2	Mg 279.077 IEC†	8.8	0.4	3.5858 µg/L	3.5858 ppb	16:13:12
2	Na 589.592 Radial†	358.8	136.4	47.235 µg/L	47.235 ppb	16:12:52
2	Sr 421.552†	141.8	-8.1	-0.0366 µg/L	-0.0366 ppb	16:12:52
2	Sc 361.383	1655101.1	1655101.1	98.362 %		16:14:21
2	Y 371.029	910593.7	910593.7	97.273 %		16:14:21
2	Ag 328.068†	-443.6	114.9	1.0284 µg/L	1.0284 ppb	16:14:26
2	As 188.979†	-5.5	-1.7	-3.1770 µg/L	-3.1770 ppb	16:14:47
2	B 249.677†	162.3	6.4	0.3357 µg/L	0.3357 ppb	16:14:47
2	Ba 233.527†	-26.0	-8.5	-0.2192 µg/L	-0.2192 ppb	16:14:47
2	Be 313.107†	-2045.2	-133.5	-0.0956 µg/L	-0.0956 ppb	16:14:26
2	Cd 226.502†	-141.7	0.2	0.0052 µg/L	0.0052 ppb	16:14:47
2	Co 228.616†	18.0	-4.0	-0.2074 µg/L	-0.2074 ppb	16:14:47
2	Cr 267.716†	77.0	-11.9	-0.3067 µg/L	-0.3067 ppb	16:14:47
2	Cu 324.752†	2545.7	-34.9	-0.2496 µg/L	-0.2496 ppb	16:14:26
2	Mn 257.610†	-530.0	5.5	0.0198 µg/L	0.0198 ppb	16:14:47
2	Mo 202.031†	2.5	-1.8	-0.2093 µg/L	-0.2093 ppb	16:14:47
2	Ni 231.604†	294.2	0.5	0.0347 µg/L	0.0347 ppb	16:14:47
2	P 214.914†	248.8	11.5	24.762 µg/L	24.762 ppb	16:14:47
2	Pb 220.353†	48.0	5.9	1.8643 µg/L	1.8643 ppb	16:14:47

2	S 181.975 Axial†	20.2	-0.1	-0.4022 µg/L	-0.4022 ppb	16:14:47
2	Sb 206.836†	19.2	-1.6	-1.6571 µg/L	-1.6571 ppb	16:14:47
2	Se 196.026†	7.2	-6.0	-7.3070 µg/L	-7.3070 ppb	16:14:47
2	SiO2†	1370.3	10.0	2.1743 µg/L	2.1743 ppb	16:14:26
2	Si 251.611†	371.2	13.3	1.0906 µg/L	1.0906 ppb	16:14:47
2	Sn 189.927†	2.8	-1.7	-0.7954 µg/L	-0.7954 ppb	16:14:47
2	Ti 334.940†	-2.2	5.9	0.0156 µg/L	0.0156 ppb	16:14:26
2	Tl 190.801†	-24.7	0.4	0.5188 µg/L	0.5188 ppb	16:14:47
2	U 409.014†	211.9	64.6	6.3280 µg/L	6.3280 ppb	16:14:26
2	V 292.402†	-131.1	18.7	0.2410 µg/L	0.2410 ppb	16:14:26
2	Zn 213.857†	567.1	-3.8	-0.1010 µg/L	-0.1010 ppb	16:14:47
3	Sc RADIAL	104637.3	104637.3	95.8 %		16:13:18
3	Al 396.153Radial†	-154.1	14.1	6.7280 µg/L	6.7280 ppb	16:13:18
3	Ca 317.933Radial†	374.8	7.6	2.4596 µg/L	2.4596 ppb	16:13:38
3	Fe 238.204 Radial†	28.1	-2.0	-14.984 µg/L	-14.984 ppb	16:13:38
3	K 766.490 Radial†	256.8	37.2	21.111 µg/L	21.111 ppb	16:13:18
3	Mg 279.077 IEC†	12.7	4.5	44.643 µg/L	44.643 ppb	16:13:38
3	Na 589.592 Radial†	366.2	146.9	50.857 µg/L	50.857 ppb	16:13:18
3	Sr 421.552†	138.3	-10.7	-0.0482 µg/L	-0.0482 ppb	16:13:18
3	Sc 361.383	1646897.9	1646897.9	97.874 %		16:14:53
3	Y 371.029	904518.5	904518.5	96.624 %		16:14:53
3	Ag 328.068†	-505.4	49.6	0.4392 µg/L	0.4392 ppb	16:14:58
3	As 188.979†	-1.8	2.1	3.7865 µg/L	3.7865 ppb	16:15:19
3	B 249.677†	150.2	-5.2	-0.2691 µg/L	-0.2691 ppb	16:15:19
3	Ba 233.527†	-19.3	-1.8	-0.0479 µg/L	-0.0479 ppb	16:15:19
3	Be 313.107†	-2071.5	-170.7	-0.1222 µg/L	-0.1222 ppb	16:14:58
3	Cd 226.502†	-138.5	2.7	0.0814 µg/L	0.0814 ppb	16:15:19
3	Co 228.616†	15.3	-6.6	-0.3423 µg/L	-0.3423 ppb	16:15:19
3	Cr 267.716†	70.1	-18.5	-0.4791 µg/L	-0.4791 ppb	16:15:19
3	Cu 324.752†	2599.0	32.4	0.2298 µg/L	0.2298 ppb	16:14:58
3	Mn 257.610†	-556.5	-24.4	-0.0927 µg/L	-0.0927 ppb	16:15:19
3	Mo 202.031†	7.3	3.1	0.3592 µg/L	0.3592 ppb	16:15:19
3	Ni 231.604†	293.8	1.5	0.1069 µg/L	0.1069 ppb	16:15:19
3	P 214.914†	249.2	13.1	28.195 µg/L	28.195 ppb	16:15:19
3	Pb 220.353†	39.9	-2.1	-0.6510 µg/L	-0.6510 ppb	16:15:19
3	S 181.975 Axial†	17.1	-3.2	-12.324 µg/L	-12.324 ppb	16:15:19
3	Sb 206.836†	19.0	-1.6	-1.6986 µg/L	-1.6986 ppb	16:15:19
3	Se 196.026†	19.5	6.6	8.0601 µg/L	8.0601 ppb	16:15:19
3	SiO2†	1361.1	7.5	1.6268 µg/L	1.6268 ppb	16:14:58
3	Si 251.611†	359.5	3.3	0.2680 µg/L	0.2680 ppb	16:15:19
3	Sn 189.927†	4.7	0.3	0.1254 µg/L	0.1254 ppb	16:15:19
3	Ti 334.940†	-0.8	7.3	0.0160 µg/L	0.0160 ppb	16:14:58
3	Tl 190.801†	-24.6	0.4	0.4883 µg/L	0.4883 ppb	16:15:19
3	U 409.014†	126.7	-21.4	-2.0961 µg/L	-2.0961 ppb	16:14:58
3	V 292.402†	-168.7	-20.5	-0.2603 µg/L	-0.2603 ppb	16:14:58
3	Zn 213.857†	566.3	-1.7	-0.0479 µg/L	-0.0479 ppb	16:15:19

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1649288.1	98.016 %	0.3007			0.31%
Sc RADIAL	105246.5	96.4 %	0.50			0.52%
Y 371.029	906549.0	96.841 %	0.3742			0.39%
Ag 328.068†	61.3	0.5468 µg/L	0.43780	0.5468 ppb	0.43780	80.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.2	4.8893 µg/L	1.85282	4.8893 ppb	1.85282	37.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.2	0.3161 µg/L	3.48180	0.3161 ppb	3.48180	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	0.2	0.0135 µg/L	0.30431	0.0135 ppb	0.30431	>999.9%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-4.8	-0.1230 µg/L	0.08760	-0.1230 ppb	0.08760	71.25%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-148.6	-0.1064 µg/L	0.01400	-0.1064 ppb	0.01400	13.16%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	13.2	4.2840 µg/L	1.58225	4.2840 ppb	1.58225	36.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.1	0.0628 µg/L	0.05094	0.0628 ppb	0.05094	81.13%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.6	-0.2921 µg/L	0.07378	-0.2921 ppb	0.07378	25.26%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-16.2 -0.4180 µg/L	0.09657 -0.4180 ppb	0.09657 23.10%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	9.5 0.0664 µg/L	0.27379 0.0664 ppb	0.27379 412.04%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-1.2 -8.9281 µg/L	10.41574 -8.9281 ppb	10.41574 116.66%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	43.8 24.832 µg/L	13.9038 24.832 ppb	13.9038 55.99%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	1.9 19.253 µg/L	22.1885 19.253 ppb	22.1885 115.25%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	-6.2 -0.0243 µg/L	0.06006 -0.0243 ppb	0.06006 246.65%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-0.2 -0.0275 µg/L	0.33515 -0.0275 ppb	0.33515 >999.9%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	151.3 52.383 µg/L	6.0573 52.383 ppb	6.0573 11.56%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	2.7 0.1863 µg/L	0.20336 0.1863 ppb	0.20336 109.14%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	11.4 24.529 µg/L	3.7878 24.529 ppb	3.7878 15.44%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	3.8 1.2000 µg/L	1.62419 1.2000 ppb	1.62419 135.35%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.6 -2.3421 µg/L	9.16689 -2.3421 ppb	9.16689 391.39%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-1.0 -1.0497 µg/L	1.08814 -1.0497 ppb	1.08814 103.66%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.7 0.8137 µg/L	7.72077 0.8137 ppb	7.72077 948.82%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	10.6 2.3226 µg/L	0.78065 2.3226 ppb	0.78065 33.61%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	8.5 0.6978 µg/L	0.41255 0.6978 ppb	0.41255 59.12%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-1.6 -0.7302 µg/L	0.82487 -0.7302 ppb	0.82487 112.97%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-5.6 -0.0254 µg/L	0.03008 -0.0254 ppb	0.03008 118.41%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	11.8 0.0301 µg/L	0.02475 0.0301 ppb	0.02475 82.22%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-0.6 -0.7266 µg/L	2.13078 -0.7266 ppb	2.13078 293.24%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	17.8 1.7445 µg/L	4.26090 1.7445 ppb	4.26090 244.25%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	0.7 0.0086 µg/L	0.25265 0.0086 ppb	0.25265 >999.9%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	-1.7 -0.0477 µg/L	0.05343 -0.0477 ppb	0.05343 112.10%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 16:19:06

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	110648.5	110648.5	101 %		16:19:41
1	Al 396.153Radial†	9848.3	9894.4	4724.7 µg/L	4724.7 ppb	16:19:41
1	Ca 317.933Radial†	15291.3	14707.6	4770.0 µg/L	4770.0 ppb	16:19:41
1	Fe 238.204 Radial†	676.1	636.0	4797.9 µg/L	4797.9 ppb	16:20:01
1	K 766.490 Radial†	8872.3	8525.4	4838.3 µg/L	4838.3 ppb	16:19:41
1	Mg 279.077 IEC†	498.8	483.5	4831.2 µg/L	4831.2 ppb	16:20:01
1	Na 589.592 Radial†	28531.1	27922.5	9667.9 µg/L	9667.9 ppb	16:19:41
1	Sr 421.552†	110206.4	108609.4	491.89 µg/L	491.89 ppb	16:19:41
1	Sc 361.383	1672912.7	1672912.7	99.420 %		16:21:04
1	Y 371.029	915958.9	915958.9	97.846 %		16:21:04
1	Ag 328.068†	54519.9	55403.8	498.85 µg/L	498.85 ppb	16:21:10
1	As 188.979†	263.8	269.2	495.45 µg/L	495.45 ppb	16:21:30
1	B 249.677†	9390.2	9286.3	490.86 µg/L	490.86 ppb	16:21:10
1	Ba 233.527†	19291.3	19421.8	501.46 µg/L	501.46 ppb	16:21:10
1	Be 313.107†	688666.1	694628.7	497.03 µg/L	497.03 ppb	16:21:04
1	Cd 226.502†	16789.9	17032.0	498.52 µg/L	498.52 ppb	16:21:10
1	Co 228.616†	9690.5	9724.7	503.96 µg/L	503.96 ppb	16:21:10
1	Cr 267.716†	19387.9	19410.8	502.26 µg/L	502.26 ppb	16:21:10
1	Cu 324.752†	72153.8	69951.6	502.34 µg/L	502.34 ppb	16:21:10
1	Mn 257.610†	135765.5	137101.6	499.91 µg/L	499.91 ppb	16:21:10
1	Mo 202.031†	4490.0	4511.9	515.89 µg/L	515.89 ppb	16:21:30
1	Ni 231.604†	7752.6	7499.1	519.48 µg/L	519.48 ppb	16:21:10
1	P 214.914†	1412.7	1179.5	2493.6 µg/L	2493.6 ppb	16:21:30
1	Pb 220.353†	1655.9	1622.7	511.13 µg/L	511.13 ppb	16:21:30
1	S 181.975 Axial†	288.2	269.2	1021.6 µg/L	1021.6 ppb	16:21:30
1	Sb 206.836†	481.6	463.3	497.01 µg/L	497.01 ppb	16:21:30
1	Se 196.026†	431.0	420.2	528.40 µg/L	528.40 ppb	16:21:30
1	SiO2†	25614.9	24381.2	5320.6 µg/L	5320.6 ppb	16:21:10
1	Si 251.611†	30730.6	30545.9	2497.0 µg/L	2497.0 ppb	16:21:10
1	Sn 189.927†	1096.3	1098.1	516.43 µg/L	516.43 ppb	16:21:30
1	Ti 334.940†	186435.7	187531.3	499.99 µg/L	499.99 ppb	16:21:04
1	Tl 190.801†	403.0	430.9	506.56 µg/L	506.56 ppb	16:21:30
1	U 409.014†	5198.3	5077.7	496.49 µg/L	496.49 ppb	16:21:10
1	V 292.402†	39243.5	39624.3	507.98 µg/L	507.98 ppb	16:21:10
1	Zn 213.857†	19347.2	18879.8	503.58 µg/L	503.58 ppb	16:21:10
2	Sc RADIAL	110164.1	110164.1	101 %		16:20:07
2	Al 396.153Radial†	9847.1	9935.9	4744.7 µg/L	4744.7 ppb	16:20:07
2	Ca 317.933Radial†	15264.4	14747.3	4782.9 µg/L	4782.9 ppb	16:20:07
2	Fe 238.204 Radial†	669.7	632.6	4772.4 µg/L	4772.4 ppb	16:20:27
2	K 766.490 Radial†	8902.9	8594.3	4877.4 µg/L	4877.4 ppb	16:20:07
2	Mg 279.077 IEC†	497.4	484.3	4839.0 µg/L	4839.0 ppb	16:20:27
2	Na 589.592 Radial†	28633.4	28147.7	9745.9 µg/L	9745.9 ppb	16:20:07
2	Sr 421.552†	110294.2	109174.5	494.45 µg/L	494.45 ppb	16:20:07
2	Sc 361.383	1683797.0	1683797.0	100.07 %		16:21:37
2	Y 371.029	925369.3	925369.3	98.851 %		16:21:37
2	Ag 328.068†	55037.7	55566.8	500.32 µg/L	500.32 ppb	16:21:43
2	As 188.979†	264.4	268.1	493.42 µg/L	493.42 ppb	16:22:03
2	B 249.677†	9504.6	9339.6	493.71 µg/L	493.71 ppb	16:21:43
2	Ba 233.527†	19457.8	19462.7	502.51 µg/L	502.51 ppb	16:21:43
2	Be 313.107†	697794.8	699273.6	500.35 µg/L	500.35 ppb	16:21:37
2	Cd 226.502†	16989.9	17122.8	501.19 µg/L	501.19 ppb	16:21:43
2	Co 228.616†	9754.4	9725.6	504.00 µg/L	504.00 ppb	16:21:43
2	Cr 267.716†	19611.0	19507.7	504.76 µg/L	504.76 ppb	16:21:43
2	Cu 324.752†	72647.6	69976.0	502.51 µg/L	502.51 ppb	16:21:43
2	Mn 257.610†	137046.3	137498.8	501.35 µg/L	501.35 ppb	16:21:43
2	Mo 202.031†	4478.8	4471.4	511.26 µg/L	511.26 ppb	16:22:03
2	Ni 231.604†	7850.9	7547.0	522.80 µg/L	522.80 ppb	16:21:43
2	P 214.914†	1415.1	1172.7	2478.9 µg/L	2478.9 ppb	16:22:03
2	Pb 220.353†	1645.7	1601.8	504.53 µg/L	504.53 ppb	16:22:03

2	S 181.975 Axial†	285.1	264.2	1002.9 µg/L	1002.9 ppb	16:22:03
2	Sb 206.836†	484.7	463.3	496.86 µg/L	496.86 ppb	16:22:03
2	Se 196.026†	426.8	413.2	519.66 µg/L	519.66 ppb	16:22:03
2	SiO2†	25954.7	24554.2	5358.4 µg/L	5358.4 ppb	16:21:43
2	Si 251.611†	31066.3	30681.5	2508.1 µg/L	2508.1 ppb	16:21:43
2	Sn 189.927†	1085.1	1079.9	507.85 µg/L	507.85 ppb	16:22:03
2	Ti 334.940†	188656.9	188538.8	502.67 µg/L	502.67 ppb	16:21:37
2	Tl 190.801†	410.9	436.2	512.73 µg/L	512.73 ppb	16:22:03
2	U 409.014†	5187.2	5032.9	492.10 µg/L	492.10 ppb	16:21:43
2	V 292.402†	39659.9	39785.3	509.98 µg/L	509.98 ppb	16:21:43
2	Zn 213.857†	19531.6	18938.2	505.13 µg/L	505.13 ppb	16:21:43
3	Sc RADIAL	111006.9	111006.9	102 %		16:20:33
3	Al 396.153Radial†	9886.4	9900.4	4728.9 µg/L	4728.9 ppb	16:20:33
3	Ca 317.933Radial†	15426.2	14791.7	4797.3 µg/L	4797.3 ppb	16:20:33
3	Fe 238.204 Radial†	679.2	636.9	4804.2 µg/L	4804.2 ppb	16:20:53
3	K 766.490 Radial†	8952.1	8575.7	4866.8 µg/L	4866.8 ppb	16:20:33
3	Mg 279.077 IEC†	505.2	488.2	4877.5 µg/L	4877.5 ppb	16:20:53
3	Na 589.592 Radial†	28899.0	28193.5	9761.8 µg/L	9761.8 ppb	16:20:33
3	Sr 421.552†	111448.2	109479.7	495.83 µg/L	495.83 ppb	16:20:33
3	Sc 361.383	1673892.2	1673892.2	99.478 %		16:22:10
3	Y 371.029	917060.6	917060.6	97.964 %		16:22:10
3	Ag 328.068†	53006.6	53850.5	484.79 µg/L	484.79 ppb	16:22:16
3	As 188.979†	231.4	236.4	435.15 µg/L	435.15 ppb	16:22:36
3	B 249.677†	9123.1	9012.3	476.27 µg/L	476.27 ppb	16:22:16
3	Ba 233.527†	18443.7	18558.3	479.15 µg/L	479.15 ppb	16:22:16
3	Be 313.107†	667947.6	673396.2	481.83 µg/L	481.83 ppb	16:22:10
3	Cd 226.502†	16063.2	16291.7	476.83 µg/L	476.83 ppb	16:22:16
3	Co 228.616†	9241.9	9268.1	480.25 µg/L	480.25 ppb	16:22:16
3	Cr 267.716†	18094.1	18098.8	468.31 µg/L	468.31 ppb	16:22:16
3	Cu 324.752†	68723.3	66460.6	477.32 µg/L	477.32 ppb	16:22:16
3	Mn 257.610†	128879.3	130099.4	474.37 µg/L	474.37 ppb	16:22:16
3	Mo 202.031†	3937.4	3953.7	452.09 µg/L	452.09 ppb	16:22:36
3	Ni 231.604†	7398.7	7138.9	494.53 µg/L	494.53 ppb	16:22:16
3	P 214.914†	1285.4	1050.6	2217.6 µg/L	2217.6 ppb	16:22:36
3	Pb 220.353†	1492.2	1457.2	458.92 µg/L	458.92 ppb	16:22:36
3	S 181.975 Axial†	261.8	242.5	920.38 µg/L	920.38 ppb	16:22:36
3	Sb 206.836†	435.5	416.8	446.69 µg/L	446.69 ppb	16:22:36
3	Se 196.026†	389.3	378.1	476.56 µg/L	476.56 ppb	16:22:36
3	SiO2†	24912.9	23660.3	5163.3 µg/L	5163.3 ppb	16:22:16
3	Si 251.611†	29790.7	29582.9	2418.3 µg/L	2418.3 ppb	16:22:16
3	Sn 189.927†	942.9	943.3	443.69 µg/L	443.69 ppb	16:22:36
3	Ti 334.940†	180350.4	181304.4	483.37 µg/L	483.37 ppb	16:22:10
3	Tl 190.801†	374.2	401.7	472.37 µg/L	472.37 ppb	16:22:36
3	U 409.014†	4867.3	4742.0	463.60 µg/L	463.60 ppb	16:22:16
3	V 292.402†	37055.0	37401.3	479.20 µg/L	479.20 ppb	16:22:16
3	Zn 213.857†	18416.8	17933.1	478.29 µg/L	478.29 ppb	16:22:16

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1676867.3	99.655 %	0.3578			0.36%
Sc RADIAL	110606.5	101 %	0.4			0.38%
Y 371.029	919462.9	98.220 %	0.5496			0.56%
Ag 328.068†	54940.4	494.65 µg/L	8.573	494.65 ppb	8.573	1.73%
QC value within limits for Ag 328.068 Recovery = 98.93%						
Al 396.153Radial†	9910.2	4732.8 µg/L	10.54	4732.8 ppb	10.54	0.22%
QC value within limits for Al 396.153Radial Recovery = 94.66%						
As 188.979†	257.9	474.68 µg/L	34.243	474.68 ppb	34.243	7.21%
QC value within limits for As 188.979 Recovery = 94.94%						
B 249.677†	9212.7	486.95 µg/L	9.355	486.95 ppb	9.355	1.92%
QC value within limits for B 249.677 Recovery = 97.39%						
Ba 233.527†	19147.6	494.37 µg/L	13.194	494.37 ppb	13.194	2.67%
QC value within limits for Ba 233.527 Recovery = 98.87%						
Be 313.107†	689099.5	493.07 µg/L	9.871	493.07 ppb	9.871	2.00%
QC value within limits for Be 313.107 Recovery = 98.61%						
Ca 317.933Radial†	14748.9	4783.4 µg/L	13.63	4783.4 ppb	13.63	0.29%
QC value within limits for Ca 317.933Radial Recovery = 95.67%						
Cd 226.502†	16815.5	492.18 µg/L	13.361	492.18 ppb	13.361	2.71%
QC value within limits for Cd 226.502 Recovery = 98.44%						
Co 228.616†	9572.8	496.07 µg/L	13.701	496.07 ppb	13.701	2.76%

QC value within limits for Co 228.616 Recovery = 99.21%							
Cr 267.716†	19005.8	491.78 µg/L	20.361	491.78 ppb	20.361	4.14%	
QC value within limits for Cr 267.716 Recovery = 98.36%							
Cu 324.752†	68796.1	494.06 µg/L	14.497	494.06 ppb	14.497	2.93%	
QC value within limits for Cu 324.752 Recovery = 98.81%							
Fe 238.204 Radial†	635.2	4791.5 µg/L	16.85	4791.5 ppb	16.85	0.35%	
QC value within limits for Fe 238.204 Radial Recovery = 95.83%							
K 766.490 Radial†	8565.1	4860.8 µg/L	20.20	4860.8 ppb	20.20	0.42%	
QC value within limits for K 766.490 Radial Recovery = 97.22%							
Mg 279.077 IEC†	485.4	4849.2 µg/L	24.77	4849.2 ppb	24.77	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 96.98%							
Mn 257.610†	134899.9	491.88 µg/L	15.178	491.88 ppb	15.178	3.09%	
QC value within limits for Mn 257.610 Recovery = 98.38%							
Mo 202.031†	4312.3	493.08 µg/L	35.574	493.08 ppb	35.574	7.21%	
QC value within limits for Mo 202.031 Recovery = 98.62%							
Na 589.592 Radial†	28087.9	9725.2 µg/L	50.23	9725.2 ppb	50.23	0.52%	
QC value within limits for Na 589.592 Radial Recovery = 97.25%							
Ni 231.604†	7395.0	512.27 µg/L	15.453	512.27 ppb	15.453	3.02%	
QC value within limits for Ni 231.604 Recovery = 102.45%							
P 214.914†	1134.3	2396.7 µg/L	155.28	2396.7 ppb	155.28	6.48%	
QC value within limits for P 214.914 Recovery = 95.87%							
Pb 220.353†	1560.6	491.53 µg/L	28.429	491.53 ppb	28.429	5.78%	
QC value within limits for Pb 220.353 Recovery = 98.31%							
S 181.975 Axial†	258.6	981.62 µg/L	53.847	981.62 ppb	53.847	5.49%	
QC value within limits for S 181.975 Axial Recovery = 98.16%							
Sb 206.836†	447.8	480.19 µg/L	29.005	480.19 ppb	29.005	6.04%	
QC value within limits for Sb 206.836 Recovery = 96.04%							
Se 196.026†	403.8	508.21 µg/L	27.749	508.21 ppb	27.749	5.46%	
QC value within limits for Se 196.026 Recovery = 101.64%							
SiO2†	24198.6	5280.8 µg/L	103.46	5280.8 ppb	103.46	1.96%	
QC value within limits for SiO2 Recovery = 98.75%							
Si 251.611†	30270.1	2474.5 µg/L	48.96	2474.5 ppb	48.96	1.98%	
QC value within limits for Si 251.611 Recovery = 98.98%							
Sn 189.927†	1040.4	489.33 µg/L	39.752	489.33 ppb	39.752	8.12%	
QC value within limits for Sn 189.927 Recovery = 97.87%							
Sr 421.552†	109087.8	494.05 µg/L	2.000	494.05 ppb	2.000	0.40%	
QC value within limits for Sr 421.552 Recovery = 98.81%							
Ti 334.940†	185791.5	495.34 µg/L	10.455	495.34 ppb	10.455	2.11%	
QC value within limits for Ti 334.940 Recovery = 99.07%							
Tl 190.801†	422.9	497.22 µg/L	21.739	497.22 ppb	21.739	4.37%	
QC value within limits for Tl 190.801 Recovery = 99.44%							
U 409.014†	4950.9	484.06 µg/L	17.859	484.06 ppb	17.859	3.69%	
QC value within limits for U 409.014 Recovery = 96.81%							
V 292.402†	38937.0	499.06 µg/L	17.222	499.06 ppb	17.222	3.45%	
QC value within limits for V 292.402 Recovery = 99.81%							
Zn 213.857†	18583.7	495.67 µg/L	15.066	495.67 ppb	15.066	3.04%	
QC value within limits for Zn 213.857 Recovery = 99.13%							

All analyte(s) passed QC.

Sequence No.: 8  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 2/26/2010 16:22:45  
 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	106559.5	106559.5	97.6 %		16:23:18
1	Al 396.153Radial†	-168.9	1.8	0.8219 µg/L	0.8219 ppb	16:23:18
1	Ca 317.933Radial†	387.8	13.8	4.4888 µg/L	4.4888 ppb	16:23:39
1	Fe 238.204 Radial†	29.0	-1.6	-11.941 µg/L	-11.941 ppb	16:23:39
1	K 766.490 Radial†	217.8	-7.5	-4.2730 µg/L	-4.2730 ppb	16:23:18
1	Mg 279.077 IEC†	10.8	2.3	22.501 µg/L	22.501 ppb	16:23:39
1	Na 589.592 Radial†	358.9	132.5	45.872 µg/L	45.872 ppb	16:23:18
1	Sr 421.552†	137.8	-13.8	-0.0624 µg/L	-0.0624 ppb	16:23:18
1	Sc 361.383	1661221.3	1661221.3	98.725 %		16:24:41
1	Y 371.029	910974.7	910974.7	97.314 %		16:24:41
1	Ag 328.068†	-556.9	1.8	0.0162 µg/L	0.0162 ppb	16:24:46
1	As 188.979†	-2.8	1.0	1.9314 µg/L	1.9314 ppb	16:25:07
1	B 249.677†	175.9	19.6	1.0438 µg/L	1.0438 ppb	16:25:07
1	Ba 233.527†	-21.2	-3.5	-0.0909 µg/L	-0.0909 ppb	16:25:07
1	Be 313.107†	-1968.8	-48.4	-0.0347 µg/L	-0.0347 ppb	16:24:46
1	Cd 226.502†	-137.2	5.2	0.1550 µg/L	0.1550 ppb	16:25:07
1	Co 228.616†	8.5	-13.7	-0.7074 µg/L	-0.7074 ppb	16:25:07
1	Cr 267.716†	66.9	-22.4	-0.5781 µg/L	-0.5781 ppb	16:25:07
1	Cu 324.752†	2615.7	26.4	0.1873 µg/L	0.1873 ppb	16:24:46
1	Mn 257.610†	-546.1	-8.9	-0.0348 µg/L	-0.0348 ppb	16:25:07
1	Mo 202.031†	15.2	11.0	1.2581 µg/L	1.2581 ppb	16:25:07
1	Ni 231.604†	298.4	3.6	0.2536 µg/L	0.2536 ppb	16:25:07
1	P 214.914†	256.0	17.8	38.326 µg/L	38.326 ppb	16:25:07
1	Pb 220.353†	44.7	2.5	0.7741 µg/L	0.7741 ppb	16:25:07
1	S 181.975 Axial†	22.0	1.6	6.1304 µg/L	6.1304 ppb	16:25:07
1	Sb 206.836†	23.8	3.1	3.2867 µg/L	3.2867 ppb	16:25:07
1	Se 196.026†	15.9	2.8	3.4247 µg/L	3.4247 ppb	16:25:07
1	SiO2†	1383.5	18.2	3.9657 µg/L	3.9657 ppb	16:24:46
1	Si 251.611†	353.3	-6.2	-0.5049 µg/L	-0.5049 ppb	16:25:07
1	Sn 189.927†	6.3	1.8	0.8684 µg/L	0.8684 ppb	16:25:07
1	Ti 334.940†	53.5	62.3	0.1646 µg/L	0.1646 ppb	16:24:46
1	Tl 190.801†	-22.8	2.5	2.9487 µg/L	2.9487 ppb	16:25:07
1	U 409.014†	175.9	27.3	2.6770 µg/L	2.6770 ppb	16:24:46
1	V 292.402†	-129.9	20.3	0.2684 µg/L	0.2684 ppb	16:24:46
1	Zn 213.857†	577.0	4.2	0.1096 µg/L	0.1096 ppb	16:25:07
2	Sc RADIAL	107356.1	107356.1	98.3 %		16:23:44
2	Al 396.153Radial†	-138.1	34.5	16.468 µg/L	16.468 ppb	16:23:44
2	Ca 317.933Radial†	390.2	13.4	4.3410 µg/L	4.3410 ppb	16:24:04
2	Fe 238.204 Radial†	29.7	-1.1	-8.3440 µg/L	-8.3440 ppb	16:24:04
2	K 766.490 Radial†	258.4	32.1	18.217 µg/L	18.217 ppb	16:23:44
2	Mg 279.077 IEC†	8.3	-0.4	-3.5201 µg/L	-3.5201 ppb	16:24:04
2	Na 589.592 Radial†	304.5	74.5	25.779 µg/L	25.779 ppb	16:23:44
2	Sr 421.552†	145.1	-7.4	-0.0333 µg/L	-0.0333 ppb	16:23:44
2	Sc 361.383	1676097.0	1676097.0	99.609 %		16:25:13
2	Y 371.029	920961.7	920961.7	98.381 %		16:25:13
2	Ag 328.068†	-508.6	55.3	0.4938 µg/L	0.4938 ppb	16:25:18
2	As 188.979†	-4.8	-1.0	-1.8805 µg/L	-1.8805 ppb	16:25:39
2	B 249.677†	162.2	4.2	0.2255 µg/L	0.2255 ppb	16:25:39
2	Ba 233.527†	-20.6	-2.8	-0.0718 µg/L	-0.0718 ppb	16:25:39
2	Be 313.107†	-1939.9	-1.7	-0.0012 µg/L	-0.0012 ppb	16:25:18
2	Cd 226.502†	-148.3	-4.7	-0.1374 µg/L	-0.1374 ppb	16:25:39
2	Co 228.616†	16.8	-5.4	-0.2796 µg/L	-0.2796 ppb	16:25:39
2	Cr 267.716†	81.6	-8.3	-0.2135 µg/L	-0.2135 ppb	16:25:39
2	Cu 324.752†	2588.6	-24.3	-0.1760 µg/L	-0.1760 ppb	16:25:18
2	Mn 257.610†	-536.3	5.9	0.0212 µg/L	0.0212 ppb	16:25:39
2	Mo 202.031†	17.2	12.9	1.4761 µg/L	1.4761 ppb	16:25:39
2	Ni 231.604†	289.3	-8.2	-0.5701 µg/L	-0.5701 ppb	16:25:39
2	P 214.914†	249.2	8.7	18.742 µg/L	18.742 ppb	16:25:39
2	Pb 220.353†	48.2	5.5	1.7538 µg/L	1.7538 ppb	16:25:39

2	S 181.975 Axial†	16.7	-3.9	-14.793 µg/L	-14.793 ppb	16:25:39
2	Sb 206.836†	24.1	3.1	3.3694 µg/L	3.3694 ppb	16:25:39
2	Se 196.026†	20.7	7.5	9.1492 µg/L	9.1492 ppb	16:25:39
2	SiO2†	1326.4	-51.6	-11.251 µg/L	-11.251 ppb	16:25:18
2	Si 251.611†	372.4	9.9	0.8075 µg/L	0.8075 ppb	16:25:39
2	Sn 189.927†	2.7	-1.9	-0.8875 µg/L	-0.8875 ppb	16:25:39
2	Ti 334.940†	14.3	22.5	0.0603 µg/L	0.0603 ppb	16:25:18
2	Tl 190.801†	-25.9	-0.5	-0.5412 µg/L	-0.5412 ppb	16:25:39
2	U 409.014†	125.0	-25.4	-2.4845 µg/L	-2.4845 ppb	16:25:18
2	V 292.402†	-143.6	7.7	0.1060 µg/L	0.1060 ppb	16:25:18
2	Zn 213.857†	574.4	-3.6	-0.0933 µg/L	-0.0933 ppb	16:25:39
3	Sc RADIAL	107349.1	107349.1	98.3 %		16:24:10
3	Al 396.153Radial†	-172.1	-0.2	-0.1089 µg/L	-0.1089 ppb	16:24:10
3	Ca 317.933Radial†	376.1	-1.0	-0.3240 µg/L	-0.3240 ppb	16:24:30
3	Fe 238.204 Radial†	29.7	-1.1	-8.3612 µg/L	-8.3612 ppb	16:24:30
3	K 766.490 Radial†	232.8	6.1	3.4404 µg/L	3.4404 ppb	16:24:10
3	Mg 279.077 IEC†	10.9	2.4	23.574 µg/L	23.574 ppb	16:24:30
3	Na 589.592 Radial†	371.4	142.5	49.357 µg/L	49.357 ppb	16:24:10
3	Sr 421.552†	153.8	1.4	0.0065 µg/L	0.0065 ppb	16:24:10
3	Sc 361.383	1668738.3	1668738.3	99.172 %		16:25:45
3	Y 371.029	916867.8	916867.8	97.943 %		16:25:45
3	Ag 328.068†	-437.5	124.7	1.1129 µg/L	1.1129 ppb	16:25:51
3	As 188.979†	-5.7	-1.9	-3.4197 µg/L	-3.4197 ppb	16:26:11
3	B 249.677†	174.6	17.5	0.9301 µg/L	0.9301 ppb	16:26:11
3	Ba 233.527†	-30.0	-12.3	-0.3169 µg/L	-0.3169 ppb	16:26:11
3	Be 313.107†	-1923.5	6.3	0.0044 µg/L	0.0044 ppb	16:25:51
3	Cd 226.502†	-134.8	8.3	0.2424 µg/L	0.2424 ppb	16:26:11
3	Co 228.616†	14.9	-7.2	-0.3730 µg/L	-0.3730 ppb	16:26:11
3	Cr 267.716†	84.3	-5.2	-0.1344 µg/L	-0.1344 ppb	16:26:11
3	Cu 324.752†	2576.6	-24.9	-0.1802 µg/L	-0.1802 ppb	16:25:51
3	Mn 257.610†	-540.3	-0.5	-0.0041 µg/L	-0.0041 ppb	16:26:11
3	Mo 202.031†	12.1	7.8	0.8968 µg/L	0.8968 ppb	16:26:11
3	Ni 231.604†	294.7	-1.5	-0.1033 µg/L	-0.1033 ppb	16:26:11
3	P 214.914†	255.0	15.6	33.740 µg/L	33.740 ppb	16:26:11
3	Pb 220.353†	40.4	-2.1	-0.6556 µg/L	-0.6556 ppb	16:26:11
3	S 181.975 Axial†	21.1	0.6	2.1481 µg/L	2.1481 ppb	16:26:11
3	Sb 206.836†	22.6	1.8	1.8904 µg/L	1.8904 ppb	16:26:11
3	Se 196.026†	19.0	5.9	7.1605 µg/L	7.1605 ppb	16:26:11
3	SiO2†	1387.4	15.8	3.4480 µg/L	3.4480 ppb	16:25:51
3	Si 251.611†	373.0	12.1	0.9927 µg/L	0.9927 ppb	16:26:11
3	Sn 189.927†	6.9	2.4	1.1120 µg/L	1.1120 ppb	16:26:11
3	Ti 334.940†	97.1	106.0	0.2810 µg/L	0.2810 ppb	16:25:51
3	Tl 190.801†	-23.6	1.8	2.1192 µg/L	2.1192 ppb	16:26:11
3	U 409.014†	201.4	52.3	5.1226 µg/L	5.1226 ppb	16:25:51
3	V 292.402†	-152.8	-2.2	-0.0160 µg/L	-0.0160 ppb	16:25:51
3	Zn 213.857†	570.5	-5.0	-0.1350 µg/L	-0.1350 ppb	16:26:11

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1668685.5	99.169 %	0.4420			0.45%
Sc RADIAL	107088.2	98.1 %	0.42			0.43%
Y 371.029	916268.1	97.879 %	0.5363			0.55%
Ag 328.068†	60.6	0.5409 µg/L	0.54988	0.5409 ppb	0.54988	101.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	5.7269 µg/L	9.31337	5.7269 ppb	9.31337	162.62%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.6	-1.1229 µg/L	2.75481	-1.1229 ppb	2.75481	245.33%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	13.7	0.7331 µg/L	0.44332	0.7331 ppb	0.44332	60.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-6.2	-0.1599 µg/L	0.13635	-0.1599 ppb	0.13635	85.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-14.6	-0.0105 µg/L	0.02116	-0.0105 ppb	0.02116	201.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.7	2.8353 µg/L	2.73697	2.8353 ppb	2.73697	96.53%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.9	0.0867 µg/L	0.19891	0.0867 ppb	0.19891	229.55%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.8	-0.4533 µg/L	0.22494	-0.4533 ppb	0.22494	49.62%

Cr	267.716†	-11.9	-0.3087 µg/L	0.23665	-0.3087 ppb	0.23665	76.66%
	QC value within limits	for Co 228.616	Recovery = Not calculated				
Cu	324.752†	-7.6	-0.0563 µg/L	0.21097	-0.0563 ppb	0.21097	374.95%
	QC value within limits	for Cu 324.752	Recovery = Not calculated				
Fe	238.204 Radial†	-1.3	-9.5488 µg/L	2.07192	-9.5488 ppb	2.07192	21.70%
	QC value within limits	for Fe 238.204 Radial	Recovery = Not calculated				
K	766.490 Radial†	10.2	5.7948 µg/L	11.42832	5.7948 ppb	11.42832	197.22%
	QC value within limits	for K 766.490 Radial	Recovery = Not calculated				
Mg	279.077 IEC†	1.4	14.185 µg/L	15.3423	14.185 ppb	15.3423	108.16%
	QC value within limits	for Mg 279.077 IEC	Recovery = Not calculated				
Mn	257.610†	-1.2	-0.0059 µg/L	0.02805	-0.0059 ppb	0.02805	475.13%
	QC value within limits	for Mn 257.610	Recovery = Not calculated				
Mo	202.031†	10.6	1.2103 µg/L	0.29259	1.2103 ppb	0.29259	24.17%
	QC value within limits	for Mo 202.031	Recovery = Not calculated				
Na	589.592 Radial†	116.5	40.336 µg/L	12.7267	40.336 ppb	12.7267	31.55%
	QC value within limits	for Na 589.592 Radial	Recovery = Not calculated				
Ni	231.604†	-2.0	-0.1399 µg/L	0.41304	-0.1399 ppb	0.41304	295.15%
	QC value within limits	for Ni 231.604	Recovery = Not calculated				
P	214.914†	14.0	30.269 µg/L	10.2431	30.269 ppb	10.2431	33.84%
	QC value within limits	for P 214.914	Recovery = Not calculated				
Pb	220.353†	2.0	0.6241 µg/L	1.21168	0.6241 ppb	1.21168	194.14%
	QC value within limits	for Pb 220.353	Recovery = Not calculated				
S	181.975 Axial†	-0.6	-2.1717 µg/L	11.11064	-2.1717 ppb	11.11064	511.62%
	QC value within limits	for S 181.975 Axial	Recovery = Not calculated				
Sb	206.836†	2.6	2.8488 µg/L	0.83106	2.8488 ppb	0.83106	29.17%
	QC value within limits	for Sb 206.836	Recovery = Not calculated				
Se	196.026†	5.4	6.5781 µg/L	2.90634	6.5781 ppb	2.90634	44.18%
	QC value within limits	for Se 196.026	Recovery = Not calculated				
SiO2†		-5.9	-1.2791 µg/L	8.63994	-1.2791 ppb	8.63994	675.45%
	QC value within limits	for SiO2	Recovery = Not calculated				
Si	251.611†	5.3	0.4318 µg/L	0.81646	0.4318 ppb	0.81646	189.10%
	QC value within limits	for Si 251.611	Recovery = Not calculated				
Sn	189.927†	0.8	0.3643 µg/L	1.09093	0.3643 ppb	1.09093	299.47%
	QC value within limits	for Sn 189.927	Recovery = Not calculated				
Sr	421.552†	-6.6	-0.0297 µg/L	0.03459	-0.0297 ppb	0.03459	116.32%
	QC value within limits	for Sr 421.552	Recovery = Not calculated				
Ti	334.940†	63.6	0.1686 µg/L	0.11043	0.1686 ppb	0.11043	65.49%
	QC value within limits	for Ti 334.940	Recovery = Not calculated				
Tl	190.801†	1.3	1.5089 µg/L	1.82323	1.5089 ppb	1.82323	120.83%
	QC value within limits	for Tl 190.801	Recovery = Not calculated				
U	409.014†	18.1	1.7717 µg/L	3.88351	1.7717 ppb	3.88351	219.19%
	QC value within limits	for U 409.014	Recovery = Not calculated				
V	292.402†	8.6	0.1195 µg/L	0.14267	0.1195 ppb	0.14267	119.42%
	QC value within limits	for V 292.402	Recovery = Not calculated				
Zn	213.857†	-1.5	-0.0396 µg/L	0.13083	-0.0396 ppb	0.13083	330.72%
	QC value within limits	for Zn 213.857	Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 17:21:47

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	108208.9	108208.9	99.1 %		17:22:25
1	Al 396.153Radial†	9928.1	10194.0	4867.9 µg/L	4867.9 ppb	17:22:25
1	Ca 317.933Radial†	15198.6	14954.3	4850.1 µg/L	4850.1 ppb	17:22:25
1	Fe 238.204 Radial†	667.7	642.5	4847.4 µg/L	4847.4 ppb	17:22:45
1	K 766.490 Radial†	8937.8	8789.0	4987.9 µg/L	4987.9 ppb	17:22:25
1	Mg 279.077 IEC†	495.7	491.5	4910.9 µg/L	4910.9 ppb	17:22:45
1	Na 589.592 Radial†	28405.8	28430.8	9843.9 µg/L	9843.9 ppb	17:22:25
1	Sr 421.552†	110440.6	111297.8	504.06 µg/L	504.06 ppb	17:22:25
1	Sc 361.383	1643453.5	1643453.5	97.669 %		17:23:48
1	Y 371.029	897521.1	897521.1	95.877 %		17:23:48
1	Ag 328.068†	54505.4	56371.9	507.56 µg/L	507.56 ppb	17:23:53
1	As 188.979†	264.2	274.3	504.97 µg/L	504.97 ppb	17:24:14
1	B 249.677†	9388.7	9454.1	499.74 µg/L	499.74 ppb	17:23:53
1	Ba 233.527†	19164.0	19639.2	507.07 µg/L	507.07 ppb	17:23:53
1	Be 313.107†	681360.4	699565.1	500.56 µg/L	500.56 ppb	17:23:48
1	Cd 226.502†	16657.3	17199.0	503.41 µg/L	503.41 ppb	17:23:53
1	Co 228.616†	9623.5	9830.9	509.46 µg/L	509.46 ppb	17:23:53
1	Cr 267.716†	19276.1	19645.9	508.34 µg/L	508.34 ppb	17:23:53
1	Cu 324.752†	72140.9	71239.3	511.58 µg/L	511.58 ppb	17:23:53
1	Mn 257.610†	134913.7	138677.3	505.65 µg/L	505.65 ppb	17:23:53
1	Mo 202.031†	4483.5	4586.2	524.38 µg/L	524.38 ppb	17:24:14
1	Ni 231.604†	7672.6	7557.0	523.49 µg/L	523.49 ppb	17:23:53
1	P 214.914†	1404.9	1197.0	2530.4 µg/L	2530.4 ppb	17:24:14
1	Pb 220.353†	1646.2	1642.6	517.42 µg/L	517.42 ppb	17:24:14
1	S 181.975 Axial†	288.9	275.1	1044.0 µg/L	1044.0 ppb	17:24:14
1	Sb 206.836†	486.5	477.1	511.74 µg/L	511.74 ppb	17:24:14
1	Se 196.026†	414.0	410.6	516.60 µg/L	516.60 ppb	17:24:14
1	SiO2†	25813.0	25045.7	5465.7 µg/L	5465.7 ppb	17:23:53
1	Si 251.611†	30889.7	31262.8	2555.6 µg/L	2555.6 ppb	17:23:53
1	Sn 189.927†	1084.4	1105.7	520.00 µg/L	520.00 ppb	17:24:14
1	Ti 334.940†	185494.2	189928.7	506.38 µg/L	506.38 ppb	17:23:48
1	Tl 190.801†	403.2	438.4	515.39 µg/L	515.39 ppb	17:24:14
1	U 409.014†	5169.9	5142.4	502.81 µg/L	502.81 ppb	17:23:53
1	V 292.402†	39157.2	40243.5	515.91 µg/L	515.91 ppb	17:23:53
1	Zn 213.857†	19269.7	19149.2	510.78 µg/L	510.78 ppb	17:23:53
2	Sc RADIAL	108830.5	108830.5	99.7 %		17:22:51
2	Al 396.153Radial†	10015.3	10224.2	4882.6 µg/L	4882.6 ppb	17:22:51
2	Ca 317.933Radial†	15407.7	15076.6	4889.7 µg/L	4889.7 ppb	17:22:51
2	Fe 238.204 Radial†	674.8	645.8	4871.6 µg/L	4871.6 ppb	17:23:11
2	K 766.490 Radial†	9024.9	8824.9	5008.3 µg/L	5008.3 ppb	17:22:51
2	Mg 279.077 IEC†	503.6	496.6	4961.5 µg/L	4961.5 ppb	17:23:11
2	Na 589.592 Radial†	28697.2	28559.5	9888.5 µg/L	9888.5 ppb	17:22:51
2	Sr 421.552†	111428.7	111652.6	505.67 µg/L	505.67 ppb	17:22:51
2	Sc 361.383	1661535.9	1661535.9	98.744 %		17:24:20
2	Y 371.029	905092.2	905092.2	96.685 %		17:24:20
2	Ag 328.068†	54879.6	56143.6	505.50 µg/L	505.50 ppb	17:24:26
2	As 188.979†	267.6	274.9	505.98 µg/L	505.98 ppb	17:24:46
2	B 249.677†	9429.6	9390.9	496.38 µg/L	496.38 ppb	17:24:26
2	Ba 233.527†	19330.6	19594.4	505.91 µg/L	505.91 ppb	17:24:26
2	Be 313.107†	685956.8	696627.9	498.46 µg/L	498.46 ppb	17:24:20
2	Cd 226.502†	16827.0	17185.3	503.01 µg/L	503.01 ppb	17:24:26
2	Co 228.616†	9702.7	9803.8	508.06 µg/L	508.06 ppb	17:24:26
2	Cr 267.716†	19381.9	19538.3	505.56 µg/L	505.56 ppb	17:24:26
2	Cu 324.752†	72496.9	70796.0	508.41 µg/L	508.41 ppb	17:24:26
2	Mn 257.610†	135840.9	138113.0	503.59 µg/L	503.59 ppb	17:24:26
2	Mo 202.031†	4467.1	4519.5	516.76 µg/L	516.76 ppb	17:24:46
2	Ni 231.604†	7746.1	7545.9	522.72 µg/L	522.72 ppb	17:24:26
2	P 214.914†	1402.3	1178.6	2491.2 µg/L	2491.2 ppb	17:24:46
2	Pb 220.353†	1641.2	1619.2	510.03 µg/L	510.03 ppb	17:24:46



2	S 181.975 Axial†	288.2	271.2	1029.2 µg/L	1029.2 ppb	17:24:46
2	Sb 206.836†	488.4	473.6	507.94 µg/L	507.94 ppb	17:24:46
2	Se 196.026†	415.8	407.8	513.28 µg/L	513.28 ppb	17:24:46
2	SiO2†	26017.3	24965.1	5448.0 µg/L	5448.0 ppb	17:24:26
2	Si 251.611†	31215.1	31248.2	2554.4 µg/L	2554.4 ppb	17:24:26
2	Sn 189.927†	1084.9	1094.1	514.55 µg/L	514.55 ppb	17:24:46
2	Ti 334.940†	186449.0	188828.7	503.44 µg/L	503.44 ppb	17:24:20
2	Tl 190.801†	405.5	436.2	512.75 µg/L	512.75 ppb	17:24:46
2	U 409.014†	5173.2	5088.2	497.50 µg/L	497.50 ppb	17:24:26
2	V 292.402†	39347.4	39999.9	512.76 µg/L	512.76 ppb	17:24:26
2	Zn 213.857†	19360.7	19026.7	507.49 µg/L	507.49 ppb	17:24:26
3	Sc RADIAL	108847.4	108847.4	99.7 %		17:23:17
3	Al 396.153Radial†	10056.5	10264.1	4902.8 µg/L	4902.8 ppb	17:23:17
3	Ca 317.933Radial†	15432.2	15098.7	4896.9 µg/L	4896.9 ppb	17:23:17
3	Fe 238.204 Radial†	670.7	641.6	4839.6 µg/L	4839.6 ppb	17:23:37
3	K 766.490 Radial†	9046.8	8845.4	5019.9 µg/L	5019.9 ppb	17:23:17
3	Mg 279.077 IEC†	501.0	493.8	4933.5 µg/L	4933.5 ppb	17:23:37
3	Na 589.592 Radial†	28669.4	28527.1	9877.3 µg/L	9877.3 ppb	17:23:17
3	Sr 421.552†	111493.3	111700.0	505.88 µg/L	505.88 ppb	17:23:17
3	Sc 361.383	1653379.7	1653379.7	98.259 %		17:24:52
3	Y 371.029	900743.6	900743.6	96.221 %		17:24:52
3	Ag 328.068†	53477.0	54990.3	495.05 µg/L	495.05 ppb	17:24:58
3	As 188.979†	239.2	247.3	455.19 µg/L	455.19 ppb	17:25:18
3	B 249.677†	9201.3	9205.7	486.53 µg/L	486.53 ppb	17:24:58
3	Ba 233.527†	18686.4	19035.4	491.47 µg/L	491.47 ppb	17:24:58
3	Be 313.107†	668771.8	682565.3	488.39 µg/L	488.39 ppb	17:24:52
3	Cd 226.502†	16151.6	16581.9	485.33 µg/L	485.33 ppb	17:24:58
3	Co 228.616†	9313.9	9456.7	490.02 µg/L	490.02 ppb	17:24:58
3	Cr 267.716†	18315.6	18549.9	479.98 µg/L	479.98 ppb	17:24:58
3	Cu 324.752†	69666.6	68277.8	490.35 µg/L	490.35 ppb	17:24:58
3	Mn 257.610†	130415.3	133269.9	485.93 µg/L	485.93 ppb	17:24:58
3	Mo 202.031†	3976.3	4042.4	462.23 µg/L	462.23 ppb	17:25:18
3	Ni 231.604†	7431.8	7264.8	503.25 µg/L	503.25 ppb	17:24:58
3	P 214.914†	1294.0	1075.5	2269.9 µg/L	2269.9 ppb	17:25:18
3	Pb 220.353†	1502.6	1486.4	468.11 µg/L	468.11 ppb	17:25:18
3	S 181.975 Axial†	267.4	251.5	954.34 µg/L	954.34 ppb	17:25:18
3	Sb 206.836†	442.9	429.7	460.48 µg/L	460.48 ppb	17:25:18
3	Se 196.026†	385.5	379.0	477.78 µg/L	477.78 ppb	17:25:18
3	SiO2†	25338.2	24403.9	5325.6 µg/L	5325.6 ppb	17:24:58
3	Si 251.611†	30363.5	30537.4	2496.3 µg/L	2496.3 ppb	17:24:58
3	Sn 189.927†	953.5	965.9	454.29 µg/L	454.29 ppb	17:25:18
3	Ti 334.940†	181530.6	184754.7	492.57 µg/L	492.57 ppb	17:24:52
3	Tl 190.801†	380.8	413.1	485.74 µg/L	485.74 ppb	17:25:18
3	U 409.014†	4947.8	4884.6	477.56 µg/L	477.56 ppb	17:24:58
3	V 292.402†	37518.2	38334.7	491.15 µg/L	491.15 ppb	17:24:58
3	Zn 213.857†	18620.7	18370.3	489.97 µg/L	489.97 ppb	17:24:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1652789.7	98.224 %	0.5382			0.55%
Sc RADIAL	108628.9	99.5 %	0.33			0.33%
Y 371.029	901119.0	96.261 %	0.4059			0.42%
Ag 328.068†	55835.3	502.70 µg/L	6.704	502.70 ppb	6.704	1.33%
QC value within limits for Ag 328.068 Recovery = 100.54%						
Al 396.153Radial†	10227.4	4884.4 µg/L	17.49	4884.4 ppb	17.49	0.36%
QC value within limits for Al 396.153Radial Recovery = 97.69%						
As 188.979†	265.5	488.72 µg/L	29.036	488.72 ppb	29.036	5.94%
QC value within limits for As 188.979 Recovery = 97.74%						
B 249.677†	9350.2	494.22 µg/L	6.867	494.22 ppb	6.867	1.39%
QC value within limits for B 249.677 Recovery = 98.84%						
Ba 233.527†	19423.0	501.49 µg/L	8.695	501.49 ppb	8.695	1.73%
QC value within limits for Ba 233.527 Recovery = 100.30%						
Be 313.107†	692919.4	495.80 µg/L	6.501	495.80 ppb	6.501	1.31%
QC value within limits for Be 313.107 Recovery = 99.16%						
Ca 317.933Radial†	15043.2	4878.9 µg/L	25.22	4878.9 ppb	25.22	0.52%
QC value within limits for Ca 317.933Radial Recovery = 97.58%						
Cd 226.502†	16988.7	497.25 µg/L	10.325	497.25 ppb	10.325	2.08%
QC value within limits for Cd 226.502 Recovery = 99.45%						
Co 228.616†	9697.1	502.52 µg/L	10.842	502.52 ppb	10.842	2.16%

QC value within limits for Co 228.616 Recovery = 100.50%							
Cr 267.716†	19244.7	497.96 µg/L	15.630	497.96 ppb	15.630	3.14%	
QC value within limits for Cr 267.716 Recovery = 99.59%							
Cu 324.752†	70104.4	503.45 µg/L	11.452	503.45 ppb	11.452	2.27%	
QC value within limits for Cu 324.752 Recovery = 100.69%							
Fe 238.204 Radial†	643.3	4852.9 µg/L	16.71	4852.9 ppb	16.71	0.34%	
QC value within limits for Fe 238.204 Radial Recovery = 97.06%							
K 766.490 Radial†	8819.7	5005.3 µg/L	16.20	5005.3 ppb	16.20	0.32%	
QC value within limits for K 766.490 Radial Recovery = 100.11%							
Mg 279.077 IEC†	494.0	4935.3 µg/L	25.32	4935.3 ppb	25.32	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 98.71%							
Mn 257.610†	136686.8	498.39 µg/L	10.840	498.39 ppb	10.840	2.18%	
QC value within limits for Mn 257.610 Recovery = 99.68%							
Mo 202.031†	4382.7	501.12 µg/L	33.901	501.12 ppb	33.901	6.76%	
QC value within limits for Mo 202.031 Recovery = 100.22%							
Na 589.592 Radial†	28505.8	9869.9 µg/L	23.18	9869.9 ppb	23.18	0.23%	
QC value within limits for Na 589.592 Radial Recovery = 98.70%							
Ni 231.604†	7455.9	516.49 µg/L	11.471	516.49 ppb	11.471	2.22%	
QC value within limits for Ni 231.604 Recovery = 103.30%							
P 214.914†	1150.4	2430.5 µg/L	140.44	2430.5 ppb	140.44	5.78%	
QC value within limits for P 214.914 Recovery = 97.22%							
Pb 220.353†	1582.8	498.52 µg/L	26.593	498.52 ppb	26.593	5.33%	
QC value within limits for Pb 220.353 Recovery = 99.70%							
S 181.975 Axial†	265.9	1009.2 µg/L	48.05	1009.2 ppb	48.05	4.76%	
QC value within limits for S 181.975 Axial Recovery = 100.92%							
Sb 206.836†	460.1	493.39 µg/L	28.559	493.39 ppb	28.559	5.79%	
QC value within limits for Sb 206.836 Recovery = 98.68%							
Se 196.026†	399.1	502.55 µg/L	21.521	502.55 ppb	21.521	4.28%	
QC value within limits for Se 196.026 Recovery = 100.51%							
SiO2†	24804.9	5413.1 µg/L	76.30	5413.1 ppb	76.30	1.41%	
QC value within limits for SiO2 Recovery = 101.23%							
Si 251.611†	31016.1	2535.5 µg/L	33.90	2535.5 ppb	33.90	1.34%	
QC value within limits for Si 251.611 Recovery = 101.42%							
Sn 189.927†	1055.2	496.28 µg/L	36.471	496.28 ppb	36.471	7.35%	
QC value within limits for Sn 189.927 Recovery = 99.26%							
Sr 421.552†	111550.2	505.21 µg/L	0.996	505.21 ppb	0.996	0.20%	
QC value within limits for Sr 421.552 Recovery = 101.04%							
Ti 334.940†	187837.4	500.80 µg/L	7.272	500.80 ppb	7.272	1.45%	
QC value within limits for Ti 334.940 Recovery = 100.16%							
Tl 190.801†	429.3	504.63 µg/L	16.414	504.63 ppb	16.414	3.25%	
QC value within limits for Tl 190.801 Recovery = 100.93%							
U 409.014†	5038.4	492.62 µg/L	13.314	492.62 ppb	13.314	2.70%	
QC value within limits for U 409.014 Recovery = 98.52%							
V 292.402†	39526.0	506.61 µg/L	13.477	506.61 ppb	13.477	2.66%	
QC value within limits for V 292.402 Recovery = 101.32%							
Zn 213.857†	18848.7	502.75 µg/L	11.182	502.75 ppb	11.182	2.22%	
QC value within limits for Zn 213.857 Recovery = 100.55%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 17:25:27

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	106676.7	106676.7	97.7 %		17:26:00
1	Al 396.153Radial†	-144.9	26.6	12.730 µg/L	12.730 ppb	17:26:00
1	Ca 317.933Radial†	391.9	17.6	5.7043 µg/L	5.7043 ppb	17:26:20
1	Fe 238.204 Radial†	30.8	0.2	1.7754 µg/L	1.7754 ppb	17:26:20
1	K 766.490 Radial†	180.3	-46.2	-26.206 µg/L	-26.206 ppb	17:26:00
1	Mg 279.077 IEC†	8.8	0.3	2.6052 µg/L	2.6052 ppb	17:26:20
1	Na 589.592 Radial†	279.3	50.7	17.548 µg/L	17.548 ppb	17:26:00
1	Sr 421.552†	150.1	-1.4	-0.0063 µg/L	-0.0063 ppb	17:26:00
1	Sc 361.383	1661905.3	1661905.3	98.766 %		17:27:22
1	Y 371.029	914409.1	914409.1	97.681 %		17:27:22
1	Ag 328.068†	-485.9	73.9	0.6576 µg/L	0.6576 ppb	17:27:28
1	As 188.979†	-4.2	-0.4	-0.7371 µg/L	-0.7371 ppb	17:27:48
1	B 249.677†	173.1	16.6	0.8788 µg/L	0.8788 ppb	17:27:48
1	Ba 233.527†	-23.0	-5.3	-0.1381 µg/L	-0.1381 ppb	17:27:48
1	Be 313.107†	-1948.7	-27.2	-0.0196 µg/L	-0.0196 ppb	17:27:28
1	Cd 226.502†	-145.1	-2.7	-0.0794 µg/L	-0.0794 ppb	17:27:48
1	Co 228.616†	15.9	-6.2	-0.3195 µg/L	-0.3195 ppb	17:27:48
1	Cr 267.716†	61.8	-27.6	-0.7129 µg/L	-0.7129 ppb	17:27:48
1	Cu 324.752†	2533.4	-58.0	-0.4155 µg/L	-0.4155 ppb	17:27:28
1	Mn 257.610†	-545.1	-7.7	-0.0280 µg/L	-0.0280 ppb	17:27:48
1	Mo 202.031†	9.7	5.4	0.6200 µg/L	0.6200 ppb	17:27:48
1	Ni 231.604†	297.6	2.7	0.1884 µg/L	0.1884 ppb	17:27:48
1	P 214.914†	248.3	9.9	21.332 µg/L	21.332 ppb	17:27:48
1	Pb 220.353†	47.1	4.8	1.5244 µg/L	1.5244 ppb	17:27:48
1	S 181.975 Axial†	21.8	1.3	5.1218 µg/L	5.1218 ppb	17:27:48
1	Sb 206.836†	25.2	4.5	4.8039 µg/L	4.8039 ppb	17:27:48
1	Se 196.026†	16.8	3.7	4.5730 µg/L	4.5730 ppb	17:27:48
1	SiO2†	1382.6	16.7	3.6507 µg/L	3.6507 ppb	17:27:28
1	Si 251.611†	371.2	11.9	0.9691 µg/L	0.9691 ppb	17:27:48
1	Sn 189.927†	6.0	1.6	0.7308 µg/L	0.7308 ppb	17:27:48
1	Ti 334.940†	101.9	111.4	0.2969 µg/L	0.2969 ppb	17:27:28
1	Tl 190.801†	-24.2	1.1	1.3073 µg/L	1.3073 ppb	17:27:48
1	U 409.014†	149.6	0.6	0.0611 µg/L	0.0611 ppb	17:27:28
1	V 292.402†	-185.6	-36.0	-0.4525 µg/L	-0.4525 ppb	17:27:28
1	Zn 213.857†	569.0	-4.2	-0.1136 µg/L	-0.1136 ppb	17:27:48
2	Sc RADIAL	106651.8	106651.8	97.7 %		17:26:26
2	Al 396.153Radial†	-179.3	-8.6	-4.1530 µg/L	-4.1530 ppb	17:26:26
2	Ca 317.933Radial†	390.8	16.6	5.3677 µg/L	5.3677 ppb	17:26:46
2	Fe 238.204 Radial†	29.8	-0.8	-5.6785 µg/L	-5.6785 ppb	17:26:46
2	K 766.490 Radial†	230.2	5.0	2.8261 µg/L	2.8261 ppb	17:26:26
2	Mg 279.077 IEC†	7.3	-1.3	-12.735 µg/L	-12.735 ppb	17:26:46
2	Na 589.592 Radial†	273.1	44.4	15.367 µg/L	15.367 ppb	17:26:26
2	Sr 421.552†	104.8	-47.7	-0.2159 µg/L	-0.2159 ppb	17:26:26
2	Sc 361.383	1662182.4	1662182.4	98.782 %		17:27:54
2	Y 371.029	913388.3	913388.3	97.572 %		17:27:54
2	Ag 328.068†	-569.2	-10.3	-0.0940 µg/L	-0.0940 ppb	17:28:00
2	As 188.979†	-6.8	-3.0	-5.5326 µg/L	-5.5326 ppb	17:28:20
2	B 249.677†	168.7	12.2	0.6486 µg/L	0.6486 ppb	17:28:20
2	Ba 233.527†	-24.3	-6.7	-0.1725 µg/L	-0.1725 ppb	17:28:20
2	Be 313.107†	-2011.0	-89.9	-0.0645 µg/L	-0.0645 ppb	17:28:00
2	Cd 226.502†	-142.5	0.0	0.0002 µg/L	0.0002 ppb	17:28:20
2	Co 228.616†	19.7	-2.3	-0.1197 µg/L	-0.1197 ppb	17:28:20
2	Cr 267.716†	67.0	-22.3	-0.5777 µg/L	-0.5777 ppb	17:28:20
2	Cu 324.752†	2556.6	-34.9	-0.2515 µg/L	-0.2515 ppb	17:28:00
2	Mn 257.610†	-547.9	-10.4	-0.0373 µg/L	-0.0373 ppb	17:28:20
2	Mo 202.031†	14.1	9.9	1.1292 µg/L	1.1292 ppb	17:28:20
2	Ni 231.604†	288.2	-6.9	-0.4761 µg/L	-0.4761 ppb	17:28:20
2	P 214.914†	240.9	2.4	5.2747 µg/L	5.2747 ppb	17:28:20
2	Pb 220.353†	40.3	-2.0	-0.6435 µg/L	-0.6435 ppb	17:28:20

2	S 181.975 Axial†	20.0	-0.5	-1.8116 µg/L	-1.8116 ppb	17:28:20
2	Sb 206.836†	25.1	4.3	4.6554 µg/L	4.6554 ppb	17:28:20
2	Se 196.026†	20.5	7.5	9.1844 µg/L	9.1844 ppb	17:28:20
2	SiO2†	1324.4	-42.4	-9.2562 µg/L	-9.2562 ppb	17:28:00
2	Si 251.611†	380.6	21.3	1.7441 µg/L	1.7441 ppb	17:28:20
2	Sn 189.927†	5.9	1.5	0.6808 µg/L	0.6808 ppb	17:28:20
2	Ti 334.940†	68.2	77.2	0.2070 µg/L	0.2070 ppb	17:28:00
2	Tl 190.801†	-24.2	1.1	1.2549 µg/L	1.2549 ppb	17:28:20
2	U 409.014†	234.9	87.0	8.5193 µg/L	8.5193 ppb	17:28:00
2	V 292.402†	-162.0	-12.1	-0.1373 µg/L	-0.1373 ppb	17:28:00
2	Zn 213.857†	571.1	-2.2	-0.0544 µg/L	-0.0544 ppb	17:28:20
3	Sc RADIAL	107269.8	107269.8	98.2 %		17:26:52
3	Al 396.153Radial†	-125.4	47.2	22.605 µg/L	22.605 ppb	17:26:52
3	Ca 317.933Radial†	392.6	16.1	5.2291 µg/L	5.2291 ppb	17:27:12
3	Fe 238.204 Radial†	28.5	-2.3	-17.283 µg/L	-17.283 ppb	17:27:12
3	K 766.490 Radial†	197.0	-30.2	-17.155 µg/L	-17.155 ppb	17:26:52
3	Mg 279.077 IEC†	13.8	5.3	53.074 µg/L	53.074 ppb	17:27:12
3	Na 589.592 Radial†	268.7	38.2	13.239 µg/L	13.239 ppb	17:26:52
3	Sr 421.552†	132.7	-19.9	-0.0901 µg/L	-0.0901 ppb	17:26:52
3	Sc 361.383	1663226.3	1663226.3	98.844 %		17:28:26
3	Y 371.029	916871.7	916871.7	97.944 %		17:28:26
3	Ag 328.068†	-537.3	22.3	0.1976 µg/L	0.1976 ppb	17:28:32
3	As 188.979†	-5.3	-1.5	-2.8582 µg/L	-2.8582 ppb	17:28:52
3	B 249.677†	166.5	9.8	0.5272 µg/L	0.5272 ppb	17:28:52
3	Ba 233.527†	-23.8	-6.2	-0.1590 µg/L	-0.1590 ppb	17:28:52
3	Be 313.107†	-1960.0	-37.1	-0.0267 µg/L	-0.0267 ppb	17:28:32
3	Cd 226.502†	-135.3	7.3	0.2166 µg/L	0.2166 ppb	17:28:52
3	Co 228.616†	15.5	-6.5	-0.3395 µg/L	-0.3395 ppb	17:28:52
3	Cr 267.716†	71.0	-18.3	-0.4744 µg/L	-0.4744 ppb	17:28:52
3	Cu 324.752†	2582.5	-10.3	-0.0774 µg/L	-0.0774 ppb	17:28:32
3	Mn 257.610†	-536.1	1.8	0.0021 µg/L	0.0021 ppb	17:28:52
3	Mo 202.031†	1.1	-3.2	-0.3667 µg/L	-0.3667 ppb	17:28:52
3	Ni 231.604†	295.6	0.4	0.0287 µg/L	0.0287 ppb	17:28:52
3	P 214.914†	254.3	15.8	33.979 µg/L	33.979 ppb	17:28:52
3	Pb 220.353†	33.6	-8.8	-2.7709 µg/L	-2.7709 ppb	17:28:52
3	S 181.975 Axial†	23.6	3.1	11.911 µg/L	11.911 ppb	17:28:52
3	Sb 206.836†	24.9	4.1	4.4258 µg/L	4.4258 ppb	17:28:52
3	Se 196.026†	10.3	-2.9	-3.6511 µg/L	-3.6511 ppb	17:28:52
3	SiO2†	1368.8	1.6	0.3450 µg/L	0.3450 ppb	17:28:32
3	Si 251.611†	385.9	26.4	2.1610 µg/L	2.1610 ppb	17:28:52
3	Sn 189.927†	3.9	-0.6	-0.2605 µg/L	-0.2605 ppb	17:28:52
3	Ti 334.940†	95.7	105.0	0.2759 µg/L	0.2759 ppb	17:28:32
3	Tl 190.801†	-22.2	3.1	3.5953 µg/L	3.5953 ppb	17:28:52
3	U 409.014†	128.0	-21.3	-2.0842 µg/L	-2.0842 ppb	17:28:32
3	V 292.402†	-141.8	8.5	0.1006 µg/L	0.1006 ppb	17:28:32
3	Zn 213.857†	571.5	-2.0	-0.0572 µg/L	-0.0572 ppb	17:28:52

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1662438.0	98.798 %	0.0414			0.04%
Sc RADIAL	106866.1	97.9 %	0.32			0.33%
Y 371.029	914889.7	97.732 %	0.1913			0.20%
Ag 328.068†	28.6	0.2537 µg/L	0.37893	0.2537 ppb	0.37893	149.36%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.7	10.394 µg/L	13.5312	10.394 ppb	13.5312	130.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.6	-3.0426 µg/L	2.40306	-3.0426 ppb	2.40306	78.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	12.9	0.6849 µg/L	0.17860	0.6849 ppb	0.17860	26.08%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-6.1	-0.1565 µg/L	0.01730	-0.1565 ppb	0.01730	11.05%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-51.4	-0.0369 µg/L	0.02412	-0.0369 ppb	0.02412	65.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	16.8	5.4337 µg/L	0.24442	5.4337 ppb	0.24442	4.50%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.5	0.0458 µg/L	0.15314	0.0458 ppb	0.15314	334.43%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.0	-0.2596 µg/L	0.12153	-0.2596 ppb	0.12153	46.82%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-22.7	-0.5884 µg/L	0.11963	-0.5884 ppb	0.11963	20.33%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-34.4	-0.2481 µg/L	0.16908	-0.2481 ppb	0.16908	68.14%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.9	-7.0621 µg/L	9.60439	-7.0621 ppb	9.60439	136.00%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-23.8	-13.512 µg/L	14.8550	-13.512 ppb	14.8550	109.94%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.4	14.315 µg/L	34.4317	14.315 ppb	34.4317	240.53%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-5.4	-0.0211 µg/L	0.02061	-0.0211 ppb	0.02061	97.81%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.0	0.4608 µg/L	0.76056	0.4608 ppb	0.76056	165.04%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	44.4	15.385 µg/L	2.1546	15.385 ppb	2.1546	14.00%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-1.2	-0.0864 µg/L	0.34686	-0.0864 ppb	0.34686	401.58%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	9.4	20.195 µg/L	14.3860	20.195 ppb	14.3860	71.23%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-2.0	-0.6300 µg/L	2.14768	-0.6300 ppb	2.14768	340.90%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.3	5.0738 µg/L	6.86154	5.0738 ppb	6.86154	135.23%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.3	4.6284 µg/L	0.19049	4.6284 ppb	0.19049	4.12%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.8	3.3688 µg/L	6.50190	3.3688 ppb	6.50190	193.01%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-8.0	-1.7535 µg/L	6.70445	-1.7535 ppb	6.70445	382.34%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	19.9	1.6248 µg/L	0.60485	1.6248 ppb	0.60485	37.23%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.8	0.3837 µg/L	0.55846	0.3837 ppb	0.55846	145.54%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-23.0	-0.1041 µg/L	0.10552	-0.1041 ppb	0.10552	101.36%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	97.8	0.2600 µg/L	0.04703	0.2600 ppb	0.04703	18.09%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.8	2.0525 µg/L	1.33638	2.0525 ppb	1.33638	65.11%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	22.1	2.1654 µg/L	5.60617	2.1654 ppb	5.60617	258.90%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-13.2	-0.1631 µg/L	0.27744	-0.1631 ppb	0.27744	170.10%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-2.8	-0.0751 µg/L	0.03342	-0.0751 ppb	0.03342	44.52%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 17:48:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	107661.9	107661.9	98.6 %		17:49:19
1	Al 396.153Radial†	10014.7	10332.7	4934.2 µg/L	4934.2 ppb	17:49:19
1	Ca 317.933Radial†	15547.6	15386.3	4990.1 µg/L	4990.1 ppb	17:49:19
1	Fe 238.204 Radial†	675.1	653.4	4929.5 µg/L	4929.5 ppb	17:49:39
1	K 766.490 Radial†	9077.8	8976.8	5094.5 µg/L	5094.5 ppb	17:49:19
1	Mg 279.077 IEC†	507.2	505.7	5052.6 µg/L	5052.6 ppb	17:49:39
1	Na 589.592 Radial†	28184.2	28351.8	9816.5 µg/L	9816.5 ppb	17:49:19
1	Sr 421.552†	110546.2	111971.1	507.11 µg/L	507.11 ppb	17:49:19
1	Sc 361.383	1655646.3	1655646.3	98.394 %		17:50:42
1	Y 371.029	905594.9	905594.9	96.739 %		17:50:42
1	Ag 328.068†	54949.6	56412.4	507.95 µg/L	507.95 ppb	17:50:48
1	As 188.979†	271.4	279.7	514.88 µg/L	514.88 ppb	17:51:08
1	B 249.677†	9464.6	9460.4	500.05 µg/L	500.05 ppb	17:50:48
1	Ba 233.527†	19491.5	19827.5	511.93 µg/L	511.93 ppb	17:50:48
1	Be 313.107†	699433.6	712795.8	510.03 µg/L	510.03 ppb	17:50:42
1	Cd 226.502†	17022.3	17444.4	510.59 µg/L	510.59 ppb	17:50:48
1	Co 228.616†	9793.1	9930.7	514.63 µg/L	514.63 ppb	17:50:48
1	Cr 267.716†	19577.1	19806.4	512.49 µg/L	512.49 ppb	17:50:48
1	Cu 324.752†	72510.2	71070.7	510.39 µg/L	510.39 ppb	17:50:48
1	Mn 257.610†	139491.0	142312.1	518.90 µg/L	518.90 ppb	17:50:42
1	Mo 202.031†	4569.3	4639.5	530.48 µg/L	530.48 ppb	17:51:08
1	Ni 231.604†	7839.5	7668.8	531.24 µg/L	531.24 ppb	17:50:48
1	P 214.914†	1434.4	1216.4	2572.4 µg/L	2572.4 ppb	17:51:08
1	Pb 220.353†	1687.0	1671.7	526.58 µg/L	526.58 ppb	17:51:08
1	S 181.975 Axial†	293.2	277.3	1052.6 µg/L	1052.6 ppb	17:51:08
1	Sb 206.836†	499.8	487.0	522.32 µg/L	522.32 ppb	17:51:08
1	Se 196.026†	434.4	428.2	538.46 µg/L	538.46 ppb	17:51:08
1	SiO2†	25936.5	24976.7	5450.6 µg/L	5450.6 ppb	17:50:48
1	Si 251.611†	31065.9	31208.9	2551.2 µg/L	2551.2 ppb	17:50:48
1	Sn 189.927†	1113.6	1127.3	530.15 µg/L	530.15 ppb	17:51:08
1	Ti 334.940†	189180.4	192276.4	512.63 µg/L	512.63 ppb	17:50:42
1	Tl 190.801†	412.4	444.7	522.74 µg/L	522.74 ppb	17:51:08
1	U 409.014†	5238.7	5173.4	505.83 µg/L	505.83 ppb	17:50:48
1	V 292.402†	39673.5	40473.0	518.89 µg/L	518.89 ppb	17:50:48
1	Zn 213.857†	19516.8	19255.1	513.58 µg/L	513.58 ppb	17:50:48
2	Sc RADIAL	107534.0	107534.0	98.5 %		17:49:45
2	Al 396.153Radial†	10005.4	10335.4	4935.6 µg/L	4935.6 ppb	17:49:45
2	Ca 317.933Radial†	15503.0	15359.7	4981.5 µg/L	4981.5 ppb	17:49:45
2	Fe 238.204 Radial†	672.6	651.8	4917.0 µg/L	4917.0 ppb	17:50:06
2	K 766.490 Radial†	9080.8	8990.8	5102.4 µg/L	5102.4 ppb	17:49:45
2	Mg 279.077 IEC†	502.0	501.0	5006.1 µg/L	5006.1 ppb	17:50:06
2	Na 589.592 Radial†	28159.9	28361.1	9819.8 µg/L	9819.8 ppb	17:49:45
2	Sr 421.552†	110444.4	112001.1	507.25 µg/L	507.25 ppb	17:49:45
2	Sc 361.383	1652749.7	1652749.7	98.222 %		17:51:14
2	Y 371.029	905520.6	905520.6	96.731 %		17:51:14
2	Ag 328.068†	55344.4	56912.3	512.43 µg/L	512.43 ppb	17:51:20
2	As 188.979†	274.7	283.6	521.95 µg/L	521.95 ppb	17:51:40
2	B 249.677†	9577.1	9591.9	507.03 µg/L	507.03 ppb	17:51:20
2	Ba 233.527†	19547.9	19919.7	514.31 µg/L	514.31 ppb	17:51:20
2	Be 313.107†	699964.2	714581.8	511.30 µg/L	511.30 ppb	17:51:14
2	Cd 226.502†	17146.2	17600.9	515.18 µg/L	515.18 ppb	17:51:20
2	Co 228.616†	9861.9	10018.2	519.17 µg/L	519.17 ppb	17:51:20
2	Cr 267.716†	19729.2	19996.2	517.40 µg/L	517.40 ppb	17:51:20
2	Cu 324.752†	73172.5	71874.1	516.15 µg/L	516.15 ppb	17:51:20
2	Mn 257.610†	139682.8	142755.8	520.52 µg/L	520.52 ppb	17:51:14
2	Mo 202.031†	4505.5	4582.7	523.98 µg/L	523.98 ppb	17:51:40
2	Ni 231.604†	7892.5	7736.7	535.94 µg/L	535.94 ppb	17:51:20
2	P 214.914†	1407.5	1191.5	2518.1 µg/L	2518.1 ppb	17:51:40
2	Pb 220.353†	1649.4	1636.4	515.45 µg/L	515.45 ppb	17:51:40

2	S 181.975 Axial†	287.8	272.3	1033.4 µg/L	1033.4 ppb	17:51:40
2	Sb 206.836†	485.5	473.3	507.58 µg/L	507.58 ppb	17:51:40
2	Se 196.026†	429.5	423.9	533.20 µg/L	533.20 ppb	17:51:40
2	SiO2†	26176.5	25267.2	5514.0 µg/L	5514.0 ppb	17:51:20
2	Si 251.611†	31341.2	31544.6	2578.7 µg/L	2578.7 ppb	17:51:20
2	Sn 189.927†	1100.5	1115.9	524.78 µg/L	524.78 ppb	17:51:40
2	Ti 334.940†	189172.9	192605.7	513.51 µg/L	513.51 ppb	17:51:14
2	Tl 190.801†	405.3	438.2	515.20 µg/L	515.20 ppb	17:51:40
2	U 409.014†	5241.7	5185.8	507.04 µg/L	507.04 ppb	17:51:20
2	V 292.402†	39863.5	40737.1	522.19 µg/L	522.19 ppb	17:51:20
2	Zn 213.857†	19621.4	19396.3	517.34 µg/L	517.34 ppb	17:51:20
3	Sc RADIAL	107357.2	107357.2	98.3 %		17:50:11
3	Al 396.153Radial†	10062.7	10410.4	4973.0 µg/L	4973.0 ppb	17:50:11
3	Ca 317.933Radial†	15545.7	15429.1	5004.0 µg/L	5004.0 ppb	17:50:11
3	Fe 238.204 Radial†	674.0	654.3	4935.1 µg/L	4935.1 ppb	17:50:32
3	K 766.490 Radial†	9039.1	8963.5	5087.0 µg/L	5087.0 ppb	17:50:11
3	Mg 279.077 IEC†	505.4	505.3	5047.6 µg/L	5047.6 ppb	17:50:32
3	Na 589.592 Radial†	28355.9	28607.5	9905.1 µg/L	9905.1 ppb	17:50:11
3	Sr 421.552†	110837.2	112585.3	509.89 µg/L	509.89 ppb	17:50:11
3	Sc 361.383	1676649.7	1676649.7	99.642 %		17:51:46
3	Y 371.029	918573.8	918573.8	98.125 %		17:51:46
3	Ag 328.068†	53037.7	53794.1	484.30 µg/L	484.30 ppb	17:51:52
3	As 188.979†	244.9	249.6	459.51 µg/L	459.51 ppb	17:52:13
3	B 249.677†	9145.8	9020.0	476.61 µg/L	476.61 ppb	17:51:52
3	Ba 233.527†	18448.4	18532.6	478.49 µg/L	478.49 ppb	17:51:52
3	Be 313.107†	673041.3	677403.9	484.70 µg/L	484.70 ppb	17:51:46
3	Cd 226.502†	16059.5	16261.4	475.93 µg/L	475.93 ppb	17:51:52
3	Co 228.616†	9205.0	9215.8	477.53 µg/L	477.53 ppb	17:51:52
3	Cr 267.716†	18192.5	18167.6	470.09 µg/L	470.09 ppb	17:51:52
3	Cu 324.752†	68660.3	66283.8	476.08 µg/L	476.08 ppb	17:51:52
3	Mn 257.610†	134644.0	135671.7	494.69 µg/L	494.69 ppb	17:51:46
3	Mo 202.031†	3976.9	3986.8	455.88 µg/L	455.88 ppb	17:52:13
3	Ni 231.604†	7400.9	7128.8	493.84 µg/L	493.84 ppb	17:51:52
3	P 214.914†	1295.0	1058.2	2234.1 µg/L	2234.1 ppb	17:52:13
3	Pb 220.353†	1512.5	1475.1	464.56 µg/L	464.56 ppb	17:52:13
3	S 181.975 Axial†	266.2	246.5	935.55 µg/L	935.55 ppb	17:52:13
3	Sb 206.836†	438.4	418.9	448.97 µg/L	448.97 ppb	17:52:13
3	Se 196.026†	380.6	368.7	465.32 µg/L	465.32 ppb	17:52:13
3	SiO2†	24848.6	23554.6	5140.3 µg/L	5140.3 ppb	17:51:52
3	Si 251.611†	29720.2	29463.0	2408.5 µg/L	2408.5 ppb	17:51:52
3	Sn 189.927†	956.0	954.9	449.13 µg/L	449.13 ppb	17:52:13
3	Ti 334.940†	181734.9	182395.6	486.27 µg/L	486.27 ppb	17:51:46
3	Tl 190.801†	375.3	402.2	473.05 µg/L	473.05 ppb	17:52:13
3	U 409.014†	4842.2	4708.8	460.31 µg/L	460.31 ppb	17:51:52
3	V 292.402†	37081.2	37366.3	478.80 µg/L	478.80 ppb	17:51:52
3	Zn 213.857†	18439.5	17925.4	478.08 µg/L	478.08 ppb	17:51:52

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1661681.9	98.753 %	0.7751			0.78%
Sc RADIAL	107517.7	98.5 %	0.14			0.14%
Y 371.029	909896.5	97.199 %	0.8028			0.83%
Ag 328.068†	55706.3	501.56 µg/L	15.115	501.56 ppb	15.115	3.01%
QC value within limits for Ag 328.068 Recovery = 100.31%						
Al 396.153Radial†	10359.5	4947.6 µg/L	21.97	4947.6 ppb	21.97	0.44%
QC value within limits for Al 396.153Radial Recovery = 98.95%						
As 188.979†	271.0	498.78 µg/L	34.191	498.78 ppb	34.191	6.85%
QC value within limits for As 188.979 Recovery = 99.76%						
B 249.677†	9357.4	494.56 µg/L	15.933	494.56 ppb	15.933	3.22%
QC value within limits for B 249.677 Recovery = 98.91%						
Ba 233.527†	19426.6	501.58 µg/L	20.032	501.58 ppb	20.032	3.99%
QC value within limits for Ba 233.527 Recovery = 100.32%						
Be 313.107†	701593.8	502.01 µg/L	15.003	502.01 ppb	15.003	2.99%
QC value within limits for Be 313.107 Recovery = 100.40%						
Ca 317.933Radial†	15391.7	4991.9 µg/L	11.35	4991.9 ppb	11.35	0.23%
QC value within limits for Ca 317.933Radial Recovery = 99.84%						
Cd 226.502†	17102.2	500.56 µg/L	21.461	500.56 ppb	21.461	4.29%
QC value within limits for Cd 226.502 Recovery = 100.11%						
Co 228.616†	9721.6	503.78 µg/L	22.842	503.78 ppb	22.842	4.53%

QC value within limits for Co 228.616 Recovery = 100.76%							
Cr 267.716†	19323.4	500.00 µg/L	26.015	500.00 ppb	26.015	5.20%	
QC value within limits for Cr 267.716 Recovery = 100.00%							
Cu 324.752†	69742.9	500.87 µg/L	21.665	500.87 ppb	21.665	4.33%	
QC value within limits for Cu 324.752 Recovery = 100.17%							
Fe 238.204 Radial†	653.2	4927.2 µg/L	9.29	4927.2 ppb	9.29	0.19%	
QC value within limits for Fe 238.204 Radial Recovery = 98.54%							
K 766.490 Radial†	8977.0	5094.6 µg/L	7.73	5094.6 ppb	7.73	0.15%	
QC value within limits for K 766.490 Radial Recovery = 101.89%							
Mg 279.077 IEC†	504.0	5035.4 µg/L	25.51	5035.4 ppb	25.51	0.51%	
QC value within limits for Mg 279.077 IEC Recovery = 100.71%							
Mn 257.610†	140246.5	511.37 µg/L	14.470	511.37 ppb	14.470	2.83%	
QC value within limits for Mn 257.610 Recovery = 102.27%							
Mo 202.031†	4403.0	503.45 µg/L	41.322	503.45 ppb	41.322	8.21%	
QC value within limits for Mo 202.031 Recovery = 100.69%							
Na 589.592 Radial†	28440.1	9847.1 µg/L	50.23	9847.1 ppb	50.23	0.51%	
QC value within limits for Na 589.592 Radial Recovery = 98.47%							
Ni 231.604†	7511.4	520.34 µg/L	23.072	520.34 ppb	23.072	4.43%	
QC value within limits for Ni 231.604 Recovery = 104.07%							
P 214.914†	1155.3	2441.5 µg/L	181.71	2441.5 ppb	181.71	7.44%	
QC value within limits for P 214.914 Recovery = 97.66%							
Pb 220.353†	1594.4	502.20 µg/L	33.066	502.20 ppb	33.066	6.58%	
QC value within limits for Pb 220.353 Recovery = 100.44%							
S 181.975 Axial†	265.4	1007.2 µg/L	62.76	1007.2 ppb	62.76	6.23%	
QC value within limits for S 181.975 Axial Recovery = 100.72%							
Sb 206.836†	459.7	492.96 µg/L	38.798	492.96 ppb	38.798	7.87%	
QC value within limits for Sb 206.836 Recovery = 98.59%							
Se 196.026†	406.9	512.32 µg/L	40.793	512.32 ppb	40.793	7.96%	
QC value within limits for Se 196.026 Recovery = 102.46%							
SiO2†	24599.5	5368.3 µg/L	200.00	5368.3 ppb	200.00	3.73%	
QC value within limits for SiO2 Recovery = 100.39%							
Si 251.611†	30738.8	2512.8 µg/L	91.36	2512.8 ppb	91.36	3.64%	
QC value within limits for Si 251.611 Recovery = 100.51%							
Sn 189.927†	1066.0	501.35 µg/L	45.306	501.35 ppb	45.306	9.04%	
QC value within limits for Sn 189.927 Recovery = 100.27%							
Sr 421.552†	112185.9	508.09 µg/L	1.568	508.09 ppb	1.568	0.31%	
QC value within limits for Sr 421.552 Recovery = 101.62%							
Ti 334.940†	189092.6	504.14 µg/L	15.479	504.14 ppb	15.479	3.07%	
QC value within limits for Ti 334.940 Recovery = 100.83%							
Tl 190.801†	428.4	503.67 µg/L	26.778	503.67 ppb	26.778	5.32%	
QC value within limits for Tl 190.801 Recovery = 100.73%							
U 409.014†	5022.6	491.06 µg/L	26.636	491.06 ppb	26.636	5.42%	
QC value within limits for U 409.014 Recovery = 98.21%							
V 292.402†	39525.5	506.62 µg/L	24.158	506.62 ppb	24.158	4.77%	
QC value within limits for V 292.402 Recovery = 101.32%							
Zn 213.857†	18859.0	503.00 µg/L	21.665	503.00 ppb	21.665	4.31%	
QC value within limits for Zn 213.857 Recovery = 100.60%							
All analyte(s) passed QC.							



Sequence No.: 7

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 17:52:22

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	108958.0	108958.0	99.8 %		17:52:55
1	Al 396.153Radial†	-170.5	4.0	1.9250 µg/L	1.9250 ppb	17:52:55
1	Ca 317.933Radial†	401.3	18.6	6.0471 µg/L	6.0471 ppb	17:53:15
1	Fe 238.204 Radial†	29.3	-1.9	-14.369 µg/L	-14.369 ppb	17:53:15
1	K 766.490 Radial†	266.3	36.1	20.502 µg/L	20.502 ppb	17:52:55
1	Mg 279.077 IEC†	8.9	0.1	1.5032 µg/L	1.5032 ppb	17:53:15
1	Na 589.592 Radial†	329.2	94.6	32.771 µg/L	32.771 ppb	17:52:55
1	Sr 421.552†	152.9	-1.7	-0.0078 µg/L	-0.0078 ppb	17:52:55
1	Sc 361.383	1698441.3	1698441.3	100.94 %		17:54:17
1	Y 371.029	939018.6	939018.6	100.31 %		17:54:17
1	Ag 328.068†	-527.5	43.4	0.3857 µg/L	0.3857 ppb	17:54:23
1	As 188.979†	-5.6	-1.7	-3.0563 µg/L	-3.0563 ppb	17:54:43
1	B 249.677†	168.4	8.2	0.4399 µg/L	0.4399 ppb	17:54:43
1	Ba 233.527†	-25.2	-7.0	-0.1808 µg/L	-0.1808 ppb	17:54:43
1	Be 313.107†	-1970.5	-6.4	-0.0046 µg/L	-0.0046 ppb	17:54:23
1	Cd 226.502†	-139.2	6.3	0.1845 µg/L	0.1845 ppb	17:54:43
1	Co 228.616†	15.8	-6.6	-0.3399 µg/L	-0.3399 ppb	17:54:43
1	Cr 267.716†	76.6	-14.3	-0.3686 µg/L	-0.3686 ppb	17:54:43
1	Cu 324.752†	2618.8	-28.6	-0.2074 µg/L	-0.2074 ppb	17:54:23
1	Mn 257.610†	-559.6	-10.2	-0.0381 µg/L	-0.0381 ppb	17:54:43
1	Mo 202.031†	6.7	2.3	0.2624 µg/L	0.2624 ppb	17:54:43
1	Ni 231.604†	292.5	-8.8	-0.6114 µg/L	-0.6114 ppb	17:54:43
1	P 214.914†	248.9	5.1	10.993 µg/L	10.993 ppb	17:54:43
1	Pb 220.353†	45.2	2.0	0.6155 µg/L	0.6155 ppb	17:54:43
1	S 181.975 Axial†	22.6	1.7	6.3939 µg/L	6.3939 ppb	17:54:43
1	Sb 206.836†	26.7	5.4	5.7664 µg/L	5.7664 ppb	17:54:43
1	Se 196.026†	14.7	1.2	1.4285 µg/L	1.4285 ppb	17:54:43
1	SiO2†	1363.8	-32.0	-6.9889 µg/L	-6.9889 ppb	17:54:23
1	Si 251.611†	350.4	-16.8	-1.3762 µg/L	-1.3762 ppb	17:54:43
1	Sn 189.927†	11.3	6.6	3.1103 µg/L	3.1103 ppb	17:54:43
1	Ti 334.940†	13.0	21.0	0.0561 µg/L	0.0561 ppb	17:54:23
1	Tl 190.801†	-29.3	-3.4	-4.0001 µg/L	-4.0001 ppb	17:54:43
1	U 409.014†	215.3	62.4	6.1173 µg/L	6.1173 ppb	17:54:23
1	V 292.402†	-150.5	2.8	0.0430 µg/L	0.0430 ppb	17:54:23
1	Zn 213.857†	581.2	-4.5	-0.1163 µg/L	-0.1163 ppb	17:54:43
2	Sc RADIAL	109044.8	109044.8	99.9 %		17:53:21
2	Al 396.153Radial†	-152.3	22.4	10.696 µg/L	10.696 ppb	17:53:21
2	Ca 317.933Radial†	398.6	15.6	5.0634 µg/L	5.0634 ppb	17:53:41
2	Fe 238.204 Radial†	31.8	0.6	4.2755 µg/L	4.2755 ppb	17:53:41
2	K 766.490 Radial†	273.3	42.9	24.372 µg/L	24.372 ppb	17:53:21
2	Mg 279.077 IEC†	9.1	0.4	3.8122 µg/L	3.8122 ppb	17:53:41
2	Na 589.592 Radial†	224.2	-10.7	-3.7153 µg/L	-3.7153 ppb	17:53:21
2	Sr 421.552†	142.2	-12.6	-0.0570 µg/L	-0.0570 ppb	17:53:21
2	Sc 361.383	1700502.4	1700502.4	101.06 %		17:54:49
2	Y 371.029	933325.6	933325.6	99.701 %		17:54:49
2	Ag 328.068†	-514.8	56.5	0.5087 µg/L	0.5087 ppb	17:54:55
2	As 188.979†	-2.5	1.4	2.5114 µg/L	2.5114 ppb	17:55:15
2	B 249.677†	167.4	7.0	0.3690 µg/L	0.3690 ppb	17:55:15
2	Ba 233.527†	-25.2	-7.0	-0.1790 µg/L	-0.1790 ppb	17:55:15
2	Be 313.107†	-1993.8	-27.1	-0.0195 µg/L	-0.0195 ppb	17:54:55
2	Cd 226.502†	-131.5	14.1	0.4108 µg/L	0.4108 ppb	17:55:15
2	Co 228.616†	20.8	-1.7	-0.0873 µg/L	-0.0873 ppb	17:55:15
2	Cr 267.716†	68.7	-22.2	-0.5743 µg/L	-0.5743 ppb	17:55:15
2	Cu 324.752†	2587.2	-63.0	-0.4505 µg/L	-0.4505 ppb	17:54:55
2	Mn 257.610†	-548.6	1.4	0.0049 µg/L	0.0049 ppb	17:55:15
2	Mo 202.031†	10.3	5.8	0.6642 µg/L	0.6642 ppb	17:55:15
2	Ni 231.604†	291.7	-10.0	-0.6938 µg/L	-0.6938 ppb	17:55:15
2	P 214.914†	249.8	5.7	12.439 µg/L	12.439 ppb	17:55:15
2	Pb 220.353†	42.7	-0.6	-0.1767 µg/L	-0.1767 ppb	17:55:15

2	S 181.975 Axial†	20.6	-0.3	-1.0395 µg/L	-1.0395 ppb	17:55:15
2	Sb 206.836†	27.6	6.3	6.7511 µg/L	6.7511 ppb	17:55:15
2	Se 196.026†	14.2	0.7	0.9050 µg/L	0.9050 ppb	17:55:15
2	SiO2†	1343.4	-53.9	-11.757 µg/L	-11.757 ppb	17:54:55
2	Si 251.611†	356.7	-11.1	-0.9040 µg/L	-0.9040 ppb	17:55:15
2	Sn 189.927†	8.9	4.3	2.0086 µg/L	2.0086 ppb	17:55:15
2	Ti 334.940†	86.4	93.6	0.2496 µg/L	0.2496 ppb	17:54:55
2	Tl 190.801†	-21.4	4.4	5.1416 µg/L	5.1416 ppb	17:55:15
2	U 409.014†	139.6	-12.7	-1.2408 µg/L	-1.2408 ppb	17:54:55
2	V 292.402†	-114.0	39.1	0.4986 µg/L	0.4986 ppb	17:54:55
2	Zn 213.857†	580.6	-5.8	-0.1519 µg/L	-0.1519 ppb	17:55:15
3	Sc RADIAL	108437.0	108437.0	99.3 %		17:53:47
3	Al 396.153Radial†	-173.5	0.2	0.0593 µg/L	0.0593 ppb	17:53:47
3	Ca 317.933Radial†	395.8	15.1	4.8827 µg/L	4.8827 ppb	17:54:07
3	Fe 238.204 Radial†	29.1	-2.0	-15.179 µg/L	-15.179 ppb	17:54:07
3	K 766.490 Radial†	185.1	-44.4	-25.174 µg/L	-25.174 ppb	17:53:47
3	Mg 279.077 IEC†	12.3	3.6	36.243 µg/L	36.243 ppb	17:54:07
3	Na 589.592 Radial†	249.8	16.3	5.6321 µg/L	5.6321 ppb	17:53:47
3	Sr 421.552†	120.3	-33.9	-0.1534 µg/L	-0.1534 ppb	17:53:47
3	Sc 361.383	1711786.9	1711786.9	101.73 %		17:55:21
3	Y 371.029	942954.0	942954.0	100.73 %		17:55:21
3	Ag 328.068†	-520.8	54.0	0.4823 µg/L	0.4823 ppb	17:55:27
3	As 188.979†	-6.4	-2.5	-4.5451 µg/L	-4.5451 ppb	17:55:47
3	B 249.677†	153.6	-7.6	-0.3965 µg/L	-0.3965 ppb	17:55:47
3	Ba 233.527†	-28.8	-10.4	-0.2670 µg/L	-0.2670 ppb	17:55:47
3	Be 313.107†	-1992.4	-12.7	-0.0091 µg/L	-0.0091 ppb	17:55:27
3	Cd 226.502†	-141.2	5.4	0.1583 µg/L	0.1583 ppb	17:55:47
3	Co 228.616†	16.2	-6.3	-0.3280 µg/L	-0.3280 ppb	17:55:47
3	Cr 267.716†	74.8	-16.6	-0.4298 µg/L	-0.4298 ppb	17:55:47
3	Cu 324.752†	2629.5	-38.3	-0.2771 µg/L	-0.2771 ppb	17:55:27
3	Mn 257.610†	-543.5	10.0	0.0331 µg/L	0.0331 ppb	17:55:47
3	Mo 202.031†	10.9	6.4	0.7310 µg/L	0.7310 ppb	17:55:47
3	Ni 231.604†	287.6	-15.9	-1.1057 µg/L	-1.1057 ppb	17:55:47
3	P 214.914†	251.0	5.2	11.287 µg/L	11.287 ppb	17:55:47
3	Pb 220.353†	38.1	-5.4	-1.6953 µg/L	-1.6953 ppb	17:55:47
3	S 181.975 Axial†	18.1	-2.9	-10.819 µg/L	-10.819 ppb	17:55:47
3	Sb 206.836†	22.0	0.6	0.6800 µg/L	0.6800 ppb	17:55:47
3	Se 196.026†	20.7	7.0	8.5534 µg/L	8.5534 ppb	17:55:47
3	SiO2†	1376.9	-29.7	-6.4812 µg/L	-6.4812 ppb	17:55:27
3	Si 251.611†	365.7	-4.5	-0.3701 µg/L	-0.3701 ppb	17:55:47
3	Sn 189.927†	4.9	0.3	0.1510 µg/L	0.1510 ppb	17:55:47
3	Ti 334.940†	33.0	40.6	0.1055 µg/L	0.1055 ppb	17:55:27
3	Tl 190.801†	-27.7	-1.7	-1.9454 µg/L	-1.9454 ppb	17:55:47
3	U 409.014†	157.9	4.3	0.4275 µg/L	0.4275 ppb	17:55:27
3	V 292.402†	-130.5	23.6	0.3041 µg/L	0.3041 ppb	17:55:27
3	Zn 213.857†	572.7	-17.4	-0.4622 µg/L	-0.4622 ppb	17:55:47

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1703576.9	101.24 %	0.427			0.42%
Sc RADIAL	108813.3	99.6 %	0.30			0.30%
Y 371.029	938432.8	100.25 %	0.517			0.52%
Ag 328.068†	51.3	0.4589 µg/L	0.06477	0.4589 ppb	0.06477	14.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.9	4.2266 µg/L	5.67939	4.2266 ppb	5.67939	134.37%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-1.6967 µg/L	3.71954	-1.6967 ppb	3.71954	219.23%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.5	0.1375 µg/L	0.46376	0.1375 ppb	0.46376	337.34%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.1	-0.2089 µg/L	0.05028	-0.2089 ppb	0.05028	24.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-15.4	-0.0111 µg/L	0.00766	-0.0111 ppb	0.00766	69.22%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	16.4	5.3311 µg/L	0.62666	5.3311 ppb	0.62666	11.75%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.6	0.2512 µg/L	0.13883	0.2512 ppb	0.13883	55.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.9	-0.2517 µg/L	0.14252	-0.2517 ppb	0.14252	56.62%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-17.7	-0.4576 µg/L	0.10563	-0.4576 ppb	0.10563	23.08%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-43.3	-0.3116 µg/L	0.12518	-0.3116 ppb	0.12518	40.17%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.1	-8.4242 µg/L	11.00570	-8.4242 ppb	11.00570	130.64%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	11.6	6.5666 µg/L	27.55600	6.5666 ppb	27.55600	419.64%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.4	13.853 µg/L	19.4249	13.853 ppb	19.4249	140.22%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	0.4	0.0000 µg/L	0.03586	0.0000 ppb	0.03586	>999.9%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.8	0.5525 µg/L	0.25346	0.5525 ppb	0.25346	45.87%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	33.4	11.562 µg/L	18.9521	11.562 ppb	18.9521	163.91%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-11.6	-0.8036 µg/L	0.26483	-0.8036 ppb	0.26483	32.95%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	5.3	11.573 µg/L	0.7641	11.573 ppb	0.7641	6.60%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-1.3	-0.4188 µg/L	1.17429	-0.4188 ppb	1.17429	280.38%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.5	-1.8216 µg/L	8.63320	-1.8216 ppb	8.63320	473.93%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.1	4.3992 µg/L	3.25832	4.3992 ppb	3.25832	74.07%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.0	3.6290 µg/L	4.27274	3.6290 ppb	4.27274	117.74%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-38.5	-8.4092 µg/L	2.91075	-8.4092 ppb	2.91075	34.61%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-10.8	-0.8834 µg/L	0.50335	-0.8834 ppb	0.50335	56.98%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.7	1.7566 µg/L	1.49561	1.7566 ppb	1.49561	85.14%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-16.1	-0.0727 µg/L	0.07408	-0.0727 ppb	0.07408	101.83%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	51.8	0.1371 µg/L	0.10052	0.1371 ppb	0.10052	73.34%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.2	-0.2680 µg/L	4.79614	-0.2680 ppb	4.79614	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	18.0	1.7680 µg/L	3.85786	1.7680 ppb	3.85786	218.20%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	21.9	0.2819 µg/L	0.22858	0.2819 ppb	0.22858	81.09%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-9.2	-0.2435 µg/L	0.19025	-0.2435 ppb	0.19025	78.14%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 18:21:05

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	111217.0	111217.0	102 %		18:21:43
1	Al 396.153Radial†	9911.1	9906.3	4730.6 µg/L	4730.6 ppb	18:21:43
1	Ca 317.933Radial†	15510.6	14845.8	4814.9 µg/L	4814.9 ppb	18:21:43
1	Fe 238.204 Radial†	672.3	628.9	4744.1 µg/L	4744.1 ppb	18:22:03
1	K 766.490 Radial†	8979.5	8586.0	4872.7 µg/L	4872.7 ppb	18:21:43
1	Mg 279.077 IEC†	504.7	486.8	4864.1 µg/L	4864.1 ppb	18:22:03
1	Na 589.592 Radial†	27266.3	26536.7	9188.1 µg/L	9188.1 ppb	18:21:43
1	Sr 421.552†	107182.6	105084.5	475.92 µg/L	475.92 ppb	18:21:43
1	Sc 361.383	1727283.3	1727283.3	102.65 %		18:23:07
1	Y 371.029	951505.4	951505.4	101.64 %		18:23:07
1	Ag 328.068†	55156.7	54298.0	488.89 µg/L	488.89 ppb	18:23:13
1	As 188.979†	277.4	274.1	504.49 µg/L	504.49 ppb	18:23:33
1	B 249.677†	9541.2	9136.1	482.91 µg/L	482.91 ppb	18:23:13
1	Ba 233.527†	19647.5	19158.0	494.64 µg/L	494.64 ppb	18:23:13
1	Be 313.107†	705903.4	689616.8	493.44 µg/L	493.44 ppb	18:23:07
1	Cd 226.502†	17250.5	16949.2	496.10 µg/L	496.10 ppb	18:23:13
1	Co 228.616†	9910.9	9632.7	499.20 µg/L	499.20 ppb	18:23:13
1	Cr 267.716†	19736.8	19136.9	495.17 µg/L	495.17 ppb	18:23:13
1	Cu 324.752†	72443.5	67949.3	487.98 µg/L	487.98 ppb	18:23:13
1	Mn 257.610†	140673.8	137584.7	501.66 µg/L	501.66 ppb	18:23:07
1	Mo 202.031†	4581.4	4458.7	509.80 µg/L	509.80 ppb	18:23:33
1	Ni 231.604†	7882.9	7380.7	511.27 µg/L	511.27 ppb	18:23:13
1	P 214.914†	1445.9	1167.0	2468.3 µg/L	2468.3 ppb	18:23:33
1	Pb 220.353†	1693.9	1607.3	506.30 µg/L	506.30 ppb	18:23:33
1	S 181.975 Axial†	298.4	270.0	1024.7 µg/L	1024.7 ppb	18:23:33
1	Sb 206.836†	498.2	464.3	498.05 µg/L	498.05 ppb	18:23:33
1	Se 196.026†	445.4	420.5	528.57 µg/L	528.57 ppb	18:23:33
1	SiO2†	26108.6	24051.1	5248.6 µg/L	5248.6 ppb	18:23:13
1	Si 251.611†	31320.5	30147.6	2464.5 µg/L	2464.5 ppb	18:23:13
1	Sn 189.927†	1123.9	1090.3	512.77 µg/L	512.77 ppb	18:23:33
1	Ti 334.940†	189723.0	184830.9	492.78 µg/L	492.78 ppb	18:23:07
1	Tl 190.801†	418.1	432.9	508.78 µg/L	508.78 ppb	18:23:33
1	U 409.014†	5123.6	4840.4	473.25 µg/L	473.25 ppb	18:23:13
1	V 292.402†	39636.2	38764.4	496.99 µg/L	496.99 ppb	18:23:13
1	Zn 213.857†	19706.0	18616.8	496.57 µg/L	496.57 ppb	18:23:13
2	Sc RADIAL	111249.8	111249.8	102 %		18:22:09
2	Al 396.153Radial†	9910.5	9902.8	4728.9 µg/L	4728.9 ppb	18:22:09
2	Ca 317.933Radial†	15528.0	14858.4	4818.9 µg/L	4818.9 ppb	18:22:09
2	Fe 238.204 Radial†	672.5	628.9	4744.2 µg/L	4744.2 ppb	18:22:29
2	K 766.490 Radial†	8949.7	8554.1	4854.6 µg/L	4854.6 ppb	18:22:09
2	Mg 279.077 IEC†	504.9	486.8	4864.4 µg/L	4864.4 ppb	18:22:29
2	Na 589.592 Radial†	27320.3	26581.7	9203.7 µg/L	9203.7 ppb	18:22:09
2	Sr 421.552†	107723.7	105584.5	478.19 µg/L	478.19 ppb	18:22:09
2	Sc 361.383	1724470.2	1724470.2	102.48 %		18:23:40
2	Y 371.029	947462.6	947462.6	101.21 %		18:23:40
2	Ag 328.068†	55271.1	54497.3	490.69 µg/L	490.69 ppb	18:23:46
2	As 188.979†	274.7	271.9	500.53 µg/L	500.53 ppb	18:24:06
2	B 249.677†	9552.2	9162.0	484.29 µg/L	484.29 ppb	18:23:46
2	Ba 233.527†	19709.0	19249.2	496.99 µg/L	496.99 ppb	18:23:46
2	Be 313.107†	703898.3	688782.1	492.84 µg/L	492.84 ppb	18:23:40
2	Cd 226.502†	17283.8	17009.1	497.85 µg/L	497.85 ppb	18:23:46
2	Co 228.616†	9927.9	9665.0	500.87 µg/L	500.87 ppb	18:23:46
2	Cr 267.716†	19703.0	19135.3	495.13 µg/L	495.13 ppb	18:23:46
2	Cu 324.752†	72519.0	68138.2	489.33 µg/L	489.33 ppb	18:23:46
2	Mn 257.610†	140169.2	137315.8	500.68 µg/L	500.68 ppb	18:23:40
2	Mo 202.031†	4568.5	4453.4	509.20 µg/L	509.20 ppb	18:24:06
2	Ni 231.604†	7904.6	7414.4	513.61 µg/L	513.61 ppb	18:23:46
2	P 214.914†	1447.2	1170.6	2476.0 µg/L	2476.0 ppb	18:24:06
2	Pb 220.353†	1701.6	1617.5	509.51 µg/L	509.51 ppb	18:24:06

2	S 181.975 Axial†	293.9	266.1	1009.9 µg/L	1009.9 ppb	18:24:06
2	Sb 206.836†	494.7	461.7	495.18 µg/L	495.18 ppb	18:24:06
2	Se 196.026†	427.0	403.3	507.41 µg/L	507.41 ppb	18:24:06
2	SiO2†	26211.4	24192.9	5279.5 µg/L	5279.5 ppb	18:23:46
2	Si 251.611†	31510.1	30382.3	2483.6 µg/L	2483.6 ppb	18:23:46
2	Sn 189.927†	1127.7	1095.9	515.38 µg/L	515.38 ppb	18:24:06
2	Ti 334.940†	189156.7	184579.9	492.11 µg/L	492.11 ppb	18:23:40
2	Tl 190.801†	413.8	429.4	504.66 µg/L	504.66 ppb	18:24:06
2	U 409.014†	5157.1	4881.3	477.25 µg/L	477.25 ppb	18:23:46
2	V 292.402†	39764.0	38952.1	499.37 µg/L	499.37 ppb	18:23:46
2	Zn 213.857†	19783.9	18724.1	499.44 µg/L	499.44 ppb	18:23:46
3	Sc RADIAL	111155.6	111155.6	102 %		18:22:35
3	Al 396.153Radial†	9923.5	9923.9	4740.4 µg/L	4740.4 ppb	18:22:35
3	Ca 317.933Radial†	15547.0	14890.0	4829.2 µg/L	4829.2 ppb	18:22:35
3	Fe 238.204 Radial†	670.6	627.5	4733.3 µg/L	4733.3 ppb	18:22:55
3	K 766.490 Radial†	9073.3	8683.0	4927.7 µg/L	4927.7 ppb	18:22:35
3	Mg 279.077 IEC†	501.9	484.3	4837.6 µg/L	4837.6 ppb	18:22:55
3	Na 589.592 Radial†	27314.3	26598.6	9209.5 µg/L	9209.5 ppb	18:22:35
3	Sr 421.552†	107614.4	105566.6	478.11 µg/L	478.11 ppb	18:22:35
3	Sc 361.383	1721408.3	1721408.3	102.30 %		18:24:13
3	Y 371.029	944697.1	944697.1	100.92 %		18:24:13
3	Ag 328.068†	53500.1	52862.1	475.89 µg/L	475.89 ppb	18:24:19
3	As 188.979†	242.1	240.5	442.77 µg/L	442.77 ppb	18:24:40
3	B 249.677†	9219.6	8853.5	467.87 µg/L	467.87 ppb	18:24:19
3	Ba 233.527†	18706.7	18303.6	472.57 µg/L	472.57 ppb	18:24:19
3	Be 313.107†	678866.9	665535.7	476.21 µg/L	476.21 ppb	18:24:13
3	Cd 226.502†	16421.8	16196.5	474.04 µg/L	474.04 ppb	18:24:19
3	Co 228.616†	9336.1	9103.8	471.73 µg/L	471.73 ppb	18:24:19
3	Cr 267.716†	18314.2	17811.9	460.89 µg/L	460.89 ppb	18:24:19
3	Cu 324.752†	68758.0	64587.7	463.88 µg/L	463.88 ppb	18:24:19
3	Mn 257.610†	135316.5	132815.6	484.27 µg/L	484.27 ppb	18:24:13
3	Mo 202.031†	3946.6	3853.4	440.62 µg/L	440.62 ppb	18:24:40
3	Ni 231.604†	7489.0	7021.8	486.42 µg/L	486.42 ppb	18:24:19
3	P 214.914†	1302.2	1031.4	2177.6 µg/L	2177.6 ppb	18:24:40
3	Pb 220.353†	1525.2	1448.0	456.04 µg/L	456.04 ppb	18:24:40
3	S 181.975 Axial†	268.1	241.4	916.19 µg/L	916.19 ppb	18:24:40
3	Sb 206.836†	442.7	411.7	441.13 µg/L	441.13 ppb	18:24:40
3	Se 196.026†	394.8	372.6	469.66 µg/L	469.66 ppb	18:24:40
3	SiO2†	25269.5	23317.6	5088.5 µg/L	5088.5 ppb	18:24:19
3	Si 251.611†	30240.2	29195.6	2386.6 µg/L	2386.6 ppb	18:24:19
3	Sn 189.927†	952.2	926.3	435.67 µg/L	435.67 ppb	18:24:40
3	Ti 334.940†	181934.3	177848.2	474.15 µg/L	474.15 ppb	18:24:13
3	Tl 190.801†	379.8	396.8	466.64 µg/L	466.64 ppb	18:24:40
3	U 409.014†	4867.8	4607.4	450.42 µg/L	450.42 ppb	18:24:19
3	V 292.402†	37340.2	36651.8	469.58 µg/L	469.58 ppb	18:24:19
3	Zn 213.857†	18725.2	17723.5	472.73 µg/L	472.73 ppb	18:24:19

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1724387.3	102.48 %	0.175			0.17%
Sc RADIAL	111207.5	102 %	0.0			0.04%
Y 371.029	947888.4	101.26 %	0.366			0.36%
Ag 328.068†	53885.8	485.16 µg/L	8.077	485.16 ppb	8.077	1.66%
QC value within limits for Ag 328.068 Recovery = 97.03%						
Al 396.153Radial†	9911.0	4733.3 µg/L	6.20	4733.3 ppb	6.20	0.13%
QC value within limits for Al 396.153Radial Recovery = 94.67%						
As 188.979†	262.2	482.60 µg/L	34.553	482.60 ppb	34.553	7.16%
QC value within limits for As 188.979 Recovery = 96.52%						
B 249.677†	9050.6	478.36 µg/L	9.106	478.36 ppb	9.106	1.90%
QC value within limits for B 249.677 Recovery = 95.67%						
Ba 233.527†	18903.6	488.07 µg/L	13.472	488.07 ppb	13.472	2.76%
QC value within limits for Ba 233.527 Recovery = 97.61%						
Be 313.107†	681311.5	487.50 µg/L	9.780	487.50 ppb	9.780	2.01%
QC value within limits for Be 313.107 Recovery = 97.50%						
Ca 317.933Radial†	14864.7	4821.0 µg/L	7.39	4821.0 ppb	7.39	0.15%
QC value within limits for Ca 317.933Radial Recovery = 96.42%						
Cd 226.502†	16718.2	489.33 µg/L	13.270	489.33 ppb	13.270	2.71%
QC value within limits for Cd 226.502 Recovery = 97.87%						
Co 228.616†	9467.2	490.60 µg/L	16.363	490.60 ppb	16.363	3.34%

QC value within limits for Co 228.616 Recovery = 98.12%						
Cr 267.716†	18694.7	483.73 µg/L	19.779	483.73 ppb	19.779	4.09%
QC value within limits for Cr 267.716 Recovery = 96.75%						
Cu 324.752†	66891.7	480.40 µg/L	14.321	480.40 ppb	14.321	2.98%
QC value within limits for Cu 324.752 Recovery = 96.08%						
Fe 238.204 Radial†	628.4	4740.5 µg/L	6.30	4740.5 ppb	6.30	0.13%
QC value within limits for Fe 238.204 Radial Recovery = 94.81%						
K 766.490 Radial†	8607.7	4885.0 µg/L	38.09	4885.0 ppb	38.09	0.78%
QC value within limits for K 766.490 Radial Recovery = 97.70%						
Mg 279.077 IEC†	486.0	4855.4 µg/L	15.39	4855.4 ppb	15.39	0.32%
QC value within limits for Mg 279.077 IEC Recovery = 97.11%						
Mn 257.610†	135905.4	495.54 µg/L	9.769	495.54 ppb	9.769	1.97%
QC value within limits for Mn 257.610 Recovery = 99.11%						
Mo 202.031†	4255.2	486.54 µg/L	39.768	486.54 ppb	39.768	8.17%
QC value within limits for Mo 202.031 Recovery = 97.31%						
Na 589.592 Radial†	26572.3	9200.4 µg/L	11.09	9200.4 ppb	11.09	0.12%
QC value within limits for Na 589.592 Radial Recovery = 92.00%						
Ni 231.604†	7272.3	503.77 µg/L	15.068	503.77 ppb	15.068	2.99%
QC value within limits for Ni 231.604 Recovery = 100.75%						
P 214.914†	1123.0	2374.0 µg/L	170.11	2374.0 ppb	170.11	7.17%
QC value within limits for P 214.914 Recovery = 94.96%						
Pb 220.353†	1557.6	490.62 µg/L	29.990	490.62 ppb	29.990	6.11%
QC value within limits for Pb 220.353 Recovery = 98.12%						
S 181.975 Axial†	259.2	983.59 µg/L	58.835	983.59 ppb	58.835	5.98%
QC value within limits for S 181.975 Axial Recovery = 98.36%						
Sb 206.836†	445.9	478.12 µg/L	32.067	478.12 ppb	32.067	6.71%
QC value within limits for Sb 206.836 Recovery = 95.62%						
Se 196.026†	398.8	501.88 µg/L	29.842	501.88 ppb	29.842	5.95%
QC value within limits for Se 196.026 Recovery = 100.38%						
SiO2†	23853.9	5205.6 µg/L	102.52	5205.6 ppb	102.52	1.97%
QC value within limits for SiO2 Recovery = 97.35%						
Si 251.611†	29908.5	2444.9 µg/L	51.37	2444.9 ppb	51.37	2.10%
QC value within limits for Si 251.611 Recovery = 97.80%						
Sn 189.927†	1037.5	487.94 µg/L	45.286	487.94 ppb	45.286	9.28%
QC value within limits for Sn 189.927 Recovery = 97.59%						
Sr 421.552†	105411.9	477.41 µg/L	1.285	477.41 ppb	1.285	0.27%
QC value within limits for Sr 421.552 Recovery = 95.48%						
Ti 334.940†	182419.6	486.35 µg/L	10.566	486.35 ppb	10.566	2.17%
QC value within limits for Ti 334.940 Recovery = 97.27%						
Tl 190.801†	419.7	493.36 µg/L	23.234	493.36 ppb	23.234	4.71%
QC value within limits for Tl 190.801 Recovery = 98.67%						
U 409.014†	4776.4	466.97 µg/L	14.473	466.97 ppb	14.473	3.10%
QC value within limits for U 409.014 Recovery = 93.39%						
V 292.402†	38122.8	488.65 µg/L	16.554	488.65 ppb	16.554	3.39%
QC value within limits for V 292.402 Recovery = 97.73%						
Zn 213.857†	18354.8	489.58 µg/L	14.665	489.58 ppb	14.665	3.00%
QC value within limits for Zn 213.857 Recovery = 97.92%						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 18:24:50

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	108505.1	108505.1	99.4 %		18:25:22
1	Al 396.153Radial†	-165.0	8.9	4.2192 µg/L	4.2192 ppb	18:25:22
1	Ca 317.933Radial†	396.4	15.4	4.9928 µg/L	4.9928 ppb	18:25:43
1	Fe 238.204 Radial†	32.0	0.9	7.0810 µg/L	7.0810 ppb	18:25:43
1	K 766.490 Radial†	264.8	35.7	20.287 µg/L	20.287 ppb	18:25:22
1	Mg 279.077 IEC†	10.5	1.8	17.581 µg/L	17.581 ppb	18:25:43
1	Na 589.592 Radial†	273.5	40.0	13.847 µg/L	13.847 ppb	18:25:22
1	Sr 421.552†	161.3	7.4	0.0334 µg/L	0.0334 ppb	18:25:22
1	Sc 361.383	1705285.5	1705285.5	101.34 %		18:26:45
1	Y 371.029	943783.5	943783.5	100.82 %		18:26:45
1	Ag 328.068†	-547.7	25.5	0.2270 µg/L	0.2270 ppb	18:26:50
1	As 188.979†	-9.9	-5.9	-10.927 µg/L	-10.927 ppb	18:27:11
1	B 249.677†	191.5	30.3	1.6043 µg/L	1.6043 ppb	18:27:11
1	Ba 233.527†	-20.9	-2.7	-0.0691 µg/L	-0.0691 ppb	18:27:11
1	Be 313.107†	-2013.8	-41.3	-0.0297 µg/L	-0.0297 ppb	18:26:50
1	Cd 226.502†	-149.1	-2.9	-0.0875 µg/L	-0.0875 ppb	18:27:11
1	Co 228.616†	21.6	-1.0	-0.0488 µg/L	-0.0488 ppb	18:27:11
1	Cr 267.716†	64.7	-26.3	-0.6802 µg/L	-0.6802 ppb	18:27:11
1	Cu 324.752†	2679.1	20.5	0.1486 µg/L	0.1486 ppb	18:26:50
1	Mn 257.610†	-551.1	0.5	0.0010 µg/L	0.0010 ppb	18:27:11
1	Mo 202.031†	17.6	13.0	1.4824 µg/L	1.4824 ppb	18:27:11
1	Ni 231.604†	287.8	-14.7	-1.0179 µg/L	-1.0179 ppb	18:27:11
1	P 214.914†	245.8	1.0	2.1959 µg/L	2.1959 ppb	18:27:11
1	Pb 220.353†	43.5	0.1	0.0410 µg/L	0.0410 ppb	18:27:11
1	S 181.975 Axial†	21.5	0.6	2.1208 µg/L	2.1208 ppb	18:27:11
1	Sb 206.836†	24.9	3.6	3.8651 µg/L	3.8651 ppb	18:27:11
1	Se 196.026†	21.3	7.7	9.4345 µg/L	9.4345 ppb	18:27:11
1	SiO2†	1403.1	1.3	0.2857 µg/L	0.2857 ppb	18:26:50
1	Si 251.611†	379.6	10.6	0.8669 µg/L	0.8669 ppb	18:27:11
1	Sn 189.927†	4.0	-0.6	-0.2979 µg/L	-0.2979 ppb	18:27:11
1	Ti 334.940†	75.6	82.7	0.2194 µg/L	0.2194 ppb	18:26:50
1	Tl 190.801†	-24.1	1.8	2.1447 µg/L	2.1447 ppb	18:27:11
1	U 409.014†	174.0	20.8	2.0405 µg/L	2.0405 ppb	18:26:50
1	V 292.402†	-175.4	-21.2	-0.2560 µg/L	-0.2560 ppb	18:26:50
1	Zn 213.857†	585.8	-2.3	-0.0580 µg/L	-0.0580 ppb	18:27:11
2	Sc RADIAL	107504.4	107504.4	98.4 %		18:25:48
2	Al 396.153Radial†	-187.3	-15.4	-7.3688 µg/L	-7.3688 ppb	18:25:48
2	Ca 317.933Radial†	391.6	14.2	4.5994 µg/L	4.5994 ppb	18:26:09
2	Fe 238.204 Radial†	28.5	-2.4	-17.919 µg/L	-17.919 ppb	18:26:09
2	K 766.490 Radial†	234.5	7.5	4.2528 µg/L	4.2528 ppb	18:25:48
2	Mg 279.077 IEC†	8.5	-0.2	-1.7281 µg/L	-1.7281 ppb	18:26:09
2	Na 589.592 Radial†	282.6	51.8	17.922 µg/L	17.922 ppb	18:25:48
2	Sr 421.552†	119.6	-33.5	-0.1518 µg/L	-0.1518 ppb	18:25:48
2	Sc 361.383	1706695.8	1706695.8	101.43 %		18:27:17
2	Y 371.029	941560.7	941560.7	100.58 %		18:27:17
2	Ag 328.068†	-524.3	48.9	0.4343 µg/L	0.4343 ppb	18:27:22
2	As 188.979†	-3.0	0.9	1.5908 µg/L	1.5908 ppb	18:27:43
2	B 249.677†	173.6	12.5	0.6718 µg/L	0.6718 ppb	18:27:43
2	Ba 233.527†	-18.0	0.2	0.0053 µg/L	0.0053 ppb	18:27:43
2	Be 313.107†	-1940.9	32.2	0.0230 µg/L	0.0230 ppb	18:27:22
2	Cd 226.502†	-144.1	2.1	0.0643 µg/L	0.0643 ppb	18:27:43
2	Co 228.616†	9.3	-13.1	-0.6806 µg/L	-0.6806 ppb	18:27:43
2	Cr 267.716†	75.3	-15.9	-0.4109 µg/L	-0.4109 ppb	18:27:43
2	Cu 324.752†	2680.4	19.6	0.1375 µg/L	0.1375 ppb	18:27:22
2	Mn 257.610†	-540.5	11.3	0.0403 µg/L	0.0403 ppb	18:27:43
2	Mo 202.031†	11.5	6.9	0.7933 µg/L	0.7933 ppb	18:27:43
2	Ni 231.604†	305.5	2.6	0.1804 µg/L	0.1804 ppb	18:27:43
2	P 214.914†	246.8	1.9	3.9974 µg/L	3.9974 ppb	18:27:43
2	Pb 220.353†	48.9	5.3	1.6720 µg/L	1.6720 ppb	18:27:43

2	S 181.975 Axial†	20.9	-0.1	-0.4402 µg/L	-0.4402 ppb	18:27:43
2	Sb 206.836†	24.5	3.1	3.3228 µg/L	3.3228 ppb	18:27:43
2	Se 196.026†	16.2	2.7	3.2030 µg/L	3.2030 ppb	18:27:43
2	SiO2†	1443.2	39.7	8.6733 µg/L	8.6733 ppb	18:27:22
2	Si 251.611†	406.0	36.3	2.9685 µg/L	2.9685 ppb	18:27:43
2	Sn 189.927†	4.9	0.3	0.1267 µg/L	0.1267 ppb	18:27:43
2	Ti 334.940†	99.2	105.9	0.2827 µg/L	0.2827 ppb	18:27:22
2	Tl 190.801†	-27.2	-1.2	-1.3945 µg/L	-1.3945 ppb	18:27:43
2	U 409.014†	268.8	114.2	11.188 µg/L	11.188 ppb	18:27:22
2	V 292.402†	-161.8	-7.6	-0.0804 µg/L	-0.0804 ppb	18:27:22
2	Zn 213.857†	575.3	-13.1	-0.3516 µg/L	-0.3516 ppb	18:27:43
3	Sc RADIAL	108564.8	108564.8	99.4 %		18:26:14
3	Al 396.153Radial†	-178.2	-4.4	-2.1059 µg/L	-2.1059 ppb	18:26:14
3	Ca 317.933Radial†	397.0	15.8	5.1224 µg/L	5.1224 ppb	18:26:34
3	Fe 238.204 Radial†	30.0	-1.1	-8.4226 µg/L	-8.4226 ppb	18:26:34
3	K 766.490 Radial†	277.0	47.8	27.145 µg/L	27.145 ppb	18:26:14
3	Mg 279.077 IEC†	11.8	3.1	30.857 µg/L	30.857 ppb	18:26:34
3	Na 589.592 Radial†	297.1	63.6	22.024 µg/L	22.024 ppb	18:26:14
3	Sr 421.552†	149.1	-5.0	-0.0227 µg/L	-0.0227 ppb	18:26:14
3	Sc 361.383	1709041.3	1709041.3	101.57 %		18:27:49
3	Y 371.029	946063.2	946063.2	101.06 %		18:27:49
3	Ag 328.068†	-563.8	10.8	0.0956 µg/L	0.0956 ppb	18:27:55
3	As 188.979†	-6.7	-2.7	-5.0165 µg/L	-5.0165 ppb	18:28:15
3	B 249.677†	175.3	14.0	0.7461 µg/L	0.7461 ppb	18:28:15
3	Ba 233.527†	-19.6	-1.3	-0.0342 µg/L	-0.0342 ppb	18:28:15
3	Be 313.107†	-1915.0	60.4	0.0431 µg/L	0.0431 ppb	18:27:55
3	Cd 226.502†	-146.4	0.0	0.0018 µg/L	0.0018 ppb	18:28:15
3	Co 228.616†	10.1	-12.3	-0.6403 µg/L	-0.6403 ppb	18:28:15
3	Cr 267.716†	85.4	-6.1	-0.1574 µg/L	-0.1574 ppb	18:28:15
3	Cu 324.752†	2704.5	39.8	0.2834 µg/L	0.2834 ppb	18:27:55
3	Mn 257.610†	-539.0	13.5	0.0467 µg/L	0.0467 ppb	18:28:15
3	Mo 202.031†	12.7	8.1	0.9286 µg/L	0.9286 ppb	18:28:15
3	Ni 231.604†	302.0	-1.3	-0.0900 µg/L	-0.0900 ppb	18:28:15
3	P 214.914†	251.4	6.0	12.974 µg/L	12.974 ppb	18:28:15
3	Pb 220.353†	36.6	-6.8	-2.1598 µg/L	-2.1598 ppb	18:28:15
3	S 181.975 Axial†	19.0	-2.0	-7.5263 µg/L	-7.5263 ppb	18:28:15
3	Sb 206.836†	20.2	-1.1	-1.2013 µg/L	-1.2013 ppb	18:28:15
3	Se 196.026†	14.4	0.9	1.0053 µg/L	1.0053 ppb	18:28:15
3	SiO2†	1409.5	4.6	1.0018 µg/L	1.0018 ppb	18:27:55
3	Si 251.611†	384.7	14.7	1.2036 µg/L	1.2036 ppb	18:28:15
3	Sn 189.927†	8.2	3.6	1.6802 µg/L	1.6802 ppb	18:28:15
3	Ti 334.940†	160.3	166.0	0.4404 µg/L	0.4404 ppb	18:27:55
3	Tl 190.801†	-23.4	2.5	2.9761 µg/L	2.9761 ppb	18:28:15
3	U 409.014†	218.1	63.9	6.2640 µg/L	6.2640 ppb	18:27:55
3	V 292.402†	-151.3	3.0	0.0513 µg/L	0.0513 ppb	18:27:55
3	Zn 213.857†	572.7	-16.4	-0.4418 µg/L	-0.4418 ppb	18:28:15

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707007.6	101.45 %	0.113			0.11%
Sc RADIAL	108191.4	99.1 %	0.55			0.55%
Y 371.029	943802.5	100.82 %	0.240			0.24%
Ag 328.068†	28.4	0.2523 µg/L	0.17078	0.2523 ppb	0.17078	67.69%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.6	-1.7519 µg/L	5.80212	-1.7519 ppb	5.80212	331.20%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.6	-4.7841 µg/L	6.26189	-4.7841 ppb	6.26189	130.89%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	18.9	1.0074 µg/L	0.51827	1.0074 ppb	0.51827	51.45%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.3	-0.0327 µg/L	0.03723	-0.0327 ppb	0.03723	114.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	17.1	0.0121 µg/L	0.03755	0.0121 ppb	0.03755	309.88%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	15.1	4.9049 µg/L	0.27239	4.9049 ppb	0.27239	5.55%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.3	-0.0071 µg/L	0.07628	-0.0071 ppb	0.07628	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.8	-0.4566 µg/L	0.35374	-0.4566 ppb	0.35374	77.48%



QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-16.1	-0.4161 µg/L	0.26143	-0.4161 ppb	0.26143	62.82%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	26.6	0.1898 µg/L	0.08123	0.1898 ppb	0.08123	42.79%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.9	-6.4201 µg/L	12.61957	-6.4201 ppb	12.61957	196.56%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	30.4	17.228 µg/L	11.7487	17.228 ppb	11.7487	68.19%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.6	15.570 µg/L	16.3851	15.570 ppb	16.3851	105.24%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	8.4	0.0294 µg/L	0.02474	0.0294 ppb	0.02474	84.26%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.3	1.0681 µg/L	0.36514	1.0681 ppb	0.36514	34.19%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	51.8	17.931 µg/L	4.0889	17.931 ppb	4.0889	22.80%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-4.5	-0.3092 µg/L	0.62847	-0.3092 ppb	0.62847	203.28%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.0	6.3890 µg/L	5.77325	6.3890 ppb	5.77325	90.36%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.5	-0.1489 µg/L	1.92295	-0.1489 ppb	1.92295	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.5	-1.9486 µg/L	4.99726	-1.9486 ppb	4.99726	256.46%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.8	1.9955 µg/L	2.78178	1.9955 ppb	2.78178	139.40%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.7	4.5476 µg/L	4.37252	4.5476 ppb	4.37252	96.15%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	15.2	3.3203 µg/L	4.64969	3.3203 ppb	4.64969	140.04%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	20.5	1.6797 µg/L	1.12875	1.6797 ppb	1.12875	67.20%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.1	0.5030 µg/L	1.04140	0.5030 ppb	1.04140	207.03%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-10.4	-0.0470 µg/L	0.09496	-0.0470 ppb	0.09496	202.01%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	118.2	0.3142 µg/L	0.11380	0.3142 ppb	0.11380	36.22%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.1	1.2421 µg/L	2.32088	1.2421 ppb	2.32088	186.85%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	66.3	6.4974 µg/L	4.57815	6.4974 ppb	4.57815	70.46%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-8.6	-0.0950 µg/L	0.15414	-0.0950 ppb	0.15414	162.19%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-10.6	-0.2838 µg/L	0.20065	-0.2838 ppb	0.20065	70.70%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 18:46:51

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	110850.9	110850.9	102 %		18:47:27
1	Al 396.153Radial†	9867.1	9895.1	4725.2 µg/L	4725.2 ppb	18:47:27
1	Ca 317.933Radial†	15590.3	14974.6	4856.6 µg/L	4856.6 ppb	18:47:27
1	Fe 238.204 Radial†	663.8	622.6	4697.3 µg/L	4697.3 ppb	18:47:48
1	K 766.490 Radial†	9093.9	8727.8	4953.2 µg/L	4953.2 ppb	18:47:27
1	Mg 279.077 IEC†	502.1	485.9	4854.7 µg/L	4854.7 ppb	18:47:48
1	Na 589.592 Radial†	26660.6	26028.5	9012.1 µg/L	9012.1 ppb	18:47:27
1	Sr 421.552†	105871.4	104140.3	471.65 µg/L	471.65 ppb	18:47:27
1	Sc 361.383	1726545.7	1726545.7	102.61 %		18:48:51
1	Y 371.029	947909.7	947909.7	101.26 %		18:48:51
1	Ag 328.068†	55271.8	54433.1	490.11 µg/L	490.11 ppb	18:48:57
1	As 188.979†	274.5	271.4	499.46 µg/L	499.46 ppb	18:49:17
1	B 249.677†	9552.5	9151.1	483.74 µg/L	483.74 ppb	18:48:57
1	Ba 233.527†	19804.2	19318.9	498.79 µg/L	498.79 ppb	18:48:57
1	Be 313.107†	709824.5	693732.0	496.39 µg/L	496.39 ppb	18:48:51
1	Cd 226.502†	17483.6	17183.5	502.97 µg/L	502.97 ppb	18:48:57
1	Co 228.616†	9978.1	9702.3	502.81 µg/L	502.81 ppb	18:48:57
1	Cr 267.716†	19921.8	19325.4	500.04 µg/L	500.04 ppb	18:48:57
1	Cu 324.752†	72301.7	67841.3	487.20 µg/L	487.20 ppb	18:48:57
1	Mn 257.610†	141156.9	138114.0	503.59 µg/L	503.59 ppb	18:48:51
1	Mo 202.031†	4577.0	4456.4	509.54 µg/L	509.54 ppb	18:49:17
1	Ni 231.604†	7972.0	7470.8	517.52 µg/L	517.52 ppb	18:48:57
1	P 214.914†	1459.5	1180.9	2498.4 µg/L	2498.4 ppb	18:49:17
1	Pb 220.353†	1710.1	1623.8	511.51 µg/L	511.51 ppb	18:49:17
1	S 181.975 Axial†	294.2	266.0	1009.7 µg/L	1009.7 ppb	18:49:17
1	Sb 206.836†	495.7	462.0	495.54 µg/L	495.54 ppb	18:49:17
1	Se 196.026†	438.4	414.0	520.33 µg/L	520.33 ppb	18:49:17
1	SiO2†	26293.2	24241.8	5290.2 µg/L	5290.2 ppb	18:48:57
1	Si 251.611†	31530.4	30365.1	2482.2 µg/L	2482.2 ppb	18:48:57
1	Sn 189.927†	1126.1	1092.9	514.00 µg/L	514.00 ppb	18:49:17
1	Ti 334.940†	189966.6	185147.3	493.63 µg/L	493.63 ppb	18:48:51
1	Tl 190.801†	418.9	433.8	509.83 µg/L	509.83 ppb	18:49:17
1	U 409.014†	5181.0	4898.5	478.94 µg/L	478.94 ppb	18:48:57
1	V 292.402†	39857.8	38996.8	499.95 µg/L	499.95 ppb	18:48:57
1	Zn 213.857†	19893.7	18807.8	501.68 µg/L	501.68 ppb	18:48:57
2	Sc RADIAL	110194.2	110194.2	101 %		18:47:53
2	Al 396.153Radial†	9875.6	9961.5	4757.0 µg/L	4757.0 ppb	18:47:53
2	Ca 317.933Radial†	15542.2	15018.5	4870.9 µg/L	4870.9 ppb	18:47:53
2	Fe 238.204 Radial†	663.9	626.6	4727.2 µg/L	4727.2 ppb	18:48:13
2	K 766.490 Radial†	9117.5	8804.6	4996.7 µg/L	4996.7 ppb	18:47:53
2	Mg 279.077 IEC†	508.7	495.3	4949.0 µg/L	4949.0 ppb	18:48:13
2	Na 589.592 Radial†	26525.7	26051.2	9020.0 µg/L	9020.0 ppb	18:47:53
2	Sr 421.552†	105559.0	104452.2	473.06 µg/L	473.06 ppb	18:47:53
2	Sc 361.383	1722365.1	1722365.1	102.36 %		18:49:24
2	Y 371.029	946412.1	946412.1	101.10 %		18:49:24
2	Ag 328.068†	54822.2	54124.6	487.35 µg/L	487.35 ppb	18:49:30
2	As 188.979†	272.9	270.5	497.89 µg/L	497.89 ppb	18:49:51
2	B 249.677†	9500.4	9122.8	482.22 µg/L	482.22 ppb	18:49:30
2	Ba 233.527†	19671.9	19236.5	496.66 µg/L	496.66 ppb	18:49:30
2	Be 313.107†	707334.0	692978.1	495.85 µg/L	495.85 ppb	18:49:24
2	Cd 226.502†	17307.5	17052.9	499.14 µg/L	499.14 ppb	18:49:30
2	Co 228.616†	9886.3	9636.2	499.38 µg/L	499.38 ppb	18:49:30
2	Cr 267.716†	19719.6	19175.0	496.15 µg/L	496.15 ppb	18:49:30
2	Cu 324.752†	71902.2	67622.0	485.63 µg/L	485.63 ppb	18:49:30
2	Mn 257.610†	140621.4	137924.8	502.90 µg/L	502.90 ppb	18:49:24
2	Mo 202.031†	4548.3	4439.1	507.56 µg/L	507.56 ppb	18:49:51
2	Ni 231.604†	7935.5	7454.0	516.36 µg/L	516.36 ppb	18:49:30
2	P 214.914†	1453.6	1178.6	2493.5 µg/L	2493.5 ppb	18:49:51
2	Pb 220.353†	1693.1	1611.3	507.57 µg/L	507.57 ppb	18:49:51

2	S 181.975 Axial†	291.9	264.5	1003.9 µg/L	1003.9 ppb	18:49:51
2	Sb 206.836†	497.5	465.1	498.76 µg/L	498.76 ppb	18:49:51
2	Se 196.026†	431.7	408.4	513.55 µg/L	513.55 ppb	18:49:51
2	SiO2†	26219.5	24232.0	5288.1 µg/L	5288.1 ppb	18:49:30
2	Si 251.611†	31416.4	30328.3	2479.2 µg/L	2479.2 ppb	18:49:30
2	Sn 189.927†	1115.5	1085.2	510.38 µg/L	510.38 ppb	18:49:51
2	Ti 334.940†	189374.0	185017.7	493.27 µg/L	493.27 ppb	18:49:24
2	Tl 190.801†	413.5	429.5	504.86 µg/L	504.86 ppb	18:49:51
2	U 409.014†	5097.1	4828.8	472.11 µg/L	472.11 ppb	18:49:30
2	V 292.402†	39588.2	38827.8	497.78 µg/L	497.78 ppb	18:49:30
2	Zn 213.857†	19731.1	18696.0	498.68 µg/L	498.68 ppb	18:49:30
3	Sc RADIAL	110984.3	110984.3	102 %		18:48:19
3	Al 396.153Radial†	9952.4	9967.3	4761.1 µg/L	4761.1 ppb	18:48:19
3	Ca 317.933Radial†	15712.6	15076.5	4889.7 µg/L	4889.7 ppb	18:48:19
3	Fe 238.204 Radial†	668.0	626.0	4722.0 µg/L	4722.0 ppb	18:48:39
3	K 766.490 Radial†	9189.9	8811.4	5000.6 µg/L	5000.6 ppb	18:48:19
3	Mg 279.077 IEC†	509.5	492.5	4920.0 µg/L	4920.0 ppb	18:48:39
3	Na 589.592 Radial†	26769.9	26104.4	9038.4 µg/L	9038.4 ppb	18:48:19
3	Sr 421.552†	106343.5	104479.4	473.18 µg/L	473.18 ppb	18:48:19
3	Sc 361.383	1722888.2	1722888.2	102.39 %		18:49:58
3	Y 371.029	947282.4	947282.4	101.19 %		18:49:58
3	Ag 328.068†	53217.2	52540.9	473.00 µg/L	473.00 ppb	18:50:03
3	As 188.979†	246.0	244.1	449.35 µg/L	449.35 ppb	18:50:24
3	B 249.677†	9279.2	8903.9	470.55 µg/L	470.55 ppb	18:50:03
3	Ba 233.527†	18775.0	18354.7	473.88 µg/L	473.88 ppb	18:50:03
3	Be 313.107†	677552.0	663681.4	474.88 µg/L	474.88 ppb	18:49:58
3	Cd 226.502†	16461.1	16221.0	474.76 µg/L	474.76 ppb	18:50:03
3	Co 228.616†	9389.0	9147.6	474.01 µg/L	474.01 ppb	18:50:03
3	Cr 267.716†	18334.8	17816.6	461.01 µg/L	461.01 ppb	18:50:03
3	Cu 324.752†	68227.4	64011.7	459.75 µg/L	459.75 ppb	18:50:03
3	Mn 257.610†	135128.5	132518.4	483.18 µg/L	483.18 ppb	18:49:58
3	Mo 202.031†	3983.0	3885.7	444.31 µg/L	444.31 ppb	18:50:24
3	Ni 231.604†	7499.4	7025.7	486.69 µg/L	486.69 ppb	18:50:03
3	P 214.914†	1313.3	1041.2	2199.1 µg/L	2199.1 ppb	18:50:24
3	Pb 220.353†	1542.8	1463.9	461.07 µg/L	461.07 ppb	18:50:24
3	S 181.975 Axial†	266.7	239.8	909.98 µg/L	909.98 ppb	18:50:24
3	Sb 206.836†	449.8	418.2	448.18 µg/L	448.18 ppb	18:50:24
3	Se 196.026†	403.2	380.5	479.26 µg/L	479.26 ppb	18:50:24
3	SiO2†	25303.5	23329.6	5091.1 µg/L	5091.1 ppb	18:50:03
3	Si 251.611†	30291.1	29220.0	2388.6 µg/L	2388.6 ppb	18:50:03
3	Sn 189.927†	970.8	943.6	443.84 µg/L	443.84 ppb	18:50:24
3	Ti 334.940†	181016.5	176799.1	471.35 µg/L	471.35 ppb	18:49:58
3	Tl 190.801†	384.1	400.7	471.14 µg/L	471.14 ppb	18:50:24
3	U 409.014†	4810.0	4546.9	444.49 µg/L	444.49 ppb	18:50:03
3	V 292.402†	37220.3	36503.4	467.72 µg/L	467.72 ppb	18:50:03
3	Zn 213.857†	18779.0	17760.4	473.72 µg/L	473.72 ppb	18:50:03

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1723933.0	102.45 %	0.135			0.13%
Sc RADIAL	110676.5	101 %	0.4			0.38%
Y 371.029	947201.4	101.18 %	0.080			0.08%
Ag 328.068†	53699.5	483.49 µg/L	9.184	483.49 ppb	9.184	1.90%
QC value within limits for Ag 328.068 Recovery = 96.70%						
Al 396.153Radial†	9941.3	4747.8 µg/L	19.64	4747.8 ppb	19.64	0.41%
QC value within limits for Al 396.153Radial Recovery = 94.96%						
As 188.979†	262.0	482.23 µg/L	28.488	482.23 ppb	28.488	5.91%
QC value within limits for As 188.979 Recovery = 96.45%						
B 249.677†	9059.3	478.84 µg/L	7.213	478.84 ppb	7.213	1.51%
QC value within limits for B 249.677 Recovery = 95.77%						
Ba 233.527†	18970.0	489.78 µg/L	13.807	489.78 ppb	13.807	2.82%
QC value within limits for Ba 233.527 Recovery = 97.96%						
Be 313.107†	683463.9	489.04 µg/L	12.261	489.04 ppb	12.261	2.51%
QC value within limits for Be 313.107 Recovery = 97.81%						
Ca 317.933Radial†	15023.2	4872.4 µg/L	16.57	4872.4 ppb	16.57	0.34%
QC value within limits for Ca 317.933Radial Recovery = 97.45%						
Cd 226.502†	16819.1	492.29 µg/L	15.300	492.29 ppb	15.300	3.11%
QC value within limits for Cd 226.502 Recovery = 98.46%						
Co 228.616†	9495.4	492.06 µg/L	15.727	492.06 ppb	15.727	3.20%

QC value within limits for Co 228.616 Recovery = 98.41%							
Cr 267.716†	18772.3	485.73 µg/L	21.501	485.73 ppb	21.501	4.43%	
QC value within limits for Cr 267.716 Recovery = 97.15%							
Cu 324.752†	66491.7	477.52 µg/L	15.414	477.52 ppb	15.414	3.23%	
QC value within limits for Cu 324.752 Recovery = 95.50%							
Fe 238.204 Radial†	625.1	4715.5 µg/L	16.01	4715.5 ppb	16.01	0.34%	
QC value within limits for Fe 238.204 Radial Recovery = 94.31%							
K 766.490 Radial†	8781.3	4983.5 µg/L	26.35	4983.5 ppb	26.35	0.53%	
QC value within limits for K 766.490 Radial Recovery = 99.67%							
Mg 279.077 IEC†	491.2	4907.9 µg/L	48.31	4907.9 ppb	48.31	0.98%	
QC value within limits for Mg 279.077 IEC Recovery = 98.16%							
Mn 257.610†	136185.7	496.56 µg/L	11.587	496.56 ppb	11.587	2.33%	
QC value within limits for Mn 257.610 Recovery = 99.31%							
Mo 202.031†	4260.4	487.14 µg/L	37.104	487.14 ppb	37.104	7.62%	
QC value within limits for Mo 202.031 Recovery = 97.43%							
Na 589.592 Radial†	26061.4	9023.5 µg/L	13.49	9023.5 ppb	13.49	0.15%	
QC value within limits for Na 589.592 Radial Recovery = 90.24%							
Ni 231.604†	7316.8	506.85 µg/L	17.473	506.85 ppb	17.473	3.45%	
QC value within limits for Ni 231.604 Recovery = 101.37%							
P 214.914†	1133.6	2397.0 µg/L	171.39	2397.0 ppb	171.39	7.15%	
QC value within limits for P 214.914 Recovery = 95.88%							
Pb 220.353†	1566.3	493.38 µg/L	28.053	493.38 ppb	28.053	5.69%	
QC value within limits for Pb 220.353 Recovery = 98.68%							
S 181.975 Axial†	256.8	974.54 µg/L	55.981	974.54 ppb	55.981	5.74%	
QC value within limits for S 181.975 Axial Recovery = 97.45%							
Sb 206.836†	448.4	480.83 µg/L	28.318	480.83 ppb	28.318	5.89%	
QC value within limits for Sb 206.836 Recovery = 96.17%							
Se 196.026†	401.0	504.38 µg/L	22.018	504.38 ppb	22.018	4.37%	
QC value within limits for Se 196.026 Recovery = 100.88%							
SiO2†	23934.5	5223.1 µg/L	114.32	5223.1 ppb	114.32	2.19%	
QC value within limits for SiO2 Recovery = 97.67%							
Si 251.611†	29971.1	2450.0 µg/L	53.20	2450.0 ppb	53.20	2.17%	
QC value within limits for Si 251.611 Recovery = 98.00%							
Sn 189.927†	1040.6	489.41 µg/L	39.505	489.41 ppb	39.505	8.07%	
QC value within limits for Sn 189.927 Recovery = 97.88%							
Sr 421.552†	104357.3	472.63 µg/L	0.853	472.63 ppb	0.853	0.18%	
QC value within limits for Sr 421.552 Recovery = 94.53%							
Ti 334.940†	182321.3	486.08 µg/L	12.760	486.08 ppb	12.760	2.63%	
QC value within limits for Ti 334.940 Recovery = 97.22%							
Tl 190.801†	421.4	495.28 µg/L	21.054	495.28 ppb	21.054	4.25%	
QC value within limits for Tl 190.801 Recovery = 99.06%							
U 409.014†	4758.1	465.18 µg/L	18.241	465.18 ppb	18.241	3.92%	
QC value within limits for U 409.014 Recovery = 93.04%							
V 292.402†	38109.3	488.49 µg/L	18.012	488.49 ppb	18.012	3.69%	
QC value within limits for V 292.402 Recovery = 97.70%							
Zn 213.857†	18421.4	491.36 µg/L	15.351	491.36 ppb	15.351	3.12%	
QC value within limits for Zn 213.857 Recovery = 98.27%							

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 18:50:33

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	109329.9	109329.9	100 %		18:51:06
1	Al 396.153Radial†	-162.4	12.7	6.0792 µg/L	6.0792 ppb	18:51:06
1	Ca 317.933Radial†	388.6	4.6	1.4963 µg/L	1.4963 ppb	18:51:27
1	Fe 238.204 Radial†	30.2	-1.2	-8.6785 µg/L	-8.6785 ppb	18:51:27
1	K 766.490 Radial†	305.8	74.7	42.384 µg/L	42.384 ppb	18:51:06
1	Mg 279.077 IEC†	12.0	3.2	31.808 µg/L	31.808 ppb	18:51:27
1	Na 589.592 Radial†	287.1	51.5	17.825 µg/L	17.825 ppb	18:51:06
1	Sr 421.552†	171.2	16.1	0.0727 µg/L	0.0727 ppb	18:51:06
1	Sc 361.383	1715551.7	1715551.7	101.95 %		18:52:29
1	Y 371.029	940807.4	940807.4	100.50 %		18:52:29
1	Ag 328.068†	-605.1	-27.6	-0.2446 µg/L	-0.2446 ppb	18:52:34
1	As 188.979†	-2.7	1.2	2.2682 µg/L	2.2682 ppb	18:52:55
1	B 249.677†	192.5	30.2	1.6041 µg/L	1.6041 ppb	18:52:55
1	Ba 233.527†	-21.9	-3.6	-0.0908 µg/L	-0.0908 ppb	18:52:55
1	Be 313.107†	-2229.2	-240.7	-0.1724 µg/L	-0.1724 ppb	18:52:34
1	Cd 226.502†	-148.8	-1.7	-0.0499 µg/L	-0.0499 ppb	18:52:55
1	Co 228.616†	10.9	-11.6	-0.6014 µg/L	-0.6014 ppb	18:52:55
1	Cr 267.716†	76.4	-15.2	-0.3927 µg/L	-0.3927 ppb	18:52:34
1	Cu 324.752†	2661.2	-12.8	-0.0935 µg/L	-0.0935 ppb	18:52:34
1	Mn 257.610†	-562.5	-7.5	-0.0301 µg/L	-0.0301 ppb	18:52:55
1	Mo 202.031†	5.9	1.4	0.1648 µg/L	0.1648 ppb	18:52:55
1	Ni 231.604†	307.7	3.1	0.2164 µg/L	0.2164 ppb	18:52:55
1	P 214.914†	249.9	3.7	7.8585 µg/L	7.8585 ppb	18:52:55
1	Pb 220.353†	39.2	-4.4	-1.3786 µg/L	-1.3786 ppb	18:52:55
1	S 181.975 Axial†	21.7	0.6	2.3109 µg/L	2.3109 ppb	18:52:55
1	Sb 206.836†	24.1	2.6	2.7631 µg/L	2.7631 ppb	18:52:55
1	Se 196.026†	15.2	1.6	1.8579 µg/L	1.8579 ppb	18:52:55
1	SiO2†	1439.4	28.6	6.2494 µg/L	6.2494 ppb	18:52:34
1	Si 251.611†	397.7	26.1	2.1345 µg/L	2.1345 ppb	18:52:55
1	Sn 189.927†	0.8	-3.8	-1.7687 µg/L	-1.7687 ppb	18:52:55
1	Ti 334.940†	118.7	124.5	0.3297 µg/L	0.3297 ppb	18:52:34
1	Tl 190.801†	-26.9	-0.8	-0.9553 µg/L	-0.9553 ppb	18:52:55
1	U 409.014†	205.3	50.5	4.9480 µg/L	4.9480 ppb	18:52:34
1	V 292.402†	-115.3	38.9	0.4977 µg/L	0.4977 ppb	18:52:34
1	Zn 213.857†	580.7	-10.7	-0.2892 µg/L	-0.2892 ppb	18:52:55
2	Sc RADIAL	108891.7	108891.7	99.7 %		18:51:32
2	Al 396.153Radial†	-174.5	-0.1	-0.0450 µg/L	-0.0450 ppb	18:51:32
2	Ca 317.933Radial†	389.4	6.9	2.2525 µg/L	2.2525 ppb	18:51:53
2	Fe 238.204 Radial†	29.7	-1.5	-11.008 µg/L	-11.008 ppb	18:51:53
2	K 766.490 Radial†	146.9	-83.4	-47.348 µg/L	-47.348 ppb	18:51:32
2	Mg 279.077 IEC†	10.8	2.0	20.309 µg/L	20.309 ppb	18:51:53
2	Na 589.592 Radial†	252.9	18.3	6.3463 µg/L	6.3463 ppb	18:51:32
2	Sr 421.552†	142.5	-12.1	-0.0546 µg/L	-0.0546 ppb	18:51:32
2	Sc 361.383	1722161.7	1722161.7	102.35 %		18:53:01
2	Y 371.029	946257.2	946257.2	101.08 %		18:53:01
2	Ag 328.068†	-569.4	9.6	0.0885 µg/L	0.0885 ppb	18:53:06
2	As 188.979†	-5.7	-1.7	-3.1977 µg/L	-3.1977 ppb	18:53:27
2	B 249.677†	178.9	16.2	0.8629 µg/L	0.8629 ppb	18:53:27
2	Ba 233.527†	-18.4	-0.0	0.0008 µg/L	0.0008 ppb	18:53:27
2	Be 313.107†	-2148.3	-153.2	-0.1098 µg/L	-0.1098 ppb	18:53:06
2	Cd 226.502†	-133.5	13.8	0.4046 µg/L	0.4046 ppb	18:53:27
2	Co 228.616†	22.1	-0.6	-0.0337 µg/L	-0.0337 ppb	18:53:27
2	Cr 267.716†	64.7	-27.0	-0.6975 µg/L	-0.6975 ppb	18:53:06
2	Cu 324.752†	2700.1	15.1	0.1062 µg/L	0.1062 ppb	18:53:06
2	Mn 257.610†	-534.7	21.8	0.0775 µg/L	0.0775 ppb	18:53:27
2	Mo 202.031†	2.1	-2.3	-0.2583 µg/L	-0.2583 ppb	18:53:27
2	Ni 231.604†	307.3	1.6	0.1090 µg/L	0.1090 ppb	18:53:27
2	P 214.914†	255.5	8.2	17.665 µg/L	17.665 ppb	18:53:27
2	Pb 220.353†	33.0	-10.6	-3.3520 µg/L	-3.3520 ppb	18:53:27

2	S 181.975 Axial†	19.5	-1.6	-6.1528 µg/L	-6.1528 ppb	18:53:27
2	Sb 206.836†	20.0	-1.5	-1.6272 µg/L	-1.6272 ppb	18:53:27
2	Se 196.026†	17.5	3.8	4.5772 µg/L	4.5772 ppb	18:53:27
2	SiO2†	1394.5	-20.7	-4.5136 µg/L	-4.5136 ppb	18:53:06
2	Si 251.611†	447.4	73.1	5.9769 µg/L	5.9769 ppb	18:53:27
2	Sn 189.927†	2.9	-1.7	-0.8061 µg/L	-0.8061 ppb	18:53:27
2	Ti 334.940†	170.3	174.5	0.4640 µg/L	0.4640 ppb	18:53:06
2	Tl 190.801†	-26.9	-0.7	-0.8409 µg/L	-0.8409 ppb	18:53:27
2	U 409.014†	206.9	51.3	5.0284 µg/L	5.0284 ppb	18:53:06
2	V 292.402†	-100.7	53.6	0.6803 µg/L	0.6803 ppb	18:53:06
2	Zn 213.857†	578.6	-14.9	-0.4022 µg/L	-0.4022 ppb	18:53:27
3	Sc RADIAL	107309.8	107309.8	98.3 %		18:51:58
3	Al 396.153Radial†	-168.7	3.3	1.5529 µg/L	1.5529 ppb	18:51:58
3	Ca 317.933Radial†	387.0	10.3	3.3316 µg/L	3.3316 ppb	18:52:18
3	Fe 238.204 Radial†	28.2	-2.6	-19.594 µg/L	-19.594 ppb	18:52:18
3	K 766.490 Radial†	284.1	58.3	33.106 µg/L	33.106 ppb	18:51:58
3	Mg 279.077 IEC†	9.6	0.9	9.5132 µg/L	9.5132 ppb	18:52:18
3	Na 589.592 Radial†	213.1	-18.4	-6.3874 µg/L	-6.3874 ppb	18:51:58
3	Sr 421.552†	147.8	-4.6	-0.0207 µg/L	-0.0207 ppb	18:51:58
3	Sc 361.383	1716235.9	1716235.9	101.99 %		18:53:33
3	Y 371.029	946864.8	946864.8	101.15 %		18:53:33
3	Ag 328.068†	-524.3	51.9	0.4609 µg/L	0.4609 ppb	18:53:39
3	As 188.979†	-5.9	-1.9	-3.5430 µg/L	-3.5430 ppb	18:53:59
3	B 249.677†	161.4	-0.4	-0.0138 µg/L	-0.0138 ppb	18:53:59
3	Ba 233.527†	-12.6	5.5	0.1423 µg/L	0.1423 ppb	18:53:59
3	Be 313.107†	-2010.6	-25.4	-0.0184 µg/L	-0.0184 ppb	18:53:39
3	Cd 226.502†	-133.9	13.0	0.3812 µg/L	0.3812 ppb	18:53:59
3	Co 228.616†	19.3	-3.3	-0.1721 µg/L	-0.1721 ppb	18:53:59
3	Cr 267.716†	60.7	-30.7	-0.7934 µg/L	-0.7934 ppb	18:53:39
3	Cu 324.752†	2722.9	46.6	0.3302 µg/L	0.3302 ppb	18:53:39
3	Mn 257.610†	-540.2	14.6	0.0515 µg/L	0.0515 ppb	18:53:59
3	Mo 202.031†	12.6	8.0	0.9177 µg/L	0.9177 ppb	18:53:59
3	Ni 231.604†	293.2	-11.2	-0.7760 µg/L	-0.7760 ppb	18:53:59
3	P 214.914†	251.5	5.1	10.914 µg/L	10.914 ppb	18:53:59
3	Pb 220.353†	44.7	1.0	0.3090 µg/L	0.3090 ppb	18:53:59
3	S 181.975 Axial†	25.3	4.1	15.698 µg/L	15.698 ppb	18:53:59
3	Sb 206.836†	24.0	2.5	2.6622 µg/L	2.6622 ppb	18:53:59
3	Se 196.026†	19.1	5.4	6.5827 µg/L	6.5827 ppb	18:53:59
3	SiO2†	1418.4	7.5	1.6335 µg/L	1.6335 ppb	18:53:39
3	Si 251.611†	426.2	53.8	4.4020 µg/L	4.4020 ppb	18:53:59
3	Sn 189.927†	8.6	3.8	1.8064 µg/L	1.8064 ppb	18:53:59
3	Ti 334.940†	176.9	181.5	0.4836 µg/L	0.4836 ppb	18:53:39
3	Tl 190.801†	-23.8	2.3	2.6771 µg/L	2.6771 ppb	18:53:59
3	U 409.014†	149.9	-3.9	-0.3779 µg/L	-0.3779 ppb	18:53:39
3	V 292.402†	-152.5	2.4	0.0342 µg/L	0.0342 ppb	18:53:39
3	Zn 213.857†	573.6	-17.9	-0.4788 µg/L	-0.4788 ppb	18:53:59

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717983.1	102.10 %	0.216			0.21%
Sc RADIAL	108510.5	99.4 %	0.97			0.98%
Y 371.029	944643.1	100.91 %	0.356			0.35%
Ag 328.068†	11.3	0.1016 µg/L	0.35294	0.1016 ppb	0.35294	347.27%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.3	2.5291 µg/L	3.17665	2.5291 ppb	3.17665	125.61%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.8	-1.4908 µg/L	3.25998	-1.4908 ppb	3.25998	218.67%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	15.3	0.8177 µg/L	0.80991	0.8177 ppb	0.80991	99.04%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.6	0.0174 µg/L	0.11748	0.0174 ppb	0.11748	673.65%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-139.8	-0.1002 µg/L	0.07745	-0.1002 ppb	0.07745	77.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.3	2.3602 µg/L	0.92238	2.3602 ppb	0.92238	39.08%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.3	0.2453 µg/L	0.25589	0.2453 ppb	0.25589	104.32%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.2	-0.2691 µg/L	0.29604	-0.2691 ppb	0.29604	110.03%

QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-24.3	-0.6279 µg/L	0.20921	-0.6279 ppb	0.20921	33.32%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	16.3	0.1143 µg/L	0.21198	0.1143 ppb	0.21198	185.46%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	-1.7	-13.093 µg/L	5.7490	-13.093 ppb	5.7490	43.91%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	16.5	9.3808 µg/L	49.34679	9.3808 ppb	49.34679	526.04%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	2.1	20.543 µg/L	11.1493	20.543 ppb	11.1493	54.27%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	9.6	0.0330 µg/L	0.05610	0.0330 ppb	0.05610	170.22%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	2.4	0.2747 µg/L	0.59564	0.2747 ppb	0.59564	216.81%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	17.1	5.9279 µg/L	12.11153	5.9279 ppb	12.11153	204.31%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-2.2	-0.1502 µg/L	0.54462	-0.1502 ppb	0.54462	362.57%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	5.6	12.146 µg/L	5.0179	12.146 ppb	5.0179	41.31%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-4.7	-1.4739 µg/L	1.83239	-1.4739 ppb	1.83239	124.33%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	1.0	3.9519 µg/L	11.01725	3.9519 ppb	11.01725	278.78%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	1.2	1.2661 µg/L	2.50612	1.2661 ppb	2.50612	197.94%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	3.6	4.3393 µg/L	2.37137	4.3393 ppb	2.37137	54.65%			
QC value within limits for Se 196.026 Recovery = Not calculated									
SiO2†	5.1	1.1231 µg/L	5.39963	1.1231 ppb	5.39963	480.78%			
QC value within limits for SiO2 Recovery = Not calculated									
Si 251.611†	51.0	4.1711 µg/L	1.93158	4.1711 ppb	1.93158	46.31%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	-0.6	-0.2561 µg/L	1.84993	-0.2561 ppb	1.84993	722.23%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-0.2	-0.0009 µg/L	0.06595	-0.0009 ppb	0.06595	>999.9%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	160.2	0.4258 µg/L	0.08376	0.4258 ppb	0.08376	19.67%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	0.2	0.2936 µg/L	2.06495	0.2936 ppb	2.06495	703.30%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	32.6	3.1995 µg/L	3.09835	3.1995 ppb	3.09835	96.84%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	31.6	0.4041 µg/L	0.33310	0.4041 ppb	0.33310	82.43%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-14.5	-0.3901 µg/L	0.09539	-0.3901 ppb	0.09539	24.45%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 26

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 19:26:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	108494.0	108494.0	99.4 %		19:26:54
1	Al 396.153Radial†	10332.6	10574.8	5049.9 µg/L	5049.9 ppb	19:26:54
1	Ca 317.933Radial†	16120.8	15842.2	5138.0 µg/L	5138.0 ppb	19:26:54
1	Fe 238.204 Radial†	689.4	662.6	4998.7 µg/L	4998.7 ppb	19:27:14
1	K 766.490 Radial†	9393.4	9223.8	5234.7 µg/L	5234.7 ppb	19:26:54
1	Mg 279.077 IEC†	520.9	515.5	5151.2 µg/L	5151.2 ppb	19:27:14
1	Na 589.592 Radial†	27560.7	27504.9	9523.3 µg/L	9523.3 ppb	19:26:54
1	Sr 421.552†	110248.2	110811.2	501.86 µg/L	501.86 ppb	19:26:54
1	Sc 361.383	1686553.0	1686553.0	100.23 %		19:28:18
1	Y 371.029	925412.3	925412.3	98.856 %		19:28:18
1	Ag 328.068†	56832.6	57267.7	515.66 µg/L	515.66 ppb	19:28:24
1	As 188.979†	283.5	286.7	527.75 µg/L	527.75 ppb	19:28:45
1	B 249.677†	9855.3	9674.0	511.36 µg/L	511.36 ppb	19:28:24
1	Ba 233.527†	20419.2	20390.1	526.45 µg/L	526.45 ppb	19:28:24
1	Be 313.107†	727527.6	727798.4	520.76 µg/L	520.76 ppb	19:28:18
1	Cd 226.502†	18005.5	18108.3	530.03 µg/L	530.03 ppb	19:28:24
1	Co 228.616†	10309.0	10263.0	531.87 µg/L	531.87 ppb	19:28:24
1	Cr 267.716†	20582.3	20444.7	529.01 µg/L	529.01 ppb	19:28:24
1	Cu 324.752†	74746.9	71951.7	516.72 µg/L	516.72 ppb	19:28:24
1	Mn 257.610†	145230.3	145440.2	530.30 µg/L	530.30 ppb	19:28:18
1	Mo 202.031†	4734.9	4719.7	539.64 µg/L	539.64 ppb	19:28:45
1	Ni 231.604†	8206.8	7889.2	546.50 µg/L	546.50 ppb	19:28:24
1	P 214.914†	1494.4	1249.5	2643.3 µg/L	2643.3 ppb	19:28:45
1	Pb 220.353†	1769.1	1722.2	542.51 µg/L	542.51 ppb	19:28:45
1	S 181.975 Axial†	306.4	285.0	1081.6 µg/L	1081.6 ppb	19:28:45
1	Sb 206.836†	512.7	490.5	526.04 µg/L	526.04 ppb	19:28:45
1	Se 196.026†	454.3	440.0	553.04 µg/L	553.04 ppb	19:28:45
1	SiO2†	27175.5	25729.7	5614.9 µg/L	5614.9 ppb	19:28:24
1	Si 251.611†	32499.6	32060.7	2620.9 µg/L	2620.9 ppb	19:28:24
1	Sn 189.927†	1168.4	1161.2	546.09 µg/L	546.09 ppb	19:28:45
1	Ti 334.940†	195302.1	194860.6	519.52 µg/L	519.52 ppb	19:28:18
1	Tl 190.801†	430.6	455.2	535.01 µg/L	535.01 ppb	19:28:45
1	U 409.014†	5306.2	5143.1	502.85 µg/L	502.85 ppb	19:28:24
1	V 292.402†	41144.0	41201.2	528.22 µg/L	528.22 ppb	19:28:24
1	Zn 213.857†	20513.2	19885.7	530.43 µg/L	530.43 ppb	19:28:24
2	Sc RADIAL	108096.9	108096.9	99.0 %		19:27:20
2	Al 396.153Radial†	10240.3	10519.7	5023.5 µg/L	5023.5 ppb	19:27:20
2	Ca 317.933Radial†	16020.6	15800.6	5124.5 µg/L	5124.5 ppb	19:27:20
2	Fe 238.204 Radial†	687.8	663.6	5006.2 µg/L	5006.2 ppb	19:27:41
2	K 766.490 Radial†	9302.7	9166.9	5202.4 µg/L	5202.4 ppb	19:27:20
2	Mg 279.077 IEC†	521.9	518.5	5180.3 µg/L	5180.3 ppb	19:27:41
2	Na 589.592 Radial†	27531.3	27577.1	9548.3 µg/L	9548.3 ppb	19:27:20
2	Sr 421.552†	109758.5	110724.2	501.47 µg/L	501.47 ppb	19:27:20
2	Sc 361.383	1687441.8	1687441.8	100.28 %		19:28:52
2	Y 371.029	930662.9	930662.9	99.417 %		19:28:52
2	Ag 328.068†	57439.6	57843.1	520.84 µg/L	520.84 ppb	19:28:57
2	As 188.979†	288.2	291.2	536.09 µg/L	536.09 ppb	19:29:18
2	B 249.677†	10041.6	9854.5	520.95 µg/L	520.95 ppb	19:28:57
2	Ba 233.527†	20676.9	20636.3	532.80 µg/L	532.80 ppb	19:28:57
2	Be 313.107†	733962.5	733832.8	525.08 µg/L	525.08 ppb	19:28:52
2	Cd 226.502†	18206.1	18298.8	535.61 µg/L	535.61 ppb	19:28:57
2	Co 228.616†	10412.1	10360.4	536.92 µg/L	536.92 ppb	19:28:57
2	Cr 267.716†	20849.9	20700.8	535.63 µg/L	535.63 ppb	19:28:57
2	Cu 324.752†	75437.2	72600.8	521.37 µg/L	521.37 ppb	19:28:57
2	Mn 257.610†	146348.7	146479.1	534.09 µg/L	534.09 ppb	19:28:52
2	Mo 202.031†	4743.6	4725.9	540.35 µg/L	540.35 ppb	19:29:18
2	Ni 231.604†	8313.8	7991.6	553.60 µg/L	553.60 ppb	19:28:57
2	P 214.914†	1490.7	1245.0	2633.2 µg/L	2633.2 ppb	19:29:18
2	Pb 220.353†	1754.9	1707.1	537.76 µg/L	537.76 ppb	19:29:18



2	S 181.975 Axial†	304.8	283.3	1075.2 µg/L	1075.2 ppb	19:29:18
2	Sb 206.836†	513.7	491.2	526.78 µg/L	526.78 ppb	19:29:18
2	Se 196.026†	455.1	440.5	553.70 µg/L	553.70 ppb	19:29:18
2	SiO2†	27550.8	26089.7	5693.5 µg/L	5693.5 ppb	19:28:57
2	Si 251.611†	32969.7	32512.5	2657.8 µg/L	2657.8 ppb	19:28:57
2	Sn 189.927†	1178.7	1170.8	550.61 µg/L	550.61 ppb	19:29:18
2	Ti 334.940†	196845.2	196296.7	523.35 µg/L	523.35 ppb	19:28:52
2	Tl 190.801†	431.0	455.4	535.22 µg/L	535.22 ppb	19:29:18
2	U 409.014†	5327.6	5161.7	504.67 µg/L	504.67 ppb	19:28:57
2	V 292.402†	41616.4	41650.6	533.94 µg/L	533.94 ppb	19:28:57
2	Zn 213.857†	20743.9	20105.0	536.28 µg/L	536.28 ppb	19:28:57
3	Sc RADIAL	108038.0	108038.0	98.9 %		19:27:46
3	Al 396.153Radial†	10299.2	10584.9	5056.2 µg/L	5056.2 ppb	19:27:46
3	Ca 317.933Radial†	16131.8	15921.8	5163.8 µg/L	5163.8 ppb	19:27:46
3	Fe 238.204 Radial†	685.8	661.9	4993.0 µg/L	4993.0 ppb	19:28:07
3	K 766.490 Radial†	9282.9	9152.0	5193.9 µg/L	5193.9 ppb	19:27:46
3	Mg 279.077 IEC†	515.0	511.8	5112.3 µg/L	5112.3 ppb	19:28:07
3	Na 589.592 Radial†	27619.2	27681.2	9584.4 µg/L	9584.4 ppb	19:27:46
3	Sr 421.552†	110021.6	111050.6	502.94 µg/L	502.94 ppb	19:27:46
3	Sc 361.383	1689706.7	1689706.7	100.42 %		19:29:25
3	Y 371.029	933063.4	933063.4	99.673 %		19:29:25
3	Ag 328.068†	55106.2	55442.6	499.13 µg/L	499.13 ppb	19:29:30
3	As 188.979†	256.8	259.6	477.90 µg/L	477.90 ppb	19:29:51
3	B 249.677†	9553.4	9354.9	494.38 µg/L	494.38 ppb	19:29:30
3	Ba 233.527†	19459.5	19396.4	500.78 µg/L	500.78 ppb	19:29:30
3	Be 313.107†	704954.5	703964.6	503.71 µg/L	503.71 ppb	19:29:25
3	Cd 226.502†	17077.7	17150.8	501.97 µg/L	501.97 ppb	19:29:30
3	Co 228.616†	9686.2	9623.6	498.67 µg/L	498.67 ppb	19:29:30
3	Cr 267.716†	18971.4	18802.2	486.51 µg/L	486.51 ppb	19:29:30
3	Cu 324.752†	70858.7	67940.6	487.96 µg/L	487.96 ppb	19:29:30
3	Mn 257.610†	141317.1	141272.8	515.11 µg/L	515.11 ppb	19:29:25
3	Mo 202.031†	4125.6	4104.1	469.28 µg/L	469.28 ppb	19:29:51
3	Ni 231.604†	7762.7	7431.7	514.81 µg/L	514.81 ppb	19:29:30
3	P 214.914†	1349.6	1102.5	2328.5 µg/L	2328.5 ppb	19:29:51
3	Pb 220.353†	1590.5	1541.0	485.34 µg/L	485.34 ppb	19:29:51
3	S 181.975 Axial†	277.0	255.2	968.44 µg/L	968.44 ppb	19:29:51
3	Sb 206.836†	460.0	437.0	468.34 µg/L	468.34 ppb	19:29:51
3	Se 196.026†	410.3	395.2	498.11 µg/L	498.11 ppb	19:29:51
3	SiO2†	26174.4	24682.2	5386.3 µg/L	5386.3 ppb	19:29:30
3	Si 251.611†	31320.5	30826.0	2519.9 µg/L	2519.9 ppb	19:29:30
3	Sn 189.927†	1008.7	1000.0	470.34 µg/L	470.34 ppb	19:29:51
3	Ti 334.940†	188678.5	187901.0	500.96 µg/L	500.96 ppb	19:29:25
3	Tl 190.801†	404.2	428.1	503.31 µg/L	503.31 ppb	19:29:51
3	U 409.014†	4980.1	4808.5	470.07 µg/L	470.07 ppb	19:29:30
3	V 292.402†	38587.4	38578.6	494.31 µg/L	494.31 ppb	19:29:30
3	Zn 213.857†	19324.7	18663.9	497.80 µg/L	497.80 ppb	19:29:30

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1687900.5	100.31 %	0.097			0.10%
Sc RADIAL	108209.6	99.1 %	0.23			0.23%
Y 371.029	929712.8	99.315 %	0.4180			0.42%
Ag 328.068†	56851.1	511.88 µg/L	11.334	511.88 ppb	11.334	2.21%
QC value within limits for Ag 328.068 Recovery = 102.38%						
Al 396.153Radial†	10559.8	5043.2 µg/L	17.33	5043.2 ppb	17.33	0.34%
QC value within limits for Al 396.153Radial Recovery = 100.86%						
As 188.979†	279.2	513.91 µg/L	31.469	513.91 ppb	31.469	6.12%
QC value within limits for As 188.979 Recovery = 102.78%						
B 249.677†	9627.8	508.89 µg/L	13.456	508.89 ppb	13.456	2.64%
QC value within limits for B 249.677 Recovery = 101.78%						
Ba 233.527†	20140.9	520.01 µg/L	16.956	520.01 ppb	16.956	3.26%
QC value within limits for Ba 233.527 Recovery = 104.00%						
Be 313.107†	721865.3	516.52 µg/L	11.300	516.52 ppb	11.300	2.19%
QC value within limits for Be 313.107 Recovery = 103.30%						
Ca 317.933Radial†	15854.9	5142.1 µg/L	19.98	5142.1 ppb	19.98	0.39%
QC value within limits for Ca 317.933Radial Recovery = 102.84%						
Cd 226.502†	17852.6	522.54 µg/L	18.028	522.54 ppb	18.028	3.45%
QC value within limits for Cd 226.502 Recovery = 104.51%						
Co 228.616†	10082.3	522.49 µg/L	20.779	522.49 ppb	20.779	3.98%

QC value within limits for Co 228.616 Recovery = 104.50%							
Cr 267.716†	19982.6	517.05 µg/L	26.654	517.05 ppb	26.654	5.16%	
QC value within limits for Cr 267.716 Recovery = 103.41%							
Cu 324.752†	70831.1	508.68 µg/L	18.095	508.68 ppb	18.095	3.56%	
QC value within limits for Cu 324.752 Recovery = 101.74%							
Fe 238.204 Radial†	662.7	4999.3 µg/L	6.63	4999.3 ppb	6.63	0.13%	
QC value within limits for Fe 238.204 Radial Recovery = 99.99%							
K 766.490 Radial†	9180.9	5210.3 µg/L	21.51	5210.3 ppb	21.51	0.41%	
QC value within limits for K 766.490 Radial Recovery = 104.21%							
Mg 279.077 IEC†	515.3	5147.9 µg/L	34.14	5147.9 ppb	34.14	0.66%	
QC value within limits for Mg 279.077 IEC Recovery = 102.96%							
Mn 257.610†	144397.4	526.50 µg/L	10.046	526.50 ppb	10.046	1.91%	
QC value within limits for Mn 257.610 Recovery = 105.30%							
Mo 202.031†	4516.5	516.42 µg/L	40.831	516.42 ppb	40.831	7.91%	
QC value within limits for Mo 202.031 Recovery = 103.28%							
Na 589.592 Radial†	27587.7	9552.0 µg/L	30.68	9552.0 ppb	30.68	0.32%	
QC value within limits for Na 589.592 Radial Recovery = 95.52%							
Ni 231.604†	7770.8	538.30 µg/L	20.650	538.30 ppb	20.650	3.84%	
QC value within limits for Ni 231.604 Recovery = 107.66%							
P 214.914†	1199.0	2535.0 µg/L	178.92	2535.0 ppb	178.92	7.06%	
QC value within limits for P 214.914 Recovery = 101.40%							
Pb 220.353†	1656.8	521.87 µg/L	31.723	521.87 ppb	31.723	6.08%	
QC value within limits for Pb 220.353 Recovery = 104.37%							
S 181.975 Axial†	274.5	1041.8 µg/L	63.57	1041.8 ppb	63.57	6.10%	
QC value within limits for S 181.975 Axial Recovery = 104.18%							
Sb 206.836†	472.9	507.05 µg/L	33.533	507.05 ppb	33.533	6.61%	
QC value within limits for Sb 206.836 Recovery = 101.41%							
Se 196.026†	425.2	534.95 µg/L	31.904	534.95 ppb	31.904	5.96%	
QC value within limits for Se 196.026 Recovery = 106.99%							
SiO2†	25500.5	5564.9 µg/L	159.56	5564.9 ppb	159.56	2.87%	
QC value within limits for SiO2 Recovery = 104.07%							
Si 251.611†	31799.7	2599.5 µg/L	71.36	2599.5 ppb	71.36	2.75%	
QC value within limits for Si 251.611 Recovery = 103.98%							
Sn 189.927†	1110.6	522.35 µg/L	45.098	522.35 ppb	45.098	8.63%	
QC value within limits for Sn 189.927 Recovery = 104.47%							
Sr 421.552†	110862.0	502.09 µg/L	0.766	502.09 ppb	0.766	0.15%	
QC value within limits for Sr 421.552 Recovery = 100.42%							
Ti 334.940†	193019.4	514.61 µg/L	11.977	514.61 ppb	11.977	2.33%	
QC value within limits for Ti 334.940 Recovery = 102.92%							
Tl 190.801†	446.2	524.51 µg/L	18.364	524.51 ppb	18.364	3.50%	
QC value within limits for Tl 190.801 Recovery = 104.90%							
U 409.014†	5037.8	492.53 µg/L	19.473	492.53 ppb	19.473	3.95%	
QC value within limits for U 409.014 Recovery = 98.51%							
V 292.402†	40476.8	518.82 µg/L	21.420	518.82 ppb	21.420	4.13%	
QC value within limits for V 292.402 Recovery = 103.76%							
Zn 213.857†	19551.5	521.50 µg/L	20.736	521.50 ppb	20.736	3.98%	
QC value within limits for Zn 213.857 Recovery = 104.30%							

All analyte(s) passed QC.

Sequence No.: 27

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 19:30:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	106731.4	106731.4	97.7	%			19:30:34
1	Al 396.153Radial†	-151.3	20.1	9.6232	µg/L	9.6232	ppb	19:30:34
1	Ca 317.933Radial†	382.2	7.5	2.4340	µg/L	2.4340	ppb	19:30:54
1	Fe 238.204 Radial†	30.9	0.3	2.3141	µg/L	2.3141	ppb	19:30:54
1	K 766.490 Radial†	225.0	-0.5	-0.2948	µg/L	-0.2948	ppb	19:30:34
1	Mg 279.077 IEC†	12.4	3.9	38.794	µg/L	38.794	ppb	19:30:54
1	Na 589.592 Radial†	197.8	-32.9	-11.403	µg/L	-11.403	ppb	19:30:34
1	Sr 421.552†	153.7	2.2	0.0102	µg/L	0.0102	ppb	19:30:34
1	Sc 361.383	1679183.0	1679183.0	99.793	%			19:31:56
1	Y 371.029	925593.4	925593.4	98.875	%			19:31:56
1	Ag 328.068†	-544.0	20.7	0.1842	µg/L	0.1842	ppb	19:32:02
1	As 188.979†	-5.7	-1.9	-3.4494	µg/L	-3.4494	ppb	19:32:22
1	B 249.677†	177.4	19.2	1.0145	µg/L	1.0145	ppb	19:32:22
1	Ba 233.527†	-19.7	-1.9	-0.0483	µg/L	-0.0483	ppb	19:32:22
1	Be 313.107†	-2073.6	-132.1	-0.0947	µg/L	-0.0947	ppb	19:32:02
1	Cd 226.502†	-147.9	-4.0	-0.1172	µg/L	-0.1172	ppb	19:32:22
1	Co 228.616†	21.5	-0.7	-0.0355	µg/L	-0.0355	ppb	19:32:22
1	Cr 267.716†	83.2	-6.8	-0.1766	µg/L	-0.1766	ppb	19:32:22
1	Cu 324.752†	2720.5	103.1	0.7397	µg/L	0.7397	ppb	19:32:02
1	Mn 257.610†	-482.5	60.8	0.2191	µg/L	0.2191	ppb	19:32:22
1	Mo 202.031†	8.1	3.7	0.4283	µg/L	0.4283	ppb	19:32:22
1	Ni 231.604†	302.6	4.6	0.3187	µg/L	0.3187	ppb	19:32:22
1	P 214.914†	252.0	11.1	23.796	µg/L	23.796	ppb	19:32:22
1	Pb 220.353†	47.7	4.9	1.5574	µg/L	1.5574	ppb	19:32:22
1	S 181.975 Axial†	18.9	-1.7	-6.4825	µg/L	-6.4825	ppb	19:32:22
1	Sb 206.836†	22.5	1.6	1.6736	µg/L	1.6736	ppb	19:32:22
1	Se 196.026†	17.3	4.0	4.9378	µg/L	4.9378	ppb	19:32:22
1	SiO2†	1455.4	75.3	16.426	µg/L	16.426	ppb	19:32:02
1	Si 251.611†	453.8	90.7	7.4139	µg/L	7.4139	ppb	19:32:22
1	Sn 189.927†	2.8	-1.7	-0.7993	µg/L	-0.7993	ppb	19:32:22
1	Ti 334.940†	144.1	152.5	0.4039	µg/L	0.4039	ppb	19:32:02
1	Tl 190.801†	-27.3	-1.8	-2.0809	µg/L	-2.0809	ppb	19:32:22
1	U 409.014†	122.4	-28.2	-2.7602	µg/L	-2.7602	ppb	19:32:02
1	V 292.402†	-168.5	-16.9	-0.2139	µg/L	-0.2139	ppb	19:32:02
1	Zn 213.857†	587.0	7.9	0.2081	µg/L	0.2081	ppb	19:32:22
2	Sc RADIAL	107199.6	107199.6	98.2	%			19:30:59
2	Al 396.153Radial†	-168.1	3.6	1.7236	µg/L	1.7236	ppb	19:30:59
2	Ca 317.933Radial†	391.9	15.6	5.0641	µg/L	5.0641	ppb	19:31:20
2	Fe 238.204 Radial†	30.7	0.0	0.0902	µg/L	0.0902	ppb	19:31:20
2	K 766.490 Radial†	265.7	39.9	22.648	µg/L	22.648	ppb	19:30:59
2	Mg 279.077 IEC†	15.9	7.4	74.370	µg/L	74.370	ppb	19:31:20
2	Na 589.592 Radial†	243.9	13.2	4.5593	µg/L	4.5593	ppb	19:30:59
2	Sr 421.552†	160.8	8.8	0.0400	µg/L	0.0400	ppb	19:30:59
2	Sc 361.383	1673738.8	1673738.8	99.469	%			19:32:28
2	Y 371.029	931385.4	931385.4	99.494	%			19:32:28
2	Ag 328.068†	-487.4	76.0	0.6829	µg/L	0.6829	ppb	19:32:34
2	As 188.979†	-4.4	-0.6	-1.0209	µg/L	-1.0209	ppb	19:32:54
2	B 249.677†	180.0	22.4	1.1850	µg/L	1.1850	ppb	19:32:54
2	Ba 233.527†	-21.7	-3.9	-0.1002	µg/L	-0.1002	ppb	19:32:54
2	Be 313.107†	-1998.9	-63.8	-0.0459	µg/L	-0.0459	ppb	19:32:34
2	Cd 226.502†	-141.7	1.8	0.0524	µg/L	0.0524	ppb	19:32:54
2	Co 228.616†	22.7	0.6	0.0310	µg/L	0.0310	ppb	19:32:54
2	Cr 267.716†	63.4	-26.4	-0.6822	µg/L	-0.6822	ppb	19:32:54
2	Cu 324.752†	2748.5	140.1	1.0046	µg/L	1.0046	ppb	19:32:34
2	Mn 257.610†	-495.8	45.8	0.1621	µg/L	0.1621	ppb	19:32:54
2	Mo 202.031†	12.4	8.1	0.9280	µg/L	0.9280	ppb	19:32:54
2	Ni 231.604†	310.4	13.4	0.9305	µg/L	0.9305	ppb	19:32:54
2	P 214.914†	261.8	21.7	46.599	µg/L	46.599	ppb	19:32:54
2	Pb 220.353†	50.2	7.6	2.4023	µg/L	2.4023	ppb	19:32:54

2	S 181.975 Axial†	23.1	2.6	9.6809 µg/L	9.6809 ppb	19:32:54
2	Sb 206.836†	23.4	2.5	2.7268 µg/L	2.7268 ppb	19:32:54
2	Se 196.026†	18.2	5.0	6.0380 µg/L	6.0380 ppb	19:32:54
2	SiO2†	1468.8	93.5	20.399 µg/L	20.399 ppb	19:32:34
2	Si 251.611†	456.9	95.3	7.7920 µg/L	7.7920 ppb	19:32:54
2	Sn 189.927†	1.2	-3.4	-1.5772 µg/L	-1.5772 ppb	19:32:54
2	Ti 334.940†	207.5	216.8	0.5725 µg/L	0.5725 ppb	19:32:34
2	Tl 190.801†	-25.3	0.2	0.1803 µg/L	0.1803 ppb	19:32:54
2	U 409.014†	137.4	-12.7	-1.2442 µg/L	-1.2442 ppb	19:32:34
2	V 292.402†	-99.2	52.2	0.6659 µg/L	0.6659 ppb	19:32:34
2	Zn 213.857†	587.9	10.8	0.2792 µg/L	0.2792 ppb	19:32:54
3	Sc RADIAL	106302.9	106302.9	97.3 %		19:31:25
3	Al 396.153Radial†	-166.7	3.6	1.7190 µg/L	1.7190 ppb	19:31:25
3	Ca 317.933Radial†	391.3	18.4	5.9661 µg/L	5.9661 ppb	19:31:46
3	Fe 238.204 Radial†	28.6	-1.9	-14.148 µg/L	-14.148 ppb	19:31:46
3	K 766.490 Radial†	292.7	69.9	39.696 µg/L	39.696 ppb	19:31:25
3	Mg 279.077 IEC†	8.2	-0.3	-2.9437 µg/L	-2.9437 ppb	19:31:46
3	Na 589.592 Radial†	207.9	-21.7	-7.5069 µg/L	-7.5069 ppb	19:31:25
3	Sr 421.552†	188.6	38.8	0.1756 µg/L	0.1756 ppb	19:31:25
3	Sc 361.383	1672453.7	1672453.7	99.393 %		19:33:00
3	Y 371.029	924143.3	924143.3	98.720 %		19:33:00
3	Ag 328.068†	-430.9	132.4	1.1798 µg/L	1.1798 ppb	19:33:06
3	As 188.979†	-7.2	-3.4	-6.2352 µg/L	-6.2352 ppb	19:33:26
3	B 249.677†	169.3	11.7	0.6303 µg/L	0.6303 ppb	19:33:26
3	Ba 233.527†	-19.6	-1.8	-0.0459 µg/L	-0.0459 ppb	19:33:26
3	Be 313.107†	-2010.0	-76.5	-0.0550 µg/L	-0.0550 ppb	19:33:06
3	Cd 226.502†	-141.7	1.7	0.0509 µg/L	0.0509 ppb	19:33:26
3	Co 228.616†	21.8	-0.3	-0.0141 µg/L	-0.0141 ppb	19:33:26
3	Cr 267.716†	93.9	4.3	0.1111 µg/L	0.1111 ppb	19:33:26
3	Cu 324.752†	2743.9	137.6	0.9837 µg/L	0.9837 ppb	19:33:06
3	Mn 257.610†	-469.0	72.4	0.2633 µg/L	0.2633 ppb	19:33:26
3	Mo 202.031†	15.8	11.6	1.3233 µg/L	1.3233 ppb	19:33:26
3	Ni 231.604†	307.6	10.9	0.7529 µg/L	0.7529 ppb	19:33:26
3	P 214.914†	244.8	4.8	10.313 µg/L	10.313 ppb	19:33:26
3	Pb 220.353†	39.6	-3.0	-0.9400 µg/L	-0.9400 ppb	19:33:26
3	S 181.975 Axial†	23.2	2.6	9.9787 µg/L	9.9787 ppb	19:33:26
3	Sb 206.836†	25.9	5.1	5.4221 µg/L	5.4221 ppb	19:33:26
3	Se 196.026†	19.4	6.2	7.5858 µg/L	7.5858 ppb	19:33:26
3	SiO2†	1620.6	247.3	53.978 µg/L	53.978 ppb	19:33:06
3	Si 251.611†	462.6	101.5	8.2946 µg/L	8.2946 ppb	19:33:26
3	Sn 189.927†	5.2	0.7	0.3411 µg/L	0.3411 ppb	19:33:26
3	Ti 334.940†	185.8	195.1	0.5208 µg/L	0.5208 ppb	19:33:06
3	Tl 190.801†	-23.2	2.3	2.6580 µg/L	2.6580 ppb	19:33:26
3	U 409.014†	73.2	-77.2	-7.5590 µg/L	-7.5590 ppb	19:33:06
3	V 292.402†	-162.5	-11.5	-0.1438 µg/L	-0.1438 ppb	19:33:06
3	Zn 213.857†	584.1	7.4	0.1945 µg/L	0.1945 ppb	19:33:26

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1675125.2	99.552 %	0.2123			0.21%
Sc RADIAL	106744.6	97.8 %	0.41			0.42%
Y 371.029	927040.7	99.030 %	0.4093			0.41%
Ag 328.068†	76.4	0.6823 µg/L	0.49782	0.6823 ppb	0.49782	72.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.1	4.3553 µg/L	4.56213	4.3553 ppb	4.56213	104.75%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.9	-3.5685 µg/L	2.60917	-3.5685 ppb	2.60917	73.12%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	17.8	0.9433 µg/L	0.28414	0.9433 ppb	0.28414	30.12%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.5	-0.0648 µg/L	0.03068	-0.0648 ppb	0.03068	47.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-90.8	-0.0652 µg/L	0.02598	-0.0652 ppb	0.02598	39.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	13.8	4.4881 µg/L	1.83518	4.4881 ppb	1.83518	40.89%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.2	-0.0046 µg/L	0.09748	-0.0046 ppb	0.09748	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.1	-0.0062 µg/L	0.03397	-0.0062 ppb	0.03397	546.45%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-9.6 -0.2492 µg/L	0.40161 -0.2492 ppb	0.40161 161.14%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	127.0 0.9093 µg/L	0.14726 0.9093 ppb	0.14726 16.19%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-0.5 -3.9144 µg/L	8.93171 -3.9144 ppb	8.93171 228.17%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	36.4 20.683 µg/L	20.0678 20.683 ppb	20.0678 97.03%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	3.7 36.740 µg/L	38.6976 36.740 ppb	38.6976 105.33%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	59.7 0.2148 µg/L	0.05075 0.2148 ppb	0.05075 23.62%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	7.8 0.8932 µg/L	0.44850 0.8932 ppb	0.44850 50.21%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-13.8 -4.7836 µg/L	8.32241 -4.7836 ppb	8.32241 173.98%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	9.6 0.6674 µg/L	0.31478 0.6674 ppb	0.31478 47.17%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	12.5 26.903 µg/L	18.3413 26.903 ppb	18.3413 68.18%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	3.2 1.0066 µg/L	1.73792 1.0066 ppb	1.73792 172.66%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.2 4.3924 µg/L	9.41909 4.3924 ppb	9.41909 214.44%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	3.1 3.2742 µg/L	1.93326 3.2742 ppb	1.93326 59.05%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	5.1 6.1872 µg/L	1.33029 6.1872 ppb	1.33029 21.50%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	138.7 30.268 µg/L	20.6296 30.268 ppb	20.6296 68.16%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	95.8 7.8335 µg/L	0.44179 7.8335 ppb	0.44179 5.64%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	-1.5 -0.6785 µg/L	0.96487 -0.6785 ppb	0.96487 142.21%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	16.6 0.0753 µg/L	0.08819 0.0753 ppb	0.08819 117.16%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	188.1 0.4991 µg/L	0.08636 0.4991 ppb	0.08636 17.30%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.2 0.2525 µg/L	2.37029 0.2525 ppb	2.37029 938.85%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-39.3 -3.8544 µg/L	3.29655 -3.8544 ppb	3.29655 85.53%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	7.9 0.1027 µg/L	0.48898 0.1027 ppb	0.48898 476.00%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	8.7 0.2273 µg/L	0.04550 0.2273 ppb	0.04550 20.02%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 20:03:02

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	108763.3	108763.3	99.6 %		20:03:40
1	Al 396.153Radial†	10312.2	10528.6	5027.9 µg/L	5027.9 ppb	20:03:40
1	Ca 317.933Radial†	16131.5	15812.8	5128.5 µg/L	5128.5 ppb	20:03:40
1	Fe 238.204 Radial†	683.7	655.1	4942.6 µg/L	4942.6 ppb	20:04:00
1	K 766.490 Radial†	9403.2	9210.2	5227.0 µg/L	5227.0 ppb	20:03:40
1	Mg 279.077 IEC†	518.7	512.0	5115.5 µg/L	5115.5 ppb	20:04:00
1	Na 589.592 Radial†	27392.2	27267.1	9441.0 µg/L	9441.0 ppb	20:03:40
1	Sr 421.552†	109561.4	109847.0	497.49 µg/L	497.49 ppb	20:03:40
1	Sc 361.383	1697631.8	1697631.8	100.89 %		20:05:04
1	Y 371.029	933053.7	933053.7	99.672 %		20:05:04
1	Ag 328.068†	56953.4	57017.4	513.39 µg/L	513.39 ppb	20:05:10
1	As 188.979†	289.5	290.8	535.35 µg/L	535.35 ppb	20:05:30
1	B 249.677†	9872.6	9627.0	508.89 µg/L	508.89 ppb	20:05:10
1	Ba 233.527†	20358.8	20197.3	521.47 µg/L	521.47 ppb	20:05:10
1	Be 313.107†	726093.6	721640.2	516.36 µg/L	516.36 ppb	20:05:04
1	Cd 226.502†	17928.2	17914.5	524.36 µg/L	524.36 ppb	20:05:10
1	Co 228.616†	10262.2	10149.5	525.98 µg/L	525.98 ppb	20:05:10
1	Cr 267.716†	20572.0	20300.5	525.27 µg/L	525.27 ppb	20:05:10
1	Cu 324.752†	74772.3	71490.3	513.40 µg/L	513.40 ppb	20:05:10
1	Mn 257.610†	144825.5	144093.4	525.39 µg/L	525.39 ppb	20:05:04
1	Mo 202.031†	4688.2	4642.5	530.82 µg/L	530.82 ppb	20:05:30
1	Ni 231.604†	8179.1	7808.4	540.90 µg/L	540.90 ppb	20:05:10
1	P 214.914†	1481.9	1227.4	2595.9 µg/L	2595.9 ppb	20:05:30
1	Pb 220.353†	1741.7	1683.5	530.32 µg/L	530.32 ppb	20:05:30
1	S 181.975 Axial†	301.6	278.3	1056.2 µg/L	1056.2 ppb	20:05:30
1	Sb 206.836†	506.9	481.4	516.21 µg/L	516.21 ppb	20:05:30
1	Se 196.026†	451.3	434.1	545.62 µg/L	545.62 ppb	20:05:30
1	SiO2†	27059.5	25437.9	5551.2 µg/L	5551.2 ppb	20:05:10
1	Si 251.611†	32464.6	31814.5	2600.7 µg/L	2600.7 ppb	20:05:10
1	Sn 189.927†	1162.4	1147.6	539.74 µg/L	539.74 ppb	20:05:30
1	Ti 334.940†	194887.8	193178.4	515.03 µg/L	515.03 ppb	20:05:04
1	Tl 190.801†	423.1	445.0	523.06 µg/L	523.06 ppb	20:05:30
1	U 409.014†	5264.8	5067.5	495.45 µg/L	495.45 ppb	20:05:10
1	V 292.402†	41105.4	40895.1	524.26 µg/L	524.26 ppb	20:05:10
1	Zn 213.857†	20401.1	19641.0	523.89 µg/L	523.89 ppb	20:05:10
2	Sc RADIAL	108576.9	108576.9	99.4 %		20:04:06
2	Al 396.153Radial†	10351.0	10585.3	5055.1 µg/L	5055.1 ppb	20:04:06
2	Ca 317.933Radial†	16281.8	15991.8	5186.5 µg/L	5186.5 ppb	20:04:06
2	Fe 238.204 Radial†	689.9	662.5	4998.2 µg/L	4998.2 ppb	20:04:26
2	K 766.490 Radial†	9465.2	9288.8	5271.6 µg/L	5271.6 ppb	20:04:06
2	Mg 279.077 IEC†	517.2	511.4	5109.7 µg/L	5109.7 ppb	20:04:26
2	Na 589.592 Radial†	27517.8	27440.6	9501.1 µg/L	9501.1 ppb	20:04:06
2	Sr 421.552†	110237.9	110716.1	501.43 µg/L	501.43 ppb	20:04:06
2	Sc 361.383	1699865.8	1699865.8	101.02 %		20:05:37
2	Y 371.029	935103.1	935103.1	99.891 %		20:05:37
2	Ag 328.068†	56583.5	56577.1	509.45 µg/L	509.45 ppb	20:05:43
2	As 188.979†	289.8	290.7	535.19 µg/L	535.19 ppb	20:06:03
2	B 249.677†	9856.5	9598.1	507.33 µg/L	507.33 ppb	20:05:43
2	Ba 233.527†	20289.9	20102.5	519.03 µg/L	519.03 ppb	20:05:43
2	Be 313.107†	728271.4	722850.1	517.22 µg/L	517.22 ppb	20:05:37
2	Cd 226.502†	17876.9	17840.3	522.18 µg/L	522.18 ppb	20:05:43
2	Co 228.616†	10209.9	10084.4	522.61 µg/L	522.61 ppb	20:05:43
2	Cr 267.716†	20429.2	20132.4	520.93 µg/L	520.93 ppb	20:05:43
2	Cu 324.752†	74222.0	70848.1	508.81 µg/L	508.81 ppb	20:05:43
2	Mn 257.610†	145300.3	144374.7	526.42 µg/L	526.42 ppb	20:05:37
2	Mo 202.031†	4705.5	4653.6	532.09 µg/L	532.09 ppb	20:06:03
2	Ni 231.604†	8141.6	7760.6	537.60 µg/L	537.60 ppb	20:05:43
2	P 214.914†	1488.9	1232.4	2607.1 µg/L	2607.1 ppb	20:06:03
2	Pb 220.353†	1750.5	1689.9	532.34 µg/L	532.34 ppb	20:06:03

2	S 181.975 Axial†	301.5	277.8	1054.2 µg/L	1054.2 ppb	20:06:03
2	Sb 206.836†	512.2	486.0	521.19 µg/L	521.19 ppb	20:06:03
2	Se 196.026†	452.0	434.1	545.91 µg/L	545.91 ppb	20:06:03
2	SiO2†	26998.8	25342.5	5530.4 µg/L	5530.4 ppb	20:05:43
2	Si 251.611†	32364.8	31673.4	2589.2 µg/L	2589.2 ppb	20:05:43
2	Sn 189.927†	1152.5	1136.3	534.38 µg/L	534.38 ppb	20:06:03
2	Ti 334.940†	195002.9	193038.4	514.66 µg/L	514.66 ppb	20:05:37
2	Tl 190.801†	431.7	453.0	532.36 µg/L	532.36 ppb	20:06:03
2	U 409.014†	5351.8	5146.9	503.21 µg/L	503.21 ppb	20:05:43
2	V 292.402†	40959.9	40697.5	521.76 µg/L	521.76 ppb	20:05:43
2	Zn 213.857†	20319.9	19534.0	521.04 µg/L	521.04 ppb	20:05:43
3	Sc RADIAL	107598.0	107598.0	98.5 %		20:04:32
3	Al 396.153Radial†	10274.8	10602.7	5064.8 µg/L	5064.8 ppb	20:04:32
3	Ca 317.933Radial†	16052.5	15908.0	5159.4 µg/L	5159.4 ppb	20:04:32
3	Fe 238.204 Radial†	685.9	664.9	5015.1 µg/L	5015.1 ppb	20:04:52
3	K 766.490 Radial†	9321.1	9229.2	5237.7 µg/L	5237.7 ppb	20:04:32
3	Mg 279.077 IEC†	514.4	513.3	5127.8 µg/L	5127.8 ppb	20:04:52
3	Na 589.592 Radial†	27402.7	27575.6	9547.8 µg/L	9547.8 ppb	20:04:32
3	Sr 421.552†	109623.1	111100.9	503.17 µg/L	503.17 ppb	20:04:32
3	Sc 361.383	1700177.1	1700177.1	101.04 %		20:06:11
3	Y 371.029	936683.8	936683.8	100.06 %		20:06:11
3	Ag 328.068†	54996.1	54995.7	495.13 µg/L	495.13 ppb	20:06:16
3	As 188.979†	254.5	255.8	470.78 µg/L	470.78 ppb	20:06:37
3	B 249.677†	9498.4	9241.9	488.37 µg/L	488.37 ppb	20:06:16
3	Ba 233.527†	19505.6	19322.6	498.87 µg/L	498.87 ppb	20:06:16
3	Be 313.107†	705466.0	700147.6	500.98 µg/L	500.98 ppb	20:06:11
3	Cd 226.502†	17105.2	17073.2	499.70 µg/L	499.70 ppb	20:06:16
3	Co 228.616†	9707.5	9585.3	496.69 µg/L	496.69 ppb	20:06:16
3	Cr 267.716†	19007.1	18721.3	484.42 µg/L	484.42 ppb	20:06:16
3	Cu 324.752†	70635.5	67285.1	483.27 µg/L	483.27 ppb	20:06:16
3	Mn 257.610†	141116.0	140207.2	511.22 µg/L	511.22 ppb	20:06:11
3	Mo 202.031†	4110.6	4064.0	464.70 µg/L	464.70 ppb	20:06:37
3	Ni 231.604†	7817.7	7438.6	515.29 µg/L	515.29 ppb	20:06:16
3	P 214.914†	1350.7	1095.3	2313.5 µg/L	2313.5 ppb	20:06:37
3	Pb 220.353†	1574.3	1515.3	477.23 µg/L	477.23 ppb	20:06:37
3	S 181.975 Axial†	274.8	251.3	953.83 µg/L	953.83 ppb	20:06:37
3	Sb 206.836†	458.8	433.1	464.09 µg/L	464.09 ppb	20:06:37
3	Se 196.026†	410.4	392.9	495.30 µg/L	495.30 ppb	20:06:37
3	SiO2†	26216.6	24563.5	5360.4 µg/L	5360.4 ppb	20:06:16
3	Si 251.611†	31429.0	30741.4	2513.0 µg/L	2513.0 ppb	20:06:16
3	Sn 189.927†	999.8	985.0	463.29 µg/L	463.29 ppb	20:06:37
3	Ti 334.940†	188202.5	186272.7	496.61 µg/L	496.61 ppb	20:06:11
3	Tl 190.801†	395.4	416.9	490.26 µg/L	490.26 ppb	20:06:37
3	U 409.014†	5000.3	4798.0	469.03 µg/L	469.03 ppb	20:06:16
3	V 292.402†	38610.4	38364.8	491.56 µg/L	491.56 ppb	20:06:16
3	Zn 213.857†	19399.7	18619.7	496.61 µg/L	496.61 ppb	20:06:16

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1699224.9	100.98 %	0.083			0.08%
Sc RADIAL	108312.7	99.2 %	0.57			0.58%
Y 371.029	934946.9	99.875 %	0.1944			0.19%
Ag 328.068†	56196.7	505.99 µg/L	9.609	505.99 ppb	9.609	1.90%
QC value within limits for Ag 328.068 Recovery = 101.20%						
Al 396.153Radial†	10572.2	5049.3 µg/L	19.10	5049.3 ppb	19.10	0.38%
QC value within limits for Al 396.153Radial Recovery = 100.99%						
As 188.979†	279.1	513.77 µg/L	37.231	513.77 ppb	37.231	7.25%
QC value within limits for As 188.979 Recovery = 102.75%						
B 249.677†	9489.0	501.53 µg/L	11.427	501.53 ppb	11.427	2.28%
QC value within limits for B 249.677 Recovery = 100.31%						
Ba 233.527†	19874.2	513.12 µg/L	12.403	513.12 ppb	12.403	2.42%
QC value within limits for Ba 233.527 Recovery = 102.62%						
Be 313.107†	714879.3	511.52 µg/L	9.138	511.52 ppb	9.138	1.79%
QC value within limits for Be 313.107 Recovery = 102.30%						
Ca 317.933Radial†	15904.2	5158.1 µg/L	29.04	5158.1 ppb	29.04	0.56%
QC value within limits for Ca 317.933Radial Recovery = 103.16%						
Cd 226.502†	17609.3	515.41 µg/L	13.650	515.41 ppb	13.650	2.65%
QC value within limits for Cd 226.502 Recovery = 103.08%						
Co 228.616†	9939.7	515.09 µg/L	16.028	515.09 ppb	16.028	3.11%

QC value within limits for Co 228.616 Recovery = 103.02%							
Cr 267.716†	19718.1	510.20 µg/L	22.440	510.20 ppb	22.440	4.40%	
QC value within limits for Cr 267.716 Recovery = 102.04%							
Cu 324.752†	69874.5	501.82 µg/L	16.233	501.82 ppb	16.233	3.23%	
QC value within limits for Cu 324.752 Recovery = 100.36%							
Fe 238.204 Radial†	660.9	4985.3 µg/L	37.95	4985.3 ppb	37.95	0.76%	
QC value within limits for Fe 238.204 Radial Recovery = 99.71%							
K 766.490 Radial†	9242.8	5245.4 µg/L	23.28	5245.4 ppb	23.28	0.44%	
QC value within limits for K 766.490 Radial Recovery = 104.91%							
Mg 279.077 IEC†	512.2	5117.7 µg/L	9.25	5117.7 ppb	9.25	0.18%	
QC value within limits for Mg 279.077 IEC Recovery = 102.35%							
Mn 257.610†	142891.8	521.01 µg/L	8.493	521.01 ppb	8.493	1.63%	
QC value within limits for Mn 257.610 Recovery = 104.20%							
Mo 202.031†	4453.4	509.20 µg/L	38.548	509.20 ppb	38.548	7.57%	
QC value within limits for Mo 202.031 Recovery = 101.84%							
Na 589.592 Radial†	27427.8	9496.6 µg/L	53.55	9496.6 ppb	53.55	0.56%	
QC value within limits for Na 589.592 Radial Recovery = 94.97%							
Ni 231.604†	7669.2	531.26 µg/L	13.929	531.26 ppb	13.929	2.62%	
QC value within limits for Ni 231.604 Recovery = 106.25%							
P 214.914†	1185.0	2505.5 µg/L	166.39	2505.5 ppb	166.39	6.64%	
QC value within limits for P 214.914 Recovery = 100.22%							
Pb 220.353†	1629.6	513.30 µg/L	31.254	513.30 ppb	31.254	6.09%	
QC value within limits for Pb 220.353 Recovery = 102.66%							
S 181.975 Axial†	269.1	1021.4 µg/L	58.55	1021.4 ppb	58.55	5.73%	
QC value within limits for S 181.975 Axial Recovery = 102.14%							
Sb 206.836†	466.8	500.50 µg/L	31.628	500.50 ppb	31.628	6.32%	
QC value within limits for Sb 206.836 Recovery = 100.10%							
Se 196.026†	420.4	528.94 µg/L	29.134	528.94 ppb	29.134	5.51%	
QC value within limits for Se 196.026 Recovery = 105.79%							
SiO2†	25114.6	5480.7 µg/L	104.67	5480.7 ppb	104.67	1.91%	
QC value within limits for SiO2 Recovery = 102.49%							
Si 251.611†	31409.8	2567.6 µg/L	47.67	2567.6 ppb	47.67	1.86%	
QC value within limits for Si 251.611 Recovery = 102.71%							
Sn 189.927†	1089.6	512.47 µg/L	42.673	512.47 ppb	42.673	8.33%	
QC value within limits for Sn 189.927 Recovery = 102.49%							
Sr 421.552†	110554.7	500.70 µg/L	2.909	500.70 ppb	2.909	0.58%	
QC value within limits for Sr 421.552 Recovery = 100.14%							
Ti 334.940†	190829.8	508.77 µg/L	10.531	508.77 ppb	10.531	2.07%	
QC value within limits for Ti 334.940 Recovery = 101.75%							
Tl 190.801†	438.3	515.22 µg/L	22.115	515.22 ppb	22.115	4.29%	
QC value within limits for Tl 190.801 Recovery = 103.04%							
U 409.014†	5004.1	489.23 µg/L	17.918	489.23 ppb	17.918	3.66%	
QC value within limits for U 409.014 Recovery = 97.85%							
V 292.402†	39985.8	512.53 µg/L	18.199	512.53 ppb	18.199	3.55%	
QC value within limits for V 292.402 Recovery = 102.51%							
Zn 213.857†	19264.9	513.85 µg/L	14.994	513.85 ppb	14.994	2.92%	
QC value within limits for Zn 213.857 Recovery = 102.77%							
All analyte(s) passed QC.							



Sequence No.: 37

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 20:06:47

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	106929.8	106929.8	97.9 %		20:07:19
1	Al 396.153Radial†	-161.6	9.9	4.7084 µg/L	4.7084 ppb	20:07:19
1	Ca 317.933Radial†	391.5	16.3	5.2789 µg/L	5.2789 ppb	20:07:40
1	Fe 238.204 Radial†	27.7	-3.0	-22.520 µg/L	-22.520 ppb	20:07:40
1	K 766.490 Radial†	281.0	56.3	31.933 µg/L	31.933 ppb	20:07:19
1	Mg 279.077 IEC†	9.8	1.3	12.634 µg/L	12.634 ppb	20:07:40
1	Na 589.592 Radial†	272.9	43.4	15.028 µg/L	15.028 ppb	20:07:19
1	Sr 421.552†	138.6	-13.5	-0.0610 µg/L	-0.0610 ppb	20:07:19
1	Sc 361.383	1685496.1	1685496.1	100.17 %		20:08:42
1	Y 371.029	935580.6	935580.6	99.942 %		20:08:42
1	Ag 328.068†	-517.3	49.4	0.4374 µg/L	0.4374 ppb	20:08:47
1	As 188.979†	-4.5	-0.6	-1.1532 µg/L	-1.1532 ppb	20:09:08
1	B 249.677†	179.0	20.0	1.0734 µg/L	1.0734 ppb	20:09:08
1	Ba 233.527†	-16.8	1.2	0.0294 µg/L	0.0294 ppb	20:09:08
1	Be 313.107†	-1984.2	-35.1	-0.0252 µg/L	-0.0252 ppb	20:08:47
1	Cd 226.502†	-147.5	-3.0	-0.0853 µg/L	-0.0853 ppb	20:09:08
1	Co 228.616†	26.9	4.7	0.2412 µg/L	0.2412 ppb	20:09:08
1	Cr 267.716†	69.2	-21.1	-0.5449 µg/L	-0.5449 ppb	20:08:47
1	Cu 324.752†	2634.4	6.9	0.0454 µg/L	0.0454 ppb	20:08:47
1	Mn 257.610†	-539.8	5.4	0.0173 µg/L	0.0173 ppb	20:09:08
1	Mo 202.031†	8.6	4.2	0.4810 µg/L	0.4810 ppb	20:09:08
1	Ni 231.604†	296.7	-2.5	-0.1716 µg/L	-0.1716 ppb	20:09:08
1	P 214.914†	252.4	10.5	22.747 µg/L	22.747 ppb	20:09:08
1	Pb 220.353†	34.7	-8.2	-2.5765 µg/L	-2.5765 ppb	20:09:08
1	S 181.975 Axial†	21.2	0.5	1.8422 µg/L	1.8422 ppb	20:09:08
1	Sb 206.836†	25.9	4.9	5.1904 µg/L	5.1904 ppb	20:09:08
1	Se 196.026†	18.0	4.7	5.6309 µg/L	5.6309 ppb	20:09:08
1	SiO2†	1432.6	47.0	10.264 µg/L	10.264 ppb	20:08:47
1	Si 251.611†	433.3	68.5	5.6031 µg/L	5.6031 ppb	20:09:08
1	Sn 189.927†	5.8	1.3	0.6014 µg/L	0.6014 ppb	20:09:08
1	Ti 334.940†	130.0	137.9	0.3670 µg/L	0.3670 ppb	20:08:47
1	Tl 190.801†	-24.9	0.7	0.8621 µg/L	0.8621 ppb	20:09:08
1	U 409.014†	169.4	18.3	1.7929 µg/L	1.7929 ppb	20:08:47
1	V 292.402†	-168.5	-16.3	-0.2025 µg/L	-0.2025 ppb	20:08:47
1	Zn 213.857†	580.4	-0.8	-0.0214 µg/L	-0.0214 ppb	20:09:08
2	Sc RADIAL	107205.2	107205.2	98.2 %		20:07:45
2	Al 396.153Radial†	-134.7	37.7	18.013 µg/L	18.013 ppb	20:07:45
2	Ca 317.933Radial†	392.1	15.8	5.1394 µg/L	5.1394 ppb	20:08:06
2	Fe 238.204 Radial†	29.2	-1.5	-11.609 µg/L	-11.609 ppb	20:08:06
2	K 766.490 Radial†	295.1	69.9	39.647 µg/L	39.647 ppb	20:07:45
2	Mg 279.077 IEC†	9.0	0.4	3.8922 µg/L	3.8922 ppb	20:08:06
2	Na 589.592 Radial†	174.6	-57.4	-19.872 µg/L	-19.872 ppb	20:07:45
2	Sr 421.552†	163.8	11.9	0.0539 µg/L	0.0539 ppb	20:07:45
2	Sc 361.383	1696542.9	1696542.9	100.82 %		20:09:14
2	Y 371.029	939290.6	939290.6	100.34 %		20:09:14
2	Ag 328.068†	-520.6	49.5	0.4430 µg/L	0.4430 ppb	20:09:19
2	As 188.979†	-4.8	-0.9	-1.6806 µg/L	-1.6806 ppb	20:09:40
2	B 249.677†	178.7	18.6	0.9912 µg/L	0.9912 ppb	20:09:40
2	Ba 233.527†	-16.2	1.8	0.0472 µg/L	0.0472 ppb	20:09:40
2	Be 313.107†	-2095.5	-132.5	-0.0950 µg/L	-0.0950 ppb	20:09:19
2	Cd 226.502†	-147.3	-1.8	-0.0531 µg/L	-0.0531 ppb	20:09:40
2	Co 228.616†	17.2	-5.2	-0.2687 µg/L	-0.2687 ppb	20:09:40
2	Cr 267.716†	68.9	-21.8	-0.5642 µg/L	-0.5642 ppb	20:09:19
2	Cu 324.752†	2666.4	21.5	0.1521 µg/L	0.1521 ppb	20:09:19
2	Mn 257.610†	-543.8	4.8	0.0167 µg/L	0.0167 ppb	20:09:40
2	Mo 202.031†	9.8	5.4	0.6147 µg/L	0.6147 ppb	20:09:40
2	Ni 231.604†	289.5	-11.5	-0.7989 µg/L	-0.7989 ppb	20:09:40
2	P 214.914†	243.4	-0.0	-0.1125 µg/L	-0.1125 ppb	20:09:40
2	Pb 220.353†	43.6	0.4	0.1447 µg/L	0.1447 ppb	20:09:40

2	S 181.975 Axial†	23.0	2.1	8.0489 µg/L	8.0489 ppb	20:09:40
2	Sb 206.836†	24.7	3.5	3.7450 µg/L	3.7450 ppb	20:09:40
2	Se 196.026†	14.6	1.2	1.4286 µg/L	1.4286 ppb	20:09:40
2	SiO2†	1487.9	92.6	20.198 µg/L	20.198 ppb	20:09:19
2	Si 251.611†	454.8	87.0	7.1156 µg/L	7.1156 ppb	20:09:40
2	Sn 189.927†	3.4	-1.2	-0.5592 µg/L	-0.5592 ppb	20:09:40
2	Ti 334.940†	100.4	107.7	0.2871 µg/L	0.2871 ppb	20:09:19
2	Tl 190.801†	-21.3	4.4	5.1431 µg/L	5.1431 ppb	20:09:40
2	U 409.014†	118.8	-33.1	-3.2367 µg/L	-3.2367 ppb	20:09:19
2	V 292.402†	-128.0	25.0	0.3159 µg/L	0.3159 ppb	20:09:19
2	Zn 213.857†	589.4	4.3	0.1203 µg/L	0.1203 ppb	20:09:40
3	Sc RADIAL	108063.3	108063.3	99.0 %		20:08:11
3	Al 396.153Radial†	-144.4	29.0	13.865 µg/L	13.865 ppb	20:08:11
3	Ca 317.933Radial†	388.8	9.4	3.0336 µg/L	3.0336 ppb	20:08:32
3	Fe 238.204 Radial†	29.9	-1.1	-8.0742 µg/L	-8.0742 ppb	20:08:32
3	K 766.490 Radial†	287.9	60.2	34.164 µg/L	34.164 ppb	20:08:11
3	Mg 279.077 IEC†	9.3	0.6	5.8119 µg/L	5.8119 ppb	20:08:32
3	Na 589.592 Radial†	190.9	-42.4	-14.672 µg/L	-14.672 ppb	20:08:11
3	Sr 421.552†	188.9	35.9	0.1628 µg/L	0.1628 ppb	20:08:11
3	Sc 361.383	1686738.2	1686738.2	100.24 %		20:09:46
3	Y 371.029	937528.6	937528.6	100.15 %		20:09:46
3	Ag 328.068†	-504.8	62.4	0.5621 µg/L	0.5621 ppb	20:09:51
3	As 188.979†	-7.5	-3.6	-6.6188 µg/L	-6.6188 ppb	20:10:12
3	B 249.677†	177.4	18.4	0.9761 µg/L	0.9761 ppb	20:10:12
3	Ba 233.527†	-23.4	-5.5	-0.1390 µg/L	-0.1390 ppb	20:10:12
3	Be 313.107†	-2070.6	-119.8	-0.0859 µg/L	-0.0859 ppb	20:09:51
3	Cd 226.502†	-136.9	7.7	0.2248 µg/L	0.2248 ppb	20:10:12
3	Co 228.616†	18.8	-3.5	-0.1811 µg/L	-0.1811 ppb	20:10:12
3	Cr 267.716†	51.4	-38.9	-1.0059 µg/L	-1.0059 ppb	20:09:51
3	Cu 324.752†	2748.6	118.9	0.8512 µg/L	0.8512 ppb	20:09:51
3	Mn 257.610†	-528.5	17.1	0.0613 µg/L	0.0613 ppb	20:10:12
3	Mo 202.031†	4.0	-0.4	-0.0404 µg/L	-0.0404 ppb	20:10:12
3	Ni 231.604†	296.4	-3.0	-0.2061 µg/L	-0.2061 ppb	20:10:12
3	P 214.914†	249.3	7.2	15.464 µg/L	15.464 ppb	20:10:12
3	Pb 220.353†	42.8	-0.2	-0.0665 µg/L	-0.0665 ppb	20:10:12
3	S 181.975 Axial†	23.2	2.4	9.2789 µg/L	9.2789 ppb	20:10:12
3	Sb 206.836†	22.6	1.5	1.6070 µg/L	1.6070 ppb	20:10:12
3	Se 196.026†	20.8	7.5	9.1590 µg/L	9.1590 ppb	20:10:12
3	SiO2†	1461.9	75.2	16.401 µg/L	16.401 ppb	20:09:51
3	Si 251.611†	471.2	106.1	8.6710 µg/L	8.6710 ppb	20:10:12
3	Sn 189.927†	6.1	1.5	0.7295 µg/L	0.7295 ppb	20:10:12
3	Ti 334.940†	130.2	138.0	0.3678 µg/L	0.3678 ppb	20:09:51
3	Tl 190.801†	-28.0	-2.4	-2.7348 µg/L	-2.7348 ppb	20:10:12
3	U 409.014†	234.5	83.1	8.1382 µg/L	8.1382 ppb	20:09:51
3	V 292.402†	-79.2	72.9	0.9296 µg/L	0.9296 ppb	20:09:51
3	Zn 213.857†	585.1	3.4	0.0905 µg/L	0.0905 ppb	20:10:12

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1689592.4	100.41 %	0.360			0.36%
Sc RADIAL	107399.5	98.4 %	0.54			0.55%
Y 371.029	937466.6	100.14 %	0.198			0.20%
Ag 328.068†	53.8	0.4809 µg/L	0.07043	0.4809 ppb	0.07043	14.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	25.5	12.195 µg/L	6.8074	12.195 ppb	6.8074	55.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.7	-3.1509 µg/L	3.01490	-3.1509 ppb	3.01490	95.68%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	19.0	1.0136 µg/L	0.05234	1.0136 ppb	0.05234	5.16%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.8	-0.0208 µg/L	0.10276	-0.0208 ppb	0.10276	493.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-95.8	-0.0687 µg/L	0.03791	-0.0687 ppb	0.03791	55.17%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	13.8	4.4840 µg/L	1.25797	4.4840 ppb	1.25797	28.05%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.9	0.0288 µg/L	0.17052	0.0288 ppb	0.17052	592.04%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.3	-0.0695 µg/L	0.27267	-0.0695 ppb	0.27267	392.20%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-27.3 -0.7050 µg/L	0.26076 -0.7050 ppb	0.26076 36.99%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	49.1 0.3495 µg/L	0.43769 0.3495 ppb	0.43769 125.23%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-1.9 -14.068 µg/L	7.5303 -14.068 ppb	7.5303 53.53%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	62.1 35.248 µg/L	3.9697 35.248 ppb	3.9697 11.26%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.7 7.4460 µg/L	4.59421 7.4460 ppb	4.59421 61.70%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	9.1 0.0318 µg/L	0.02558 0.0318 ppb	0.02558 80.43%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	3.1 0.3518 µg/L	0.34614 0.3518 ppb	0.34614 98.40%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-18.8 -6.5051 µg/L	18.82882 -6.5051 ppb	18.82882 289.45%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-5.7 -0.3922 µg/L	0.35265 -0.3922 ppb	0.35265 89.92%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	5.9 12.700 µg/L	11.6779 12.700 ppb	11.6779 91.95%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-2.6 -0.8328 µg/L	1.51377 -0.8328 ppb	1.51377 181.77%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.7 6.3900 µg/L	3.98622 6.3900 ppb	3.98622 62.38%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	3.3 3.5141 µg/L	1.80284 3.5141 ppb	1.80284 51.30%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.4 5.4062 µg/L	3.87011 5.4062 ppb	3.87011 71.59%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	71.6 15.621 µg/L	5.0128 15.621 ppb	5.0128 32.09%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	87.2 7.1299 µg/L	1.53400 7.1299 ppb	1.53400 21.52%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.5 0.2572 µg/L	0.70996 0.2572 ppb	0.70996 276.00%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	11.5 0.0519 µg/L	0.11191 0.0519 ppb	0.11191 215.69%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	127.9 0.3406 µg/L	0.04636 0.3406 ppb	0.04636 13.61%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	0.9 1.0901 µg/L	3.94391 1.0901 ppb	3.94391 361.79%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	22.8 2.2315 µg/L	5.70008 2.2315 ppb	5.70008 255.44%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	27.2 0.3477 µg/L	0.56672 0.3477 ppb	0.56672 163.01%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	2.3 0.0631 µg/L	0.07475 0.0631 ppb	0.07475 118.40%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 38

Sample ID: 1202039807|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 330

Date Collected: 2/26/2010 20:10:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039807|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106126.8	106126.8	97.2 %		20:10:59
1	Al 396.153Radial†	-168.2	1.9	0.8801 µg/L	0.8801 ppb	20:10:59
1	Ca 317.933Radial†	424.7	53.4	17.323 µg/L	17.323 ppb	20:11:19
1	Fe 238.204 Radial†	34.7	4.4	33.315 µg/L	33.315 ppb	20:11:19
1	K 766.490 Radial†	338.1	117.2	66.508 µg/L	66.508 ppb	20:10:59
1	Mg 279.077 IEC†	11.8	3.3	33.265 µg/L	33.265 ppb	20:11:19
1	Na 589.592 Radial†	283.1	56.0	19.393 µg/L	19.393 ppb	20:10:59
1	Sr 421.552†	157.2	6.8	0.0307 µg/L	0.0307 ppb	20:10:59
1	Sc 361.383	1711100.3	1711100.3	101.69 %		20:12:21
1	Y 371.029	948111.6	948111.6	101.28 %		20:12:21
1	Ag 328.068†	-553.3	21.8	0.1999 µg/L	0.1999 ppb	20:12:27
1	As 188.979†	-4.5	-0.6	-1.0155 µg/L	-1.0155 ppb	20:12:48
1	B 249.677†	162.5	1.1	0.0439 µg/L	0.0439 ppb	20:12:48
1	Ba 233.527†	-13.1	5.1	0.1310 µg/L	0.1310 ppb	20:12:48
1	Be 313.107†	-2062.1	-82.0	-0.0592 µg/L	-0.0592 ppb	20:12:27
1	Cd 226.502†	-150.9	-4.1	-0.1246 µg/L	-0.1246 ppb	20:12:48
1	Co 228.616†	18.6	-3.9	-0.2066 µg/L	-0.2066 ppb	20:12:48
1	Cr 267.716†	105.0	13.1	0.3396 µg/L	0.3396 ppb	20:12:27
1	Cu 324.752†	2703.1	35.1	0.2582 µg/L	0.2582 ppb	20:12:27
1	Mn 257.610†	-375.6	174.9	0.6374 µg/L	0.6374 ppb	20:12:48
1	Mo 202.031†	10.0	5.5	0.6283 µg/L	0.6283 ppb	20:12:48
1	Ni 231.604†	306.9	3.1	0.2185 µg/L	0.2185 ppb	20:12:48
1	P 214.914†	245.9	0.4	0.7206 µg/L	0.7206 ppb	20:12:48
1	Pb 220.353†	28.1	-15.2	-4.7862 µg/L	-4.7862 ppb	20:12:48
1	S 181.975 Axial†	24.7	3.6	13.499 µg/L	13.499 ppb	20:12:48
1	Sb 206.836†	18.6	-2.7	-2.9151 µg/L	-2.9151 ppb	20:12:48
1	Se 196.026†	20.4	6.8	8.4073 µg/L	8.4073 ppb	20:12:48
1	SiO2†	1659.8	249.1	54.351 µg/L	54.351 ppb	20:12:27
1	Si 251.611†	724.2	348.2	28.464 µg/L	28.464 ppb	20:12:48
1	Sn 189.927†	6.1	1.4	0.6782 µg/L	0.6782 ppb	20:12:48
1	Ti 334.940†	540.5	539.6	1.4372 µg/L	1.4372 ppb	20:12:27
1	Tl 190.801†	-26.9	-0.8	-0.9533 µg/L	-0.9533 ppb	20:12:48
1	U 409.014†	211.3	57.0	5.5767 µg/L	5.5767 ppb	20:12:27
1	V 292.402†	-145.9	8.5	0.1199 µg/L	0.1199 ppb	20:12:27
1	Zn 213.857†	622.2	31.6	0.8431 µg/L	0.8431 ppb	20:12:48
2	Sc RADIAL	105976.6	105976.6	97.0 %		20:11:25
2	Al 396.153Radial†	-139.1	31.6	15.103 µg/L	15.103 ppb	20:11:25
2	Ca 317.933Radial†	426.2	55.6	18.041 µg/L	18.041 ppb	20:11:45
2	Fe 238.204 Radial†	35.8	5.6	41.945 µg/L	41.945 ppb	20:11:45
2	K 766.490 Radial†	284.4	62.3	35.339 µg/L	35.339 ppb	20:11:25
2	Mg 279.077 IEC†	8.7	0.2	2.2017 µg/L	2.2017 ppb	20:11:45
2	Na 589.592 Radial†	241.0	13.0	4.5049 µg/L	4.5049 ppb	20:11:25
2	Sr 421.552†	181.1	31.6	0.1432 µg/L	0.1432 ppb	20:11:25
2	Sc 361.383	1712387.1	1712387.1	101.77 %		20:12:54
2	Y 371.029	941604.6	941604.6	100.59 %		20:12:54
2	Ag 328.068†	-515.1	59.8	0.5425 µg/L	0.5425 ppb	20:12:59
2	As 188.979†	-4.9	-1.0	-1.8290 µg/L	-1.8290 ppb	20:13:20
2	B 249.677†	183.6	21.8	1.1354 µg/L	1.1354 ppb	20:13:20
2	Ba 233.527†	-10.3	7.8	0.2008 µg/L	0.2008 ppb	20:13:20
2	Be 313.107†	-2140.7	-157.7	-0.1135 µg/L	-0.1135 ppb	20:12:59
2	Cd 226.502†	-152.8	-5.9	-0.1776 µg/L	-0.1776 ppb	20:13:20
2	Co 228.616†	21.5	-1.1	-0.0600 µg/L	-0.0600 ppb	20:13:20
2	Cr 267.716†	101.9	9.9	0.2573 µg/L	0.2573 ppb	20:12:59
2	Cu 324.752†	2660.8	-8.5	-0.0528 µg/L	-0.0528 ppb	20:12:59
2	Mn 257.610†	-378.5	172.3	0.6305 µg/L	0.6305 ppb	20:13:20
2	Mo 202.031†	4.2	-0.2	-0.0233 µg/L	-0.0233 ppb	20:13:20
2	Ni 231.604†	318.7	14.5	1.0048 µg/L	1.0048 ppb	20:13:20
2	P 214.914†	243.5	-2.2	-4.6816 µg/L	-4.6816 ppb	20:13:20
2	Pb 220.353†	40.5	-3.0	-0.9592 µg/L	-0.9592 ppb	20:13:20

2	S 181.975 Axial†	23.2	2.1	7.9106 µg/L	7.9106 ppb	20:13:20
2	Sb 206.836†	21.3	-0.0	-0.0520 µg/L	-0.0520 ppb	20:13:20
2	Se 196.026†	11.1	-2.5	-2.8758 µg/L	-2.8758 ppb	20:13:20
2	SiO2†	1755.8	342.1	74.664 µg/L	74.664 ppb	20:12:59
2	Si 251.611†	754.1	377.0	30.818 µg/L	30.818 ppb	20:13:20
2	Sn 189.927†	5.2	0.5	0.2542 µg/L	0.2542 ppb	20:13:20
2	Ti 334.940†	610.0	607.6	1.6210 µg/L	1.6210 ppb	20:12:59
2	Tl 190.801†	-25.3	0.7	0.8659 µg/L	0.8659 ppb	20:13:20
2	U 409.014†	171.4	17.5	1.7113 µg/L	1.7113 ppb	20:12:59
2	V 292.402†	-119.9	34.1	0.4365 µg/L	0.4365 ppb	20:12:59
2	Zn 213.857†	623.1	32.0	0.8532 µg/L	0.8532 ppb	20:13:20
3	Sc RADIAL	106048.4	106048.4	97.1 %		20:11:51
3	Al 396.153Radial†	-139.0	31.8	15.208 µg/L	15.208 ppb	20:11:51
3	Ca 317.933Radial†	417.8	46.6	15.127 µg/L	15.127 ppb	20:12:11
3	Fe 238.204 Radial†	36.5	6.3	47.297 µg/L	47.297 ppb	20:12:11
3	K 766.490 Radial†	277.0	54.5	30.946 µg/L	30.946 ppb	20:11:51
3	Mg 279.077 IEC†	11.4	2.9	29.357 µg/L	29.357 ppb	20:12:11
3	Na 589.592 Radial†	295.6	69.2	23.945 µg/L	23.945 ppb	20:11:51
3	Sr 421.552†	180.0	30.4	0.1377 µg/L	0.1377 ppb	20:11:51
3	Sc 361.383	1716510.9	1716510.9	102.01 %		20:13:26
3	Y 371.029	952027.8	952027.8	101.70 %		20:13:26
3	Ag 328.068†	-474.4	100.9	0.9096 µg/L	0.9096 ppb	20:13:32
3	As 188.979†	-5.4	-1.4	-2.6458 µg/L	-2.6458 ppb	20:13:52
3	B 249.677†	169.7	7.7	0.3868 µg/L	0.3868 ppb	20:13:52
3	Ba 233.527†	-13.6	4.6	0.1200 µg/L	0.1200 ppb	20:13:52
3	Be 313.107†	-2139.6	-151.6	-0.1091 µg/L	-0.1091 ppb	20:13:32
3	Cd 226.502†	-152.0	-4.8	-0.1452 µg/L	-0.1452 ppb	20:13:52
3	Co 228.616†	23.9	1.2	0.0599 µg/L	0.0599 ppb	20:13:52
3	Cr 267.716†	128.8	36.0	0.9323 µg/L	0.9323 ppb	20:13:32
3	Cu 324.752†	2598.8	-75.5	-0.5325 µg/L	-0.5325 ppb	20:13:32
3	Mn 257.610†	-405.0	147.2	0.5375 µg/L	0.5375 ppb	20:13:52
3	Mo 202.031†	10.6	6.1	0.6973 µg/L	0.6973 ppb	20:13:52
3	Ni 231.604†	305.2	0.5	0.0345 µg/L	0.0345 ppb	20:13:52
3	P 214.914†	246.5	0.1	0.3563 µg/L	0.3563 ppb	20:13:52
3	Pb 220.353†	33.9	-9.6	-3.0245 µg/L	-3.0245 ppb	20:13:52
3	S 181.975 Axial†	24.0	2.8	10.806 µg/L	10.806 ppb	20:13:52
3	Sb 206.836†	24.4	2.9	3.1173 µg/L	3.1173 ppb	20:13:52
3	Se 196.026†	10.4	-3.1	-3.7123 µg/L	-3.7123 ppb	20:13:52
3	SiO2†	1673.7	257.5	56.201 µg/L	56.201 ppb	20:13:32
3	Si 251.611†	762.4	383.4	31.339 µg/L	31.339 ppb	20:13:52
3	Sn 189.927†	7.4	2.7	1.2771 µg/L	1.2771 ppb	20:13:52
3	Ti 334.940†	573.3	570.2	1.5191 µg/L	1.5191 ppb	20:13:32
3	Tl 190.801†	-22.6	3.4	4.0238 µg/L	4.0238 ppb	20:13:52
3	U 409.014†	124.8	-28.5	-2.7964 µg/L	-2.7964 ppb	20:13:32
3	V 292.402†	-129.7	24.8	0.3202 µg/L	0.3202 ppb	20:13:32
3	Zn 213.857†	614.7	22.3	0.5952 µg/L	0.5952 ppb	20:13:52

Mean Data: 1202039807|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1713332.8	101.82 %	0.168			0.16%
Sc RADIAL	106050.6	97.1 %	0.07			0.07%
Y 371.029	947248.0	101.19 %	0.562			0.56%
Ag 328.068†	60.8	0.5507 µg/L	0.35490	0.5507 ppb	0.35490	64.45%
Al 396.153Radial†	21.7	10.397 µg/L	8.2420	10.397 ppb	8.2420	79.27%
As 188.979†	-1.0	-1.8301 µg/L	0.81511	-1.8301 ppb	0.81511	44.54%
B 249.677†	10.2	0.5220 µg/L	0.55815	0.5220 ppb	0.55815	106.92%
Ba 233.527†	5.8	0.1506 µg/L	0.04384	0.1506 ppb	0.04384	29.11%
Be 313.107†	-130.4	-0.0939 µg/L	0.03014	-0.0939 ppb	0.03014	32.09%
Ca 317.933Radial†	51.9	16.830 µg/L	1.5178	16.830 ppb	1.5178	9.02%
Cd 226.502†	-5.0	-0.1491 µg/L	0.02672	-0.1491 ppb	0.02672	17.92%
Co 228.616†	-1.3	-0.0689 µg/L	0.13347	-0.0689 ppb	0.13347	193.76%
Cr 267.716†	19.7	0.5097 µg/L	0.36825	0.5097 ppb	0.36825	72.24%
Cu 324.752†	-16.3	-0.1090 µg/L	0.39834	-0.1090 ppb	0.39834	365.40%
Fe 238.204 Radial†	5.4	40.852 µg/L	7.0547	40.852 ppb	7.0547	17.27%
K 766.490 Radial†	78.0	44.264 µg/L	19.3882	44.264 ppb	19.3882	43.80%
Mg 279.077 IEC†	2.2	21.608 µg/L	16.9196	21.608 ppb	16.9196	78.30%
Mn 257.610†	164.8	0.6018 µg/L	0.05576	0.6018 ppb	0.05576	9.27%
Mo 202.031†	3.8	0.4341 µg/L	0.39758	0.4341 ppb	0.39758	91.59%
Na 589.592 Radial†	46.1	15.947 µg/L	10.1675	15.947 ppb	10.1675	63.76%

Ni 231.604†	6.0	0.4193 µg/L	0.51537	0.4193 ppb	0.51537	122.92%
P 214.914†	-0.6	-1.2016 µg/L	3.01929	-1.2016 ppb	3.01929	251.28%
Pb 220.353†	-9.3	-2.9233 µg/L	1.91553	-2.9233 ppb	1.91553	65.53%
S 181.975 Axial†	2.8	10.739 µg/L	2.7949	10.739 ppb	2.7949	26.03%
Sb 206.836†	0.0	0.0501 µg/L	3.01753	0.0501 ppb	3.01753	>999.9%
Se 196.026†	0.4	0.6064 µg/L	6.76874	0.6064 ppb	6.76874	>999.9%
SiO2†	282.9	61.739 µg/L	11.2319	61.739 ppb	11.2319	18.19%
Si 251.611†	369.5	30.207 µg/L	1.5320	30.207 ppb	1.5320	5.07%
Sn 189.927†	1.6	0.7365 µg/L	0.51395	0.7365 ppb	0.51395	69.78%
Sr 421.552†	22.9	0.1039 µg/L	0.06341	0.1039 ppb	0.06341	61.04%
Ti 334.940†	572.5	1.5258 µg/L	0.09208	1.5258 ppb	0.09208	6.03%
Tl 190.801†	1.1	1.3121 µg/L	2.51836	1.3121 ppb	2.51836	191.93%
U 409.014†	15.4	1.4972 µg/L	4.19066	1.4972 ppb	4.19066	279.90%
V 292.402†	22.5	0.2922 µg/L	0.16015	0.2922 ppb	0.16015	54.81%
Zn 213.857†	28.6	0.7638 µg/L	0.14615	0.7638 ppb	0.14615	19.13%

Sequence No.: 39

Sample ID: 1202039808|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 331

Date Collected: 2/26/2010 20:14:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039808|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111821.3	111821.3	102 %		20:14:35
1	Al 396.153Radial†	209092.8	204367.3	97797 µg/L	97797 ppb	20:14:35
1	Ca 317.933Radial†	304835.4	297307.7	96424 µg/L	96424 ppb	20:14:35
1	Fe 238.204 Radial†	24729.9	24119.0	181570 µg/L	181570 ppb	20:14:41
1	K 766.490 Radial†	75796.7	73789.6	41877 µg/L	41877 ppb	20:14:35
1	Mg 279.077 IEC†	3933.5	3832.5	38081 µg/L	38081 ppb	20:14:41
1	Na 589.592 Radial†	27008.3	26140.0	9050.7 µg/L	9050.7 ppb	20:14:35
1	Sr 421.552†	503699.4	491739.6	2227.1 µg/L	2227.1 ppb	20:14:35
1	Sc 361.383	1707590.0	1707590.0	101.48 %		20:15:19
1	Y 371.029	961558.8	961558.8	102.72 %		20:15:19
1	Ag 328.068†	30990.6	31104.3	309.82 µg/L	309.82 ppb	20:15:19
1	As 188.979†	577.4	572.9	1061.0 µg/L	1061.0 ppb	20:15:40
1	B 249.677†	31153.7	30540.4	1529.3 µg/L	1529.3 ppb	20:15:19
1	Ba 233.527†	78270.0	77145.7	1990.6 µg/L	1990.6 ppb	20:15:19
1	Be 313.107†	1161844.6	1146835.0	818.49 µg/L	818.49 ppb	20:15:19
1	Cd 226.502†	22304.8	22123.5	628.53 µg/L	628.53 ppb	20:15:40
1	Co 228.616†	18897.0	18599.0	952.20 µg/L	952.20 ppb	20:15:40
1	Cr 267.716†	100622.3	99063.7	2562.5 µg/L	2562.5 ppb	20:15:19
1	Cu 324.752†	267642.2	261113.3	1905.9 µg/L	1905.9 ppb	20:15:19
1	Mn 257.610†	1575438.7	1552991.8	5671.2 µg/L	5671.2 ppb	20:15:19
1	Mo 202.031†	4836.8	4761.9	551.17 µg/L	551.17 ppb	20:15:40
1	Ni 231.604†	21782.1	21165.5	1468.9 µg/L	1468.9 ppb	20:15:40
1	P 214.914†	4187.1	3884.5	8068.2 µg/L	8068.2 ppb	20:15:40
1	Pb 220.353†	2772.9	2689.6	844.02 µg/L	844.02 ppb	20:15:40
1	S 181.975 Axial†	1252.6	1213.6	4606.1 µg/L	4606.1 ppb	20:15:40
1	Sb 206.836†	1471.5	1429.0	1503.0 µg/L	1503.0 ppb	20:15:40
1	Se 196.026†	2330.2	2282.9	3369.9 µg/L	3369.9 ppb	20:15:40
1	SiO2†	196947.6	192690.3	42050 µg/L	42050 ppb	20:15:19
1	Si 251.611†	243933.5	240009.7	19620 µg/L	19620 ppb	20:15:19
1	Sn 189.927†	2191.6	2155.0	1006.2 µg/L	1006.2 ppb	20:15:40
1	Ti 334.940†	2414465.9	2379238.5	6345.8 µg/L	6345.8 ppb	20:15:19
1	Tl 190.801†	1013.6	1024.4	1273.9 µg/L	1273.9 ppb	20:15:40
1	U 409.014†	-2514.2	-2628.3	-288.60 µg/L	-288.60 ppb	20:15:19
1	V 292.402†	102962.6	101611.9	1304.2 µg/L	1304.2 ppb	20:15:19
1	Zn 213.857†	230233.1	226292.9	6058.8 µg/L	6058.8 ppb	20:15:19
2	Sc RADIAL	111807.7	111807.7	102 %		20:14:47
2	Al 396.153Radial†	211478.2	206721.8	98924 µg/L	98924 ppb	20:14:47
2	Ca 317.933Radial†	308928.7	301341.6	97732 µg/L	97732 ppb	20:14:47
2	Fe 238.204 Radial†	24894.3	24282.6	182800 µg/L	182800 ppb	20:14:52
2	K 766.490 Radial†	76638.4	74620.6	42348 µg/L	42348 ppb	20:14:47
2	Mg 279.077 IEC†	3963.1	3861.9	38372 µg/L	38372 ppb	20:14:52
2	Na 589.592 Radial†	27330.1	26457.6	9160.7 µg/L	9160.7 ppb	20:14:47
2	Sr 421.552†	509939.9	497894.2	2254.9 µg/L	2254.9 ppb	20:14:47
2	Sc 361.383	1718029.3	1718029.3	102.10 %		20:15:50
2	Y 371.029	969842.2	969842.2	103.60 %		20:15:50
2	Ag 328.068†	30436.3	30375.8	303.22 µg/L	303.22 ppb	20:15:50
2	As 188.979†	582.2	574.1	1063.3 µg/L	1063.3 ppb	20:16:10
2	B 249.677†	30426.9	29642.1	1480.9 µg/L	1480.9 ppb	20:15:50
2	Ba 233.527†	76316.0	74763.2	1929.1 µg/L	1929.1 ppb	20:15:50
2	Be 313.107†	1135209.2	1113791.1	794.91 µg/L	794.91 ppb	20:15:50
2	Cd 226.502†	22262.8	21948.8	623.27 µg/L	623.27 ppb	20:16:10
2	Co 228.616†	18867.1	18456.6	945.19 µg/L	945.19 ppb	20:16:10
2	Cr 267.716†	98352.0	96237.7	2489.4 µg/L	2489.4 ppb	20:15:50
2	Cu 324.752†	261624.7	253617.1	1852.4 µg/L	1852.4 ppb	20:15:50
2	Mn 257.610†	1542928.9	1511717.9	5520.8 µg/L	5520.8 ppb	20:15:50
2	Mo 202.031†	4832.4	4728.6	547.42 µg/L	547.42 ppb	20:16:10
2	Ni 231.604†	21781.2	21034.3	1459.8 µg/L	1459.8 ppb	20:16:10
2	P 214.914†	4156.5	3829.5	7954.5 µg/L	7954.5 ppb	20:16:10
2	Pb 220.353†	2767.0	2667.2	837.07 µg/L	837.07 ppb	20:16:10

2	S 181.975 Axial†	1249.9	1203.5	4567.7 µg/L	4567.7 ppb	20:16:10
2	Sb 206.836†	1477.3	1425.9	1500.4 µg/L	1500.4 ppb	20:16:10
2	Se 196.026†	2316.2	2255.2	3339.7 µg/L	3339.7 ppb	20:16:10
2	SiO2†	191766.6	186436.7	40685 µg/L	40685 ppb	20:15:50
2	Si 251.611†	237342.1	232093.3	18973 µg/L	18973 ppb	20:15:50
2	Sn 189.927†	2187.8	2138.2	998.26 µg/L	998.26 ppb	20:16:10
2	Ti 334.940†	2359556.3	2311002.1	6163.7 µg/L	6163.7 ppb	20:15:50
2	Tl 190.801†	1023.8	1028.3	1276.2 µg/L	1276.2 ppb	20:16:10
2	U 409.014†	-2499.8	-2599.2	-286.00 µg/L	-286.00 ppb	20:15:50
2	V 292.402†	100527.5	98610.5	1266.0 µg/L	1266.0 ppb	20:15:50
2	Zn 213.857†	225141.6	219927.6	5887.8 µg/L	5887.8 ppb	20:15:50
3	Sc RADIAL	111276.4	111276.4	102 %		20:14:58
3	Al 396.153Radial†	210345.6	206596.7	98864 µg/L	98864 ppb	20:14:58
3	Ca 317.933Radial†	307121.6	301008.9	97624 µg/L	97624 ppb	20:14:58
3	Fe 238.204 Radial†	24939.3	24442.8	184000 µg/L	184000 ppb	20:15:04
3	K 766.490 Radial†	76195.6	74543.5	42305 µg/L	42305 ppb	20:14:58
3	Mg 279.077 IEC†	4004.4	3921.0	38961 µg/L	38961 ppb	20:15:04
3	Na 589.592 Radial†	27334.2	26589.0	9206.2 µg/L	9206.2 ppb	20:14:58
3	Sr 421.552†	507790.8	498163.4	2256.2 µg/L	2256.2 ppb	20:14:58
3	Sc 361.383	1731953.5	1731953.5	102.93 %		20:16:20
3	Y 371.029	977751.3	977751.3	104.45 %		20:16:20
3	Ag 328.068†	30488.4	30186.8	301.68 µg/L	301.68 ppb	20:16:20
3	As 188.979†	585.2	572.4	1060.3 µg/L	1060.3 ppb	20:16:41
3	B 249.677†	30587.4	29558.4	1475.8 µg/L	1475.8 ppb	20:16:20
3	Ba 233.527†	77020.8	74847.1	1931.3 µg/L	1931.3 ppb	20:16:20
3	Be 313.107†	1144280.6	1113665.5	794.82 µg/L	794.82 ppb	20:16:20
3	Cd 226.502†	22229.6	21741.3	617.04 µg/L	617.04 ppb	20:16:41
3	Co 228.616†	18834.9	18276.7	935.85 µg/L	935.85 ppb	20:16:41
3	Cr 267.716†	99058.2	96149.3	2487.1 µg/L	2487.1 ppb	20:16:20
3	Cu 324.752†	263375.8	253258.3	1850.0 µg/L	1850.0 ppb	20:16:20
3	Mn 257.610†	1555182.4	1511473.4	5519.9 µg/L	5519.9 ppb	20:16:20
3	Mo 202.031†	4812.4	4671.1	540.90 µg/L	540.90 ppb	20:16:41
3	Ni 231.604†	21724.0	20807.2	1444.1 µg/L	1444.1 ppb	20:16:41
3	P 214.914†	4167.8	3807.7	7906.8 µg/L	7906.8 ppb	20:16:41
3	Pb 220.353†	2775.6	2653.8	832.79 µg/L	832.79 ppb	20:16:41
3	S 181.975 Axial†	1244.9	1188.7	4511.7 µg/L	4511.7 ppb	20:16:41
3	Sb 206.836†	1463.8	1401.1	1473.9 µg/L	1473.9 ppb	20:16:41
3	Se 196.026†	2324.5	2245.0	3330.8 µg/L	3330.8 ppb	20:16:41
3	SiO2†	193107.6	186229.5	40640 µg/L	40640 ppb	20:16:20
3	Si 251.611†	239054.3	231887.9	18956 µg/L	18956 ppb	20:16:20
3	Sn 189.927†	2185.5	2118.8	989.13 µg/L	989.13 ppb	20:16:41
3	Ti 334.940†	2377647.8	2309999.2	6161.0 µg/L	6161.0 ppb	20:16:20
3	Tl 190.801†	1028.8	1025.1	1272.6 µg/L	1272.6 ppb	20:16:41
3	U 409.014†	-2623.5	-2699.7	-296.01 µg/L	-296.01 ppb	20:16:20
3	V 292.402†	101269.0	98539.3	1265.1 µg/L	1265.1 ppb	20:16:20
3	Zn 213.857†	226955.9	219917.5	5887.6 µg/L	5887.6 ppb	20:16:20

Mean Data: 1202039808|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1719190.9	102.17 %	0.726			0.71%
Sc RADIAL	111635.1	102 %	0.3			0.28%
Y 371.029	969717.4	103.59 %	0.865			0.83%
Ag 328.068†	30555.6	304.91 µg/L	4.323	304.91 ppb	4.323	1.42%
Al 396.153Radial†	205895.3	98528 µg/L	634.1	98528 ppb	634.1	0.64%
As 188.979†	573.1	1061.5 µg/L	1.57	1061.5 ppb	1.57	0.15%
B 249.677†	29913.6	1495.3 µg/L	29.52	1495.3 ppb	29.52	1.97%
Ba 233.527†	75585.4	1950.3 µg/L	34.88	1950.3 ppb	34.88	1.79%
Be 313.107†	1124763.9	802.74 µg/L	13.642	802.74 ppb	13.642	1.70%
Ca 317.933Radial†	299886.1	97260 µg/L	726.2	97260 ppb	726.2	0.75%
Cd 226.502†	21937.9	622.95 µg/L	5.750	622.95 ppb	5.750	0.92%
Co 228.616†	18444.1	944.41 µg/L	8.200	944.41 ppb	8.200	0.87%
Cr 267.716†	97150.2	2513.0 µg/L	42.88	2513.0 ppb	42.88	1.71%
Cu 324.752†	255996.2	1869.4 µg/L	31.59	1869.4 ppb	31.59	1.69%
Fe 238.204 Radial†	24281.5	182790 µg/L	1218.3	182790 ppb	1218.3	0.67%
K 766.490 Radial†	74317.9	42177 µg/L	260.6	42177 ppb	260.6	0.62%
Mg 279.077 IEC†	3871.8	38472 µg/L	448.2	38472 ppb	448.2	1.17%
Mn 257.610†	1525394.3	5570.6 µg/L	87.11	5570.6 ppb	87.11	1.56%
Mo 202.031†	4720.5	546.50 µg/L	5.201	546.50 ppb	5.201	0.95%
Na 589.592 Radial†	26395.5	9139.2 µg/L	79.93	9139.2 ppb	79.93	0.87%



Ni 231.604†	21002.3	1457.6 µg/L	12.55	1457.6 ppb	12.55	0.86%
P 214.914†	3840.6	7976.5 µg/L	82.91	7976.5 ppb	82.91	1.04%
Pb 220.353†	2670.2	837.96 µg/L	5.664	837.96 ppb	5.664	0.68%
S 181.975 Axial†	1202.0	4561.8 µg/L	47.49	4561.8 ppb	47.49	1.04%
Sb 206.836†	1418.7	1492.5 µg/L	16.11	1492.5 ppb	16.11	1.08%
Se 196.026†	2261.0	3346.8 µg/L	20.51	3346.8 ppb	20.51	0.61%
SiO2†	188452.1	41125 µg/L	801.3	41125 ppb	801.3	1.95%
Si 251.611†	234663.6	19183 µg/L	378.6	19183 ppb	378.6	1.97%
Sn 189.927†	2137.3	997.86 µg/L	8.545	997.86 ppb	8.545	0.86%
Sr 421.552†	495932.4	2246.1 µg/L	16.46	2246.1 ppb	16.46	0.73%
Ti 334.940†	2333413.2	6223.5 µg/L	105.90	6223.5 ppb	105.90	1.70%
Tl 190.801†	1025.9	1274.2 µg/L	1.79	1274.2 ppb	1.79	0.14%
U 409.014†	-2642.4	-290.20 µg/L	5.189	-290.20 ppb	5.189	1.79%
V 292.402†	99587.2	1278.4 µg/L	22.32	1278.4 ppb	22.32	1.75%
Zn 213.857†	222046.0	5944.7 µg/L	98.78	5944.7 ppb	98.78	1.66%

Sequence No.: 40

Sample ID: 246679001|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 332

Date Collected: 2/26/2010 20:16:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679001|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	112125.3	112125.3	103 %		20:17:23
1	Al 396.153Radial†	93153.6	90898.7	43503 µg/L	43503 ppb	20:17:23
1	Ca 317.933Radial†	30183.9	29013.1	9409.6 µg/L	9409.6 ppb	20:17:23
1	Fe 238.204 Radial†	8367.1	8117.5	61102 µg/L	61102 ppb	20:17:43
1	K 766.490 Radial†	9409.8	8933.6	5070.0 µg/L	5070.0 ppb	20:17:23
1	Mg 279.077 IEC†	708.8	681.5	6739.2 µg/L	6739.2 ppb	20:17:43
1	Na 589.592 Radial†	1867.6	1583.6	548.32 µg/L	548.32 ppb	20:17:23
1	Sr 421.552†	12619.9	12135.8	54.962 µg/L	54.962 ppb	20:17:23
1	Sc 361.383	1745864.7	1745864.7	103.76 %		20:18:48
1	Y 371.029	1063977.5	1063977.5	113.66 %		20:18:48
1	Ag 328.068†	-1417.9	-800.7	1.0462 µg/L	1.0462 ppb	20:18:53
1	As 188.979†	2.9	6.7	15.317 µg/L	15.317 ppb	20:19:14
1	B 249.677†	854.4	664.8	3.4419 µg/L	3.4419 ppb	20:18:53
1	Ba 233.527†	8469.7	8181.0	210.93 µg/L	210.93 ppb	20:18:53
1	Be 313.107†	33945.3	34662.4	24.065 µg/L	24.065 ppb	20:18:53
1	Cd 226.502†	189.5	326.8	2.6845 µg/L	2.6845 ppb	20:19:14
1	Co 228.616†	239.0	208.1	6.7150 µg/L	6.7150 ppb	20:19:14
1	Cr 267.716†	1650.9	1501.0	38.843 µg/L	38.843 ppb	20:19:14
1	Cu 324.752†	4518.4	1731.8	23.901 µg/L	23.901 ppb	20:18:53
1	Mn 257.610†	646966.7	624092.9	2278.9 µg/L	2278.9 ppb	20:18:48
1	Mo 202.031†	52.1	45.8	7.5623 µg/L	7.5623 ppb	20:19:14
1	Ni 231.604†	637.2	315.5	22.661 µg/L	22.661 ppb	20:19:14
1	P 214.914†	621.3	357.3	731.41 µg/L	731.41 ppb	20:19:14
1	Pb 220.353†	173.6	124.5	39.528 µg/L	39.528 ppb	20:19:14
1	S 181.975 Axial†	22.4	0.9	3.5345 µg/L	3.5345 ppb	20:19:14
1	Sb 206.836†	17.2	-4.5	-5.2752 µg/L	-5.2752 ppb	20:19:14
1	Se 196.026†	-24.9	-37.3	150.07 µg/L	150.07 ppb	20:19:14
1	SiO2†	150677.6	143840.4	31390 µg/L	31390 ppb	20:18:53
1	Si 251.611†	187299.8	180156.1	14727 µg/L	14727 ppb	20:18:48
1	Sn 189.927†	-13.4	-17.5	-11.440 µg/L	-11.440 ppb	20:19:14
1	Ti 334.940†	761951.9	734379.9	1958.8 µg/L	1958.8 ppb	20:18:48
1	Tl 190.801†	-50.2	-22.8	7.4751 µg/L	7.4751 ppb	20:19:14
1	U 409.014†	-2486.2	-2547.1	-258.59 µg/L	-258.59 ppb	20:18:48
1	V 292.402†	3543.7	3567.4	47.322 µg/L	47.322 ppb	20:18:53
1	Zn 213.857†	17113.0	15913.3	424.09 µg/L	424.09 ppb	20:18:53
2	Sc RADIAL	111079.2	111079.2	102 %		20:17:49
2	Al 396.153Radial†	92616.6	91225.1	43659 µg/L	43659 ppb	20:17:49
2	Ca 317.933Radial†	29885.7	28996.8	9404.4 µg/L	9404.4 ppb	20:17:49
2	Fe 238.204 Radial†	8373.4	8200.5	61727 µg/L	61727 ppb	20:18:09
2	K 766.490 Radial†	9335.4	8946.8	5077.5 µg/L	5077.5 ppb	20:17:49
2	Mg 279.077 IEC†	704.4	683.8	6761.0 µg/L	6761.0 ppb	20:18:09
2	Na 589.592 Radial†	1880.2	1613.1	558.53 µg/L	558.53 ppb	20:17:49
2	Sr 421.552†	12487.3	12121.2	54.896 µg/L	54.896 ppb	20:17:49
2	Sc 361.383	1758513.7	1758513.7	104.51 %		20:19:21
2	Y 371.029	1073656.3	1073656.3	114.69 %		20:19:21
2	Ag 328.068†	-1422.7	-795.4	1.1716 µg/L	1.1716 ppb	20:19:27
2	As 188.979†	-3.8	0.2	3.4381 µg/L	3.4381 ppb	20:19:47
2	B 249.677†	829.3	634.9	1.5264 µg/L	1.5264 ppb	20:19:27
2	Ba 233.527†	8434.3	8088.5	208.54 µg/L	208.54 ppb	20:19:27
2	Be 313.107†	33860.6	34346.0	23.842 µg/L	23.842 ppb	20:19:27
2	Cd 226.502†	179.4	315.9	2.2928 µg/L	2.2928 ppb	20:19:47
2	Co 228.616†	235.7	203.3	6.4774 µg/L	6.4774 ppb	20:19:47
2	Cr 267.716†	1656.8	1495.2	38.692 µg/L	38.692 ppb	20:19:47
2	Cu 324.752†	4500.3	1683.1	23.670 µg/L	23.670 ppb	20:19:27
2	Mn 257.610†	649829.2	622346.7	2272.6 µg/L	2272.6 ppb	20:19:21
2	Mo 202.031†	46.4	40.1	6.9244 µg/L	6.9244 ppb	20:19:47
2	Ni 231.604†	652.2	325.4	23.354 µg/L	23.354 ppb	20:19:47
2	P 214.914†	622.5	354.2	724.32 µg/L	724.32 ppb	20:19:47
2	Pb 220.353†	168.3	118.2	37.522 µg/L	37.522 ppb	20:19:47

2	S 181.975 Axial†	19.2	-2.3	-8.8550 µg/L	-8.8550 ppb	20:19:47
2	Sb 206.836†	16.6	-5.2	-6.0260 µg/L	-6.0260 ppb	20:19:47
2	Se 196.026†	-35.7	-47.5	139.62 µg/L	139.62 ppb	20:19:47
2	SiO2†	149691.2	141852.0	30956 µg/L	30956 ppb	20:19:27
2	Si 251.611†	188171.4	179691.6	14689 µg/L	14689 ppb	20:19:21
2	Sn 189.927†	-6.9	-11.1	-8.5013 µg/L	-8.5013 ppb	20:19:47
2	Ti 334.940†	764414.5	731454.0	1951.0 µg/L	1951.0 ppb	20:19:21
2	Tl 190.801†	-50.6	-22.8	7.4300 µg/L	7.4300 ppb	20:19:47
2	U 409.014†	-2495.0	-2538.2	-257.81 µg/L	-257.81 ppb	20:19:21
2	V 292.402†	3538.2	3537.5	46.961 µg/L	46.961 ppb	20:19:27
2	Zn 213.857†	16966.7	15654.7	417.11 µg/L	417.11 ppb	20:19:27
3	Sc RADIAL	111592.7	111592.7	102 %		20:18:15
3	Al 396.153Radial†	92366.0	90561.0	43341 µg/L	43341 ppb	20:18:15
3	Ca 317.933Radial†	29852.9	28829.4	9350.1 µg/L	9350.1 ppb	20:18:15
3	Fe 238.204 Radial†	8354.7	8144.3	61304 µg/L	61304 ppb	20:18:35
3	K 766.490 Radial†	9381.2	8949.4	5078.9 µg/L	5078.9 ppb	20:18:15
3	Mg 279.077 IEC†	698.9	675.1	6675.1 µg/L	6675.1 ppb	20:18:35
3	Na 589.592 Radial†	1833.8	1559.2	539.85 µg/L	539.85 ppb	20:18:15
3	Sr 421.552†	12521.8	12098.4	54.793 µg/L	54.793 ppb	20:18:15
3	Sc 361.383	1767738.1	1767738.1	105.06 %		20:19:55
3	Y 371.029	1075318.9	1075318.9	114.87 %		20:19:55
3	Ag 328.068†	-1399.1	-765.9	1.3675 µg/L	1.3675 ppb	20:20:01
3	As 188.979†	-3.4	0.6	4.1062 µg/L	4.1062 ppb	20:20:21
3	B 249.677†	773.7	577.9	-1.2808 µg/L	-1.2808 ppb	20:20:01
3	Ba 233.527†	8142.9	7768.9	200.30 µg/L	200.30 ppb	20:20:01
3	Be 313.107†	32372.2	32760.2	22.717 µg/L	22.717 ppb	20:20:01
3	Cd 226.502†	167.5	303.6	1.9797 µg/L	1.9797 ppb	20:20:21
3	Co 228.616†	225.6	192.5	5.9793 µg/L	5.9793 ppb	20:20:21
3	Cr 267.716†	1529.3	1365.6	35.339 µg/L	35.339 ppb	20:20:21
3	Cu 324.752†	4431.0	1594.8	22.957 µg/L	22.957 ppb	20:20:01
3	Mn 257.610†	646034.8	615490.2	2247.6 µg/L	2247.6 ppb	20:19:55
3	Mo 202.031†	50.8	44.0	7.3581 µg/L	7.3581 ppb	20:20:21
3	Ni 231.604†	609.2	281.2	20.284 µg/L	20.284 ppb	20:20:21
3	P 214.914†	615.3	344.3	703.18 µg/L	703.18 ppb	20:20:21
3	Pb 220.353†	177.3	126.0	39.957 µg/L	39.957 ppb	20:20:21
3	S 181.975 Axial†	23.2	1.4	5.1655 µg/L	5.1655 ppb	20:20:21
3	Sb 206.836†	19.0	-2.9	-3.5725 µg/L	-3.5725 ppb	20:20:21
3	Se 196.026†	-19.4	-31.8	157.57 µg/L	157.57 ppb	20:20:21
3	SiO2†	145276.2	136902.0	29876 µg/L	29876 ppb	20:20:01
3	Si 251.611†	187541.6	178152.6	14563 µg/L	14563 ppb	20:19:55
3	Sn 189.927†	-9.0	-13.1	-9.4088 µg/L	-9.4088 ppb	20:20:21
3	Ti 334.940†	757058.3	720634.9	1922.1 µg/L	1922.1 ppb	20:19:55
3	Tl 190.801†	-47.6	-19.8	10.590 µg/L	10.590 ppb	20:20:21
3	U 409.014†	-2401.7	-2437.0	-247.83 µg/L	-247.83 ppb	20:19:55
3	V 292.402†	3386.7	3375.7	44.902 µg/L	44.902 ppb	20:20:01
3	Zn 213.857†	16402.5	15032.9	400.44 µg/L	400.44 ppb	20:20:01

Mean Data: 246679001|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1757372.2	104.44 %	%	0.653			0.62%
Sc RADIAL	111599.1	102 %	%	0.5			0.47%
Y 371.029	1070984.2	114.41 %	%	0.654			0.57%
Ag 328.068†	-787.3	1.1951 µg/L	µg/L	0.16194	1.1951 ppb	0.16194	13.55%
Al 396.153Radial†	90894.9	43501 µg/L	µg/L	159.0	43501 ppb	159.0	0.37%
As 188.979†	2.5	7.6204 µg/L	µg/L	6.67372	7.6204 ppb	6.67372	87.58%
B 249.677†	625.8	1.2292 µg/L	µg/L	2.37531	1.2292 ppb	2.37531	193.24%
Ba 233.527†	8012.8	206.59 µg/L	µg/L	5.574	206.59 ppb	5.574	2.70%
Be 313.107†	33922.9	23.541 µg/L	µg/L	0.7222	23.541 ppb	0.7222	3.07%
Ca 317.933Radial†	28946.4	9388.0 µg/L	µg/L	32.96	9388.0 ppb	32.96	0.35%
Cd 226.502†	315.4	2.3190 µg/L	µg/L	0.35313	2.3190 ppb	0.35313	15.23%
Co 228.616†	201.3	6.3906 µg/L	µg/L	0.37547	6.3906 ppb	0.37547	5.88%
Cr 267.716†	1453.9	37.625 µg/L	µg/L	1.9807	37.625 ppb	1.9807	5.26%
Cu 324.752†	1669.9	23.509 µg/L	µg/L	0.4922	23.509 ppb	0.4922	2.09%
Fe 238.204 Radial†	8154.1	61377 µg/L	µg/L	318.6	61377 ppb	318.6	0.52%
K 766.490 Radial†	8943.3	5075.5 µg/L	µg/L	4.81	5075.5 ppb	4.81	0.09%
Mg 279.077 IEC†	680.1	6725.1 µg/L	µg/L	44.61	6725.1 ppb	44.61	0.66%
Mn 257.610†	620643.3	2266.4 µg/L	µg/L	16.58	2266.4 ppb	16.58	0.73%
Mo 202.031†	43.3	7.2816 µg/L	µg/L	0.32576	7.2816 ppb	0.32576	4.47%
Na 589.592 Radial†	1585.3	548.90 µg/L	µg/L	9.353	548.90 ppb	9.353	1.70%

Ni 231.604†	307.4	22.100 µg/L	1.6098	22.100 ppb	1.6098	7.28%
P 214.914†	351.9	719.63 µg/L	14.684	719.63 ppb	14.684	2.04%
Pb 220.353†	122.9	39.002 µg/L	1.2994	39.002 ppb	1.2994	3.33%
S 181.975 Axial†	-0.0	-0.0517 µg/L	7.66743	-0.0517 ppb	7.66743	>999.9%
Sb 206.836†	-4.2	-4.9579 µg/L	1.25717	-4.9579 ppb	1.25717	25.36%
Se 196.026†	-38.9	149.09 µg/L	9.013	149.09 ppb	9.013	6.05%
SiO2†	140864.8	30740 µg/L	779.7	30740 ppb	779.7	2.54%
Si 251.611†	179333.5	14660 µg/L	85.7	14660 ppb	85.7	0.58%
Sn 189.927†	-13.9	-9.7832 µg/L	1.50449	-9.7832 ppb	1.50449	15.38%
Sr 421.552†	12118.5	54.884 µg/L	0.0852	54.884 ppb	0.0852	0.16%
Ti 334.940†	728822.9	1943.9 µg/L	19.31	1943.9 ppb	19.31	0.99%
Tl 190.801†	-21.8	8.4985 µg/L	1.81179	8.4985 ppb	1.81179	21.32%
U 409.014†	-2507.4	-254.75 µg/L	6.001	-254.75 ppb	6.001	2.36%
V 292.402†	3493.5	46.395 µg/L	1.3057	46.395 ppb	1.3057	2.81%
Zn 213.857†	15533.6	413.88 µg/L	12.149	413.88 ppb	12.149	2.94%

Sequence No.: 41

Sample ID: 1202039809|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 333

Date Collected: 2/26/2010 20:20:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039809|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	111726.9	111726.9	102 %		20:21:04
1	Al 396.153Radial†	117947.6	115455.6	55256 µg/L	55256 ppb	20:21:04
1	Ca 317.933Radial†	33840.3	32691.6	10603 µg/L	10603 ppb	20:21:04
1	Fe 238.204 Radial†	9768.6	9516.5	71632 µg/L	71632 ppb	20:21:24
1	K 766.490 Radial†	11129.1	10646.7	6042.2 µg/L	6042.2 ppb	20:21:04
1	Mg 279.077 IEC†	868.5	840.1	8311.3 µg/L	8311.3 ppb	20:21:24
1	Na 589.592 Radial†	2085.3	1802.9	624.24 µg/L	624.24 ppb	20:21:04
1	Sr 421.552†	15216.8	14717.7	66.656 µg/L	66.656 ppb	20:21:04
1	Sc 361.383	1747887.8	1747887.8	103.88 %		20:22:29
1	Y 371.029	1085050.6	1085050.6	115.91 %		20:22:29
1	Ag 328.068†	-1561.6	-937.4	1.2234 µg/L	1.2234 ppb	20:22:34
1	As 188.979†	-2.2	1.8	6.8753 µg/L	6.8753 ppb	20:22:55
1	B 249.677†	947.0	753.1	2.6525 µg/L	2.6525 ppb	20:22:34
1	Ba 233.527†	9662.9	9320.3	240.30 µg/L	240.30 ppb	20:22:34
1	Be 313.107†	44039.1	44341.7	30.843 µg/L	30.843 ppb	20:22:34
1	Cd 226.502†	231.0	366.6	2.6666 µg/L	2.6666 ppb	20:22:55
1	Co 228.616†	261.5	229.5	7.0004 µg/L	7.0004 ppb	20:22:55
1	Cr 267.716†	2269.8	2095.0	54.205 µg/L	54.205 ppb	20:22:55
1	Cu 324.752†	5036.1	2225.1	29.417 µg/L	29.417 ppb	20:22:34
1	Mn 257.610†	689812.3	664618.1	2427.2 µg/L	2427.2 ppb	20:22:29
1	Mo 202.031†	58.6	52.1	8.6737 µg/L	8.6737 ppb	20:22:55
1	Ni 231.604†	747.0	420.5	30.074 µg/L	30.074 ppb	20:22:55
1	P 214.914†	471.4	212.3	413.32 µg/L	413.32 ppb	20:22:55
1	Pb 220.353†	196.2	146.1	46.594 µg/L	46.594 ppb	20:22:55
1	S 181.975 Axial†	24.2	2.6	9.8456 µg/L	9.8456 ppb	20:22:55
1	Sb 206.836†	16.1	-5.5	-6.5309 µg/L	-6.5309 ppb	20:22:55
1	Se 196.026†	-38.9	-50.8	167.02 µg/L	167.02 ppb	20:22:55
1	SiO2†	194274.7	185642.7	40512 µg/L	40512 ppb	20:22:29
1	Si 251.611†	240094.3	230771.8	18865 µg/L	18865 ppb	20:22:29
1	Sn 189.927†	-19.1	-22.9	-14.494 µg/L	-14.494 ppb	20:22:55
1	Ti 334.940†	916237.5	882058.8	2352.6 µg/L	2352.6 ppb	20:22:29
1	Tl 190.801†	-53.3	-25.7	9.6517 µg/L	9.6517 ppb	20:22:55
1	U 409.014†	-2881.0	-2924.4	-297.09 µg/L	-297.09 ppb	20:22:29
1	V 292.402†	4006.9	4009.3	53.311 µg/L	53.311 ppb	20:22:34
1	Zn 213.857†	20220.1	18885.3	503.30 µg/L	503.30 ppb	20:22:34
2	Sc RADIAL	111645.4	111645.4	102 %		20:21:30
2	Al 396.153Radial†	118241.3	115827.0	55433 µg/L	55433 ppb	20:21:30
2	Ca 317.933Radial†	33879.2	32753.7	10623 µg/L	10623 ppb	20:21:30
2	Fe 238.204 Radial†	9728.3	9484.0	71388 µg/L	71388 ppb	20:21:50
2	K 766.490 Radial†	11228.2	10751.6	6101.7 µg/L	6101.7 ppb	20:21:30
2	Mg 279.077 IEC†	862.2	834.6	8256.6 µg/L	8256.6 ppb	20:21:50
2	Na 589.592 Radial†	2105.4	1824.0	631.54 µg/L	631.54 ppb	20:21:30
2	Sr 421.552†	15306.9	14816.7	67.104 µg/L	67.104 ppb	20:21:30
2	Sc 361.383	1757492.9	1757492.9	104.45 %		20:23:02
2	Y 371.029	1090492.0	1090492.0	116.49 %		20:23:02
2	Ag 328.068†	-1529.7	-898.7	1.5372 µg/L	1.5372 ppb	20:23:08
2	As 188.979†	-4.5	-0.5	2.6678 µg/L	2.6678 ppb	20:23:28
2	B 249.677†	928.3	730.1	1.5625 µg/L	1.5625 ppb	20:23:08
2	Ba 233.527†	9754.9	9357.6	241.26 µg/L	241.26 ppb	20:23:08
2	Be 313.107†	44269.2	44330.3	30.840 µg/L	30.840 ppb	20:23:08
2	Cd 226.502†	243.1	377.0	2.9956 µg/L	2.9956 ppb	20:23:28
2	Co 228.616†	262.2	228.8	6.9903 µg/L	6.9903 ppb	20:23:28
2	Cr 267.716†	2256.7	2070.5	53.572 µg/L	53.572 ppb	20:23:28
2	Cu 324.752†	5053.5	2215.3	29.301 µg/L	29.301 ppb	20:23:08
2	Mn 257.610†	690658.6	661799.0	2416.9 µg/L	2416.9 ppb	20:23:02
2	Mo 202.031†	60.2	53.3	8.8013 µg/L	8.8013 ppb	20:23:28
2	Ni 231.604†	743.8	413.5	29.587 µg/L	29.587 ppb	20:23:28
2	P 214.914†	479.3	217.4	424.58 µg/L	424.58 ppb	20:23:28
2	Pb 220.353†	192.2	141.2	45.063 µg/L	45.063 ppb	20:23:28

2	S 181.975 Axial†	20.6	-1.0	-3.6625 µg/L	-3.6625 ppb	20:23:28
2	Sb 206.836†	12.4	-9.2	-10.453 µg/L	-10.453 ppb	20:23:28
2	Se 196.026†	-48.9	-60.1	154.83 µg/L	154.83 ppb	20:23:28
2	SiO2†	194136.9	184488.6	40260 µg/L	40260 ppb	20:23:02
2	Si 251.611†	239807.0	229233.5	18739 µg/L	18739 ppb	20:23:02
2	Sn 189.927†	-18.6	-22.3	-14.214 µg/L	-14.214 ppb	20:23:28
2	Ti 334.940†	916442.8	877434.7	2340.3 µg/L	2340.3 ppb	20:23:02
2	Tl 190.801†	-52.4	-24.6	10.792 µg/L	10.792 ppb	20:23:28
2	U 409.014†	-2835.7	-2865.8	-291.33 µg/L	-291.33 ppb	20:23:02
2	V 292.402†	4018.4	3999.3	53.180 µg/L	53.180 ppb	20:23:08
2	Zn 213.857†	20308.7	18863.8	502.74 µg/L	502.74 ppb	20:23:08
3	Sc RADIAL	111398.1	111398.1	102 %		20:21:55
3	Al 396.153Radial†	118216.6	116059.5	55545 µg/L	55545 ppb	20:21:55
3	Ca 317.933Radial†	33737.3	32688.2	10602 µg/L	10602 ppb	20:21:55
3	Fe 238.204 Radial†	9723.0	9499.9	71507 µg/L	71507 ppb	20:22:16
3	K 766.490 Radial†	11274.3	10821.2	6141.2 µg/L	6141.2 ppb	20:21:55
3	Mg 279.077 IEC†	869.4	843.5	8345.4 µg/L	8345.4 ppb	20:22:16
3	Na 589.592 Radial†	2059.7	1783.8	617.63 µg/L	617.63 ppb	20:21:55
3	Sr 421.552†	15233.2	14777.7	66.928 µg/L	66.928 ppb	20:21:55
3	Sc 361.383	1741311.5	1741311.5	103.49 %		20:23:36
3	Y 371.029	1072304.2	1072304.2	114.55 %		20:23:36
3	Ag 328.068†	-1580.2	-961.1	0.9891 µg/L	0.9891 ppb	20:23:42
3	As 188.979†	-0.9	3.0	9.1210 µg/L	9.1210 ppb	20:24:02
3	B 249.677†	937.9	747.7	2.4254 µg/L	2.4254 ppb	20:23:42
3	Ba 233.527†	9451.2	9150.8	235.93 µg/L	235.93 ppb	20:23:42
3	Be 313.107†	42699.1	43206.9	30.045 µg/L	30.045 ppb	20:23:42
3	Cd 226.502†	207.7	344.9	2.0439 µg/L	2.0439 ppb	20:24:02
3	Co 228.616†	250.0	219.3	6.5481 µg/L	6.5481 ppb	20:24:02
3	Cr 267.716†	2113.7	1952.3	50.516 µg/L	50.516 ppb	20:24:02
3	Cu 324.752†	5001.6	2210.1	29.286 µg/L	29.286 ppb	20:23:42
3	Mn 257.610†	677241.4	654978.5	2392.1 µg/L	2392.1 ppb	20:23:36
3	Mo 202.031†	52.1	46.0	7.9704 µg/L	7.9704 ppb	20:24:02
3	Ni 231.604†	722.6	399.6	28.625 µg/L	28.625 ppb	20:24:02
3	P 214.914†	448.2	191.7	369.12 µg/L	369.12 ppb	20:24:02
3	Pb 220.353†	185.8	136.7	43.636 µg/L	43.636 ppb	20:24:02
3	S 181.975 Axial†	25.1	3.6	13.618 µg/L	13.618 ppb	20:24:02
3	Sb 206.836†	11.3	-10.1	-11.402 µg/L	-11.402 ppb	20:24:02
3	Se 196.026†	-36.4	-48.5	169.39 µg/L	169.39 ppb	20:24:02
3	SiO2†	191294.8	183469.5	40038 µg/L	40038 ppb	20:23:36
3	Si 251.611†	236444.0	228117.4	18648 µg/L	18648 ppb	20:23:36
3	Sn 189.927†	-15.8	-19.9	-13.054 µg/L	-13.054 ppb	20:24:02
3	Ti 334.940†	898760.5	868501.5	2316.5 µg/L	2316.5 ppb	20:23:36
3	Tl 190.801†	-53.4	-26.0	8.9165 µg/L	8.9165 ppb	20:24:02
3	U 409.014†	-2706.7	-2766.4	-281.60 µg/L	-281.60 ppb	20:23:36
3	V 292.402†	3909.1	3929.3	52.295 µg/L	52.295 ppb	20:23:42
3	Zn 213.857†	19795.0	18548.1	494.25 µg/L	494.25 ppb	20:23:42

Mean Data: 1202039809|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1748897.4	103.94 %		0.484			0.47%
Sc RADIAL	111590.1	102 %		0.2			0.15%
Y 371.029	1082615.6	115.65 %		0.997			0.86%
Ag 328.068†	-932.4	1.2499 µg/L		0.27505	1.2499 ppb	0.27505	22.01%
Al 396.153Radial†	115780.7	55411 µg/L		145.8	55411 ppb	145.8	0.26%
As 188.979†	1.4	6.2214 µg/L		3.27595	6.2214 ppb	3.27595	52.66%
B 249.677†	743.6	2.2135 µg/L		0.57507	2.2135 ppb	0.57507	25.98%
Ba 233.527†	9276.2	239.16 µg/L		2.841	239.16 ppb	2.841	1.19%
Be 313.107†	43959.7	30.576 µg/L		0.4600	30.576 ppb	0.4600	1.50%
Ca 317.933Radial†	32711.2	10609 µg/L		12.0	10609 ppb	12.0	0.11%
Cd 226.502†	362.8	2.5687 µg/L		0.48332	2.5687 ppb	0.48332	18.82%
Co 228.616†	225.9	6.8463 µg/L		0.25826	6.8463 ppb	0.25826	3.77%
Cr 267.716†	2039.2	52.764 µg/L		1.9727	52.764 ppb	1.9727	3.74%
Cu 324.752†	2216.8	29.335 µg/L		0.0716	29.335 ppb	0.0716	0.24%
Fe 238.204 Radial†	9500.1	71509 µg/L		122.2	71509 ppb	122.2	0.17%
K 766.490 Radial†	10739.8	6095.0 µg/L		49.84	6095.0 ppb	49.84	0.82%
Mg 279.077 IEC†	839.4	8304.4 µg/L		44.81	8304.4 ppb	44.81	0.54%
Mn 257.610†	660465.2	2412.1 µg/L		18.08	2412.1 ppb	18.08	0.75%
Mo 202.031†	50.4	8.4818 µg/L		0.44745	8.4818 ppb	0.44745	5.28%
Na 589.592 Radial†	1803.6	624.47 µg/L		6.959	624.47 ppb	6.959	1.11%

Ni 231.604†	411.2	29.429 µg/L	0.7375	29.429 ppb	0.7375	2.51%
P 214.914†	207.1	402.34 µg/L	29.318	402.34 ppb	29.318	7.29%
Pb 220.353†	141.3	45.098 µg/L	1.4796	45.098 ppb	1.4796	3.28%
S 181.975 Axial†	1.7	6.6002 µg/L	9.08570	6.6002 ppb	9.08570	137.66%
Sb 206.836†	-8.2	-9.4620 µg/L	2.58247	-9.4620 ppb	2.58247	27.29%
Se 196.026†	-53.1	163.75 µg/L	7.813	163.75 ppb	7.813	4.77%
SiO2†	184533.6	40270 µg/L	237.3	40270 ppb	237.3	0.59%
Si 251.611†	229374.2	18751 µg/L	109.0	18751 ppb	109.0	0.58%
Sn 189.927†	-21.7	-13.921 µg/L	0.7633	-13.921 ppb	0.7633	5.48%
Sr 421.552†	14770.7	66.896 µg/L	0.2258	66.896 ppb	0.2258	0.34%
Ti 334.940†	875998.3	2336.5 µg/L	18.39	2336.5 ppb	18.39	0.79%
Tl 190.801†	-25.4	9.7866 µg/L	0.94481	9.7866 ppb	0.94481	9.65%
U 409.014†	-2852.2	-290.01 µg/L	7.830	-290.01 ppb	7.830	2.70%
V 292.402†	3979.3	52.929 µg/L	0.5525	52.929 ppb	0.5525	1.04%
Zn 213.857†	18765.7	500.10 µg/L	5.069	500.10 ppb	5.069	1.01%

Sequence No.: 42

Sample ID: 1202039810|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 334

Date Collected: 2/26/2010 20:24:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039810|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	110343.5	110343.5	101 %		20:24:44
1	Al 396.153Radial†	147584.6	146230.9	69974 µg/L	69974 ppb	20:24:44
1	Ca 317.933Radial†	42247.6	41426.4	13436 µg/L	13436 ppb	20:24:44
1	Fe 238.204 Radial†	10268.9	10131.2	76270 µg/L	76270 ppb	20:25:05
1	K 766.490 Radial†	20591.1	20147.1	11434 µg/L	11434 ppb	20:24:44
1	Mg 279.077 IEC†	1370.3	1347.4	13380 µg/L	13380 ppb	20:25:05
1	Na 589.592 Radial†	14993.1	14602.6	5056.0 µg/L	5056.0 ppb	20:24:44
1	Sr 421.552†	118266.7	116886.7	529.38 µg/L	529.38 ppb	20:24:44
1	Sc 361.383	1737593.9	1737593.9	103.26 %		20:26:09
1	Y 371.029	1079547.8	1079547.8	115.32 %		20:26:09
1	Ag 328.068†	54465.4	53309.7	489.64 µg/L	489.64 ppb	20:26:15
1	As 188.979†	284.3	279.2	517.63 µg/L	517.63 ppb	20:26:36
1	B 249.677†	10419.0	9931.1	487.87 µg/L	487.87 ppb	20:26:15
1	Ba 233.527†	28606.1	27719.8	715.39 µg/L	715.39 ppb	20:26:15
1	Be 313.107†	766392.4	744113.3	531.47 µg/L	531.47 ppb	20:26:09
1	Cd 226.502†	17752.9	17336.0	499.37 µg/L	499.37 ppb	20:26:15
1	Co 228.616†	9867.1	9532.9	488.64 µg/L	488.64 ppb	20:26:36
1	Cr 267.716†	22665.1	21858.5	565.58 µg/L	565.58 ppb	20:26:15
1	Cu 324.752†	78748.2	73636.0	542.19 µg/L	542.19 ppb	20:26:15
1	Mn 257.610†	839161.3	813180.4	2968.9 µg/L	2968.9 ppb	20:26:09
1	Mo 202.031†	4547.6	4399.5	505.76 µg/L	505.76 ppb	20:26:36
1	Ni 231.604†	8418.4	7853.6	545.01 µg/L	545.01 ppb	20:26:36
1	P 214.914†	778.8	512.7	1014.7 µg/L	1014.7 ppb	20:26:36
1	Pb 220.353†	1869.4	1767.5	557.77 µg/L	557.77 ppb	20:26:36
1	S 181.975 Axial†	1426.6	1360.9	5164.9 µg/L	5164.9 ppb	20:26:36
1	Sb 206.836†	449.5	414.3	443.58 µg/L	443.58 ppb	20:26:36
1	Se 196.026†	383.2	357.8	680.55 µg/L	680.55 ppb	20:26:36
1	SiO2†	207057.7	199129.6	43455 µg/L	43455 ppb	20:26:15
1	Si 251.611†	256394.6	247926.2	20267 µg/L	20267 ppb	20:26:15
1	Sn 189.927†	1114.7	1074.9	501.82 µg/L	501.82 ppb	20:26:36
1	Ti 334.940†	1187270.0	1149749.7	3066.4 µg/L	3066.4 ppb	20:26:09
1	Tl 190.801†	387.0	400.3	513.49 µg/L	513.49 ppb	20:26:36
1	U 409.014†	2828.8	2588.6	242.17 µg/L	242.17 ppb	20:26:15
1	V 292.402†	43969.6	42731.7	549.78 µg/L	549.78 ppb	20:26:15
1	Zn 213.857†	38294.0	36503.2	972.97 µg/L	972.97 ppb	20:26:15
2	Sc RADIAL	110492.8	110492.8	101 %		20:25:10
2	Al 396.153Radial†	148700.7	147136.6	70408 µg/L	70408 ppb	20:25:10
2	Ca 317.933Radial†	42479.9	41599.6	13492 µg/L	13492 ppb	20:25:10
2	Fe 238.204 Radial†	10201.1	10050.5	75662 µg/L	75662 ppb	20:25:31
2	K 766.490 Radial†	20773.1	20299.4	11520 µg/L	11520 ppb	20:25:10
2	Mg 279.077 IEC†	1362.9	1338.2	13289 µg/L	13289 ppb	20:25:31
2	Na 589.592 Radial†	15113.9	14701.8	5090.4 µg/L	5090.4 ppb	20:25:10
2	Sr 421.552†	119545.4	117992.4	534.38 µg/L	534.38 ppb	20:25:10
2	Sc 361.383	1727459.9	1727459.9	102.66 %		20:26:43
2	Y 371.029	1079883.1	1079883.1	115.36 %		20:26:43
2	Ag 328.068†	54696.7	53844.4	494.37 µg/L	494.37 ppb	20:26:49
2	As 188.979†	275.8	272.5	505.28 µg/L	505.28 ppb	20:27:09
2	B 249.677†	10476.4	10046.1	494.30 µg/L	494.30 ppb	20:26:49
2	Ba 233.527†	28596.6	27873.1	719.35 µg/L	719.35 ppb	20:26:49
2	Be 313.107†	761197.8	743407.2	530.97 µg/L	530.97 ppb	20:26:43
2	Cd 226.502†	17831.6	17513.5	504.64 µg/L	504.64 ppb	20:26:49
2	Co 228.616†	9821.8	9544.9	489.27 µg/L	489.27 ppb	20:27:09
2	Cr 267.716†	22786.6	22105.6	571.97 µg/L	571.97 ppb	20:26:49
2	Cu 324.752†	79041.7	74369.3	547.33 µg/L	547.33 ppb	20:26:49
2	Mn 257.610†	832919.9	811868.1	2964.1 µg/L	2964.1 ppb	20:26:43
2	Mo 202.031†	4516.7	4395.2	505.24 µg/L	505.24 ppb	20:27:09
2	Ni 231.604†	8393.9	7877.7	546.66 µg/L	546.66 ppb	20:27:09
2	P 214.914†	784.3	522.5	1036.0 µg/L	1036.0 ppb	20:27:09
2	Pb 220.353†	1863.1	1771.9	559.18 µg/L	559.18 ppb	20:27:09



2	S 181.975 Axial†	1429.6	1371.9	5206.6 µg/L	5206.6 ppb	20:27:09
2	Sb 206.836†	450.4	417.7	447.18 µg/L	447.18 ppb	20:27:09
2	Se 196.026†	393.5	370.0	693.58 µg/L	693.58 ppb	20:27:09
2	SiO2†	207140.5	200386.6	43730 µg/L	43730 ppb	20:26:49
2	Si 251.611†	256480.9	249466.8	20393 µg/L	20393 ppb	20:26:49
2	Sn 189.927†	1108.5	1075.2	501.98 µg/L	501.98 ppb	20:27:09
2	Ti 334.940†	1178630.8	1148079.3	3062.0 µg/L	3062.0 ppb	20:26:43
2	Tl 190.801†	383.9	399.5	512.41 µg/L	512.41 ppb	20:27:09
2	U 409.014†	2930.5	2703.7	253.53 µg/L	253.53 ppb	20:26:49
2	V 292.402†	44095.3	43103.9	554.49 µg/L	554.49 ppb	20:26:49
2	Zn 213.857†	38262.3	36690.0	978.01 µg/L	978.01 ppb	20:26:49
3	Sc RADIAL	109978.7	109978.7	101 %		20:25:36
3	Al 396.153Radial†	146856.6	145992.4	69861 µg/L	69861 ppb	20:25:36
3	Ca 317.933Radial†	41886.0	41206.1	13364 µg/L	13364 ppb	20:25:36
3	Fe 238.204 Radial†	10265.7	10161.8	76499 µg/L	76499 ppb	20:25:57
3	K 766.490 Radial†	20486.5	20110.8	11413 µg/L	11413 ppb	20:25:36
3	Mg 279.077 IEC†	1373.3	1354.8	13453 µg/L	13453 ppb	20:25:57
3	Na 589.592 Radial†	14928.8	14587.9	5050.9 µg/L	5050.9 ppb	20:25:36
3	Sr 421.552†	117861.9	116873.0	529.31 µg/L	529.31 ppb	20:25:36
3	Sc 361.383	1731621.0	1731621.0	102.91 %		20:27:16
3	Y 371.029	1073774.3	1073774.3	114.70 %		20:27:16
3	Ag 328.068†	54039.8	53078.1	487.54 µg/L	487.54 ppb	20:27:22
3	As 188.979†	264.8	261.1	484.41 µg/L	484.41 ppb	20:27:43
3	B 249.677†	10307.8	9857.8	483.84 µg/L	483.84 ppb	20:27:22
3	Ba 233.527†	28016.5	27242.4	703.07 µg/L	703.07 ppb	20:27:22
3	Be 313.107†	759283.2	739765.0	528.36 µg/L	528.36 ppb	20:27:16
3	Cd 226.502†	17455.6	17106.3	492.59 µg/L	492.59 ppb	20:27:22
3	Co 228.616†	9312.6	9027.1	462.41 µg/L	462.41 ppb	20:27:43
3	Cr 267.716†	22043.7	21330.4	551.91 µg/L	551.91 ppb	20:27:22
3	Cu 324.752†	77225.9	72419.7	533.51 µg/L	533.51 ppb	20:27:22
3	Mn 257.610†	831837.8	808867.0	2953.2 µg/L	2953.2 ppb	20:27:16
3	Mo 202.031†	4276.7	4151.4	477.41 µg/L	477.41 ppb	20:27:43
3	Ni 231.604†	7969.0	7445.0	516.71 µg/L	516.71 ppb	20:27:43
3	P 214.914†	753.4	490.7	967.48 µg/L	967.48 ppb	20:27:43
3	Pb 220.353†	1788.6	1695.2	534.93 µg/L	534.93 ppb	20:27:43
3	S 181.975 Axial†	1384.0	1324.2	5025.7 µg/L	5025.7 ppb	20:27:43
3	Sb 206.836†	427.0	393.9	421.57 µg/L	421.57 ppb	20:27:43
3	Se 196.026†	364.3	340.7	660.22 µg/L	660.22 ppb	20:27:43
3	SiO2†	200598.4	193544.5	42237 µg/L	42237 ppb	20:27:22
3	Si 251.611†	248462.7	241074.9	19707 µg/L	19707 ppb	20:27:22
3	Sn 189.927†	1047.2	1013.0	472.71 µg/L	472.71 ppb	20:27:43
3	Ti 334.940†	1175203.6	1141990.1	3045.7 µg/L	3045.7 ppb	20:27:16
3	Tl 190.801†	377.7	392.6	504.34 µg/L	504.34 ppb	20:27:43
3	U 409.014†	2783.4	2553.9	238.75 µg/L	238.75 ppb	20:27:22
3	V 292.402†	42972.6	41909.8	539.11 µg/L	539.11 ppb	20:27:22
3	Zn 213.857†	37621.1	35977.3	958.97 µg/L	958.97 ppb	20:27:22

Mean Data: 1202039810|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1732224.9	102.95 %	0.303			0.29%
Sc RADIAL	110271.7	101 %	0.2			0.24%
Y 371.029	1077735.1	115.13 %	0.367			0.32%
Ag 328.068†	53410.7	490.52 µg/L	3.501	490.52 ppb	3.501	0.71%
Al 396.153Radial†	146453.3	70081 µg/L	288.7	70081 ppb	288.7	0.41%
As 188.979†	270.9	502.44 µg/L	16.788	502.44 ppb	16.788	3.34%
B 249.677†	9945.0	488.67 µg/L	5.275	488.67 ppb	5.275	1.08%
Ba 233.527†	27611.8	712.60 µg/L	8.491	712.60 ppb	8.491	1.19%
Be 313.107†	742428.5	530.27 µg/L	1.666	530.27 ppb	1.666	0.31%
Ca 317.933Radial†	41410.7	13430 µg/L	64.0	13430 ppb	64.0	0.48%
Cd 226.502†	17318.6	498.87 µg/L	6.037	498.87 ppb	6.037	1.21%
Co 228.616†	9368.3	480.11 µg/L	15.327	480.11 ppb	15.327	3.19%
Cr 267.716†	21764.8	563.15 µg/L	10.245	563.15 ppb	10.245	1.82%
Cu 324.752†	73475.0	541.01 µg/L	6.984	541.01 ppb	6.984	1.29%
Fe 238.204 Radial†	10114.5	76144 µg/L	432.5	76144 ppb	432.5	0.57%
K 766.490 Radial†	20185.8	11456 µg/L	56.8	11456 ppb	56.8	0.50%
Mg 279.077 IEC†	1346.8	13374 µg/L	82.1	13374 ppb	82.1	0.61%
Mn 257.610†	811305.2	2962.1 µg/L	8.05	2962.1 ppb	8.05	0.27%
Mo 202.031†	4315.4	496.14 µg/L	16.219	496.14 ppb	16.219	3.27%
Na 589.592 Radial†	14630.8	5065.8 µg/L	21.46	5065.8 ppb	21.46	0.42%

Ni 231.604†	7725.4	536.13 µg/L	16.838	536.13 ppb	16.838	3.14%
P 214.914†	508.6	1006.0 µg/L	35.05	1006.0 ppb	35.05	3.48%
Pb 220.353†	1744.9	550.62 µg/L	13.613	550.62 ppb	13.613	2.47%
S 181.975 Axial†	1352.3	5132.4 µg/L	94.75	5132.4 ppb	94.75	1.85%
Sb 206.836†	408.6	437.44 µg/L	13.861	437.44 ppb	13.861	3.17%
Se 196.026†	356.2	678.12 µg/L	16.811	678.12 ppb	16.811	2.48%
SiO2†	197686.9	43141 µg/L	794.8	43141 ppb	794.8	1.84%
Si 251.611†	246156.0	20122 µg/L	365.2	20122 ppb	365.2	1.81%
Sn 189.927†	1054.4	492.17 µg/L	16.851	492.17 ppb	16.851	3.42%
Sr 421.552†	117250.7	531.02 µg/L	2.909	531.02 ppb	2.909	0.55%
Ti 334.940†	1146606.4	3058.0 µg/L	10.90	3058.0 ppb	10.90	0.36%
Tl 190.801†	397.5	510.08 µg/L	5.001	510.08 ppb	5.001	0.98%
U 409.014†	2615.4	244.82 µg/L	7.737	244.82 ppb	7.737	3.16%
V 292.402†	42581.8	547.79 µg/L	7.879	547.79 ppb	7.879	1.44%
Zn 213.857†	36390.2	969.98 µg/L	9.865	969.98 ppb	9.865	1.02%

Sequence No.: 43

Sample ID: 1202039812|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 335

Date Collected: 2/26/2010 20:27:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039812|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	109695.8	109695.8	100 %		20:28:25
1	Al 396.153Radial†	174429.1	173816.6	83176 µg/L	83176 ppb	20:28:25
1	Ca 317.933Radial†	46516.2	45922.7	14894 µg/L	14894 ppb	20:28:25
1	Fe 238.204 Radial†	11176.8	11095.0	83524 µg/L	83524 ppb	20:28:45
1	K 766.490 Radial†	22563.1	22230.5	12616 µg/L	12616 ppb	20:28:25
1	Mg 279.077 IEC†	1517.1	1501.4	14910 µg/L	14910 ppb	20:28:45
1	Na 589.592 Radial†	15123.0	14819.4	5131.1 µg/L	5131.1 ppb	20:28:25
1	Sr 421.552†	120571.3	119872.1	542.90 µg/L	542.90 ppb	20:28:25
1	Sc 361.383	1732560.0	1732560.0	102.96 %		20:29:50
1	Y 371.029	1078070.1	1078070.1	115.16 %		20:29:50
1	Ag 328.068†	54471.8	53469.1	492.07 µg/L	492.07 ppb	20:29:56
1	As 188.979†	274.3	270.3	501.58 µg/L	501.58 ppb	20:30:16
1	B 249.677†	10488.7	10028.1	489.27 µg/L	489.27 ppb	20:29:56
1	Ba 233.527†	29830.7	28989.7	748.13 µg/L	748.13 ppb	20:29:56
1	Be 313.107†	766207.2	746089.8	532.84 µg/L	532.84 ppb	20:29:50
1	Cd 226.502†	17733.1	17366.6	499.46 µg/L	499.46 ppb	20:29:56
1	Co 228.616†	9826.7	9521.5	487.80 µg/L	487.80 ppb	20:30:16
1	Cr 267.716†	23535.7	22767.8	589.10 µg/L	589.10 ppb	20:29:56
1	Cu 324.752†	79146.9	74244.8	547.92 µg/L	547.92 ppb	20:29:56
1	Mn 257.610†	897796.1	872487.9	3185.5 µg/L	3185.5 ppb	20:29:50
1	Mo 202.031†	4511.8	4377.5	503.52 µg/L	503.52 ppb	20:30:16
1	Ni 231.604†	8551.7	8006.8	555.73 µg/L	555.73 ppb	20:30:16
1	P 214.914†	799.8	535.3	1060.7 µg/L	1060.7 ppb	20:30:16
1	Pb 220.353†	1852.3	1756.1	554.65 µg/L	554.65 ppb	20:30:16
1	S 181.975 Axial†	1426.4	1364.6	5179.2 µg/L	5179.2 ppb	20:30:16
1	Sb 206.836†	430.4	396.9	424.78 µg/L	424.78 ppb	20:30:16
1	Se 196.026†	379.5	355.3	700.20 µg/L	700.20 ppb	20:30:16
1	SiO2†	218224.0	210557.0	45949 µg/L	45949 ppb	20:29:56
1	Si 251.611†	270426.9	262275.8	21440 µg/L	21440 ppb	20:29:56
1	Sn 189.927†	1098.0	1061.8	495.37 µg/L	495.37 ppb	20:30:16
1	Ti 334.940†	1230151.2	1194736.6	3186.3 µg/L	3186.3 ppb	20:29:50
1	Tl 190.801†	381.9	396.5	512.10 µg/L	512.10 ppb	20:30:16
1	U 409.014†	2506.0	2283.0	211.14 µg/L	211.14 ppb	20:29:56
1	V 292.402†	44607.3	43474.7	559.46 µg/L	559.46 ppb	20:29:56
1	Zn 213.857†	40288.3	38547.9	1027.4 µg/L	1027.4 ppb	20:29:56
2	Sc RADIAL	110164.2	110164.2	101 %		20:28:51
2	Al 396.153Radial†	174139.8	172791.6	82686 µg/L	82686 ppb	20:28:51
2	Ca 317.933Radial†	46503.9	45713.6	14826 µg/L	14826 ppb	20:28:51
2	Fe 238.204 Radial†	11200.9	11071.6	83348 µg/L	83348 ppb	20:29:12
2	K 766.490 Radial†	22523.9	22096.1	12540 µg/L	12540 ppb	20:28:51
2	Mg 279.077 IEC†	1527.1	1505.0	14946 µg/L	14946 ppb	20:29:12
2	Na 589.592 Radial†	15182.2	14814.1	5129.3 µg/L	5129.3 ppb	20:28:51
2	Sr 421.552†	120994.1	119780.8	542.48 µg/L	542.48 ppb	20:28:51
2	Sc 361.383	1717475.7	1717475.7	102.07 %		20:30:23
2	Y 371.029	1070657.7	1070657.7	114.37 %		20:30:23
2	Ag 328.068†	54336.4	53801.2	495.02 µg/L	495.02 ppb	20:30:29
2	As 188.979†	282.9	281.0	521.27 µg/L	521.27 ppb	20:30:50
2	B 249.677†	10408.7	10039.1	489.95 µg/L	489.95 ppb	20:30:29
2	Ba 233.527†	29736.2	29151.5	752.31 µg/L	752.31 ppb	20:30:29
2	Be 313.107†	763666.3	750136.0	535.73 µg/L	535.73 ppb	20:30:23
2	Cd 226.502†	17662.9	17449.2	501.90 µg/L	501.90 ppb	20:30:29
2	Co 228.616†	9805.0	9584.1	491.01 µg/L	491.01 ppb	20:30:50
2	Cr 267.716†	23548.8	22981.4	594.62 µg/L	594.62 ppb	20:30:29
2	Cu 324.752†	78906.5	74684.3	551.04 µg/L	551.04 ppb	20:30:29
2	Mn 257.610†	892048.5	874515.0	3192.9 µg/L	3192.9 ppb	20:30:23
2	Mo 202.031†	4482.8	4387.6	504.66 µg/L	504.66 ppb	20:30:50
2	Ni 231.604†	8509.3	8038.2	557.89 µg/L	557.89 ppb	20:30:50
2	P 214.914†	777.1	519.9	1027.4 µg/L	1027.4 ppb	20:30:50
2	Pb 220.353†	1849.2	1768.9	558.65 µg/L	558.65 ppb	20:30:50

2	S 181.975 Axial†	1429.3	1379.6	5236.1 µg/L	5236.1 ppb	20:30:50
2	Sb 206.836†	421.4	391.9	419.31 µg/L	419.31 ppb	20:30:50
2	Se 196.026†	372.1	351.2	694.58 µg/L	694.58 ppb	20:30:50
2	SiO2†	217008.6	211227.6	46096 µg/L	46096 ppb	20:30:29
2	Si 251.611†	268737.7	262927.6	21493 µg/L	21493 ppb	20:30:29
2	Sn 189.927†	1100.2	1073.3	500.81 µg/L	500.81 ppb	20:30:50
2	Ti 334.940†	1226243.6	1201401.2	3204.1 µg/L	3204.1 ppb	20:30:23
2	Tl 190.801†	384.2	402.0	518.66 µg/L	518.66 ppb	20:30:50
2	U 409.014†	2646.4	2441.9	226.74 µg/L	226.74 ppb	20:30:29
2	V 292.402†	44314.7	43568.6	560.68 µg/L	560.68 ppb	20:30:29
2	Zn 213.857†	40086.7	38694.1	1031.3 µg/L	1031.3 ppb	20:30:29
3	Sc RADIAL	110034.1	110034.1	101 %		20:29:17
3	Al 396.153Radial†	175144.0	173992.2	83261 µg/L	83261 ppb	20:29:17
3	Ca 317.933Radial†	46681.6	45944.4	14901 µg/L	14901 ppb	20:29:17
3	Fe 238.204 Radial†	11239.6	11123.2	83736 µg/L	83736 ppb	20:29:37
3	K 766.490 Radial†	22717.1	22314.3	12664 µg/L	12664 ppb	20:29:17
3	Mg 279.077 IEC†	1529.3	1509.0	14985 µg/L	14985 ppb	20:29:37
3	Na 589.592 Radial†	15193.1	14842.7	5139.2 µg/L	5139.2 ppb	20:29:17
3	Sr 421.552†	120984.3	119912.9	543.08 µg/L	543.08 ppb	20:29:17
3	Sc 361.383	1727573.7	1727573.7	102.67 %		20:30:57
3	Y 371.029	1072806.9	1072806.9	114.60 %		20:30:57
3	Ag 328.068†	53987.8	53150.4	489.16 µg/L	489.16 ppb	20:31:03
3	As 188.979†	259.2	256.3	475.92 µg/L	475.92 ppb	20:31:23
3	B 249.677†	10373.8	9945.5	484.76 µg/L	484.76 ppb	20:31:03
3	Ba 233.527†	29365.2	28619.9	738.58 µg/L	738.58 ppb	20:31:03
3	Be 313.107†	756829.7	739103.8	527.85 µg/L	527.85 ppb	20:30:57
3	Cd 226.502†	17499.8	17189.2	494.21 µg/L	494.21 ppb	20:31:03
3	Co 228.616†	9200.2	8938.8	457.60 µg/L	457.60 ppb	20:31:23
3	Cr 267.716†	22915.4	22229.6	575.17 µg/L	575.17 ppb	20:31:03
3	Cu 324.752†	77629.5	72988.7	538.95 µg/L	538.95 ppb	20:31:03
3	Mn 257.610†	887590.5	865064.3	3158.4 µg/L	3158.4 ppb	20:30:57
3	Mo 202.031†	4234.8	4120.4	474.14 µg/L	474.14 ppb	20:31:23
3	Ni 231.604†	8039.7	7532.1	522.84 µg/L	522.84 ppb	20:31:23
3	P 214.914†	758.3	497.1	978.85 µg/L	978.85 ppb	20:31:23
3	Pb 220.353†	1769.6	1680.7	530.84 µg/L	530.84 ppb	20:31:23
3	S 181.975 Axial†	1373.2	1316.8	4997.7 µg/L	4997.7 ppb	20:31:23
3	Sb 206.836†	401.5	370.0	395.75 µg/L	395.75 ppb	20:31:23
3	Se 196.026†	355.6	333.1	673.56 µg/L	673.56 ppb	20:31:23
3	SiO2†	212182.5	205284.2	44799 µg/L	44799 ppb	20:31:03
3	Si 251.611†	262809.5	255614.5	20896 µg/L	20896 ppb	20:31:03
3	Sn 189.927†	1031.8	1000.4	466.50 µg/L	466.50 ppb	20:31:23
3	Ti 334.940†	1215819.9	1184226.2	3158.3 µg/L	3158.3 ppb	20:30:57
3	Tl 190.801†	363.5	379.7	492.24 µg/L	492.24 ppb	20:31:23
3	U 409.014†	2493.0	2277.4	210.56 µg/L	210.56 ppb	20:31:03
3	V 292.402†	43401.0	42424.9	545.91 µg/L	545.91 ppb	20:31:03
3	Zn 213.857†	39506.1	37899.0	1010.1 µg/L	1010.1 ppb	20:31:03

Mean Data: 1202039812|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1725869.8	102.57 %	0.457			0.45%
Sc RADIAL	109964.7	101 %	0.2			0.22%
Y 371.029	1073844.9	114.71 %	0.407			0.36%
Ag 328.068†	53473.6	492.08 µg/L	2.929	492.08 ppb	2.929	0.60%
Al 396.153Radial†	173533.5	83041 µg/L	310.6	83041 ppb	310.6	0.37%
As 188.979†	269.2	499.59 µg/L	22.741	499.59 ppb	22.741	4.55%
B 249.677†	10004.2	487.99 µg/L	2.823	487.99 ppb	2.823	0.58%
Ba 233.527†	28920.4	746.34 µg/L	7.038	746.34 ppb	7.038	0.94%
Be 313.107†	745109.9	532.14 µg/L	3.986	532.14 ppb	3.986	0.75%
Ca 317.933Radial†	45860.2	14874 µg/L	41.3	14874 ppb	41.3	0.28%
Cd 226.502†	17335.0	498.52 µg/L	3.930	498.52 ppb	3.930	0.79%
Co 228.616†	9348.2	478.80 µg/L	18.432	478.80 ppb	18.432	3.85%
Cr 267.716†	22659.6	586.30 µg/L	10.023	586.30 ppb	10.023	1.71%
Cu 324.752†	73972.6	545.97 µg/L	6.273	545.97 ppb	6.273	1.15%
Fe 238.204 Radial†	11096.6	83536 µg/L	194.1	83536 ppb	194.1	0.23%
K 766.490 Radial†	22213.6	12607 µg/L	62.5	12607 ppb	62.5	0.50%
Mg 279.077 IEC†	1505.1	14947 µg/L	37.2	14947 ppb	37.2	0.25%
Mn 257.610†	870689.1	3178.9 µg/L	18.13	3178.9 ppb	18.13	0.57%
Mo 202.031†	4295.1	494.11 µg/L	17.304	494.11 ppb	17.304	3.50%
Na 589.592 Radial†	14825.4	5133.2 µg/L	5.27	5133.2 ppb	5.27	0.10%

Ni 231.604†	7859.0	545.49 µg/L	19.640	545.49 ppb	19.640	3.60%
P 214.914†	517.4	1022.3 µg/L	41.16	1022.3 ppb	41.16	4.03%
Pb 220.353†	1735.3	548.05 µg/L	15.034	548.05 ppb	15.034	2.74%
S 181.975 Axial†	1353.7	5137.7 µg/L	124.53	5137.7 ppb	124.53	2.42%
Sb 206.836†	386.3	413.28 µg/L	15.428	413.28 ppb	15.428	3.73%
Se 196.026†	346.5	689.45 µg/L	14.043	689.45 ppb	14.043	2.04%
SiO2†	209022.9	45614 µg/L	710.4	45614 ppb	710.4	1.56%
Si 251.611†	260272.6	21276 µg/L	330.8	21276 ppb	330.8	1.55%
Sn 189.927†	1045.2	487.56 µg/L	18.440	487.56 ppb	18.440	3.78%
Sr 421.552†	119855.3	542.82 µg/L	0.306	542.82 ppb	0.306	0.06%
Ti 334.940†	1193454.7	3182.9 µg/L	23.10	3182.9 ppb	23.10	0.73%
Tl 190.801†	392.7	507.67 µg/L	13.761	507.67 ppb	13.761	2.71%
U 409.014†	2334.1	216.15 µg/L	9.175	216.15 ppb	9.175	4.24%
V 292.402†	43156.1	555.35 µg/L	8.202	555.35 ppb	8.202	1.48%
Zn 213.857†	38380.3	1023.0 µg/L	11.28	1023.0 ppb	11.28	1.10%

Sequence No.: 44

Sample ID: 1202039811|951773|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 336

Date Collected: 2/26/2010 20:31:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039811|951773|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	108515.5	108515.5	99.4 %		20:32:05
1	Al 396.153Radial†	18555.8	18847.9	9020.4 µg/L	9020.4 ppb	20:32:05
1	Ca 317.933Radial†	6240.8	5896.7	1912.4 µg/L	1912.4 ppb	20:32:25
1	Fe 238.204 Radial†	1725.0	1704.6	12831 µg/L	12831 ppb	20:32:25
1	K 766.490 Radial†	2104.2	1886.8	1070.8 µg/L	1070.8 ppb	20:32:05
1	Mg 279.077 IEC†	149.5	141.7	1400.9 µg/L	1400.9 ppb	20:32:25
1	Na 589.592 Radial†	537.4	305.6	105.79 µg/L	105.79 ppb	20:32:05
1	Sr 421.552†	2618.3	2479.9	11.231 µg/L	11.231 ppb	20:32:05
1	Sc 361.383	1730642.6	1730642.6	102.85 %		20:33:28
1	Y 371.029	977214.2	977214.2	104.39 %		20:33:28
1	Ag 328.068†	-770.7	-183.4	0.0815 µg/L	0.0815 ppb	20:33:33
1	As 188.979†	-9.8	-5.7	-9.8176 µg/L	-9.8176 ppb	20:33:54
1	B 249.677†	333.8	165.9	2.1172 µg/L	2.1172 ppb	20:33:33
1	Ba 233.527†	1677.1	1648.6	42.504 µg/L	42.504 ppb	20:33:54
1	Be 313.107†	5314.1	7112.6	4.9368 µg/L	4.9368 ppb	20:33:33
1	Cd 226.502†	-81.3	65.1	0.4609 µg/L	0.4609 ppb	20:33:54
1	Co 228.616†	66.9	42.8	1.3790 µg/L	1.3790 ppb	20:33:54
1	Cr 267.716†	400.9	299.6	7.7535 µg/L	7.7535 ppb	20:33:33
1	Cu 324.752†	2993.2	287.2	4.4707 µg/L	4.4707 ppb	20:33:33
1	Mn 257.610†	132454.1	129326.8	472.26 µg/L	472.26 ppb	20:33:33
1	Mo 202.031†	21.3	16.3	2.3536 µg/L	2.3536 ppb	20:33:54
1	Ni 231.604†	372.5	63.6	4.5719 µg/L	4.5719 ppb	20:33:54
1	P 214.914†	320.9	70.5	143.86 µg/L	143.86 ppb	20:33:54
1	Pb 220.353†	62.9	18.3	5.8215 µg/L	5.8215 ppb	20:33:54
1	S 181.975 Axial†	19.0	-2.2	-8.3018 µg/L	-8.3018 ppb	20:33:54
1	Sb 206.836†	21.3	-0.3	-0.3800 µg/L	-0.3800 ppb	20:33:54
1	Se 196.026†	3.7	-9.7	29.270 µg/L	29.270 ppb	20:33:54
1	SiO2†	32161.9	29887.3	6522.2 µg/L	6522.2 ppb	20:33:33
1	Si 251.611†	38666.3	37230.5	3043.5 µg/L	3043.5 ppb	20:33:33
1	Sn 189.927†	-2.0	-6.5	-3.7566 µg/L	-3.7566 ppb	20:33:54
1	Ti 334.940†	156198.9	151877.3	405.09 µg/L	405.09 ppb	20:33:28
1	Tl 190.801†	-35.5	-8.9	-3.3223 µg/L	-3.3223 ppb	20:33:54
1	U 409.014†	-274.1	-417.4	-42.788 µg/L	-42.788 ppb	20:33:33
1	V 292.402†	592.0	727.5	9.6803 µg/L	9.6803 ppb	20:33:33
1	Zn 213.857†	3882.0	3194.1	85.094 µg/L	85.094 ppb	20:33:33
2	Sc RADIAL	108043.0	108043.0	98.9 %		20:32:31
2	Al 396.153Radial†	18527.3	18900.8	9045.6 µg/L	9045.6 ppb	20:32:31
2	Ca 317.933Radial†	6207.2	5890.2	1910.3 µg/L	1910.3 ppb	20:32:51
2	Fe 238.204 Radial†	1724.9	1712.1	12888 µg/L	12888 ppb	20:32:51
2	K 766.490 Radial†	2081.4	1873.0	1062.9 µg/L	1062.9 ppb	20:32:31
2	Mg 279.077 IEC†	152.7	145.5	1439.2 µg/L	1439.2 ppb	20:32:51
2	Na 589.592 Radial†	597.5	368.6	127.62 µg/L	127.62 ppb	20:32:31
2	Sr 421.552†	2664.2	2537.8	11.494 µg/L	11.494 ppb	20:32:31
2	Sc 361.383	1722158.5	1722158.5	102.35 %		20:34:00
2	Y 371.029	977521.9	977521.9	104.42 %		20:34:00
2	Ag 328.068†	-746.4	-163.4	0.2682 µg/L	0.2682 ppb	20:34:06
2	As 188.979†	-7.2	-3.2	-5.2196 µg/L	-5.2196 ppb	20:34:26
2	B 249.677†	335.1	168.7	2.2373 µg/L	2.2373 ppb	20:34:06
2	Ba 233.527†	1674.2	1653.7	42.637 µg/L	42.637 ppb	20:34:26
2	Be 313.107†	5284.8	7109.5	4.9354 µg/L	4.9354 ppb	20:34:06
2	Cd 226.502†	-77.9	68.1	0.5407 µg/L	0.5407 ppb	20:34:26
2	Co 228.616†	64.7	41.0	1.2872 µg/L	1.2872 ppb	20:34:26
2	Cr 267.716†	383.5	284.5	7.3640 µg/L	7.3640 ppb	20:34:06
2	Cu 324.752†	2956.1	265.2	4.3242 µg/L	4.3242 ppb	20:34:06
2	Mn 257.610†	131940.5	129459.4	472.75 µg/L	472.75 ppb	20:34:06
2	Mo 202.031†	21.9	17.0	2.4384 µg/L	2.4384 ppb	20:34:26
2	Ni 231.604†	365.1	58.1	4.1932 µg/L	4.1932 ppb	20:34:26
2	P 214.914†	317.3	68.5	139.53 µg/L	139.53 ppb	20:34:26
2	Pb 220.353†	57.1	13.0	4.1398 µg/L	4.1398 ppb	20:34:26

2	S 181.975 Axial†	24.5	3.3	12.419 µg/L	12.419 ppb	20:34:26
2	Sb 206.836†	17.0	-4.4	-4.7705 µg/L	-4.7705 ppb	20:34:26
2	Se 196.026†	13.4	-0.2	41.036 µg/L	41.036 ppb	20:34:26
2	SiO2†	31969.1	29852.9	6514.7 µg/L	6514.7 ppb	20:34:06
2	Si 251.611†	38486.4	37239.9	3044.2 µg/L	3044.2 ppb	20:34:06
2	Sn 189.927†	0.8	-3.8	-2.4595 µg/L	-2.4595 ppb	20:34:26
2	Ti 334.940†	154585.4	151048.9	402.88 µg/L	402.88 ppb	20:34:00
2	Tl 190.801†	-33.6	-7.2	-1.3540 µg/L	-1.3540 ppb	20:34:26
2	U 409.014†	-297.6	-441.6	-45.167 µg/L	-45.167 ppb	20:34:06
2	V 292.402†	593.9	732.2	9.7391 µg/L	9.7391 ppb	20:34:06
2	Zn 213.857†	3871.1	3202.1	85.304 µg/L	85.304 ppb	20:34:06
3	Sc RADIAL	108196.1	108196.1	99.1 %		20:32:57
3	Al 396.153Radial†	18486.6	18833.1	9013.3 µg/L	9013.3 ppb	20:32:57
3	Ca 317.933Radial†	6227.2	5901.5	1914.0 µg/L	1914.0 ppb	20:33:17
3	Fe 238.204 Radial†	1717.8	1702.4	12815 µg/L	12815 ppb	20:33:17
3	K 766.490 Radial†	2062.3	1850.7	1050.3 µg/L	1050.3 ppb	20:32:57
3	Mg 279.077 IEC†	149.1	141.7	1401.1 µg/L	1401.1 ppb	20:33:17
3	Na 589.592 Radial†	576.0	346.0	119.81 µg/L	119.81 ppb	20:32:57
3	Sr 421.552†	2631.4	2500.8	11.326 µg/L	11.326 ppb	20:32:57
3	Sc 361.383	1729585.2	1729585.2	102.79 %		20:34:33
3	Y 371.029	977874.5	977874.5	104.46 %		20:34:33
3	Ag 328.068†	-682.7	-98.2	0.8350 µg/L	0.8350 ppb	20:34:38
3	As 188.979†	-3.4	0.5	1.6499 µg/L	1.6499 ppb	20:34:59
3	B 249.677†	306.9	140.0	0.7474 µg/L	0.7474 ppb	20:34:38
3	Ba 233.527†	1496.9	1474.2	38.009 µg/L	38.009 ppb	20:34:59
3	Be 313.107†	5033.5	6842.8	4.7475 µg/L	4.7475 ppb	20:34:38
3	Cd 226.502†	-91.3	55.4	0.1776 µg/L	0.1776 ppb	20:34:59
3	Co 228.616†	55.6	31.8	0.8272 µg/L	0.8272 ppb	20:34:59
3	Cr 267.716†	358.2	258.3	6.6852 µg/L	6.6852 ppb	20:34:38
3	Cu 324.752†	2958.3	255.0	4.2368 µg/L	4.2368 ppb	20:34:38
3	Mn 257.610†	125953.4	123081.1	449.49 µg/L	449.49 ppb	20:34:38
3	Mo 202.031†	15.2	10.5	1.6824 µg/L	1.6824 ppb	20:34:59
3	Ni 231.604†	362.8	54.4	3.9338 µg/L	3.9338 ppb	20:34:59
3	P 214.914†	308.8	58.9	118.93 µg/L	118.93 ppb	20:34:59
3	Pb 220.353†	74.0	29.2	9.2364 µg/L	9.2364 ppb	20:34:59
3	S 181.975 Axial†	24.8	3.4	13.017 µg/L	13.017 ppb	20:34:59
3	Sb 206.836†	23.4	1.7	1.7729 µg/L	1.7729 ppb	20:34:59
3	Se 196.026†	0.7	-12.6	25.571 µg/L	25.571 ppb	20:34:59
3	SiO2†	31056.0	28830.4	6291.6 µg/L	6291.6 ppb	20:34:38
3	Si 251.611†	37236.1	35862.1	2931.6 µg/L	2931.6 ppb	20:34:38
3	Sn 189.927†	3.7	-0.9	-1.1130 µg/L	-1.1130 ppb	20:34:59
3	Ti 334.940†	152303.3	148180.2	395.23 µg/L	395.23 ppb	20:34:33
3	Tl 190.801†	-29.0	-2.6	3.8937 µg/L	3.8937 ppb	20:34:59
3	U 409.014†	-239.7	-384.0	-39.520 µg/L	-39.520 ppb	20:34:38
3	V 292.402†	527.1	664.7	8.8800 µg/L	8.8800 ppb	20:34:38
3	Zn 213.857†	3727.8	3046.4	81.130 µg/L	81.130 ppb	20:34:38

## Mean Data: 1202039811|951773|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1727462.1	102.66 %	0.275			0.27%
Sc RADIAL	108251.6	99.1 %	0.22			0.22%
Y 371.029	977536.9	104.42 %	0.035			0.03%
Ag 328.068†	-148.3	0.3949 µg/L	0.39238	0.3949 ppb	0.39238	99.36%
Al 396.153Radial†	18860.6	9026.4 µg/L	17.01	9026.4 ppb	17.01	0.19%
As 188.979†	-2.8	-4.4624 µg/L	5.77109	-4.4624 ppb	5.77109	129.33%
B 249.677†	158.2	1.7006 µg/L	0.82771	1.7006 ppb	0.82771	48.67%
Ba 233.527†	1592.2	41.050 µg/L	2.6344	41.050 ppb	2.6344	6.42%
Be 313.107†	7021.6	4.8733 µg/L	0.10893	4.8733 ppb	0.10893	2.24%
Ca 317.933Radial†	5896.1	1912.3 µg/L	1.84	1912.3 ppb	1.84	0.10%
Cd 226.502†	62.9	0.3931 µg/L	0.19085	0.3931 ppb	0.19085	48.55%
Co 228.616†	38.6	1.1645 µg/L	0.29564	1.1645 ppb	0.29564	25.39%
Cr 267.716†	280.8	7.2676 µg/L	0.54064	7.2676 ppb	0.54064	7.44%
Cu 324.752†	269.1	4.3439 µg/L	0.11821	4.3439 ppb	0.11821	2.72%
Fe 238.204 Radial†	1706.4	12844 µg/L	38.3	12844 ppb	38.3	0.30%
K 766.490 Radial†	1870.1	1061.3 µg/L	10.34	1061.3 ppb	10.34	0.97%
Mg 279.077 IEC†	143.0	1413.7 µg/L	22.07	1413.7 ppb	22.07	1.56%
Mn 257.610†	127289.1	464.83 µg/L	13.292	464.83 ppb	13.292	2.86%
Mo 202.031†	14.6	2.1581 µg/L	0.41417	2.1581 ppb	0.41417	19.19%
Na 589.592 Radial†	340.1	117.74 µg/L	11.061	117.74 ppb	11.061	9.39%

Ni 231.604†	58.7	4.2329 µg/L	0.32090	4.2329 ppb	0.32090	7.58%
P 214.914†	66.0	134.11 µg/L	13.321	134.11 ppb	13.321	9.93%
Pb 220.353†	20.2	6.3993 µg/L	2.59695	6.3993 ppb	2.59695	40.58%
S 181.975 Axial†	1.5	5.7115 µg/L	12.13949	5.7115 ppb	12.13949	212.55%
Sb 206.836†	-1.0	-1.1259 µg/L	3.33483	-1.1259 ppb	3.33483	296.20%
Se 196.026†	-7.5	31.959 µg/L	8.0757	31.959 ppb	8.0757	25.27%
SiO2†	29523.5	6442.8 µg/L	131.05	6442.8 ppb	131.05	2.03%
Si 251.611†	36777.5	3006.4 µg/L	64.81	3006.4 ppb	64.81	2.16%
Sn 189.927†	-3.8	-2.4430 µg/L	1.32187	-2.4430 ppb	1.32187	54.11%
Sr 421.552†	2506.2	11.350 µg/L	0.1328	11.350 ppb	0.1328	1.17%
Ti 334.940†	150368.8	401.07 µg/L	5.175	401.07 ppb	5.175	1.29%
Tl 190.801†	-6.3	-0.2608 µg/L	3.73012	-0.2608 ppb	3.73012	>999.9%
U 409.014†	-414.3	-42.492 µg/L	2.8354	-42.492 ppb	2.8354	6.67%
V 292.402†	708.2	9.4332 µg/L	0.47992	9.4332 ppb	0.47992	5.09%
Zn 213.857†	3147.5	83.843 µg/L	2.3516	83.843 ppb	2.3516	2.80%



Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 20:35:08

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	109359.2	109359.2	100 %		20:35:43
1	Al 396.153Radial†	10055.7	10216.0	4878.5 µg/L	4878.5 ppb	20:35:43
1	Ca 317.933Radial†	15864.7	15458.1	5013.4 µg/L	5013.4 ppb	20:35:43
1	Fe 238.204 Radial†	671.5	639.3	4822.9 µg/L	4822.9 ppb	20:36:03
1	K 766.490 Radial†	9216.2	8972.1	5091.8 µg/L	5091.8 ppb	20:35:43
1	Mg 279.077 IEC†	505.9	496.4	4960.4 µg/L	4960.4 ppb	20:36:03
1	Na 589.592 Radial†	26693.1	26419.2	9147.4 µg/L	9147.4 ppb	20:35:43
1	Sr 421.552†	106720.6	106410.8	481.93 µg/L	481.93 ppb	20:35:43
1	Sc 361.383	1716446.8	1716446.8	102.01 %		20:37:07
1	Y 371.029	947867.7	947867.7	101.25 %		20:37:07
1	Ag 328.068†	56239.4	55698.6	501.52 µg/L	501.52 ppb	20:37:12
1	As 188.979†	280.2	278.5	512.64 µg/L	512.64 ppb	20:37:33
1	B 249.677†	9750.4	9399.8	496.89 µg/L	496.89 ppb	20:37:12
1	Ba 233.527†	20164.9	19786.0	510.85 µg/L	510.85 ppb	20:37:12
1	Be 313.107†	723247.3	710960.9	508.71 µg/L	508.71 ppb	20:37:07
1	Cd 226.502†	17825.3	17618.7	515.71 µg/L	515.71 ppb	20:37:12
1	Co 228.616†	10159.4	9937.2	514.98 µg/L	514.98 ppb	20:37:12
1	Cr 267.716†	20330.4	19840.2	513.36 µg/L	513.36 ppb	20:37:12
1	Cu 324.752†	73503.7	69434.2	498.64 µg/L	498.64 ppb	20:37:12
1	Mn 257.610†	144121.3	141829.5	517.14 µg/L	517.14 ppb	20:37:07
1	Mo 202.031†	4669.2	4573.0	522.87 µg/L	522.87 ppb	20:37:33
1	Ni 231.604†	8146.4	7687.4	532.53 µg/L	532.53 ppb	20:37:12
1	P 214.914†	1484.1	1213.5	2567.5 µg/L	2567.5 ppb	20:37:33
1	Pb 220.353†	1738.8	1661.7	523.46 µg/L	523.46 ppb	20:37:33
1	S 181.975 Axial†	297.4	270.9	1028.0 µg/L	1028.0 ppb	20:37:33
1	Sb 206.836†	509.6	478.5	513.20 µg/L	513.20 ppb	20:37:33
1	Se 196.026†	449.8	427.6	537.41 µg/L	537.41 ppb	20:37:33
1	SiO2†	26829.5	24918.3	5437.8 µg/L	5437.8 ppb	20:37:12
1	Si 251.611†	32140.6	31144.1	2545.9 µg/L	2545.9 ppb	20:37:12
1	Sn 189.927†	1157.4	1130.1	531.48 µg/L	531.48 ppb	20:37:33
1	Ti 334.940†	193198.1	189404.5	504.98 µg/L	504.98 ppb	20:37:07
1	Tl 190.801†	425.3	442.5	520.05 µg/L	520.05 ppb	20:37:33
1	U 409.014†	5201.6	4948.4	483.80 µg/L	483.80 ppb	20:37:12
1	V 292.402†	40647.6	39999.7	512.80 µg/L	512.80 ppb	20:37:12
1	Zn 213.857†	20189.7	19212.1	512.44 µg/L	512.44 ppb	20:37:12
2	Sc RADIAL	108857.5	108857.5	99.7 %		20:36:09
2	Al 396.153Radial†	10068.8	10275.4	4907.0 µg/L	4907.0 ppb	20:36:09
2	Ca 317.933Radial†	15848.7	15515.1	5031.9 µg/L	5031.9 ppb	20:36:09
2	Fe 238.204 Radial†	674.3	645.2	4867.1 µg/L	4867.1 ppb	20:36:29
2	K 766.490 Radial†	9241.8	9040.2	5130.5 µg/L	5130.5 ppb	20:36:09
2	Mg 279.077 IEC†	506.6	499.4	4989.9 µg/L	4989.9 ppb	20:36:29
2	Na 589.592 Radial†	26808.2	26657.4	9229.9 µg/L	9229.9 ppb	20:36:09
2	Sr 421.552†	107147.1	107329.9	486.09 µg/L	486.09 ppb	20:36:09
2	Sc 361.383	1718369.8	1718369.8	102.12 %		20:37:40
2	Y 371.029	952076.7	952076.7	101.70 %		20:37:40
2	Ag 328.068†	56178.6	55577.4	500.43 µg/L	500.43 ppb	20:37:46
2	As 188.979†	281.2	279.2	513.86 µg/L	513.86 ppb	20:38:06
2	B 249.677†	9784.1	9422.2	498.05 µg/L	498.05 ppb	20:37:46
2	Ba 233.527†	20151.6	19750.8	509.94 µg/L	509.94 ppb	20:37:46
2	Be 313.107†	723834.4	710742.4	508.56 µg/L	508.56 ppb	20:37:40
2	Cd 226.502†	17770.1	17545.1	513.54 µg/L	513.54 ppb	20:37:46
2	Co 228.616†	10141.5	9908.6	513.50 µg/L	513.50 ppb	20:37:46
2	Cr 267.716†	20301.8	19789.8	512.06 µg/L	512.06 ppb	20:37:46
2	Cu 324.752†	73630.5	69477.7	498.96 µg/L	498.96 ppb	20:37:46
2	Mn 257.610†	144590.5	142130.8	518.24 µg/L	518.24 ppb	20:37:40
2	Mo 202.031†	4661.9	4560.7	521.47 µg/L	521.47 ppb	20:38:06
2	Ni 231.604†	8111.1	7643.9	529.51 µg/L	529.51 ppb	20:37:46
2	P 214.914†	1485.3	1212.9	2566.3 µg/L	2566.3 ppb	20:38:06
2	Pb 220.353†	1730.3	1651.5	520.23 µg/L	520.23 ppb	20:38:06

2	S 181.975 Axial†	297.0	270.1	1025.2 µg/L	1025.2 ppb	20:38:06
2	Sb 206.836†	501.7	470.3	504.37 µg/L	504.37 ppb	20:38:06
2	Se 196.026†	439.3	416.8	524.33 µg/L	524.33 ppb	20:38:06
2	SiO2†	26885.6	24943.9	5443.4 µg/L	5443.4 ppb	20:37:46
2	Si 251.611†	32297.3	31262.3	2555.6 µg/L	2555.6 ppb	20:37:46
2	Sn 189.927†	1154.9	1126.4	529.73 µg/L	529.73 ppb	20:38:06
2	Ti 334.940†	193199.3	189193.7	504.41 µg/L	504.41 ppb	20:37:40
2	Tl 190.801†	421.5	438.3	515.17 µg/L	515.17 ppb	20:38:06
2	U 409.014†	5229.4	4969.9	485.90 µg/L	485.90 ppb	20:37:46
2	V 292.402†	40544.9	39854.5	510.95 µg/L	510.95 ppb	20:37:46
2	Zn 213.857†	20183.4	19183.8	511.69 µg/L	511.69 ppb	20:37:46
3	Sc RADIAL	109864.0	109864.0	101 %		20:36:34
3	Al 396.153Radial†	10148.0	10261.6	4901.6 µg/L	4901.6 ppb	20:36:34
3	Ca 317.933Radial†	15970.3	15490.3	5023.9 µg/L	5023.9 ppb	20:36:34
3	Fe 238.204 Radial†	673.3	637.9	4812.1 µg/L	4812.1 ppb	20:36:55
3	K 766.490 Radial†	9254.1	8967.4	5089.2 µg/L	5089.2 ppb	20:36:34
3	Mg 279.077 IEC†	515.5	503.6	5031.3 µg/L	5031.3 ppb	20:36:55
3	Na 589.592 Radial†	26974.1	26575.9	9201.7 µg/L	9201.7 ppb	20:36:34
3	Sr 421.552†	107601.4	106796.7	483.68 µg/L	483.68 ppb	20:36:34
3	Sc 361.383	1691794.7	1691794.7	100.54 %		20:38:13
3	Y 371.029	936746.0	936746.0	100.07 %		20:38:13
3	Ag 328.068†	54287.6	54560.7	491.17 µg/L	491.17 ppb	20:38:19
3	As 188.979†	245.4	248.0	456.43 µg/L	456.43 ppb	20:38:39
3	B 249.677†	9426.1	9216.7	487.12 µg/L	487.12 ppb	20:38:19
3	Ba 233.527†	19187.4	19101.8	493.17 µg/L	493.17 ppb	20:38:19
3	Be 313.107†	689205.3	687434.0	491.88 µg/L	491.88 ppb	20:38:13
3	Cd 226.502†	16864.6	16917.8	495.17 µg/L	495.17 ppb	20:38:19
3	Co 228.616†	9568.4	9494.6	492.00 µg/L	492.00 ppb	20:38:19
3	Cr 267.716†	18729.1	18537.9	479.67 µg/L	479.67 ppb	20:38:19
3	Cu 324.752†	69470.3	66472.5	477.41 µg/L	477.41 ppb	20:38:19
3	Mn 257.610†	137891.6	137692.1	502.05 µg/L	502.05 ppb	20:38:13
3	Mo 202.031†	4061.9	4035.6	461.45 µg/L	461.45 ppb	20:38:39
3	Ni 231.604†	7674.3	7334.2	508.06 µg/L	508.06 ppb	20:38:19
3	P 214.914†	1346.3	1097.5	2318.9 µg/L	2318.9 ppb	20:38:39
3	Pb 220.353†	1563.0	1511.7	476.12 µg/L	476.12 ppb	20:38:39
3	S 181.975 Axial†	272.2	250.1	949.18 µg/L	949.18 ppb	20:38:39
3	Sb 206.836†	457.3	433.8	464.87 µg/L	464.87 ppb	20:38:39
3	Se 196.026†	405.9	390.4	491.68 µg/L	491.68 ppb	20:38:39
3	SiO2†	25938.4	24415.4	5328.1 µg/L	5328.1 ppb	20:38:19
3	Si 251.611†	31031.7	30500.4	2493.3 µg/L	2493.3 ppb	20:38:19
3	Sn 189.927†	986.3	976.4	459.26 µg/L	459.26 ppb	20:38:39
3	Ti 334.940†	183777.7	182794.7	487.34 µg/L	487.34 ppb	20:38:13
3	Tl 190.801†	389.4	412.9	485.49 µg/L	485.49 ppb	20:38:39
3	U 409.014†	4919.3	4741.9	463.57 µg/L	463.57 ppb	20:38:19
3	V 292.402†	37922.0	37869.5	485.24 µg/L	485.24 ppb	20:38:19
3	Zn 213.857†	19145.0	18461.5	492.42 µg/L	492.42 ppb	20:38:19

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1708870.4	101.56 %	0.881			0.87%
Sc RADIAL	109360.2	100 %	0.5			0.46%
Y 371.029	945563.5	101.01 %	0.846			0.84%
Ag 328.068†	55278.9	497.71 µg/L	5.684	497.71 ppb	5.684	1.14%
QC value within limits for Ag 328.068 Recovery = 99.54%						
Al 396.153Radial†	10251.0	4895.7 µg/L	15.13	4895.7 ppb	15.13	0.31%
QC value within limits for Al 396.153Radial Recovery = 97.91%						
As 188.979†	268.6	494.31 µg/L	32.812	494.31 ppb	32.812	6.64%
QC value within limits for As 188.979 Recovery = 98.86%						
B 249.677†	9346.2	494.02 µg/L	6.000	494.02 ppb	6.000	1.21%
QC value within limits for B 249.677 Recovery = 98.80%						
Ba 233.527†	19546.2	504.65 µg/L	9.956	504.65 ppb	9.956	1.97%
QC value within limits for Ba 233.527 Recovery = 100.93%						
Be 313.107†	703045.8	503.05 µg/L	9.674	503.05 ppb	9.674	1.92%
QC value within limits for Be 313.107 Recovery = 100.61%						
Ca 317.933Radial†	15487.8	5023.1 µg/L	9.27	5023.1 ppb	9.27	0.18%
QC value within limits for Ca 317.933Radial Recovery = 100.46%						
Cd 226.502†	17360.6	508.14 µg/L	11.286	508.14 ppb	11.286	2.22%
QC value within limits for Cd 226.502 Recovery = 101.63%						
Co 228.616†	9780.1	506.82 µg/L	12.862	506.82 ppb	12.862	2.54%

QC value within limits for Co 228.616	Recovery = 101.36%			
Cr 267.716†	19389.3	501.70 µg/L	19.087	501.70 ppb 19.087 3.80%
QC value within limits for Cr 267.716	Recovery = 100.34%			
Cu 324.752†	68461.5	491.67 µg/L	12.352	491.67 ppb 12.352 2.51%
QC value within limits for Cu 324.752	Recovery = 98.33%			
Fe 238.204 Radial†	640.8	4834.1 µg/L	29.14	4834.1 ppb 29.14 0.60%
QC value within limits for Fe 238.204 Radial	Recovery = 96.68%			
K 766.490 Radial†	8993.2	5103.8 µg/L	23.11	5103.8 ppb 23.11 0.45%
QC value within limits for K 766.490 Radial	Recovery = 102.08%			
Mg 279.077 IEC†	499.8	4993.9 µg/L	35.59	4993.9 ppb 35.59 0.71%
QC value within limits for Mg 279.077 IEC	Recovery = 99.88%			
Mn 257.610†	140550.8	512.48 µg/L	9.048	512.48 ppb 9.048 1.77%
QC value within limits for Mn 257.610	Recovery = 102.50%			
Mo 202.031†	4389.8	501.93 µg/L	35.064	501.93 ppb 35.064 6.99%
QC value within limits for Mo 202.031	Recovery = 100.39%			
Na 589.592 Radial†	26550.8	9193.0 µg/L	41.92	9193.0 ppb 41.92 0.46%
QC value within limits for Na 589.592 Radial	Recovery = 91.93%			
Ni 231.604†	7555.2	523.37 µg/L	13.340	523.37 ppb 13.340 2.55%
QC value within limits for Ni 231.604	Recovery = 104.67%			
P 214.914†	1174.6	2484.2 µg/L	143.17	2484.2 ppb 143.17 5.76%
QC value within limits for P 214.914	Recovery = 99.37%			
Pb 220.353†	1608.3	506.60 µg/L	26.452	506.60 ppb 26.452 5.22%
QC value within limits for Pb 220.353	Recovery = 101.32%			
S 181.975 Axial†	263.7	1000.8 µg/L	44.73	1000.8 ppb 44.73 4.47%
QC value within limits for S 181.975 Axial	Recovery = 100.08%			
Sb 206.836†	460.9	494.15 µg/L	25.733	494.15 ppb 25.733 5.21%
QC value within limits for Sb 206.836	Recovery = 98.83%			
Se 196.026†	411.6	517.81 µg/L	23.552	517.81 ppb 23.552 4.55%
QC value within limits for Se 196.026	Recovery = 103.56%			
SiO2†	24759.2	5403.1 µg/L	65.04	5403.1 ppb 65.04 1.20%
QC value within limits for SiO2	Recovery = 101.04%			
Si 251.611†	30968.9	2531.6 µg/L	33.52	2531.6 ppb 33.52 1.32%
QC value within limits for Si 251.611	Recovery = 101.26%			
Sn 189.927†	1077.6	506.83 µg/L	41.200	506.83 ppb 41.200 8.13%
QC value within limits for Sn 189.927	Recovery = 101.37%			
Sr 421.552†	106845.8	483.90 µg/L	2.090	483.90 ppb 2.090 0.43%
QC value within limits for Sr 421.552	Recovery = 96.78%			
Ti 334.940†	187130.9	498.91 µg/L	10.025	498.91 ppb 10.025 2.01%
QC value within limits for Ti 334.940	Recovery = 99.78%			
Tl 190.801†	431.2	506.90 µg/L	18.705	506.90 ppb 18.705 3.69%
QC value within limits for Tl 190.801	Recovery = 101.38%			
U 409.014†	4886.7	477.76 µg/L	12.329	477.76 ppb 12.329 2.58%
QC value within limits for U 409.014	Recovery = 95.55%			
V 292.402†	39241.2	503.00 µg/L	15.411	503.00 ppb 15.411 3.06%
QC value within limits for V 292.402	Recovery = 100.60%			
Zn 213.857†	18952.5	505.52 µg/L	11.352	505.52 ppb 11.352 2.25%
QC value within limits for Zn 213.857	Recovery = 101.10%			

All analyte(s) passed QC.

Sequence No.: 46

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 20:38:49

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	106507.9	106507.9	97.5 %		20:39:22
1	Al 396.153Radial†	-143.8	27.5	13.136 µg/L	13.136 ppb	20:39:22
1	Ca 317.933Radial†	395.4	21.9	7.0870 µg/L	7.0870 ppb	20:39:42
1	Fe 238.204 Radial†	29.0	-1.5	-11.397 µg/L	-11.397 ppb	20:39:42
1	K 766.490 Radial†	247.1	22.6	12.836 µg/L	12.836 ppb	20:39:22
1	Mg 279.077 IEC†	10.6	2.1	21.133 µg/L	21.133 ppb	20:39:42
1	Na 589.592 Radial†	245.0	15.9	5.5139 µg/L	5.5139 ppb	20:39:22
1	Sr 421.552†	186.5	36.2	0.1641 µg/L	0.1641 ppb	20:39:22
1	Sc 361.383	1696152.6	1696152.6	100.80 %		20:40:44
1	Y 371.029	944236.5	944236.5	100.87 %		20:40:44
1	Ag 328.068†	-456.0	113.5	1.0127 µg/L	1.0127 ppb	20:40:50
1	As 188.979†	-2.5	1.4	2.5118 µg/L	2.5118 ppb	20:41:10
1	B 249.677†	182.3	22.2	1.1838 µg/L	1.1838 ppb	20:41:10
1	Ba 233.527†	-13.6	4.4	0.1136 µg/L	0.1136 ppb	20:41:10
1	Be 313.107†	-2005.3	-43.5	-0.0313 µg/L	-0.0313 ppb	20:40:50
1	Cd 226.502†	-141.1	4.2	0.1246 µg/L	0.1246 ppb	20:41:10
1	Co 228.616†	21.6	-0.8	-0.0414 µg/L	-0.0414 ppb	20:41:10
1	Cr 267.716†	73.3	-17.5	-0.4521 µg/L	-0.4521 ppb	20:40:50
1	Cu 324.752†	2649.4	5.2	0.0355 µg/L	0.0355 ppb	20:40:50
1	Mn 257.610†	-551.4	-2.7	-0.0121 µg/L	-0.0121 ppb	20:41:10
1	Mo 202.031†	12.7	8.2	0.9412 µg/L	0.9412 ppb	20:41:10
1	Ni 231.604†	301.8	0.8	0.0532 µg/L	0.0532 ppb	20:41:10
1	P 214.914†	246.7	3.3	7.1150 µg/L	7.1150 ppb	20:41:10
1	Pb 220.353†	40.3	-2.9	-0.8982 µg/L	-0.8982 ppb	20:41:10
1	S 181.975 Axial†	20.6	-0.2	-0.8730 µg/L	-0.8730 ppb	20:41:10
1	Sb 206.836†	26.1	4.9	5.2415 µg/L	5.2415 ppb	20:41:10
1	Se 196.026†	15.8	2.4	2.8624 µg/L	2.8624 ppb	20:41:10
1	SiO2†	1497.7	102.7	22.404 µg/L	22.404 ppb	20:40:50
1	Si 251.611†	479.8	112.0	9.1580 µg/L	9.1580 ppb	20:41:10
1	Sn 189.927†	4.3	-0.2	-0.1127 µg/L	-0.1127 ppb	20:41:10
1	Ti 334.940†	96.8	104.2	0.2763 µg/L	0.2763 ppb	20:40:50
1	Tl 190.801†	-25.1	0.7	0.8282 µg/L	0.8282 ppb	20:41:10
1	U 409.014†	147.3	-4.7	-0.4607 µg/L	-0.4607 ppb	20:40:50
1	V 292.402†	-150.8	2.3	0.0343 µg/L	0.0343 ppb	20:40:50
1	Zn 213.857†	597.8	12.8	0.3431 µg/L	0.3431 ppb	20:41:10
2	Sc RADIAL	106248.0	106248.0	97.3 %		20:39:48
2	Al 396.153Radial†	-143.0	28.0	13.361 µg/L	13.361 ppb	20:39:48
2	Ca 317.933Radial†	381.2	8.2	2.6741 µg/L	2.6741 ppb	20:40:08
2	Fe 238.204 Radial†	29.0	-1.5	-11.480 µg/L	-11.480 ppb	20:40:08
2	K 766.490 Radial†	207.3	-17.7	-10.032 µg/L	-10.032 ppb	20:39:48
2	Mg 279.077 IEC†	11.1	2.6	25.849 µg/L	25.849 ppb	20:40:08
2	Na 589.592 Radial†	188.6	-41.4	-14.334 µg/L	-14.334 ppb	20:39:48
2	Sr 421.552†	150.9	0.1	0.0006 µg/L	0.0006 ppb	20:39:48
2	Sc 361.383	1690419.5	1690419.5	100.46 %		20:41:16
2	Y 371.029	940300.2	940300.2	100.45 %		20:41:16
2	Ag 328.068†	-552.1	16.3	0.1430 µg/L	0.1430 ppb	20:41:21
2	As 188.979†	-6.1	-2.2	-4.1298 µg/L	-4.1298 ppb	20:41:42
2	B 249.677†	184.8	25.3	1.3446 µg/L	1.3446 ppb	20:41:42
2	Ba 233.527†	-13.9	4.1	0.1049 µg/L	0.1049 ppb	20:41:42
2	Be 313.107†	-2023.3	-68.2	-0.0489 µg/L	-0.0489 ppb	20:41:21
2	Cd 226.502†	-140.7	4.2	0.1239 µg/L	0.1239 ppb	20:41:42
2	Co 228.616†	16.9	-5.4	-0.2819 µg/L	-0.2819 ppb	20:41:42
2	Cr 267.716†	50.8	-39.6	-1.0235 µg/L	-1.0235 ppb	20:41:21
2	Cu 324.752†	2668.5	33.2	0.2362 µg/L	0.2362 ppb	20:41:21
2	Mn 257.610†	-536.9	9.8	0.0334 µg/L	0.0334 ppb	20:41:42
2	Mo 202.031†	14.9	10.5	1.1947 µg/L	1.1947 ppb	20:41:42
2	Ni 231.604†	301.9	1.9	0.1318 µg/L	0.1318 ppb	20:41:42
2	P 214.914†	242.9	0.3	0.7079 µg/L	0.7079 ppb	20:41:42
2	Pb 220.353†	37.0	-6.0	-1.8867 µg/L	-1.8867 ppb	20:41:42

2	S 181.975 Axial†	22.2	1.4	5.2871 µg/L	5.2871 ppb	20:41:42
2	Sb 206.836†	23.5	2.3	2.5119 µg/L	2.5119 ppb	20:41:42
2	Se 196.026†	13.0	-0.3	-0.4743 µg/L	-0.4743 ppb	20:41:42
2	SiO2†	1519.5	129.4	28.236 µg/L	28.236 ppb	20:41:21
2	Si 251.611†	509.9	143.6	11.738 µg/L	11.738 ppb	20:41:42
2	Sn 189.927†	3.6	-1.0	-0.4432 µg/L	-0.4432 ppb	20:41:42
2	Ti 334.940†	94.8	102.5	0.2714 µg/L	0.2714 ppb	20:41:21
2	Tl 190.801†	-21.7	3.9	4.5959 µg/L	4.5959 ppb	20:41:42
2	U 409.014†	203.3	51.6	5.0528 µg/L	5.0528 ppb	20:41:21
2	V 292.402†	-168.0	-15.3	-0.1820 µg/L	-0.1820 ppb	20:41:21
2	Zn 213.857†	589.3	6.3	0.1677 µg/L	0.1677 ppb	20:41:42
3	Sc RADIAL	106094.5	106094.5	97.2 %		20:40:14
3	Al 396.153Radial†	-133.1	37.9	18.121 µg/L	18.121 ppb	20:40:14
3	Ca 317.933Radial†	375.2	2.6	0.8495 µg/L	0.8495 ppb	20:40:34
3	Fe 238.204 Radial†	27.3	-3.2	-24.154 µg/L	-24.154 ppb	20:40:34
3	K 766.490 Radial†	229.7	5.7	3.2223 µg/L	3.2223 ppb	20:40:14
3	Mg 279.077 IEC†	8.9	0.4	3.8419 µg/L	3.8419 ppb	20:40:34
3	Na 589.592 Radial†	220.5	-8.3	-2.8739 µg/L	-2.8739 ppb	20:40:14
3	Sr 421.552†	156.9	6.5	0.0296 µg/L	0.0296 ppb	20:40:14
3	Sc 361.383	1694628.5	1694628.5	100.71 %		20:41:48
3	Y 371.029	945361.0	945361.0	100.99 %		20:41:48
3	Ag 328.068†	-524.6	45.0	0.4003 µg/L	0.4003 ppb	20:41:54
3	As 188.979†	-8.2	-4.3	-7.9035 µg/L	-7.9035 ppb	20:42:14
3	B 249.677†	178.0	18.1	0.9736 µg/L	0.9736 ppb	20:42:14
3	Ba 233.527†	-19.8	-1.8	-0.0454 µg/L	-0.0454 ppb	20:42:14
3	Be 313.107†	-1952.1	7.5	0.0053 µg/L	0.0053 ppb	20:41:54
3	Cd 226.502†	-142.9	2.3	0.0700 µg/L	0.0700 ppb	20:42:14
3	Co 228.616†	22.6	0.2	0.0121 µg/L	0.0121 ppb	20:42:14
3	Cr 267.716†	58.9	-31.7	-0.8192 µg/L	-0.8192 ppb	20:41:54
3	Cu 324.752†	2691.3	49.3	0.3487 µg/L	0.3487 ppb	20:41:54
3	Mn 257.610†	-530.0	18.0	0.0639 µg/L	0.0639 ppb	20:42:14
3	Mo 202.031†	13.4	9.0	1.0266 µg/L	1.0266 ppb	20:42:14
3	Ni 231.604†	297.6	-3.2	-0.2194 µg/L	-0.2194 ppb	20:42:14
3	P 214.914†	248.9	5.7	12.269 µg/L	12.269 ppb	20:42:14
3	Pb 220.353†	32.5	-10.5	-3.3215 µg/L	-3.3215 ppb	20:42:14
3	S 181.975 Axial†	22.6	1.8	6.6764 µg/L	6.6764 ppb	20:42:14
3	Sb 206.836†	22.8	1.6	1.7170 µg/L	1.7170 ppb	20:42:14
3	Se 196.026†	21.3	7.9	9.5877 µg/L	9.5877 ppb	20:42:14
3	SiO2†	1537.7	143.6	31.344 µg/L	31.344 ppb	20:41:54
3	Si 251.611†	549.4	181.6	14.842 µg/L	14.842 ppb	20:42:14
3	Sn 189.927†	10.3	5.6	2.6565 µg/L	2.6565 ppb	20:42:14
3	Ti 334.940†	58.0	65.8	0.1752 µg/L	0.1752 ppb	20:41:54
3	Tl 190.801†	-31.4	-5.6	-6.5150 µg/L	-6.5150 ppb	20:42:14
3	U 409.014†	195.6	43.4	4.2503 µg/L	4.2503 ppb	20:41:54
3	V 292.402†	-139.8	13.1	0.1757 µg/L	0.1757 ppb	20:41:54
3	Zn 213.857†	590.7	6.3	0.1700 µg/L	0.1700 ppb	20:42:14

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1693733.5	100.66 %	0.176			0.18%
Sc RADIAL	106283.5	97.3 %	0.19			0.20%
Y 371.029	943299.2	100.77 %	0.284			0.28%
Ag 328.068†	58.3	0.5187 µg/L	0.44676	0.5187 ppb	0.44676	86.13%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	31.1	14.873 µg/L	2.8152	14.873 ppb	2.8152	18.93%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.7	-3.1738 µg/L	5.27304	-3.1738 ppb	5.27304	166.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	21.9	1.1673 µg/L	0.18602	1.1673 ppb	0.18602	15.94%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.2	0.0577 µg/L	0.08937	0.0577 ppb	0.08937	154.88%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-34.7	-0.0250 µg/L	0.02765	-0.0250 ppb	0.02765	110.79%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	10.9	3.5369 µg/L	3.20703	3.5369 ppb	3.20703	90.67%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.6	0.1062 µg/L	0.03130	0.1062 ppb	0.03130	29.48%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-2.0	-0.1037 µg/L	0.15658	-0.1037 ppb	0.15658	150.97%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-29.6	-0.7649 µg/L	0.28956	-0.7649 ppb	0.28956	37.86%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	29.3	0.2068 µg/L	0.15868	0.2068 ppb	0.15868	76.73%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.1	-15.677 µg/L	7.3415	-15.677 ppb	7.3415	46.83%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	3.5	2.0088 µg/L	11.48265	2.0088 ppb	11.48265	571.62%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.7	16.941 µg/L	11.5869	16.941 ppb	11.5869	68.39%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	8.4	0.0284 µg/L	0.03825	0.0284 ppb	0.03825	134.51%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.2	1.0542 µg/L	0.12899	1.0542 ppb	0.12899	12.24%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-11.3	-3.8980 µg/L	9.96359	-3.8980 ppb	9.96359	255.61%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.2	-0.0114 µg/L	0.18432	-0.0114 ppb	0.18432	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	3.1	6.6975 µg/L	5.79205	6.6975 ppb	5.79205	86.48%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-6.5	-2.0355 µg/L	1.21847	-2.0355 ppb	1.21847	59.86%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.0	3.6968 µg/L	4.01812	3.6968 ppb	4.01812	108.69%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.9	3.1568 µg/L	1.84865	3.1568 ppb	1.84865	58.56%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.3	3.9919 µg/L	5.12520	3.9919 ppb	5.12520	128.39%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	125.2	27.328 µg/L	4.5389	27.328 ppb	4.5389	16.61%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	145.7	11.913 µg/L	2.8462	11.913 ppb	2.8462	23.89%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.5	0.7002 µg/L	1.70224	0.7002 ppb	1.70224	243.11%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	14.3	0.0648 µg/L	0.08723	0.0648 ppb	0.08723	134.64%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	90.8	0.2410 µg/L	0.05701	0.2410 ppb	0.05701	23.66%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.3	-0.3636 µg/L	5.65053	-0.3636 ppb	5.65053	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	30.1	2.9475 µg/L	2.97866	2.9475 ppb	2.97866	101.06%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	0.0	0.0094 µg/L	0.18015	0.0094 ppb	0.18015	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	8.5	0.2269 µg/L	0.10059	0.2269 ppb	0.10059	44.33%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 47

Sample ID: 246679002|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 337

Date Collected: 2/26/2010 20:42:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679002|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106186.1	106186.1	97.2 %		20:42:58
1	Al 396.153Radial†	22257.7	23064.5	11038 µg/L	11038 ppb	20:42:58
1	Ca 317.933Radial†	9549.2	9436.8	3060.6 µg/L	3060.6 ppb	20:42:58
1	Fe 238.204 Radial†	8270.4	8473.9	63785 µg/L	63785 ppb	20:42:58
1	K 766.490 Radial†	5411.8	5334.7	3027.5 µg/L	3027.5 ppb	20:42:58
1	Mg 279.077 IEC†	188.7	185.2	1781.5 µg/L	1781.5 ppb	20:43:19
1	Na 589.592 Radial†	4955.5	4860.9	1683.0 µg/L	1683.0 ppb	20:42:58
1	Sr 421.552†	4145.4	4108.1	18.605 µg/L	18.605 ppb	20:42:58
1	Sc 361.383	1668524.9	1668524.9	99.159 %		20:44:23
1	Y 371.029	1010358.4	1010358.4	107.93 %		20:44:23
1	Ag 328.068†	-787.7	-228.5	6.3895 µg/L	6.3895 ppb	20:44:28
1	As 188.979†	-5.4	-1.6	0.6157 µg/L	0.6157 ppb	20:44:49
1	B 249.677†	676.4	523.4	-5.3217 µg/L	-5.3217 ppb	20:44:28
1	Ba 233.527†	6035.0	6104.1	157.37 µg/L	157.37 ppb	20:44:28
1	Be 313.107†	20179.6	22296.5	14.893 µg/L	14.893 ppb	20:44:28
1	Cd 226.502†	180.6	326.4	2.3573 µg/L	2.3573 ppb	20:44:49
1	Co 228.616†	404.2	385.4	14.168 µg/L	14.168 ppb	20:44:49
1	Cr 267.716†	4806.7	4757.2	123.03 µg/L	123.03 ppb	20:44:28
1	Cu 324.752†	8609.5	6059.4	55.428 µg/L	55.428 ppb	20:44:28
1	Mn 257.610†	1039493.2	1048850.0	3828.3 µg/L	3828.3 ppb	20:44:23
1	Mo 202.031†	163.5	160.5	20.773 µg/L	20.773 ppb	20:44:49
1	Ni 231.604†	450.0	155.1	11.562 µg/L	11.562 ppb	20:44:49
1	P 214.914†	457.4	219.8	420.39 µg/L	420.39 ppb	20:44:49
1	Pb 220.353†	207.7	166.6	50.920 µg/L	50.920 ppb	20:44:49
1	S 181.975 Axial†	21.5	1.0	3.6325 µg/L	3.6325 ppb	20:44:49
1	Sb 206.836†	12.0	-8.9	-10.652 µg/L	-10.652 ppb	20:44:49
1	Se 196.026†	-35.8	-49.5	147.76 µg/L	147.76 ppb	20:44:49
1	SiO2†	74936.1	74188.2	16190 µg/L	16190 ppb	20:44:28
1	Si 251.611†	91991.1	92406.9	7553.9 µg/L	7553.9 ppb	20:44:28
1	Sn 189.927†	-12.3	-17.0	-12.098 µg/L	-12.098 ppb	20:44:49
1	Ti 334.940†	1040811.2	1049643.1	2800.1 µg/L	2800.1 ppb	20:44:23
1	Tl 190.801†	-56.9	-31.7	11.401 µg/L	11.401 ppb	20:44:49
1	U 409.014†	-2630.8	-2803.9	-283.74 µg/L	-283.74 ppb	20:44:23
1	V 292.402†	2019.9	2188.9	30.220 µg/L	30.220 ppb	20:44:28
1	Zn 213.857†	18747.6	18326.3	489.06 µg/L	489.06 ppb	20:44:28
2	Sc RADIAL	105296.2	105296.2	96.4 %		20:43:24
2	Al 396.153Radial†	22390.2	23395.3	11196 µg/L	11196 ppb	20:43:24
2	Ca 317.933Radial†	9613.7	9586.7	3109.2 µg/L	3109.2 ppb	20:43:24
2	Fe 238.204 Radial†	8334.0	8611.7	64822 µg/L	64822 ppb	20:43:24
2	K 766.490 Radial†	5385.4	5354.3	3038.7 µg/L	3038.7 ppb	20:43:24
2	Mg 279.077 IEC†	182.7	180.7	1734.9 µg/L	1734.9 ppb	20:43:44
2	Na 589.592 Radial†	5039.8	4991.4	1728.2 µg/L	1728.2 ppb	20:43:24
2	Sr 421.552†	4177.8	4177.7	18.921 µg/L	18.921 ppb	20:43:24
2	Sc 361.383	1689518.6	1689518.6	100.41 %		20:44:56
2	Y 371.029	1024332.1	1024332.1	109.42 %		20:44:56
2	Ag 328.068†	-745.1	-176.2	6.9851 µg/L	6.9851 ppb	20:45:02
2	As 188.979†	-5.6	-1.8	0.3283 µg/L	0.3283 ppb	20:45:22
2	B 249.677†	722.1	560.5	-3.9001 µg/L	-3.9001 ppb	20:45:02
2	Ba 233.527†	5900.7	5894.7	151.97 µg/L	151.97 ppb	20:45:02
2	Be 313.107†	19816.4	21681.9	14.469 µg/L	14.469 ppb	20:45:02
2	Cd 226.502†	176.7	320.2	2.0566 µg/L	2.0566 ppb	20:45:22
2	Co 228.616†	383.2	359.4	12.909 µg/L	12.909 ppb	20:45:22
2	Cr 267.716†	4746.8	4637.4	119.93 µg/L	119.93 ppb	20:45:02
2	Cu 324.752†	8504.6	5847.0	54.101 µg/L	54.101 ppb	20:45:02
2	Mn 257.610†	1038161.1	1034497.1	3776.1 µg/L	3776.1 ppb	20:44:56
2	Mo 202.031†	155.0	150.0	19.606 µg/L	19.606 ppb	20:45:22
2	Ni 231.604†	442.0	141.5	10.634 µg/L	10.634 ppb	20:45:22
2	P 214.914†	462.6	219.2	418.40 µg/L	418.40 ppb	20:45:22
2	Pb 220.353†	223.9	180.2	55.143 µg/L	55.143 ppb	20:45:22

2	S 181.975 Axial†	21.6	0.8	3.1089 µg/L	3.1089 ppb	20:45:22
2	Sb 206.836†	15.8	-5.3	-6.7933 µg/L	-6.7933 ppb	20:45:22
2	Se 196.026†	-27.1	-40.3	162.41 µg/L	162.41 ppb	20:45:22
2	SiO2†	73858.1	72175.5	15751 µg/L	15751 ppb	20:45:02
2	Si 251.611†	90515.5	89784.6	7339.6 µg/L	7339.6 ppb	20:45:02
2	Sn 189.927†	-7.0	-11.5	-9.6165 µg/L	-9.6165 ppb	20:45:22
2	Ti 334.940†	1037929.9	1033730.8	2757.7 µg/L	2757.7 ppb	20:44:56
2	Tl 190.801†	-63.6	-37.8	3.9537 µg/L	3.9537 ppb	20:45:22
2	U 409.014†	-2591.9	-2732.2	-276.87 µg/L	-276.87 ppb	20:44:56
2	V 292.402†	1979.9	2123.8	29.424 µg/L	29.424 ppb	20:45:02
2	Zn 213.857†	18414.8	17759.8	473.80 µg/L	473.80 ppb	20:45:02
3	Sc RADIAL	105188.2	105188.2	96.3 %		20:43:50
3	Al 396.153Radial†	22261.5	23285.5	11144 µg/L	11144 ppb	20:43:50
3	Ca 317.933Radial†	9513.9	9493.2	3078.9 µg/L	3078.9 ppb	20:43:50
3	Fe 238.204 Radial†	8266.9	8551.0	64365 µg/L	64365 ppb	20:43:50
3	K 766.490 Radial†	5351.3	5324.7	3021.9 µg/L	3021.9 ppb	20:43:50
3	Mg 279.077 IEC†	182.6	180.8	1736.2 µg/L	1736.2 ppb	20:44:10
3	Na 589.592 Radial†	4988.1	4943.1	1711.5 µg/L	1711.5 ppb	20:43:50
3	Sr 421.552†	4167.9	4171.9	18.894 µg/L	18.894 ppb	20:43:50
3	Sc 361.383	1697107.2	1697107.2	100.86 %		20:45:30
3	Y 371.029	1024781.8	1024781.8	109.47 %		20:45:30
3	Ag 328.068†	-723.2	-151.1	7.1410 µg/L	7.1410 ppb	20:45:35
3	As 188.979†	-4.0	-0.1	3.4098 µg/L	3.4098 ppb	20:45:56
3	B 249.677†	695.8	531.2	-5.2243 µg/L	-5.2243 ppb	20:45:35
3	Ba 233.527†	5728.2	5697.4	146.88 µg/L	146.88 ppb	20:45:35
3	Be 313.107†	19037.4	20821.3	13.878 µg/L	13.878 ppb	20:45:35
3	Cd 226.502†	148.1	291.1	1.2569 µg/L	1.2569 ppb	20:45:56
3	Co 228.616†	367.3	341.9	12.133 µg/L	12.133 ppb	20:45:56
3	Cr 267.716†	4579.6	4450.4	115.10 µg/L	115.10 ppb	20:45:35
3	Cu 324.752†	8385.2	5690.9	52.895 µg/L	52.895 ppb	20:45:35
3	Mn 257.610†	1020125.7	1011992.0	3694.0 µg/L	3694.0 ppb	20:45:30
3	Mo 202.031†	146.8	141.2	18.580 µg/L	18.580 ppb	20:45:56
3	Ni 231.604†	443.9	141.5	10.626 µg/L	10.626 ppb	20:45:56
3	P 214.914†	435.7	190.5	357.01 µg/L	357.01 ppb	20:45:56
3	Pb 220.353†	199.2	154.6	47.101 µg/L	47.101 ppb	20:45:56
3	S 181.975 Axial†	21.9	1.0	3.8873 µg/L	3.8873 ppb	20:45:56
3	Sb 206.836†	15.8	-5.4	-6.8382 µg/L	-6.8382 ppb	20:45:56
3	Se 196.026†	-29.3	-42.3	158.46 µg/L	158.46 ppb	20:45:56
3	SiO2†	71945.2	69950.0	15265 µg/L	15265 ppb	20:45:35
3	Si 251.611†	88243.8	87129.1	7122.5 µg/L	7122.5 ppb	20:45:35
3	Sn 189.927†	-5.8	-10.3	-8.9988 µg/L	-8.9988 ppb	20:45:56
3	Ti 334.940†	1018180.8	1009527.5	2693.1 µg/L	2693.1 ppb	20:45:30
3	Tl 190.801†	-65.2	-39.1	1.5262 µg/L	1.5262 ppb	20:45:56
3	U 409.014†	-2513.5	-2642.9	-268.05 µg/L	-268.05 ppb	20:45:30
3	V 292.402†	1881.3	2017.3	28.047 µg/L	28.047 ppb	20:45:35
3	Zn 213.857†	17910.8	17178.1	458.20 µg/L	458.20 ppb	20:45:35

Mean Data: 246679002|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1685050.3	100.14 %	0.880			0.88%
Sc RADIAL	105556.8	96.7 %	0.50			0.52%
Y 371.029	1019824.1	108.94 %	0.876			0.80%
Ag 328.068†	-185.3	6.8385 µg/L	0.39659	6.8385 ppb	0.39659	5.80%
Al 396.153Radial†	23248.5	11126 µg/L	80.7	11126 ppb	80.7	0.72%
As 188.979†	-1.1	1.4513 µg/L	1.70224	1.4513 ppb	1.70224	117.29%
B 249.677†	538.4	-4.8153 µg/L	0.79411	-4.8153 ppb	0.79411	16.49%
Ba 233.527†	5898.7	152.07 µg/L	5.243	152.07 ppb	5.243	3.45%
Be 313.107†	21599.9	14.413 µg/L	0.5099	14.413 ppb	0.5099	3.54%
Ca 317.933Radial†	9505.6	3082.9 µg/L	24.55	3082.9 ppb	24.55	0.80%
Cd 226.502†	312.6	1.8903 µg/L	0.56873	1.8903 ppb	0.56873	30.09%
Co 228.616†	362.3	13.070 µg/L	1.0269	13.070 ppb	1.0269	7.86%
Cr 267.716†	4615.0	119.36 µg/L	3.999	119.36 ppb	3.999	3.35%
Cu 324.752†	5865.8	54.141 µg/L	1.2670	54.141 ppb	1.2670	2.34%
Fe 238.204 Radial†	8545.5	64324 µg/L	519.8	64324 ppb	519.8	0.81%
K 766.490 Radial†	5337.9	3029.3 µg/L	8.55	3029.3 ppb	8.55	0.28%
Mg 279.077 IEC†	182.2	1750.9 µg/L	26.55	1750.9 ppb	26.55	1.52%
Mn 257.610†	1031779.7	3766.1 µg/L	67.73	3766.1 ppb	67.73	1.80%
Mo 202.031†	150.6	19.653 µg/L	1.0975	19.653 ppb	1.0975	5.58%
Na 589.592 Radial†	4931.8	1707.6 µg/L	22.85	1707.6 ppb	22.85	1.34%



Ni 231.604†	146.0	10.941 µg/L	0.5378	10.941 ppb	0.5378	4.92%
P 214.914†	209.8	398.60 µg/L	36.031	398.60 ppb	36.031	9.04%
Pb 220.353†	167.2	51.055 µg/L	4.0231	51.055 ppb	4.0231	7.88%
S 181.975 Axial†	0.9	3.5429 µg/L	0.39689	3.5429 ppb	0.39689	11.20%
Sb 206.836†	-6.5	-8.0946 µg/L	2.21514	-8.0946 ppb	2.21514	27.37%
Se 196.026†	-44.0	156.21 µg/L	7.576	156.21 ppb	7.576	4.85%
SiO2†	72104.6	15735 µg/L	462.6	15735 ppb	462.6	2.94%
Si 251.611†	89773.6	7338.7 µg/L	215.72	7338.7 ppb	215.72	2.94%
Sn 189.927†	-12.9	-10.238 µg/L	1.6404	-10.238 ppb	1.6404	16.02%
Sr 421.552†	4152.6	18.807 µg/L	0.1749	18.807 ppb	0.1749	0.93%
Ti 334.940†	1030967.1	2750.3 µg/L	53.89	2750.3 ppb	53.89	1.96%
Tl 190.801†	-36.2	5.6268 µg/L	5.14544	5.6268 ppb	5.14544	91.44%
U 409.014†	-2726.4	-276.22 µg/L	7.864	-276.22 ppb	7.864	2.85%
V 292.402†	2110.0	29.230 µg/L	1.0995	29.230 ppb	1.0995	3.76%
Zn 213.857†	17754.8	473.69 µg/L	15.431	473.69 ppb	15.431	3.26%

Sequence No.: 48

Sample ID: 246679003|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 338

Date Collected: 2/26/2010 20:46:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679003|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106655.0	106655.0	97.7 %		20:46:38
1	Al 396.153Radial†	5777.8	6090.6	2914.7 µg/L	2914.7 ppb	20:46:38
1	Ca 317.933Radial†	12979.0	12905.2	4185.5 µg/L	4185.5 ppb	20:46:38
1	Fe 238.204 Radial†	8551.5	8724.4	65670 µg/L	65670 ppb	20:46:38
1	K 766.490 Radial†	2620.7	2452.5	1391.8 µg/L	1391.8 ppb	20:46:38
1	Mg 279.077 IEC†	125.6	119.9	1126.4 µg/L	1126.4 ppb	20:46:58
1	Na 589.592 Radial†	2193.0	2010.1	695.97 µg/L	695.97 ppb	20:46:38
1	Sr 421.552†	1729.4	1615.7	7.3174 µg/L	7.3174 ppb	20:46:38
1	Sc 361.383	1703925.8	1703925.8	101.26 %		20:48:03
1	Y 371.029	1006995.5	1006995.5	107.57 %		20:48:03
1	Ag 328.068†	-1365.4	-782.4	1.6427 µg/L	1.6427 ppb	20:48:08
1	As 188.979†	-7.8	-3.9	-3.6016 µg/L	-3.6016 ppb	20:48:29
1	B 249.677†	600.2	434.1	-11.204 µg/L	-11.204 ppb	20:48:08
1	Ba 233.527†	3404.5	3379.9	87.148 µg/L	87.148 ppb	20:48:29
1	Be 313.107†	4236.5	6129.5	3.0660 µg/L	3.0660 ppb	20:48:08
1	Cd 226.502†	193.9	335.7	2.4192 µg/L	2.4192 ppb	20:48:29
1	Co 228.616†	248.1	222.8	4.3272 µg/L	4.3272 ppb	20:48:29
1	Cr 267.716†	990.3	887.8	22.972 µg/L	22.972 ppb	20:48:29
1	Cu 324.752†	3258.6	594.9	16.611 µg/L	16.611 ppb	20:48:08
1	Mn 257.610†	567274.8	560742.6	2048.6 µg/L	2048.6 ppb	20:48:03
1	Mo 202.031†	77.6	72.3	10.761 µg/L	10.761 ppb	20:48:29
1	Ni 231.604†	510.1	205.1	15.060 µg/L	15.060 ppb	20:48:29
1	P 214.914†	480.7	233.2	449.41 µg/L	449.41 ppb	20:48:29
1	Pb 220.353†	132.9	88.4	25.747 µg/L	25.747 ppb	20:48:29
1	S 181.975 Axial†	25.4	4.4	16.705 µg/L	16.705 ppb	20:48:29
1	Sb 206.836†	8.9	-12.2	-13.255 µg/L	-13.255 ppb	20:48:29
1	Se 196.026†	-37.3	-50.2	153.47 µg/L	153.47 ppb	20:48:29
1	SiO2†	50789.0	48772.2	10643 µg/L	10643 ppb	20:48:08
1	Si 251.611†	61782.6	60647.8	4957.7 µg/L	4957.7 ppb	20:48:08
1	Sn 189.927†	-16.8	-21.1	-14.260 µg/L	-14.260 ppb	20:48:29
1	Ti 334.940†	1316545.5	1300130.5	3468.4 µg/L	3468.4 ppb	20:48:03
1	Tl 190.801†	-59.2	-32.9	8.4022 µg/L	8.4022 ppb	20:48:29
1	U 409.014†	-2210.1	-2333.3	-237.97 µg/L	-237.97 ppb	20:48:03
1	V 292.402†	1550.8	1683.4	23.623 µg/L	23.623 ppb	20:48:08
1	Zn 213.857†	17073.4	16280.1	434.09 µg/L	434.09 ppb	20:48:08
2	Sc RADIAL	106293.2	106293.2	97.3 %		20:47:04
2	Al 396.153Radial†	5773.0	6105.9	2922.0 µg/L	2922.0 ppb	20:47:04
2	Ca 317.933Radial†	12929.5	12899.6	4183.6 µg/L	4183.6 ppb	20:47:04
2	Fe 238.204 Radial†	8504.2	8705.6	65528 µg/L	65528 ppb	20:47:04
2	K 766.490 Radial†	2612.0	2452.7	1391.9 µg/L	1391.9 ppb	20:47:04
2	Mg 279.077 IEC†	127.2	121.9	1147.2 µg/L	1147.2 ppb	20:47:24
2	Na 589.592 Radial†	2194.3	2019.1	699.09 µg/L	699.09 ppb	20:47:04
2	Sr 421.552†	1742.1	1634.8	7.4039 µg/L	7.4039 ppb	20:47:04
2	Sc 361.383	1694984.2	1694984.2	100.73 %		20:48:36
2	Y 371.029	1001527.0	1001527.0	106.99 %		20:48:36
2	Ag 328.068†	-1319.6	-744.1	1.9652 µg/L	1.9652 ppb	20:48:41
2	As 188.979†	-3.9	-0.1	3.4691 µg/L	3.4691 ppb	20:49:02
2	B 249.677†	620.5	457.4	-9.8944 µg/L	-9.8944 ppb	20:48:41
2	Ba 233.527†	3415.1	3408.3	87.878 µg/L	87.878 ppb	20:49:02
2	Be 313.107†	4188.0	6103.4	3.0476 µg/L	3.0476 ppb	20:48:41
2	Cd 226.502†	194.8	337.6	2.4914 µg/L	2.4914 ppb	20:49:02
2	Co 228.616†	238.8	214.8	3.9168 µg/L	3.9168 ppb	20:49:02
2	Cr 267.716†	997.6	900.2	23.291 µg/L	23.291 ppb	20:49:02
2	Cu 324.752†	3279.0	632.1	16.851 µg/L	16.851 ppb	20:48:41
2	Mn 257.610†	564397.6	560841.5	2048.9 µg/L	2048.9 ppb	20:48:36
2	Mo 202.031†	78.1	73.2	10.860 µg/L	10.860 ppb	20:49:02
2	Ni 231.604†	503.3	201.0	14.778 µg/L	14.778 ppb	20:49:02
2	P 214.914†	488.5	243.5	471.57 µg/L	471.57 ppb	20:49:02
2	Pb 220.353†	131.7	87.9	25.595 µg/L	25.595 ppb	20:49:02

2	S 181.975 Axial†	24.0	3.2	11.997 µg/L	11.997 ppb	20:49:02
2	Sb 206.836†	12.7	-8.5	-9.2204 µg/L	-9.2204 ppb	20:49:02
2	Se 196.026†	-32.4	-45.5	158.78 µg/L	158.78 ppb	20:49:02
2	SiO2†	51072.0	49317.7	10762 µg/L	10762 ppb	20:48:41
2	Si 251.611†	62067.4	61252.5	5007.2 µg/L	5007.2 ppb	20:48:41
2	Sn 189.927†	-20.1	-24.5	-15.842 µg/L	-15.842 ppb	20:49:02
2	Ti 334.940†	1309423.4	1299918.6	3467.9 µg/L	3467.9 ppb	20:48:36
2	Tl 190.801†	-63.5	-37.4	3.0648 µg/L	3.0648 ppb	20:49:02
2	U 409.014†	-2166.7	-2301.8	-234.86 µg/L	-234.86 ppb	20:48:36
2	V 292.402†	1530.3	1671.1	23.466 µg/L	23.466 ppb	20:48:41
2	Zn 213.857†	17213.3	16508.0	440.22 µg/L	440.22 ppb	20:48:41
3	Sc RADIAL	107601.3	107601.3	98.5 %		20:47:30
3	Al 396.153Radial†	5794.7	6055.8	2898.1 µg/L	2898.1 ppb	20:47:30
3	Ca 317.933Radial†	13061.1	12871.7	4174.6 µg/L	4174.6 ppb	20:47:30
3	Fe 238.204 Radial†	8620.0	8716.9	65614 µg/L	65614 ppb	20:47:30
3	K 766.490 Radial†	2681.7	2490.8	1413.6 µg/L	1413.6 ppb	20:47:30
3	Mg 279.077 IEC†	124.1	117.1	1099.3 µg/L	1099.3 ppb	20:47:50
3	Na 589.592 Radial†	2217.4	2015.1	697.71 µg/L	697.71 ppb	20:47:30
3	Sr 421.552†	1708.8	1579.2	7.1520 µg/L	7.1520 ppb	20:47:30
3	Sc 361.383	1694511.5	1694511.5	100.70 %		20:49:09
3	Y 371.029	994267.2	994267.2	106.21 %		20:49:09
3	Ag 328.068†	-1385.1	-809.6	1.3862 µg/L	1.3862 ppb	20:49:15
3	As 188.979†	-6.5	-2.6	-1.1596 µg/L	-1.1596 ppb	20:49:35
3	B 249.677†	576.2	413.5	-12.269 µg/L	-12.269 ppb	20:49:15
3	Ba 233.527†	3218.2	3213.6	82.860 µg/L	82.860 ppb	20:49:35
3	Be 313.107†	3972.9	5891.0	2.9152 µg/L	2.9152 ppb	20:49:15
3	Cd 226.502†	162.1	305.2	1.5306 µg/L	1.5306 ppb	20:49:35
3	Co 228.616†	228.3	204.5	3.4876 µg/L	3.4876 ppb	20:49:35
3	Cr 267.716†	923.3	826.7	21.389 µg/L	21.389 ppb	20:49:35
3	Cu 324.752†	3207.5	562.0	16.364 µg/L	16.364 ppb	20:49:15
3	Mn 257.610†	556402.0	553058.1	2020.6 µg/L	2020.6 ppb	20:49:09
3	Mo 202.031†	77.1	72.2	10.742 µg/L	10.742 ppb	20:49:35
3	Ni 231.604†	479.4	177.4	13.141 µg/L	13.141 ppb	20:49:35
3	P 214.914†	486.3	241.4	467.17 µg/L	467.17 ppb	20:49:35
3	Pb 220.353†	124.9	81.2	23.494 µg/L	23.494 ppb	20:49:35
3	S 181.975 Axial†	22.2	1.4	5.2112 µg/L	5.2112 ppb	20:49:35
3	Sb 206.836†	11.6	-9.5	-10.308 µg/L	-10.308 ppb	20:49:35
3	Se 196.026†	-27.2	-40.3	165.41 µg/L	165.41 ppb	20:49:35
3	SiO2†	50192.1	48458.2	10575 µg/L	10575 ppb	20:49:15
3	Si 251.611†	61046.2	60255.6	4925.7 µg/L	4925.7 ppb	20:49:15
3	Sn 189.927†	-4.4	-8.9	-8.5339 µg/L	-8.5339 ppb	20:49:35
3	Ti 334.940†	1289555.7	1280552.5	3416.2 µg/L	3416.2 ppb	20:49:09
3	Tl 190.801†	-61.6	-35.6	4.6826 µg/L	4.6826 ppb	20:49:35
3	U 409.014†	-2185.0	-2320.6	-236.72 µg/L	-236.72 ppb	20:49:09
3	V 292.402†	1462.2	1603.9	22.610 µg/L	22.610 ppb	20:49:15
3	Zn 213.857†	16867.7	16169.6	431.13 µg/L	431.13 ppb	20:49:15

Mean Data: 246679003|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1697807.1	100.90 %	0.315			0.31%
Sc RADIAL	106849.8	97.8 %	0.62			0.63%
Y 371.029	1000929.9	106.92 %	0.682			0.64%
Ag 328.068†	-778.7	1.6647 µg/L	0.29010	1.6647 ppb	0.29010	17.43%
Al 396.153Radial†	6084.1	2911.6 µg/L	12.28	2911.6 ppb	12.28	0.42%
As 188.979†	-2.2	-0.4307 µg/L	3.59126	-0.4307 ppb	3.59126	833.87%
B 249.677†	435.0	-11.122 µg/L	1.1892	-11.122 ppb	1.1892	10.69%
Ba 233.527†	3333.9	85.962 µg/L	2.7109	85.962 ppb	2.7109	3.15%
Be 313.107†	6041.3	3.0096 µg/L	0.08227	3.0096 ppb	0.08227	2.73%
Ca 317.933Radial†	12892.2	4181.2 µg/L	5.81	4181.2 ppb	5.81	0.14%
Cd 226.502†	326.2	2.1471 µg/L	0.53508	2.1471 ppb	0.53508	24.92%
Co 228.616†	214.0	3.9106 µg/L	0.41983	3.9106 ppb	0.41983	10.74%
Cr 267.716†	871.6	22.551 µg/L	1.0183	22.551 ppb	1.0183	4.52%
Cu 324.752†	596.4	16.608 µg/L	0.2433	16.608 ppb	0.2433	1.46%
Fe 238.204 Radial†	8715.6	65604 µg/L	71.3	65604 ppb	71.3	0.11%
K 766.490 Radial†	2465.3	1399.1 µg/L	12.53	1399.1 ppb	12.53	0.90%
Mg 279.077 IEC†	119.6	1124.3 µg/L	24.04	1124.3 ppb	24.04	2.14%
Mn 257.610†	558214.1	2039.4 µg/L	16.28	2039.4 ppb	16.28	0.80%
Mo 202.031†	72.6	10.788 µg/L	0.0634	10.788 ppb	0.0634	0.59%
Na 589.592 Radial†	2014.7	697.59 µg/L	1.562	697.59 ppb	1.562	0.22%

Ni 231.604†	194.5	14.326 µg/L	1.0361	14.326 ppb	1.0361	7.23%
P 214.914†	239.3	462.72 µg/L	11.731	462.72 ppb	11.731	2.54%
Pb 220.353†	85.8	24.945 µg/L	1.2593	24.945 ppb	1.2593	5.05%
S 181.975 Axial†	3.0	11.305 µg/L	5.7783	11.305 ppb	5.7783	51.11%
Sb 206.836†	-10.1	-10.928 µg/L	2.0876	-10.928 ppb	2.0876	19.10%
Se 196.026†	-45.3	159.22 µg/L	5.983	159.22 ppb	5.983	3.76%
SiO2†	48849.4	10660 µg/L	94.9	10660 ppb	94.9	0.89%
Si 251.611†	60718.6	4963.5 µg/L	41.06	4963.5 ppb	41.06	0.83%
Sn 189.927†	-18.2	-12.879 µg/L	3.8448	-12.879 ppb	3.8448	29.85%
Sr 421.552†	1609.9	7.2911 µg/L	0.12800	7.2911 ppb	0.12800	1.76%
Ti 334.940†	1293533.9	3450.8 µg/L	29.99	3450.8 ppb	29.99	0.87%
Tl 190.801†	-35.3	5.3832 µg/L	2.73679	5.3832 ppb	2.73679	50.84%
U 409.014†	-2318.6	-236.52 µg/L	1.563	-236.52 ppb	1.563	0.66%
V 292.402†	1652.8	23.233 µg/L	0.5451	23.233 ppb	0.5451	2.35%
Zn 213.857†	16319.2	435.15 µg/L	4.634	435.15 ppb	4.634	1.06%

Sequence No.: 49

Sample ID: 246679004|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 339

Date Collected: 2/26/2010 20:49:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679004|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106840.2	106840.2	97.8 %		20:50:17
1	Al 396.153Radial†	80519.4	82473.2	39471 µg/L	39471 ppb	20:50:17
1	Ca 317.933Radial†	28574.5	28822.2	9347.7 µg/L	9347.7 ppb	20:50:17
1	Fe 238.204 Radial†	7605.6	7742.3	58278 µg/L	58278 ppb	20:50:38
1	K 766.490 Radial†	7633.9	7571.8	4297.1 µg/L	4297.1 ppb	20:50:17
1	Mg 279.077 IEC†	625.5	630.5	6233.1 µg/L	6233.1 ppb	20:50:38
1	Na 589.592 Radial†	1699.6	1501.9	520.03 µg/L	520.03 ppb	20:50:17
1	Sr 421.552†	13094.4	13228.7	59.912 µg/L	59.912 ppb	20:50:17
1	Sc 361.383	1725025.9	1725025.9	102.52 %		20:51:42
1	Y 371.029	1046305.0	1046305.0	111.77 %		20:51:42
1	Ag 328.068†	-1350.8	-751.8	1.0885 µg/L	1.0885 ppb	20:51:48
1	As 188.979†	3.7	7.4	16.606 µg/L	16.606 ppb	20:52:08
1	B 249.677†	722.1	545.7	-1.3774 µg/L	-1.3774 ppb	20:51:48
1	Ba 233.527†	7665.2	7494.9	193.24 µg/L	193.24 ppb	20:51:48
1	Be 313.107†	53889.4	54512.0	38.419 µg/L	38.419 ppb	20:51:48
1	Cd 226.502†	144.7	285.4	1.7848 µg/L	1.7848 ppb	20:52:08
1	Co 228.616†	203.6	176.3	5.8593 µg/L	5.8593 ppb	20:52:08
1	Cr 267.716†	2216.5	2071.9	53.602 µg/L	53.602 ppb	20:52:08
1	Cu 324.752†	5121.9	2373.1	27.967 µg/L	27.967 ppb	20:51:48
1	Mn 257.610†	532100.2	519579.5	1897.7 µg/L	1897.7 ppb	20:51:42
1	Mo 202.031†	39.2	33.8	6.0830 µg/L	6.0830 ppb	20:52:08
1	Ni 231.604†	555.2	242.9	17.593 µg/L	17.593 ppb	20:52:08
1	P 214.914†	422.7	170.8	330.19 µg/L	330.19 ppb	20:52:08
1	Pb 220.353†	161.0	114.2	36.127 µg/L	36.127 ppb	20:52:08
1	S 181.975 Axial†	24.8	3.5	13.425 µg/L	13.425 ppb	20:52:08
1	Sb 206.836†	15.4	-6.0	-7.1146 µg/L	-7.1146 ppb	20:52:08
1	Se 196.026†	-25.4	-38.1	140.13 µg/L	140.13 ppb	20:52:08
1	SiO2†	157596.0	152343.3	33245 µg/L	33245 ppb	20:51:48
1	Si 251.611†	198618.2	193377.4	15808 µg/L	15808 ppb	20:51:42
1	Sn 189.927†	-9.4	-13.7	-9.5412 µg/L	-9.5412 ppb	20:52:08
1	Ti 334.940†	606253.5	591375.9	1577.3 µg/L	1577.3 ppb	20:51:42
1	Tl 190.801†	-42.1	-15.4	10.668 µg/L	10.668 ppb	20:52:08
1	U 409.014†	-2155.3	-2253.2	-229.41 µg/L	-229.41 ppb	20:51:42
1	V 292.402†	3137.6	3212.5	42.774 µg/L	42.774 ppb	20:51:48
1	Zn 213.857†	15831.0	14862.0	396.02 µg/L	396.02 ppb	20:51:48
2	Sc RADIAL	108312.0	108312.0	99.2 %		20:50:43
2	Al 396.153Radial†	80594.2	81430.3	38972 µg/L	38972 ppb	20:50:43
2	Ca 317.933Radial†	28668.4	28520.0	9249.7 µg/L	9249.7 ppb	20:50:43
2	Fe 238.204 Radial†	7526.3	7556.8	56881 µg/L	56881 ppb	20:51:04
2	K 766.490 Radial†	7712.8	7545.3	4282.1 µg/L	4282.1 ppb	20:50:43
2	Mg 279.077 IEC†	615.3	611.6	6045.9 µg/L	6045.9 ppb	20:51:04
2	Na 589.592 Radial†	1600.5	1378.4	477.25 µg/L	477.25 ppb	20:50:43
2	Sr 421.552†	13103.3	13055.8	59.129 µg/L	59.129 ppb	20:50:43
2	Sc 361.383	1679632.1	1679632.1	99.819 %		20:52:16
2	Y 371.029	1022030.8	1022030.8	109.18 %		20:52:16
2	Ag 328.068†	-1342.5	-779.0	0.6701 µg/L	0.6701 ppb	20:52:21
2	As 188.979†	4.1	8.0	17.482 µg/L	17.482 ppb	20:52:42
2	B 249.677†	703.5	546.1	-0.6235 µg/L	-0.6235 ppb	20:52:21
2	Ba 233.527†	7579.6	7611.2	196.24 µg/L	196.24 ppb	20:52:21
2	Be 313.107†	53396.5	55438.9	39.079 µg/L	39.079 ppb	20:52:21
2	Cd 226.502†	167.9	312.4	2.7348 µg/L	2.7348 ppb	20:52:42
2	Co 228.616†	204.3	182.4	6.1560 µg/L	6.1560 ppb	20:52:42
2	Cr 267.716†	2252.6	2166.5	56.049 µg/L	56.049 ppb	20:52:42
2	Cu 324.752†	5063.4	2449.5	28.253 µg/L	28.253 ppb	20:52:21
2	Mn 257.610†	520820.4	522306.7	1907.6 µg/L	1907.6 ppb	20:52:16
2	Mo 202.031†	45.3	41.0	6.8489 µg/L	6.8489 ppb	20:52:42
2	Ni 231.604†	555.8	258.1	18.628 µg/L	18.628 ppb	20:52:42
2	P 214.914†	420.3	179.6	350.11 µg/L	350.11 ppb	20:52:42
2	Pb 220.353†	171.7	129.2	40.866 µg/L	40.866 ppb	20:52:42

2	S 181.975 Axial†	23.4	2.8	10.569 µg/L	10.569 ppb	20:52:42
2	Sb 206.836†	15.0	-6.0	-7.0926 µg/L	-7.0926 ppb	20:52:42
2	Se 196.026†	-18.6	-32.0	143.21 µg/L	143.21 ppb	20:52:42
2	SiO2†	155986.8	154885.8	33800 µg/L	33800 ppb	20:52:21
2	Si 251.611†	193825.2	193811.8	15843 µg/L	15843 ppb	20:52:16
2	Sn 189.927†	-12.1	-16.7	-10.864 µg/L	-10.864 ppb	20:52:42
2	Ti 334.940†	593604.1	594686.0	1586.2 µg/L	1586.2 ppb	20:52:16
2	Tl 190.801†	-50.5	-25.0	-0.5723 µg/L	-0.5723 ppb	20:52:42
2	U 409.014†	-2139.2	-2293.9	-233.20 µg/L	-233.20 ppb	20:52:16
2	V 292.402†	3123.7	3281.3	43.602 µg/L	43.602 ppb	20:52:21
2	Zn 213.857†	15724.8	15173.0	404.45 µg/L	404.45 ppb	20:52:21
3	Sc RADIAL	107801.5	107801.5	98.7 %		20:51:09
3	Al 396.153Radial†	80308.2	81525.4	39017 µg/L	39017 ppb	20:51:09
3	Ca 317.933Radial†	28417.6	28402.9	9211.7 µg/L	9211.7 ppb	20:51:09
3	Fe 238.204 Radial†	7590.0	7657.2	57637 µg/L	57637 ppb	20:51:30
3	K 766.490 Radial†	7614.7	7482.7	4246.6 µg/L	4246.6 ppb	20:51:09
3	Mg 279.077 IEC†	628.0	627.4	6202.7 µg/L	6202.7 ppb	20:51:30
3	Na 589.592 Radial†	1620.6	1406.4	486.95 µg/L	486.95 ppb	20:51:09
3	Sr 421.552†	13115.8	13131.0	59.470 µg/L	59.470 ppb	20:51:09
3	Sc 361.383	1725724.0	1725724.0	102.56 %		20:52:49
3	Y 371.029	1043304.5	1043304.5	111.45 %		20:52:49
3	Ag 328.068†	-1294.8	-696.6	1.4858 µg/L	1.4858 ppb	20:52:55
3	As 188.979†	-0.7	3.1	8.6177 µg/L	8.6177 ppb	20:53:15
3	B 249.677†	671.4	496.0	-3.6854 µg/L	-3.6854 ppb	20:52:55
3	Ba 233.527†	7442.4	7274.6	187.56 µg/L	187.56 ppb	20:52:55
3	Be 313.107†	52085.5	52731.9	37.157 µg/L	37.157 ppb	20:52:55
3	Cd 226.502†	132.3	273.2	1.4988 µg/L	1.4988 ppb	20:53:15
3	Co 228.616†	186.9	159.9	5.0771 µg/L	5.0771 ppb	20:53:15
3	Cr 267.716†	2067.0	1925.2	49.808 µg/L	49.808 ppb	20:53:15
3	Cu 324.752†	5015.9	2267.7	27.091 µg/L	27.091 ppb	20:52:55
3	Mn 257.610†	523283.2	510772.4	1865.5 µg/L	1865.5 ppb	20:52:49
3	Mo 202.031†	29.5	24.5	4.9850 µg/L	4.9850 ppb	20:53:15
3	Ni 231.604†	518.6	207.0	15.094 µg/L	15.094 ppb	20:53:15
3	P 214.914†	400.4	149.0	283.56 µg/L	283.56 ppb	20:53:15
3	Pb 220.353†	160.8	113.9	36.031 µg/L	36.031 ppb	20:53:15
3	S 181.975 Axial†	17.6	-3.5	-13.386 µg/L	-13.386 ppb	20:53:15
3	Sb 206.836†	14.7	-6.7	-7.8447 µg/L	-7.8447 ppb	20:53:15
3	Se 196.026†	-32.6	-45.1	129.47 µg/L	129.47 ppb	20:53:15
3	SiO2†	153801.6	148581.4	32424 µg/L	32424 ppb	20:52:55
3	Si 251.611†	195463.7	190223.2	15550 µg/L	15550 ppb	20:52:49
3	Sn 189.927†	-17.4	-21.5	-13.165 µg/L	-13.165 ppb	20:53:15
3	Ti 334.940†	593814.3	579007.8	1544.3 µg/L	1544.3 ppb	20:52:49
3	Tl 190.801†	-44.7	-18.0	7.2385 µg/L	7.2385 ppb	20:53:15
3	U 409.014†	-2104.4	-2202.8	-224.37 µg/L	-224.37 ppb	20:52:49
3	V 292.402†	2985.0	3062.5	40.838 µg/L	40.838 ppb	20:52:55
3	Zn 213.857†	15368.6	14404.9	383.79 µg/L	383.79 ppb	20:52:55

## Mean Data: 246679004|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1710127.3	101.63 %	1.570			1.54%
Sc RADIAL	107651.3	98.6 %	0.68			0.69%
Y 371.029	1037213.4	110.80 %	1.414			1.28%
Ag 328.068†	-742.5	1.0814 µg/L	0.40790	1.0814 ppb	0.40790	37.72%
Al 396.153Radial†	81809.7	39153 µg/L	276.0	39153 ppb	276.0	0.70%
As 188.979†	6.2	14.235 µg/L	4.8847	14.235 ppb	4.8847	34.31%
B 249.677†	529.3	-1.8955 µg/L	1.59534	-1.8955 ppb	1.59534	84.17%
Ba 233.527†	7460.3	192.34 µg/L	4.409	192.34 ppb	4.409	2.29%
Be 313.107†	54227.6	38.218 µg/L	0.9764	38.218 ppb	0.9764	2.55%
Ca 317.933Radial†	28581.7	9269.7 µg/L	70.18	9269.7 ppb	70.18	0.76%
Cd 226.502†	290.3	2.0061 µg/L	0.64707	2.0061 ppb	0.64707	32.25%
Co 228.616†	172.9	5.6975 µg/L	0.55738	5.6975 ppb	0.55738	9.78%
Cr 267.716†	2054.5	53.153 µg/L	3.1445	53.153 ppb	3.1445	5.92%
Cu 324.752†	2363.4	27.770 µg/L	0.6053	27.770 ppb	0.6053	2.18%
Fe 238.204 Radial†	7652.1	57599 µg/L	699.0	57599 ppb	699.0	1.21%
K 766.490 Radial†	7533.3	4275.3 µg/L	25.96	4275.3 ppb	25.96	0.61%
Mg 279.077 IEC†	623.2	6160.6 µg/L	100.48	6160.6 ppb	100.48	1.63%
Mn 257.610†	517552.8	1890.3 µg/L	21.98	1890.3 ppb	21.98	1.16%
Mo 202.031†	33.1	5.9723 µg/L	0.93690	5.9723 ppb	0.93690	15.69%
Na 589.592 Radial†	1428.9	494.74 µg/L	22.427	494.74 ppb	22.427	4.53%

Ni 231.604†	236.0	17.105 µg/L	1.8169	17.105 ppb	1.8169	10.62%
P 214.914†	166.5	321.29 µg/L	34.157	321.29 ppb	34.157	10.63%
Pb 220.353†	119.1	37.675 µg/L	2.7640	37.675 ppb	2.7640	7.34%
S 181.975 Axial†	0.9	3.5359 µg/L	14.72454	3.5359 ppb	14.72454	416.43%
Sb 206.836†	-6.3	-7.3506 µg/L	0.42803	-7.3506 ppb	0.42803	5.82%
Se 196.026†	-38.4	137.60 µg/L	7.212	137.60 ppb	7.212	5.24%
SiO2†	151936.8	33157 µg/L	692.2	33157 ppb	692.2	2.09%
Si 251.611†	192470.8	15734 µg/L	160.1	15734 ppb	160.1	1.02%
Sn 189.927†	-17.3	-11.190 µg/L	1.8339	-11.190 ppb	1.8339	16.39%
Sr 421.552†	13138.5	59.504 µg/L	0.3926	59.504 ppb	0.3926	0.66%
Ti 334.940†	588356.6	1569.3 µg/L	22.05	1569.3 ppb	22.05	1.41%
Tl 190.801†	-19.5	5.7782 µg/L	5.76082	5.7782 ppb	5.76082	99.70%
U 409.014†	-2250.0	-228.99 µg/L	4.427	-228.99 ppb	4.427	1.93%
V 292.402†	3185.4	42.404 µg/L	1.4187	42.404 ppb	1.4187	3.35%
Zn 213.857†	14813.3	394.75 µg/L	10.389	394.75 ppb	10.389	2.63%

Sequence No.: 50

Sample ID: 246679005|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 340

Date Collected: 2/26/2010 20:53:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679005|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106572.1	106572.1	97.6 %		20:53:57
1	Al 396.153Radial†	5835.0	6153.8	2945.0 µg/L	2945.0 ppb	20:53:57
1	Ca 317.933Radial†	8532.6	8359.5	2711.2 µg/L	2711.2 ppb	20:53:57
1	Fe 238.204 Radial†	9640.8	9847.3	74123 µg/L	74123 ppb	20:53:57
1	K 766.490 Radial†	2529.2	2360.8	1339.8 µg/L	1339.8 ppb	20:53:57
1	Mg 279.077 IEC†	150.2	145.2	1370.0 µg/L	1370.0 ppb	20:54:17
1	Na 589.592 Radial†	1907.5	1719.3	595.28 µg/L	595.28 ppb	20:53:57
1	Sr 421.552†	1774.7	1663.5	7.5340 µg/L	7.5340 ppb	20:53:57
1	Sc 361.383	1699900.1	1699900.1	101.02 %		20:55:22
1	Y 371.029	999399.3	999399.3	106.76 %		20:55:22
1	Ag 328.068†	-1574.0	-992.1	0.8537 µg/L	0.8537 ppb	20:55:27
1	As 188.979†	-15.2	-11.2	-16.572 µg/L	-16.572 ppb	20:55:48
1	B 249.677†	675.7	510.2	-11.587 µg/L	-11.587 ppb	20:55:27
1	Ba 233.527†	3517.7	3500.0	90.239 µg/L	90.239 ppb	20:55:48
1	Be 313.107†	5438.3	7329.0	3.8780 µg/L	3.8780 ppb	20:55:27
1	Cd 226.502†	218.8	360.8	2.1948 µg/L	2.1948 ppb	20:55:48
1	Co 228.616†	261.7	236.8	4.8014 µg/L	4.8014 ppb	20:55:48
1	Cr 267.716†	815.1	716.6	18.544 µg/L	18.544 ppb	20:55:48
1	Cu 324.752†	3435.7	777.8	19.511 µg/L	19.511 ppb	20:55:27
1	Mn 257.610†	647958.5	641935.1	2345.1 µg/L	2345.1 ppb	20:55:22
1	Mo 202.031†	79.6	74.4	11.325 µg/L	11.325 ppb	20:55:48
1	Ni 231.604†	446.0	142.9	10.856 µg/L	10.856 ppb	20:55:48
1	P 214.914†	496.1	249.6	477.77 µg/L	477.77 ppb	20:55:48
1	Pb 220.353†	158.3	113.9	33.439 µg/L	33.439 ppb	20:55:48
1	S 181.975 Axial†	25.3	4.4	16.582 µg/L	16.582 ppb	20:55:48
1	Sb 206.836†	13.2	-7.9	-8.5814 µg/L	-8.5814 ppb	20:55:48
1	Se 196.026†	-34.1	-47.1	184.99 µg/L	184.99 ppb	20:55:48
1	SiO2†	43548.8	41724.3	9105.3 µg/L	9105.3 ppb	20:55:27
1	Si 251.611†	52862.7	51962.9	4247.8 µg/L	4247.8 ppb	20:55:27
1	Sn 189.927†	-15.6	-20.0	-14.306 µg/L	-14.306 ppb	20:55:48
1	Ti 334.940†	1359754.7	1345980.5	3590.7 µg/L	3590.7 ppb	20:55:22
1	Tl 190.801†	-66.9	-40.6	3.1810 µg/L	3.1810 ppb	20:55:48
1	U 409.014†	-2036.5	-2166.7	-222.74 µg/L	-222.74 ppb	20:55:22
1	V 292.402†	1443.7	1581.0	22.644 µg/L	22.644 ppb	20:55:27
1	Zn 213.857†	19009.9	18236.9	486.26 µg/L	486.26 ppb	20:55:27
2	Sc RADIAL	106568.2	106568.2	97.6 %		20:54:23
2	Al 396.153Radial†	5772.2	6089.6	2914.3 µg/L	2914.3 ppb	20:54:23
2	Ca 317.933Radial†	8426.5	8251.1	2676.0 µg/L	2676.0 ppb	20:54:23
2	Fe 238.204 Radial†	9592.3	9798.0	73751 µg/L	73751 ppb	20:54:23
2	K 766.490 Radial†	2426.1	2255.3	1279.9 µg/L	1279.9 ppb	20:54:23
2	Mg 279.077 IEC†	148.5	143.4	1353.1 µg/L	1353.1 ppb	20:54:43
2	Na 589.592 Radial†	1998.7	1812.8	627.66 µg/L	627.66 ppb	20:54:23
2	Sr 421.552†	1729.7	1617.5	7.3255 µg/L	7.3255 ppb	20:54:23
2	Sc 361.383	1684311.7	1684311.7	100.10 %		20:55:55
2	Y 371.029	991424.9	991424.9	105.91 %		20:55:55
2	Ag 328.068†	-1489.9	-922.5	1.4340 µg/L	1.4340 ppb	20:56:01
2	As 188.979†	-11.0	-7.1	-8.9529 µg/L	-8.9529 ppb	20:56:21
2	B 249.677†	644.7	485.4	-12.707 µg/L	-12.707 ppb	20:56:01
2	Ba 233.527†	3545.2	3559.7	91.781 µg/L	91.781 ppb	20:56:21
2	Be 313.107†	5422.1	7362.7	3.8969 µg/L	3.8969 ppb	20:56:01
2	Cd 226.502†	227.2	371.2	2.5419 µg/L	2.5419 ppb	20:56:21
2	Co 228.616†	259.4	236.8	4.7728 µg/L	4.7728 ppb	20:56:21
2	Cr 267.716†	816.1	725.1	18.764 µg/L	18.764 ppb	20:56:21
2	Cu 324.752†	3417.6	791.2	19.537 µg/L	19.537 ppb	20:56:01
2	Mn 257.610†	643669.1	643586.0	2351.1 µg/L	2351.1 ppb	20:55:55
2	Mo 202.031†	76.1	71.7	10.995 µg/L	10.995 ppb	20:56:21
2	Ni 231.604†	444.2	145.1	11.007 µg/L	11.007 ppb	20:56:21
2	P 214.914†	488.9	246.9	472.33 µg/L	472.33 ppb	20:56:21
2	Pb 220.353†	156.0	113.0	33.171 µg/L	33.171 ppb	20:56:21



2	S 181.975 Axial†	20.6	-0.1	-0.3295 µg/L	-0.3295 ppb	20:56:21
2	Sb 206.836†	9.2	-11.9	-12.795 µg/L	-12.795 ppb	20:56:21
2	Se 196.026†	-36.3	-49.6	180.70 µg/L	180.70 ppb	20:56:21
2	SiO2†	43437.5	42012.0	9168.1 µg/L	9168.1 ppb	20:56:01
2	Si 251.611†	52697.0	52281.7	4273.8 µg/L	4273.8 ppb	20:56:01
2	Sn 189.927†	-9.5	-14.0	-11.460 µg/L	-11.460 ppb	20:56:21
2	Ti 334.940†	1352480.4	1351170.5	3604.5 µg/L	3604.5 ppb	20:55:55
2	Tl 190.801†	-71.1	-45.5	-2.3410 µg/L	-2.3410 ppb	20:56:21
2	U 409.014†	-2078.1	-2226.9	-228.58 µg/L	-228.58 ppb	20:55:55
2	V 292.402†	1511.4	1661.9	23.647 µg/L	23.647 ppb	20:56:01
2	Zn 213.857†	19033.8	18435.0	491.59 µg/L	491.59 ppb	20:56:01
3	Sc RADIAL	107588.7	107588.7	98.5 %		20:54:49
3	Al 396.153Radial†	5733.5	5994.3	2868.7 µg/L	2868.7 ppb	20:54:49
3	Ca 317.933Radial†	8356.3	8098.0	2626.4 µg/L	2626.4 ppb	20:54:49
3	Fe 238.204 Radial†	9543.5	9655.2	72677 µg/L	72677 ppb	20:54:49
3	K 766.490 Radial†	2469.1	2275.3	1291.3 µg/L	1291.3 ppb	20:54:49
3	Mg 279.077 IEC†	149.9	143.4	1353.8 µg/L	1353.8 ppb	20:55:09
3	Na 589.592 Radial†	2014.2	1809.1	626.39 µg/L	626.39 ppb	20:54:49
3	Sr 421.552†	1707.5	1578.1	7.1471 µg/L	7.1471 ppb	20:54:49
3	Sc 361.383	1686956.8	1686956.8	100.25 %		20:56:29
3	Y 371.029	991637.8	991637.8	105.93 %		20:56:29
3	Ag 328.068†	-1464.1	-894.4	1.5368 µg/L	1.5368 ppb	20:56:34
3	As 188.979†	-8.4	-4.5	-4.3176 µg/L	-4.3176 ppb	20:56:55
3	B 249.677†	646.6	486.3	-12.101 µg/L	-12.101 ppb	20:56:34
3	Ba 233.527†	3303.8	3313.4	85.430 µg/L	85.430 ppb	20:56:55
3	Be 313.107†	5281.3	7213.7	3.8165 µg/L	3.8165 ppb	20:56:34
3	Cd 226.502†	208.3	352.0	2.0997 µg/L	2.0997 ppb	20:56:55
3	Co 228.616†	250.7	227.8	4.4452 µg/L	4.4452 ppb	20:56:55
3	Cr 267.716†	752.8	660.7	17.097 µg/L	17.097 ppb	20:56:55
3	Cu 324.752†	3447.1	815.3	19.507 µg/L	19.507 ppb	20:56:34
3	Mn 257.610†	633846.6	632780.2	2311.7 µg/L	2311.7 ppb	20:56:29
3	Mo 202.031†	70.9	66.4	10.345 µg/L	10.345 ppb	20:56:55
3	Ni 231.604†	426.2	126.4	9.6974 µg/L	9.6974 ppb	20:56:55
3	P 214.914†	471.8	229.1	434.78 µg/L	434.78 ppb	20:56:55
3	Pb 220.353†	133.1	89.9	25.939 µg/L	25.939 ppb	20:56:55
3	S 181.975 Axial†	23.6	2.8	10.663 µg/L	10.663 ppb	20:56:55
3	Sb 206.836†	10.3	-10.8	-11.606 µg/L	-11.606 ppb	20:56:55
3	Se 196.026†	-32.3	-45.5	182.19 µg/L	182.19 ppb	20:56:55
3	SiO2†	42988.3	41495.9	9055.5 µg/L	9055.5 ppb	20:56:34
3	Si 251.611†	52039.6	51543.4	4213.5 µg/L	4213.5 ppb	20:56:34
3	Sn 189.927†	-14.1	-18.7	-13.570 µg/L	-13.570 ppb	20:56:55
3	Ti 334.940†	1328627.3	1325259.4	3535.4 µg/L	3535.4 ppb	20:56:29
3	Tl 190.801†	-70.7	-44.9	-2.5864 µg/L	-2.5864 ppb	20:56:55
3	U 409.014†	-2059.4	-2205.0	-226.28 µg/L	-226.28 ppb	20:56:29
3	V 292.402†	1404.1	1552.4	22.214 µg/L	22.214 ppb	20:56:34
3	Zn 213.857†	18589.9	17962.4	478.96 µg/L	478.96 ppb	20:56:34

Mean Data: 246679005|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1690389.5	100.46 %	0.496			0.49%
Sc RADIAL	106909.7	97.9 %	0.54			0.55%
Y 371.029	994154.0	106.20 %	0.485			0.46%
Ag 328.068†	-936.4	1.2749 µg/L	0.36832	1.2749 ppb	0.36832	28.89%
Al 396.153Radial†	6079.3	2909.3 µg/L	38.41	2909.3 ppb	38.41	1.32%
As 188.979†	-7.6	-9.9476 µg/L	6.18763	-9.9476 ppb	6.18763	62.20%
B 249.677†	494.0	-12.131 µg/L	0.5605	-12.131 ppb	0.5605	4.62%
Ba 233.527†	3457.7	89.150 µg/L	3.3128	89.150 ppb	3.3128	3.72%
Be 313.107†	7301.8	3.8638 µg/L	0.04201	3.8638 ppb	0.04201	1.09%
Ca 317.933Radial†	8236.2	2671.2 µg/L	42.61	2671.2 ppb	42.61	1.60%
Cd 226.502†	361.3	2.2788 µg/L	0.23272	2.2788 ppb	0.23272	10.21%
Co 228.616†	233.8	4.6731 µg/L	0.19792	4.6731 ppb	0.19792	4.24%
Cr 267.716†	700.8	18.135 µg/L	0.9057	18.135 ppb	0.9057	4.99%
Cu 324.752†	794.8	19.518 µg/L	0.0161	19.518 ppb	0.0161	0.08%
Fe 238.204 Radial†	9766.8	73517 µg/L	750.9	73517 ppb	750.9	1.02%
K 766.490 Radial†	2297.2	1303.7 µg/L	31.81	1303.7 ppb	31.81	2.44%
Mg 279.077 IEC†	144.0	1358.9 µg/L	9.58	1358.9 ppb	9.58	0.70%
Mn 257.610†	639433.8	2336.0 µg/L	21.27	2336.0 ppb	21.27	0.91%
Mo 202.031†	70.8	10.889 µg/L	0.4985	10.889 ppb	0.4985	4.58%
Na 589.592 Radial†	1780.4	616.44 µg/L	18.340	616.44 ppb	18.340	2.98%

Ni 231.604†	138.1	10.520 µg/L	0.7164	10.520 ppb	0.7164	6.81%
P 214.914†	241.9	461.63 µg/L	23.408	461.63 ppb	23.408	5.07%
Pb 220.353†	105.6	30.850 µg/L	4.2547	30.850 ppb	4.2547	13.79%
S 181.975 Axial†	2.4	8.9720 µg/L	8.58182	8.9720 ppb	8.58182	95.65%
Sb 206.836†	-10.2	-10.994 µg/L	2.1723	-10.994 ppb	2.1723	19.76%
Se 196.026†	-47.4	182.63 µg/L	2.178	182.63 ppb	2.178	1.19%
SiO2†	41744.0	9109.7 µg/L	56.44	9109.7 ppb	56.44	0.62%
Si 251.611†	51929.3	4245.0 µg/L	30.27	4245.0 ppb	30.27	0.71%
Sn 189.927†	-17.6	-13.112 µg/L	1.4776	-13.112 ppb	1.4776	11.27%
Sr 421.552†	1619.7	7.3356 µg/L	0.19363	7.3356 ppb	0.19363	2.64%
Ti 334.940†	1340803.5	3576.9 µg/L	36.57	3576.9 ppb	36.57	1.02%
Tl 190.801†	-43.7	-0.5821 µg/L	3.26125	-0.5821 ppb	3.26125	560.24%
U 409.014†	-2199.6	-225.86 µg/L	2.944	-225.86 ppb	2.944	1.30%
V 292.402†	1598.4	22.835 µg/L	0.7352	22.835 ppb	0.7352	3.22%
Zn 213.857†	18211.4	485.60 µg/L	6.345	485.60 ppb	6.345	1.31%

Sequence No.: 51

Sample ID: 246679006|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 341

Date Collected: 2/26/2010 20:57:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679006|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	107356.1	107356.1	98.3 %		20:57:36
1	Al 396.153Radial†	15398.4	15837.9	7579.7 µg/L	7579.7 ppb	20:57:36
1	Ca 317.933Radial†	17762.4	17684.0	5735.4 µg/L	5735.4 ppb	20:57:36
1	Fe 238.204 Radial†	10384.6	10531.8	79275 µg/L	79275 ppb	20:57:56
1	K 766.490 Radial†	9277.4	9206.0	5224.6 µg/L	5224.6 ppb	20:57:36
1	Mg 279.077 IEC†	631.9	634.0	6244.9 µg/L	6244.9 ppb	20:57:56
1	Na 589.592 Radial†	4661.9	4506.8	1560.4 µg/L	1560.4 ppb	20:57:36
1	Sr 421.552†	4749.4	4676.0	21.177 µg/L	21.177 ppb	20:57:36
1	Sc 361.383	1673928.8	1673928.8	99.481 %		20:59:00
1	Y 371.029	1005245.8	1005245.8	107.38 %		20:59:00
1	Ag 328.068†	-1505.6	-947.5	2.0209 µg/L	2.0209 ppb	20:59:06
1	As 188.979†	-9.8	-6.0	-6.8427 µg/L	-6.8427 ppb	20:59:26
1	B 249.677†	763.4	608.7	-9.0232 µg/L	-9.0232 ppb	20:59:06
1	Ba 233.527†	6161.4	6211.5	160.15 µg/L	160.15 ppb	20:59:06
1	Be 313.107†	7717.8	9704.0	5.2043 µg/L	5.2043 ppb	20:59:06
1	Cd 226.502†	282.7	428.4	3.5986 µg/L	3.5986 ppb	20:59:26
1	Co 228.616†	328.3	307.8	6.4340 µg/L	6.4340 ppb	20:59:26
1	Cr 267.716†	1402.4	1319.5	34.143 µg/L	34.143 ppb	20:59:26
1	Cu 324.752†	3235.2	629.0	19.413 µg/L	19.413 ppb	20:59:06
1	Mn 257.610†	878707.8	883840.7	3227.2 µg/L	3227.2 ppb	20:59:00
1	Mo 202.031†	57.1	53.0	9.0759 µg/L	9.0759 ppb	20:59:26
1	Ni 231.604†	552.6	256.8	18.820 µg/L	18.820 ppb	20:59:26
1	P 214.914†	694.0	456.2	920.00 µg/L	920.00 ppb	20:59:26
1	Pb 220.353†	200.1	158.3	47.501 µg/L	47.501 ppb	20:59:26
1	S 181.975 Axial†	16.4	-4.2	-15.856 µg/L	-15.856 ppb	20:59:26
1	Sb 206.836†	9.0	-12.0	-13.203 µg/L	-13.203 ppb	20:59:26
1	Se 196.026†	-49.3	-62.9	179.05 µg/L	179.05 ppb	20:59:26
1	SiO2†	63265.9	62213.1	13577 µg/L	13577 ppb	20:59:06
1	Si 251.611†	77484.8	77525.4	6337.4 µg/L	6337.4 ppb	20:59:06
1	Sn 189.927†	-37.7	-42.4	-24.520 µg/L	-24.520 ppb	20:59:26
1	Ti 334.940†	1704764.0	1713674.6	4571.3 µg/L	4571.3 ppb	20:59:00
1	Tl 190.801†	-70.3	-45.0	10.363 µg/L	10.363 ppb	20:59:26
1	U 409.014†	-2234.9	-2397.4	-246.24 µg/L	-246.24 ppb	20:59:00
1	V 292.402†	2641.5	2807.2	38.366 µg/L	38.366 ppb	20:59:06
1	Zn 213.857†	22609.3	22147.0	590.74 µg/L	590.74 ppb	20:59:06
2	Sc RADIAL	106259.0	106259.0	97.3 %		20:58:02
2	Al 396.153Radial†	15666.5	16275.1	7788.9 µg/L	7788.9 ppb	20:58:02
2	Ca 317.933Radial†	17906.8	18019.0	5844.0 µg/L	5844.0 ppb	20:58:02
2	Fe 238.204 Radial†	10367.4	10623.1	79962 µg/L	79962 ppb	20:58:22
2	K 766.490 Radial†	9345.3	9373.3	5319.5 µg/L	5319.5 ppb	20:58:02
2	Mg 279.077 IEC†	629.1	637.7	6282.0 µg/L	6282.0 ppb	20:58:22
2	Na 589.592 Radial†	4741.3	4637.3	1605.6 µg/L	1605.6 ppb	20:58:02
2	Sr 421.552†	4841.7	4820.8	21.833 µg/L	21.833 ppb	20:58:02
2	Sc 361.383	1683848.2	1683848.2	100.07 %		20:59:34
2	Y 371.029	1015809.4	1015809.4	108.51 %		20:59:34
2	Ag 328.068†	-1624.7	-1057.6	1.1269 µg/L	1.1269 ppb	20:59:40
2	As 188.979†	-15.9	-12.0	-17.860 µg/L	-17.860 ppb	21:00:00
2	B 249.677†	753.9	594.8	-10.122 µg/L	-10.122 ppb	20:59:40
2	Ba 233.527†	6151.9	6165.5	158.97 µg/L	158.97 ppb	20:59:40
2	Be 313.107†	7737.9	9678.3	5.2047 µg/L	5.2047 ppb	20:59:40
2	Cd 226.502†	301.2	445.2	4.0145 µg/L	4.0145 ppb	21:00:00
2	Co 228.616†	329.2	306.7	6.4801 µg/L	6.4801 ppb	21:00:00
2	Cr 267.716†	1393.2	1302.1	33.692 µg/L	33.692 ppb	21:00:00
2	Cu 324.752†	3283.1	657.8	19.748 µg/L	19.748 ppb	20:59:40
2	Mn 257.610†	878514.8	878444.5	3207.6 µg/L	3207.6 ppb	20:59:34
2	Mo 202.031†	51.8	47.4	8.4570 µg/L	8.4570 ppb	21:00:00
2	Ni 231.604†	559.8	260.7	19.100 µg/L	19.100 ppb	21:00:00
2	P 214.914†	685.2	443.2	891.63 µg/L	891.63 ppb	21:00:00
2	Pb 220.353†	192.8	149.8	44.818 µg/L	44.818 ppb	21:00:00

2	S 181.975 Axial†	20.8	0.1	0.2819 µg/L	0.2819 ppb	21:00:00
2	Sb 206.836†	4.2	-16.9	-18.369 µg/L	-18.369 ppb	21:00:00
2	Se 196.026†	-52.5	-65.8	177.67 µg/L	177.67 ppb	21:00:00
2	SiO2†	62773.0	61345.9	13387 µg/L	13387 ppb	20:59:40
2	Si 251.611†	76817.8	76400.0	6245.4 µg/L	6245.4 ppb	20:59:40
2	Sn 189.927†	-26.0	-30.5	-18.956 µg/L	-18.956 ppb	21:00:00
2	Ti 334.940†	1696425.9	1695247.2	4522.1 µg/L	4522.1 ppb	20:59:34
2	Tl 190.801†	-75.5	-49.9	4.3300 µg/L	4.3300 ppb	21:00:00
2	U 409.014†	-2225.8	-2375.0	-244.15 µg/L	-244.15 ppb	20:59:34
2	V 292.402†	2668.1	2818.2	38.527 µg/L	38.527 ppb	20:59:40
2	Zn 213.857†	22554.6	21958.5	585.64 µg/L	585.64 ppb	20:59:40
3	Sc RADIAL	105628.4	105628.4	96.7 %		20:58:27
3	Al 396.153Radial†	15406.6	16102.5	7706.4 µg/L	7706.4 ppb	20:58:27
3	Ca 317.933Radial†	17603.5	17815.3	5777.9 µg/L	5777.9 ppb	20:58:27
3	Fe 238.204 Radial†	10307.0	10624.3	79971 µg/L	79971 ppb	20:58:48
3	K 766.490 Radial†	9271.1	9353.9	5308.5 µg/L	5308.5 ppb	20:58:27
3	Mg 279.077 IEC†	625.7	638.1	6285.1 µg/L	6285.1 ppb	20:58:48
3	Na 589.592 Radial†	4670.4	4593.1	1590.3 µg/L	1590.3 ppb	20:58:27
3	Sr 421.552†	4763.6	4769.8	21.602 µg/L	21.602 ppb	20:58:27
3	Sc 361.383	1682653.3	1682653.3	99.999 %		21:00:08
3	Y 371.029	1014204.2	1014204.2	108.34 %		21:00:08
3	Ag 328.068†	-1563.0	-997.1	1.6607 µg/L	1.6607 ppb	21:00:13
3	As 188.979†	-14.1	-10.3	-14.669 µg/L	-14.669 ppb	21:00:34
3	B 249.677†	718.4	559.7	-11.990 µg/L	-11.990 ppb	21:00:13
3	Ba 233.527†	6062.9	6080.8	156.78 µg/L	156.78 ppb	21:00:13
3	Be 313.107†	7581.8	9527.7	5.1115 µg/L	5.1115 ppb	21:00:13
3	Cd 226.502†	257.7	401.9	2.7448 µg/L	2.7448 ppb	21:00:34
3	Co 228.616†	293.1	270.9	4.6994 µg/L	4.6994 ppb	21:00:34
3	Cr 267.716†	1288.3	1198.1	31.004 µg/L	31.004 ppb	21:00:34
3	Cu 324.752†	3228.8	605.8	19.377 µg/L	19.377 ppb	21:00:13
3	Mn 257.610†	869704.6	870257.6	3177.7 µg/L	3177.7 ppb	21:00:08
3	Mo 202.031†	53.6	49.2	8.6647 µg/L	8.6647 ppb	21:00:34
3	Ni 231.604†	537.4	238.7	17.578 µg/L	17.578 ppb	21:00:34
3	P 214.914†	663.2	421.7	845.33 µg/L	845.33 ppb	21:00:34
3	Pb 220.353†	194.2	151.3	45.279 µg/L	45.279 ppb	21:00:34
3	S 181.975 Axial†	23.8	3.1	11.815 µg/L	11.815 ppb	21:00:34
3	Sb 206.836†	4.9	-16.1	-17.574 µg/L	-17.574 ppb	21:00:34
3	Se 196.026†	-39.3	-52.6	193.92 µg/L	193.92 ppb	21:00:34
3	SiO2†	62646.2	61263.6	13369 µg/L	13369 ppb	21:00:13
3	Si 251.611†	76607.8	76244.6	6232.7 µg/L	6232.7 ppb	21:00:13
3	Sn 189.927†	-30.0	-34.6	-20.859 µg/L	-20.859 ppb	21:00:34
3	Ti 334.940†	1680789.1	1680814.1	4483.6 µg/L	4483.6 ppb	21:00:08
3	Tl 190.801†	-73.8	-48.2	5.8424 µg/L	5.8424 ppb	21:00:34
3	U 409.014†	-2232.4	-2383.2	-244.94 µg/L	-244.94 ppb	21:00:08
3	V 292.402†	2572.7	2724.7	37.337 µg/L	37.337 ppb	21:00:13
3	Zn 213.857†	22355.2	21775.1	580.72 µg/L	580.72 ppb	21:00:13

## Mean Data: 246679006|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1680143.4	99.850 %	0.3218			0.32%
Sc RADIAL	106414.5	97.4 %	0.80			0.82%
Y 371.029	1011753.1	108.08 %	0.608			0.56%
Ag 328.068†	-1000.8	1.6028 µg/L	0.44982	1.6028 ppb	0.44982	28.06%
Al 396.153Radial†	16071.8	7691.7 µg/L	105.39	7691.7 ppb	105.39	1.37%
As 188.979†	-9.5	-13.124 µg/L	5.6689	-13.124 ppb	5.6689	43.20%
B 249.677†	587.7	-10.379 µg/L	1.5000	-10.379 ppb	1.5000	14.45%
Ba 233.527†	6152.6	158.63 µg/L	1.710	158.63 ppb	1.710	1.08%
Be 313.107†	9636.6	5.1735 µg/L	0.05367	5.1735 ppb	0.05367	1.04%
Ca 317.933Radial†	17839.4	5785.8 µg/L	54.74	5785.8 ppb	54.74	0.95%
Cd 226.502†	425.2	3.4526 µg/L	0.64731	3.4526 ppb	0.64731	18.75%
Co 228.616†	295.1	5.8712 µg/L	1.01504	5.8712 ppb	1.01504	17.29%
Cr 267.716†	1273.2	32.946 µg/L	1.6976	32.946 ppb	1.6976	5.15%
Cu 324.752†	630.9	19.513 µg/L	0.2046	19.513 ppb	0.2046	1.05%
Fe 238.204 Radial†	10593.0	79736 µg/L	399.5	79736 ppb	399.5	0.50%
K 766.490 Radial†	9311.1	5284.2 µg/L	51.91	5284.2 ppb	51.91	0.98%
Mg 279.077 IEC†	636.6	6270.6 µg/L	22.34	6270.6 ppb	22.34	0.36%
Mn 257.610†	877514.3	3204.2 µg/L	24.92	3204.2 ppb	24.92	0.78%
Mo 202.031†	49.9	8.7325 µg/L	0.31500	8.7325 ppb	0.31500	3.61%
Na 589.592 Radial†	4579.1	1585.5 µg/L	22.99	1585.5 ppb	22.99	1.45%

Ni 231.604†	252.1	18.499 µg/L	0.8099	18.499 ppb	0.8099	4.38%
P 214.914†	440.4	885.65 µg/L	37.695	885.65 ppb	37.695	4.26%
Pb 220.353†	153.1	45.866 µg/L	1.4343	45.866 ppb	1.4343	3.13%
S 181.975 Axial†	-0.3	-1.2529 µg/L	13.89924	-1.2529 ppb	13.89924	>999.9%
Sb 206.836†	-15.0	-16.382 µg/L	2.7820	-16.382 ppb	2.7820	16.98%
Se 196.026†	-60.4	183.55 µg/L	9.008	183.55 ppb	9.008	4.91%
SiO2†	61607.5	13444 µg/L	114.8	13444 ppb	114.8	0.85%
Si 251.611†	76723.3	6271.9 µg/L	57.14	6271.9 ppb	57.14	0.91%
Sn 189.927†	-35.8	-21.445 µg/L	2.8279	-21.445 ppb	2.8279	13.19%
Sr 421.552†	4755.5	21.537 µg/L	0.3326	21.537 ppb	0.3326	1.54%
Ti 334.940†	1696578.6	4525.7 µg/L	43.94	4525.7 ppb	43.94	0.97%
Tl 190.801†	-47.7	6.8452 µg/L	3.13916	6.8452 ppb	3.13916	45.86%
U 409.014†	-2385.2	-245.11 µg/L	1.055	-245.11 ppb	1.055	0.43%
V 292.402†	2783.4	38.077 µg/L	0.6456	38.077 ppb	0.6456	1.70%
Zn 213.857†	21960.2	585.70 µg/L	5.011	585.70 ppb	5.011	0.86%

Sequence No.: 52

Sample ID: 246679007|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 342

Date Collected: 2/26/2010 21:00:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679007|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	106839.0	106839.0	97.8 %			21:01:16
1	Al 396.153Radial†	29877.6	30713.0	14699 µg/L		14699 ppb	21:01:16
1	Ca 317.933Radial†	20189.7	20252.5	6568.4 µg/L		6568.4 ppb	21:01:16
1	Fe 238.204 Radial†	8103.5	8251.3	62109 µg/L		62109 ppb	21:01:16
1	K 766.490 Radial†	6297.8	6206.3	3522.2 µg/L		3522.2 ppb	21:01:16
1	Mg 279.077 IEC†	316.0	314.2	3070.6 µg/L		3070.6 ppb	21:01:36
1	Na 589.592 Radial†	4280.0	4139.4	1433.2 µg/L		1433.2 ppb	21:01:16
1	Sr 421.552†	5451.4	5417.0	24.533 µg/L		24.533 ppb	21:01:16
1	Sc 361.383	1690395.8	1690395.8	100.46 %			21:02:40
1	Y 371.029	1036964.9	1036964.9	110.77 %			21:02:40
1	Ag 328.068†	-1404.4	-832.1	0.7968 µg/L		0.7968 ppb	21:02:46
1	As 188.979†	-6.2	-2.3	-0.9562 µg/L		-0.9562 ppb	21:03:06
1	B 249.677†	667.3	505.6	-5.1868 µg/L		-5.1868 ppb	21:02:46
1	Ba 233.527†	6422.0	6410.6	165.27 µg/L		165.27 ppb	21:02:46
1	Be 313.107†	24633.6	26466.9	18.007 µg/L		18.007 ppb	21:02:46
1	Cd 226.502†	153.1	296.6	1.6848 µg/L		1.6848 ppb	21:03:06
1	Co 228.616†	246.4	223.1	6.4441 µg/L		6.4441 ppb	21:03:06
1	Cr 267.716†	9881.8	9746.4	252.05 µg/L		252.05 ppb	21:02:46
1	Cu 324.752†	4652.8	2008.5	26.074 µg/L		26.074 ppb	21:02:46
1	Mn 257.610†	691545.2	688928.8	2515.7 µg/L		2515.7 ppb	21:02:40
1	Mo 202.031†	95.5	90.7	12.731 µg/L		12.731 ppb	21:03:06
1	Ni 231.604†	588.9	287.5	20.732 µg/L		20.732 ppb	21:03:06
1	P 214.914†	431.0	187.6	356.29 µg/L		356.29 ppb	21:03:06
1	Pb 220.353†	169.1	125.5	38.209 µg/L		38.209 ppb	21:03:06
1	S 181.975 Axial†	18.4	-2.4	-9.0202 µg/L		-9.0202 ppb	21:03:06
1	Sb 206.836†	15.4	-5.7	-8.8761 µg/L		-8.8761 ppb	21:03:06
1	Se 196.026†	-35.3	-48.5	142.36 µg/L		142.36 ppb	21:03:06
1	SiO2†	88315.7	86528.9	18883 µg/L		18883 ppb	21:02:46
1	Si 251.611†	108759.1	107898.0	8820.3 µg/L		8820.3 ppb	21:02:46
1	Sn 189.927†	-13.5	-18.0	-12.259 µg/L		-12.259 ppb	21:03:06
1	Ti 334.940†	927042.7	922814.0	2461.7 µg/L		2461.7 ppb	21:02:40
1	Tl 190.801†	-57.0	-31.1	2.9371 µg/L		2.9371 ppb	21:03:06
1	U 409.014†	-2238.4	-2379.0	-242.10 µg/L		-242.10 ppb	21:02:40
1	V 292.402†	2241.0	2382.7	32.894 µg/L		32.894 ppb	21:02:46
1	Zn 213.857†	16102.6	15448.8	411.77 µg/L		411.77 ppb	21:02:46
2	Sc RADIAL	106668.5	106668.5	97.7 %			21:01:42
2	Al 396.153Radial†	30318.0	31212.6	14938 µg/L		14938 ppb	21:01:42
2	Ca 317.933Radial†	20594.2	20699.5	6713.4 µg/L		6713.4 ppb	21:01:42
2	Fe 238.204 Radial†	8272.0	8437.1	63507 µg/L		63507 ppb	21:01:42
2	K 766.490 Radial†	6386.4	6307.3	3579.5 µg/L		3579.5 ppb	21:01:42
2	Mg 279.077 IEC†	308.7	307.2	2999.7 µg/L		2999.7 ppb	21:02:02
2	Na 589.592 Radial†	4376.1	4244.7	1469.7 µg/L		1469.7 ppb	21:01:42
2	Sr 421.552†	5470.8	5445.7	24.663 µg/L		24.663 ppb	21:01:42
2	Sc 361.383	1715133.6	1715133.6	101.93 %			21:03:14
2	Y 371.029	1046452.5	1046452.5	111.79 %			21:03:14
2	Ag 328.068†	-1371.2	-779.4	1.4501 µg/L		1.4501 ppb	21:03:19
2	As 188.979†	-5.9	-1.9	-0.1890 µg/L		-0.1890 ppb	21:03:40
2	B 249.677†	677.7	506.2	-5.9002 µg/L		-5.9002 ppb	21:03:19
2	Ba 233.527†	6348.0	6245.8	161.02 µg/L		161.02 ppb	21:03:19
2	Be 313.107†	24364.6	25849.3	17.593 µg/L		17.593 ppb	21:03:19
2	Cd 226.502†	166.4	307.5	1.8429 µg/L		1.8429 ppb	21:03:40
2	Co 228.616†	255.6	228.6	6.8829 µg/L		6.8829 ppb	21:03:40
2	Cr 267.716†	9664.2	9391.1	242.86 µg/L		242.86 ppb	21:03:19
2	Cu 324.752†	4664.2	1952.8	25.938 µg/L		25.938 ppb	21:03:19
2	Mn 257.610†	681244.3	668894.2	2442.7 µg/L		2442.7 ppb	21:03:14
2	Mo 202.031†	93.8	87.7	12.432 µg/L		12.432 ppb	21:03:40
2	Ni 231.604†	593.1	283.2	20.451 µg/L		20.451 ppb	21:03:40
2	P 214.914†	438.6	188.8	357.93 µg/L		357.93 ppb	21:03:40
2	Pb 220.353†	157.7	111.8	33.865 µg/L		33.865 ppb	21:03:40

2	S 181.975 Axial†	19.6	-1.4	-5.4078 µg/L	-5.4078 ppb	21:03:40
2	Sb 206.836†	18.9	-2.5	-5.3414 µg/L	-5.3414 ppb	21:03:40
2	Se 196.026†	-30.3	-43.0	153.74 µg/L	153.74 ppb	21:03:40
2	SiO2†	87529.7	84489.8	18438 µg/L	18438 ppb	21:03:19
2	Si 251.611†	107694.4	105292.0	8607.2 µg/L	8607.2 ppb	21:03:19
2	Sn 189.927†	-9.7	-14.1	-10.518 µg/L	-10.518 ppb	21:03:40
2	Ti 334.940†	912458.6	895196.1	2388.0 µg/L	2388.0 ppb	21:03:14
2	Tl 190.801†	-53.3	-26.7	7.2952 µg/L	7.2952 ppb	21:03:40
2	U 409.014†	-2219.0	-2327.8	-237.28 µg/L	-237.28 ppb	21:03:14
2	V 292.402†	2291.3	2399.9	33.144 µg/L	33.144 ppb	21:03:19
2	Zn 213.857†	15960.7	15078.4	401.76 µg/L	401.76 ppb	21:03:19
3	Sc RADIAL	106436.8	106436.8	97.5 %		21:02:08
3	Al 396.153Radial†	30037.1	30992.0	14832 µg/L	14832 ppb	21:02:08
3	Ca 317.933Radial†	20413.0	20559.5	6668.0 µg/L	6668.0 ppb	21:02:08
3	Fe 238.204 Radial†	8232.8	8415.3	63344 µg/L	63344 ppb	21:02:08
3	K 766.490 Radial†	6417.0	6352.9	3605.4 µg/L	3605.4 ppb	21:02:08
3	Mg 279.077 IEC†	311.6	310.9	3036.9 µg/L	3036.9 ppb	21:02:28
3	Na 589.592 Radial†	4328.5	4205.6	1456.1 µg/L	1456.1 ppb	21:02:08
3	Sr 421.552†	5464.4	5451.3	24.689 µg/L	24.689 ppb	21:02:08
3	Sc 361.383	1716325.0	1716325.0	102.00 %		21:03:47
3	Y 371.029	1043108.8	1043108.8	111.43 %		21:03:47
3	Ag 328.068†	-1405.0	-811.5	1.1308 µg/L	1.1308 ppb	21:03:53
3	As 188.979†	-4.9	-1.0	1.4689 µg/L	1.4689 ppb	21:04:13
3	B 249.677†	669.6	497.8	-6.2621 µg/L	-6.2621 ppb	21:03:53
3	Ba 233.527†	6271.8	6166.7	158.98 µg/L	158.98 ppb	21:03:53
3	Be 313.107†	23905.6	25382.7	17.269 µg/L	17.269 ppb	21:03:53
3	Cd 226.502†	149.8	291.1	1.3815 µg/L	1.3815 ppb	21:04:13
3	Co 228.616†	224.7	198.0	5.3521 µg/L	5.3521 ppb	21:04:13
3	Cr 267.716†	9624.9	9346.0	241.69 µg/L	241.69 ppb	21:03:53
3	Cu 324.752†	4641.2	1927.2	25.723 µg/L	25.723 ppb	21:03:53
3	Mn 257.610†	674632.5	661948.1	2417.4 µg/L	2417.4 ppb	21:03:47
3	Mo 202.031†	88.3	82.2	11.801 µg/L	11.801 ppb	21:04:13
3	Ni 231.604†	579.7	269.6	19.510 µg/L	19.510 ppb	21:04:13
3	P 214.914†	431.7	181.8	342.89 µg/L	342.89 ppb	21:04:13
3	Pb 220.353†	152.2	106.4	32.156 µg/L	32.156 ppb	21:04:13
3	S 181.975 Axial†	21.2	0.1	0.4752 µg/L	0.4752 ppb	21:04:13
3	Sb 206.836†	12.2	-9.0	-12.310 µg/L	-12.310 ppb	21:04:13
3	Se 196.026†	-33.3	-45.9	149.56 µg/L	149.56 ppb	21:04:13
3	SiO2†	86758.8	83674.4	18260 µg/L	18260 ppb	21:03:53
3	Si 251.611†	106699.5	104243.3	8521.5 µg/L	8521.5 ppb	21:03:53
3	Sn 189.927†	-16.8	-21.0	-13.758 µg/L	-13.758 ppb	21:04:13
3	Ti 334.940†	903106.4	885405.8	2361.9 µg/L	2361.9 ppb	21:03:47
3	Tl 190.801†	-51.5	-24.9	9.1225 µg/L	9.1225 ppb	21:04:13
3	U 409.014†	-2254.6	-2361.2	-240.53 µg/L	-240.53 ppb	21:03:47
3	V 292.402†	2159.5	2269.1	31.470 µg/L	31.470 ppb	21:03:53
3	Zn 213.857†	15797.9	14907.9	397.19 µg/L	397.19 ppb	21:03:53

Mean Data: 246679007|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707284.8	101.46 %	0.870			0.86%
Sc RADIAL	106648.1	97.7 %	0.18			0.19%
Y 371.029	1042175.4	111.33 %	0.514			0.46%
Ag 328.068†	-807.7	1.1259 µg/L	0.32666	1.1259 ppb	0.32666	29.01%
Al 396.153Radial†	30972.5	14823 µg/L	119.8	14823 ppb	119.8	0.81%
As 188.979†	-1.7	0.1079 µg/L	1.23952	0.1079 ppb	1.23952	>999.9%
B 249.677†	503.2	-5.7830 µg/L	0.54716	-5.7830 ppb	0.54716	9.46%
Ba 233.527†	6274.3	161.76 µg/L	3.207	161.76 ppb	3.207	1.98%
Be 313.107†	25899.6	17.623 µg/L	0.3699	17.623 ppb	0.3699	2.10%
Ca 317.933Radial†	20503.8	6649.9 µg/L	74.17	6649.9 ppb	74.17	1.12%
Cd 226.502†	298.4	1.6364 µg/L	0.23449	1.6364 ppb	0.23449	14.33%
Co 228.616†	216.5	6.2264 µg/L	0.78830	6.2264 ppb	0.78830	12.66%
Cr 267.716†	9494.5	245.54 µg/L	5.672	245.54 ppb	5.672	2.31%
Cu 324.752†	1962.8	25.912 µg/L	0.1769	25.912 ppb	0.1769	0.68%
Fe 238.204 Radial†	8367.9	62987 µg/L	764.5	62987 ppb	764.5	1.21%
K 766.490 Radial†	6288.8	3569.0 µg/L	42.58	3569.0 ppb	42.58	1.19%
Mg 279.077 IEC†	310.8	3035.7 µg/L	35.49	3035.7 ppb	35.49	1.17%
Mn 257.610†	673257.0	2458.6 µg/L	51.04	2458.6 ppb	51.04	2.08%
Mo 202.031†	86.9	12.321 µg/L	0.4748	12.321 ppb	0.4748	3.85%
Na 589.592 Radial†	4196.5	1453.0 µg/L	18.44	1453.0 ppb	18.44	1.27%

Ni 231.604†	280.1	20.231 µg/L	0.6402	20.231 ppb	0.6402	3.16%
P 214.914†	186.0	352.37 µg/L	8.249	352.37 ppb	8.249	2.34%
Pb 220.353†	114.6	34.743 µg/L	3.1210	34.743 ppb	3.1210	8.98%
S 181.975 Axial†	-1.2	-4.6510 µg/L	4.79274	-4.6510 ppb	4.79274	103.05%
Sb 206.836†	-5.7	-8.8425 µg/L	3.48436	-8.8425 ppb	3.48436	39.40%
Se 196.026†	-45.8	148.55 µg/L	5.760	148.55 ppb	5.760	3.88%
SiO2†	84897.7	18527 µg/L	320.9	18527 ppb	320.9	1.73%
Si 251.611†	105811.1	8649.7 µg/L	153.84	8649.7 ppb	153.84	1.78%
Sn 189.927†	-17.7	-12.178 µg/L	1.6214	-12.178 ppb	1.6214	13.31%
Sr 421.552†	5438.0	24.628 µg/L	0.0834	24.628 ppb	0.0834	0.34%
Ti 334.940†	901138.6	2403.9 µg/L	51.75	2403.9 ppb	51.75	2.15%
Tl 190.801†	-27.6	6.4516 µg/L	3.17783	6.4516 ppb	3.17783	49.26%
U 409.014†	-2356.0	-239.97 µg/L	2.456	-239.97 ppb	2.456	1.02%
V 292.402†	2350.6	32.503 µg/L	0.9031	32.503 ppb	0.9031	2.78%
Zn 213.857†	15145.0	403.58 µg/L	7.457	403.58 ppb	7.457	1.85%



Sequence No.: 53

Sample ID: 246679008|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 343

Date Collected: 2/26/2010 21:04:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679008|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	107479.8	107479.8	98.4 %		21:04:55
1	Al 396.153Radial†	81016.9	82488.9	39478 µg/L	39478 ppb	21:04:55
1	Ca 317.933Radial†	35870.7	36061.4	11696 µg/L	11696 ppb	21:04:55
1	Fe 238.204 Radial†	9825.0	9951.0	74903 µg/L	74903 ppb	21:05:16
1	K 766.490 Radial†	10269.4	10203.1	5790.4 µg/L	5790.4 ppb	21:04:55
1	Mg 279.077 IEC†	771.1	774.7	7654.4 µg/L	7654.4 ppb	21:05:16
1	Na 589.592 Radial†	1854.7	1649.1	570.98 µg/L	570.98 ppb	21:04:55
1	Sr 421.552†	13887.6	13955.0	63.201 µg/L	63.201 ppb	21:04:55
1	Sc 361.383	1715643.6	1715643.6	101.96 %		21:06:20
1	Y 371.029	1051500.8	1051500.8	112.33 %		21:06:20
1	Ag 328.068†	-1543.2	-947.6	1.5784 µg/L	1.5784 ppb	21:06:26
1	As 188.979†	0.6	4.4	11.916 µg/L	11.916 ppb	21:06:46
1	B 249.677†	873.6	698.1	-1.9796 µg/L	-1.9796 ppb	21:06:26
1	Ba 233.527†	8410.0	8266.3	213.14 µg/L	213.14 ppb	21:06:26
1	Be 313.107†	30393.2	31754.9	21.890 µg/L	21.890 ppb	21:06:26
1	Cd 226.502†	241.7	381.3	2.7172 µg/L	2.7172 ppb	21:06:46
1	Co 228.616†	290.5	262.7	9.0286 µg/L	9.0286 ppb	21:06:46
1	Cr 267.716†	1940.3	1812.9	46.913 µg/L	46.913 ppb	21:06:46
1	Cu 324.752†	4809.6	2094.1	29.093 µg/L	29.093 ppb	21:06:26
1	Mn 257.610†	825564.8	810242.3	2958.5 µg/L	2958.5 ppb	21:06:20
1	Mo 202.031†	45.3	40.1	7.4317 µg/L	7.4317 ppb	21:06:46
1	Ni 231.604†	608.1	297.8	21.607 µg/L	21.607 ppb	21:06:46
1	P 214.914†	511.6	260.3	509.66 µg/L	509.66 ppb	21:06:46
1	Pb 220.353†	196.3	149.6	46.732 µg/L	46.732 ppb	21:06:46
1	S 181.975 Axial†	26.2	5.0	18.978 µg/L	18.978 ppb	21:06:46
1	Sb 206.836†	13.9	-7.4	-8.4769 µg/L	-8.4769 ppb	21:06:46
1	Se 196.026†	-37.1	-49.7	179.56 µg/L	179.56 ppb	21:06:46
1	SiO2†	176839.4	172057.5	37548 µg/L	37548 ppb	21:06:20
1	Si 251.611†	218372.7	213811.7	17478 µg/L	17478 ppb	21:06:20
1	Sn 189.927†	-8.5	-12.9	-10.081 µg/L	-10.081 ppb	21:06:46
1	Ti 334.940†	842988.0	826794.6	2205.3 µg/L	2205.3 ppb	21:06:20
1	Tl 190.801†	-55.5	-28.8	6.5830 µg/L	6.5830 ppb	21:06:46
1	U 409.014†	-2898.3	-2993.5	-304.38 µg/L	-304.38 ppb	21:06:20
1	V 292.402†	4217.9	4288.7	56.938 µg/L	56.938 ppb	21:06:26
1	Zn 213.857†	19918.0	18955.0	505.09 µg/L	505.09 ppb	21:06:26
2	Sc RADIAL	107188.9	107188.9	98.2 %		21:05:21
2	Al 396.153Radial†	81118.4	82815.7	39635 µg/L	39635 ppb	21:05:21
2	Ca 317.933Radial†	35825.0	36113.8	11713 µg/L	11713 ppb	21:05:21
2	Fe 238.204 Radial†	9819.9	9972.9	75068 µg/L	75068 ppb	21:05:42
2	K 766.490 Radial†	10112.4	10071.4	5715.7 µg/L	5715.7 ppb	21:05:21
2	Mg 279.077 IEC†	771.7	777.4	7681.6 µg/L	7681.6 ppb	21:05:42
2	Na 589.592 Radial†	1800.6	1599.1	553.67 µg/L	553.67 ppb	21:05:21
2	Sr 421.552†	13893.5	13999.2	63.402 µg/L	63.402 ppb	21:05:21
2	Sc 361.383	1715422.6	1715422.6	101.95 %		21:06:54
2	Y 371.029	1056226.2	1056226.2	112.83 %		21:06:54
2	Ag 328.068†	-1594.2	-997.9	1.1518 µg/L	1.1518 ppb	21:07:00
2	As 188.979†	-4.8	-0.8	2.1833 µg/L	2.1833 ppb	21:07:21
2	B 249.677†	880.3	704.8	-1.7107 µg/L	-1.7107 ppb	21:07:00
2	Ba 233.527†	8391.9	8249.6	212.71 µg/L	212.71 ppb	21:07:00
2	Be 313.107†	30414.9	31780.0	21.907 µg/L	21.907 ppb	21:07:00
2	Cd 226.502†	248.4	387.9	2.8919 µg/L	2.8919 ppb	21:07:21
2	Co 228.616†	287.6	259.9	8.8788 µg/L	8.8788 ppb	21:07:21
2	Cr 267.716†	1948.0	1820.6	47.113 µg/L	47.113 ppb	21:07:21
2	Cu 324.752†	4749.9	2036.1	28.709 µg/L	28.709 ppb	21:07:00
2	Mn 257.610†	827055.3	811808.7	2964.2 µg/L	2964.2 ppb	21:06:54
2	Mo 202.031†	38.3	33.3	6.6549 µg/L	6.6549 ppb	21:07:21
2	Ni 231.604†	607.0	296.7	21.536 µg/L	21.536 ppb	21:07:21
2	P 214.914†	515.6	264.3	518.23 µg/L	518.23 ppb	21:07:21
2	Pb 220.353†	185.2	138.8	43.325 µg/L	43.325 ppb	21:07:21

2	S 181.975 Axial†	17.6	-3.4	-13.046 µg/L	-13.046 ppb	21:07:21
2	Sb 206.836†	21.5	0.1	-0.5417 µg/L	-0.5417 ppb	21:07:21
2	Se 196.026†	-50.5	-62.9	163.85 µg/L	163.85 ppb	21:07:21
2	SiO2†	176802.5	172043.7	37545 µg/L	37545 ppb	21:06:54
2	Si 251.611†	218308.8	213776.6	17475 µg/L	17475 ppb	21:06:54
2	Sn 189.927†	-20.5	-24.6	-15.618 µg/L	-15.618 ppb	21:07:21
2	Ti 334.940†	843751.1	827649.6	2207.6 µg/L	2207.6 ppb	21:06:54
2	Tl 190.801†	-49.0	-22.5	14.003 µg/L	14.003 ppb	21:07:21
2	U 409.014†	-2957.1	-3051.5	-310.09 µg/L	-310.09 ppb	21:06:54
2	V 292.402†	4228.4	4299.6	57.070 µg/L	57.070 ppb	21:07:00
2	Zn 213.857†	19865.8	18906.2	503.77 µg/L	503.77 ppb	21:07:00
3	Sc RADIAL	106730.7	106730.7	97.7 %		21:05:47
3	Al 396.153Radial†	80221.4	82252.7	39365 µg/L	39365 ppb	21:05:47
3	Ca 317.933Radial†	35413.7	35849.7	11627 µg/L	11627 ppb	21:05:47
3	Fe 238.204 Radial†	9856.2	10053.0	75671 µg/L	75671 ppb	21:06:08
3	K 766.490 Radial†	9982.4	9982.7	5665.4 µg/L	5665.4 ppb	21:05:47
3	Mg 279.077 IEC†	775.4	784.6	7752.7 µg/L	7752.7 ppb	21:06:08
3	Na 589.592 Radial†	1840.7	1648.0	570.60 µg/L	570.60 ppb	21:05:47
3	Sr 421.552†	13744.8	13907.8	62.988 µg/L	62.988 ppb	21:05:47
3	Sc 361.383	1722422.5	1722422.5	102.36 %		21:07:28
3	Y 371.029	1053184.7	1053184.7	112.51 %		21:07:28
3	Ag 328.068†	-1533.7	-932.4	1.8030 µg/L	1.8030 ppb	21:07:34
3	As 188.979†	-3.6	0.3	4.3961 µg/L	4.3961 ppb	21:07:54
3	B 249.677†	839.4	661.4	-4.3355 µg/L	-4.3355 ppb	21:07:34
3	Ba 233.527†	8147.2	7977.1	205.69 µg/L	205.69 ppb	21:07:34
3	Be 313.107†	29252.6	30523.3	21.024 µg/L	21.024 ppb	21:07:34
3	Cd 226.502†	220.5	359.6	1.9955 µg/L	1.9955 ppb	21:07:54
3	Co 228.616†	271.2	242.7	8.0817 µg/L	8.0817 ppb	21:07:54
3	Cr 267.716†	1791.8	1660.3	42.967 µg/L	42.967 ppb	21:07:54
3	Cu 324.752†	4759.4	2026.5	28.753 µg/L	28.753 ppb	21:07:34
3	Mn 257.610†	814090.6	795846.2	2906.0 µg/L	2906.0 ppb	21:07:28
3	Mo 202.031†	45.4	40.0	7.4451 µg/L	7.4451 ppb	21:07:54
3	Ni 231.604†	587.7	275.5	20.070 µg/L	20.070 ppb	21:07:54
3	P 214.914†	494.3	241.4	468.44 µg/L	468.44 ppb	21:07:54
3	Pb 220.353†	180.4	133.4	41.596 µg/L	41.596 ppb	21:07:54
3	S 181.975 Axial†	20.1	-1.1	-4.0869 µg/L	-4.0869 ppb	21:07:54
3	Sb 206.836†	11.6	-9.7	-10.958 µg/L	-10.958 ppb	21:07:54
3	Se 196.026†	-32.5	-45.1	187.68 µg/L	187.68 ppb	21:07:54
3	SiO2†	175232.5	169805.1	37056 µg/L	37056 ppb	21:07:28
3	Si 251.611†	216519.9	211158.8	17261 µg/L	17261 ppb	21:07:28
3	Sn 189.927†	-12.6	-16.9	-12.003 µg/L	-12.003 ppb	21:07:54
3	Ti 334.940†	830255.8	811102.2	2163.4 µg/L	2163.4 ppb	21:07:28
3	Tl 190.801†	-50.9	-24.2	11.555 µg/L	11.555 ppb	21:07:54
3	U 409.014†	-2989.1	-3070.9	-312.07 µg/L	-312.07 ppb	21:07:28
3	V 292.402†	4097.9	4155.3	55.258 µg/L	55.258 ppb	21:07:34
3	Zn 213.857†	19303.0	18277.3	486.85 µg/L	486.85 ppb	21:07:34

Mean Data: 246679008|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1717829.6	102.09 %	0.236			0.23%
Sc RADIAL	107133.1	98.1 %	0.35			0.35%
Y 371.029	1053637.3	112.55 %	0.256			0.23%
Ag 328.068†	-959.3	1.5111 µg/L	0.33078	1.5111 ppb	0.33078	21.89%
Al 396.153Radial†	82519.1	39493 µg/L	135.3	39493 ppb	135.3	0.34%
As 188.979†	1.3	6.1653 µg/L	5.10207	6.1653 ppb	5.10207	82.75%
B 249.677†	688.1	-2.6753 µg/L	1.44403	-2.6753 ppb	1.44403	53.98%
Ba 233.527†	8164.3	210.51 µg/L	4.186	210.51 ppb	4.186	1.99%
Be 313.107†	31352.7	21.607 µg/L	0.5048	21.607 ppb	0.5048	2.34%
Ca 317.933Radial†	36008.3	11678 µg/L	45.4	11678 ppb	45.4	0.39%
Cd 226.502†	376.3	2.5349 µg/L	0.47517	2.5349 ppb	0.47517	18.75%
Co 228.616†	255.1	8.6630 µg/L	0.50901	8.6630 ppb	0.50901	5.88%
Cr 267.716†	1764.6	45.664 µg/L	2.3380	45.664 ppb	2.3380	5.12%
Cu 324.752†	2052.2	28.851 µg/L	0.2104	28.851 ppb	0.2104	0.73%
Fe 238.204 Radial†	9992.3	75214 µg/L	404.1	75214 ppb	404.1	0.54%
K 766.490 Radial†	10085.7	5723.8 µg/L	62.93	5723.8 ppb	62.93	1.10%
Mg 279.077 IEC†	778.9	7696.3 µg/L	50.73	7696.3 ppb	50.73	0.66%
Mn 257.610†	805965.7	2942.9 µg/L	32.07	2942.9 ppb	32.07	1.09%
Mo 202.031†	37.8	7.1773 µg/L	0.45238	7.1773 ppb	0.45238	6.30%
Na 589.592 Radial†	1632.0	565.08 µg/L	9.888	565.08 ppb	9.888	1.75%

Ni 231.604†	290.0	21.071 µg/L	0.8678	21.071 ppb	0.8678	4.12%
P 214.914†	255.3	498.77 µg/L	26.620	498.77 ppb	26.620	5.34%
Pb 220.353†	140.6	43.884 µg/L	2.6135	43.884 ppb	2.6135	5.96%
S 181.975 Axial†	0.2	0.6152 µg/L	16.52192	0.6152 ppb	16.52192	>999.9%
Sb 206.836†	-5.7	-6.6589 µg/L	5.44097	-6.6589 ppb	5.44097	81.71%
Se 196.026†	-52.5	177.03 µg/L	12.115	177.03 ppb	12.115	6.84%
SiO2†	171302.1	37383 µg/L	282.9	37383 ppb	282.9	0.76%
Si 251.611†	212915.7	17405 µg/L	124.4	17405 ppb	124.4	0.71%
Sn 189.927†	-18.1	-12.567 µg/L	2.8113	-12.567 ppb	2.8113	22.37%
Sr 421.552†	13954.0	63.197 µg/L	0.2069	63.197 ppb	0.2069	0.33%
Ti 334.940†	821848.8	2192.1 µg/L	24.86	2192.1 ppb	24.86	1.13%
Tl 190.801†	-25.2	10.713 µg/L	3.7806	10.713 ppb	3.7806	35.29%
U 409.014†	-3038.6	-308.85 µg/L	3.994	-308.85 ppb	3.994	1.29%
V 292.402†	4247.9	56.422 µg/L	1.0103	56.422 ppb	1.0103	1.79%
Zn 213.857†	18712.8	498.57 µg/L	10.172	498.57 ppb	10.172	2.04%

Sequence No.: 54

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/26/2010 21:08:03

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	107720.9	107720.9	98.6 %		21:08:41
1	Al 396.153Radial†	10205.0	10520.1	5023.9 µg/L	5023.9 ppb	21:08:41
1	Ca 317.933Radial†	16069.4	15906.5	5158.9 µg/L	5158.9 ppb	21:08:41
1	Fe 238.204 Radial†	679.8	657.9	4963.1 µg/L	4963.1 ppb	21:09:02
1	K 766.490 Radial†	9340.8	9238.3	5242.9 µg/L	5242.9 ppb	21:08:41
1	Mg 279.077 IEC†	514.7	513.0	5126.1 µg/L	5126.1 ppb	21:09:02
1	Na 589.592 Radial†	26846.8	26980.4	9341.7 µg/L	9341.7 ppb	21:08:41
1	Sr 421.552†	107771.4	109096.8	494.09 µg/L	494.09 ppb	21:08:41
1	Sc 361.383	1700702.6	1700702.6	101.07 %		21:10:06
1	Y 371.029	945152.2	945152.2	100.96 %		21:10:06
1	Ag 328.068†	56507.2	56473.9	508.52 µg/L	508.52 ppb	21:10:11
1	As 188.979†	288.0	288.8	531.65 µg/L	531.65 ppb	21:10:32
1	B 249.677†	9841.2	9578.2	506.29 µg/L	506.29 ppb	21:10:11
1	Ba 233.527†	20344.4	20146.6	520.16 µg/L	520.16 ppb	21:10:11
1	Be 313.107†	729751.6	723959.9	518.02 µg/L	518.02 ppb	21:10:06
1	Cd 226.502†	18059.6	18012.4	527.22 µg/L	527.22 ppb	21:10:11
1	Co 228.616†	10252.5	10121.6	524.54 µg/L	524.54 ppb	21:10:11
1	Cr 267.716†	20606.4	20297.7	525.20 µg/L	525.20 ppb	21:10:11
1	Cu 324.752†	74053.3	70645.1	507.34 µg/L	507.34 ppb	21:10:11
1	Mn 257.610†	145644.8	144644.8	527.40 µg/L	527.40 ppb	21:10:06
1	Mo 202.031†	4717.0	4662.7	533.13 µg/L	533.13 ppb	21:10:32
1	Ni 231.604†	8228.3	7842.4	543.26 µg/L	543.26 ppb	21:10:11
1	P 214.914†	1495.0	1237.7	2618.9 µg/L	2618.9 ppb	21:10:32
1	Pb 220.353†	1767.1	1705.5	537.26 µg/L	537.26 ppb	21:10:32
1	S 181.975 Axial†	299.1	275.3	1044.8 µg/L	1044.8 ppb	21:10:32
1	Sb 206.836†	511.7	485.2	520.35 µg/L	520.35 ppb	21:10:32
1	Se 196.026†	449.7	431.6	542.63 µg/L	542.63 ppb	21:10:32
1	SiO2†	26977.6	25308.4	5523.0 µg/L	5523.0 ppb	21:10:11
1	Si 251.611†	32338.7	31631.8	2585.8 µg/L	2585.8 ppb	21:10:11
1	Sn 189.927†	1167.3	1150.4	541.01 µg/L	541.01 ppb	21:10:32
1	Ti 334.940†	194859.7	192801.7	514.03 µg/L	514.03 ppb	21:10:06
1	Tl 190.801†	431.7	452.7	532.01 µg/L	532.01 ppb	21:10:32
1	U 409.014†	5246.8	5040.4	492.78 µg/L	492.78 ppb	21:10:11
1	V 292.402†	40957.5	40675.2	521.49 µg/L	521.49 ppb	21:10:11
1	Zn 213.857†	20426.5	19629.7	523.58 µg/L	523.58 ppb	21:10:11
2	Sc RADIAL	107475.1	107475.1	98.4 %		21:09:08
2	Al 396.153Radial†	10150.6	10488.5	5008.7 µg/L	5008.7 ppb	21:09:08
2	Ca 317.933Radial†	16003.4	15876.7	5149.2 µg/L	5149.2 ppb	21:09:08
2	Fe 238.204 Radial†	675.0	654.5	4937.9 µg/L	4937.9 ppb	21:09:28
2	K 766.490 Radial†	9264.7	9182.7	5211.3 µg/L	5211.3 ppb	21:09:08
2	Mg 279.077 IEC†	507.5	506.9	5065.0 µg/L	5065.0 ppb	21:09:28
2	Na 589.592 Radial†	26877.2	27073.5	9373.9 µg/L	9373.9 ppb	21:09:08
2	Sr 421.552†	107846.5	109422.9	495.57 µg/L	495.57 ppb	21:09:08
2	Sc 361.383	1692156.5	1692156.5	100.56 %		21:10:39
2	Y 371.029	939986.6	939986.6	100.41 %		21:10:39
2	Ag 328.068†	56699.5	56947.5	512.77 µg/L	512.77 ppb	21:10:45
2	As 188.979†	290.5	292.8	538.92 µg/L	538.92 ppb	21:11:05
2	B 249.677†	9914.2	9700.0	512.78 µg/L	512.78 ppb	21:10:45
2	Ba 233.527†	20395.2	20298.7	524.09 µg/L	524.09 ppb	21:10:45
2	Be 313.107†	728841.7	726701.6	519.98 µg/L	519.98 ppb	21:10:39
2	Cd 226.502†	18070.0	18112.9	530.17 µg/L	530.17 ppb	21:10:45
2	Co 228.616†	10253.2	10173.5	527.23 µg/L	527.23 ppb	21:10:45
2	Cr 267.716†	20614.1	20408.4	528.06 µg/L	528.06 ppb	21:10:45
2	Cu 324.752†	74234.5	71195.3	511.28 µg/L	511.28 ppb	21:10:45
2	Mn 257.610†	145366.9	145096.2	529.05 µg/L	529.05 ppb	21:10:39
2	Mo 202.031†	4689.7	4659.1	532.71 µg/L	532.71 ppb	21:11:05
2	Ni 231.604†	8188.5	7843.9	543.37 µg/L	543.37 ppb	21:10:45
2	P 214.914†	1483.1	1233.3	2609.1 µg/L	2609.1 ppb	21:11:05
2	Pb 220.353†	1754.6	1702.0	536.13 µg/L	536.13 ppb	21:11:05

2	S 181.975 Axial†	300.3	277.9	1054.7 µg/L	1054.7 ppb	21:11:05
2	Sb 206.836†	512.7	488.8	524.19 µg/L	524.19 ppb	21:11:05
2	Se 196.026†	447.7	431.9	543.01 µg/L	543.01 ppb	21:11:05
2	SiO2†	27234.0	25698.2	5608.0 µg/L	5608.0 ppb	21:10:45
2	Si 251.611†	32593.2	32046.5	2619.7 µg/L	2619.7 ppb	21:10:45
2	Sn 189.927†	1167.6	1156.5	543.91 µg/L	543.91 ppb	21:11:05
2	Ti 334.940†	194723.7	193640.2	516.27 µg/L	516.27 ppb	21:10:39
2	Tl 190.801†	419.4	442.7	520.40 µg/L	520.40 ppb	21:11:05
2	U 409.014†	5291.5	5111.0	499.70 µg/L	499.70 ppb	21:10:45
2	V 292.402†	41030.5	40952.4	525.01 µg/L	525.01 ppb	21:10:45
2	Zn 213.857†	20459.0	19764.1	527.19 µg/L	527.19 ppb	21:10:45
3	Sc RADIAL	108263.5	108263.5	99.1 %		21:09:34
3	Al 396.153Radial†	10238.4	10502.0	5016.6 µg/L	5016.6 ppb	21:09:34
3	Ca 317.933Radial†	16083.8	15839.4	5137.1 µg/L	5137.1 ppb	21:09:34
3	Fe 238.204 Radial†	684.2	658.8	4969.5 µg/L	4969.5 ppb	21:09:54
3	K 766.490 Radial†	9394.7	9245.3	5246.9 µg/L	5246.9 ppb	21:09:34
3	Mg 279.077 IEC†	518.9	514.7	5141.1 µg/L	5141.1 ppb	21:09:54
3	Na 589.592 Radial†	26999.7	26998.1	9347.9 µg/L	9347.9 ppb	21:09:34
3	Sr 421.552†	108424.6	109208.1	494.60 µg/L	494.60 ppb	21:09:34
3	Sc 361.383	1700091.5	1700091.5	101.04 %		21:11:12
3	Y 371.029	942751.4	942751.4	100.71 %		21:11:12
3	Ag 328.068†	54383.5	54392.1	489.69 µg/L	489.69 ppb	21:11:18
3	As 188.979†	252.7	254.0	467.54 µg/L	467.54 ppb	21:11:39
3	B 249.677†	9461.8	9206.2	486.49 µg/L	486.49 ppb	21:11:18
3	Ba 233.527†	19251.8	19072.4	492.41 µg/L	492.41 ppb	21:11:18
3	Be 313.107†	700825.1	695589.4	497.72 µg/L	497.72 ppb	21:11:12
3	Cd 226.502†	16978.6	16948.8	496.06 µg/L	496.06 ppb	21:11:18
3	Co 228.616†	9641.9	9520.8	493.35 µg/L	493.35 ppb	21:11:18
3	Cr 267.716†	18880.7	18597.0	481.20 µg/L	481.20 ppb	21:11:18
3	Cu 324.752†	69836.2	66497.5	477.61 µg/L	477.61 ppb	21:11:18
3	Mn 257.610†	140234.8	139342.0	508.07 µg/L	508.07 ppb	21:11:12
3	Mo 202.031†	4103.9	4057.5	463.95 µg/L	463.95 ppb	21:11:39
3	Ni 231.604†	7704.7	7327.1	507.57 µg/L	507.57 ppb	21:11:18
3	P 214.914†	1345.7	1090.5	2303.7 µg/L	2303.7 ppb	21:11:39
3	Pb 220.353†	1576.8	1517.8	478.04 µg/L	478.04 ppb	21:11:39
3	S 181.975 Axial†	281.5	257.9	978.96 µg/L	978.96 ppb	21:11:39
3	Sb 206.836†	466.8	441.0	472.57 µg/L	472.57 ppb	21:11:39
3	Se 196.026†	419.0	401.4	505.56 µg/L	505.56 ppb	21:11:39
3	SiO2†	26021.0	24371.2	5318.5 µg/L	5318.5 ppb	21:11:18
3	Si 251.611†	31029.2	30347.2	2480.8 µg/L	2480.8 ppb	21:11:18
3	Sn 189.927†	1006.3	991.4	466.32 µg/L	466.32 ppb	21:11:39
3	Ti 334.940†	186658.3	184753.7	492.56 µg/L	492.56 ppb	21:11:12
3	Tl 190.801†	390.1	411.7	484.12 µg/L	484.12 ppb	21:11:39
3	U 409.014†	4845.9	4645.4	454.09 µg/L	454.09 ppb	21:11:18
3	V 292.402†	38146.7	37907.8	485.74 µg/L	485.74 ppb	21:11:18
3	Zn 213.857†	19236.7	18459.3	492.35 µg/L	492.35 ppb	21:11:18

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1697650.2	100.89 %	0.283			0.28%
Sc RADIAL	107819.8	98.7 %	0.37			0.37%
Y 371.029	942630.1	100.70 %	0.276			0.27%
Ag 328.068†	55937.9	503.66 µg/L	12.282	503.66 ppb	12.282	2.44%
QC value within limits for Ag 328.068 Recovery = 100.73%						
Al 396.153Radial†	10503.5	5016.4 µg/L	7.56	5016.4 ppb	7.56	0.15%
QC value within limits for Al 396.153Radial Recovery = 100.33%						
As 188.979†	278.5	512.70 µg/L	39.282	512.70 ppb	39.282	7.66%
QC value within limits for As 188.979 Recovery = 102.54%						
B 249.677†	9494.8	501.85 µg/L	13.693	501.85 ppb	13.693	2.73%
QC value within limits for B 249.677 Recovery = 100.37%						
Ba 233.527†	19839.2	512.22 µg/L	17.266	512.22 ppb	17.266	3.37%
QC value within limits for Ba 233.527 Recovery = 102.44%						
Be 313.107†	715417.0	511.90 µg/L	12.325	511.90 ppb	12.325	2.41%
QC value within limits for Be 313.107 Recovery = 102.38%						
Ca 317.933Radial†	15874.2	5148.4 µg/L	10.90	5148.4 ppb	10.90	0.21%
QC value within limits for Ca 317.933Radial Recovery = 102.97%						
Cd 226.502†	17691.4	517.82 µg/L	18.903	517.82 ppb	18.903	3.65%
QC value within limits for Cd 226.502 Recovery = 103.56%						
Co 228.616†	9938.6	515.04 µg/L	18.830	515.04 ppb	18.830	3.66%

QC value within limits for Co 228.616 Recovery = 103.01%							
Cr 267.716†	19767.7	511.49 µg/L	26.269	511.49 ppb	26.269	5.14%	
QC value within limits for Cr 267.716 Recovery = 102.30%							
Cu 324.752†	69446.0	498.75 µg/L	18.407	498.75 ppb	18.407	3.69%	
QC value within limits for Cu 324.752 Recovery = 99.75%							
Fe 238.204 Radial†	657.1	4956.8 µg/L	16.74	4956.8 ppb	16.74	0.34%	
QC value within limits for Fe 238.204 Radial Recovery = 99.14%							
K 766.490 Radial†	9222.1	5233.7 µg/L	19.46	5233.7 ppb	19.46	0.37%	
QC value within limits for K 766.490 Radial Recovery = 104.67%							
Mg 279.077 IEC†	511.5	5110.8 µg/L	40.35	5110.8 ppb	40.35	0.79%	
QC value within limits for Mg 279.077 IEC Recovery = 102.22%							
Mn 257.610†	143027.7	521.51 µg/L	11.670	521.51 ppb	11.670	2.24%	
QC value within limits for Mn 257.610 Recovery = 104.30%							
Mo 202.031†	4459.7	509.93 µg/L	39.818	509.93 ppb	39.818	7.81%	
QC value within limits for Mo 202.031 Recovery = 101.99%							
Na 589.592 Radial†	27017.3	9354.5 µg/L	17.11	9354.5 ppb	17.11	0.18%	
QC value within limits for Na 589.592 Radial Recovery = 93.55%							
Ni 231.604†	7671.1	531.40 µg/L	20.640	531.40 ppb	20.640	3.88%	
QC value within limits for Ni 231.604 Recovery = 106.28%							
P 214.914†	1187.2	2510.6 µg/L	179.26	2510.6 ppb	179.26	7.14%	
QC value within limits for P 214.914 Recovery = 100.42%							
Pb 220.353†	1641.7	517.14 µg/L	33.866	517.14 ppb	33.866	6.55%	
QC value within limits for Pb 220.353 Recovery = 103.43%							
S 181.975 Axial†	270.4	1026.2 µg/L	41.18	1026.2 ppb	41.18	4.01%	
QC value within limits for S 181.975 Axial Recovery = 102.62%							
Sb 206.836†	471.7	505.71 µg/L	28.757	505.71 ppb	28.757	5.69%	
QC value within limits for Sb 206.836 Recovery = 101.14%							
Se 196.026†	421.6	530.40 µg/L	21.512	530.40 ppb	21.512	4.06%	
QC value within limits for Se 196.026 Recovery = 106.08%							
SiO2†	25125.9	5483.2 µg/L	148.84	5483.2 ppb	148.84	2.71%	
QC value within limits for SiO2 Recovery = 102.54%							
Si 251.611†	31341.8	2562.1 µg/L	72.43	2562.1 ppb	72.43	2.83%	
QC value within limits for Si 251.611 Recovery = 102.48%							
Sn 189.927†	1099.4	517.08 µg/L	43.985	517.08 ppb	43.985	8.51%	
QC value within limits for Sn 189.927 Recovery = 103.42%							
Sr 421.552†	109242.6	494.76 µg/L	0.751	494.76 ppb	0.751	0.15%	
QC value within limits for Sr 421.552 Recovery = 98.95%							
Ti 334.940†	190398.5	507.62 µg/L	13.092	507.62 ppb	13.092	2.58%	
QC value within limits for Ti 334.940 Recovery = 101.52%							
Tl 190.801†	435.7	512.18 µg/L	24.982	512.18 ppb	24.982	4.88%	
QC value within limits for Tl 190.801 Recovery = 102.44%							
U 409.014†	4932.2	482.19 µg/L	24.582	482.19 ppb	24.582	5.10%	
QC value within limits for U 409.014 Recovery = 96.44%							
V 292.402†	39845.1	510.74 µg/L	21.727	510.74 ppb	21.727	4.25%	
QC value within limits for V 292.402 Recovery = 102.15%							
Zn 213.857†	19284.3	514.37 µg/L	19.161	514.37 ppb	19.161	3.73%	
QC value within limits for Zn 213.857 Recovery = 102.87%							
All analyte(s) passed QC.							

Sequence No.: 55

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/26/2010 21:11:48

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	105617.8	105617.8	96.7 %		21:12:21
1	Al 396.153Radial†	-168.6	0.5	0.2415 µg/L	0.2415 ppb	21:12:21
1	Ca 317.933Radial†	373.1	2.2	0.7192 µg/L	0.7192 ppb	21:12:42
1	Fe 238.204 Radial†	28.8	-1.5	-11.392 µg/L	-11.392 ppb	21:12:42
1	K 766.490 Radial†	229.1	6.2	3.4921 µg/L	3.4921 ppb	21:12:21
1	Mg 279.077 IEC†	7.4	-1.1	-11.314 µg/L	-11.314 ppb	21:12:42
1	Na 589.592 Radial†	237.0	9.8	3.3945 µg/L	3.3945 ppb	21:12:21
1	Sr 421.552†	160.8	11.3	0.0512 µg/L	0.0512 ppb	21:12:21
1	Sc 361.383	1692198.0	1692198.0	100.57 %		21:13:44
1	Y 371.029	940460.9	940460.9	100.46 %		21:13:44
1	Ag 328.068†	-488.6	80.1	0.7162 µg/L	0.7162 ppb	21:13:49
1	As 188.979†	-4.5	-0.6	-1.0645 µg/L	-1.0645 ppb	21:14:10
1	B 249.677†	167.8	8.2	0.4420 µg/L	0.4420 ppb	21:14:10
1	Ba 233.527†	-22.5	-4.5	-0.1142 µg/L	-0.1142 ppb	21:14:10
1	Be 313.107†	-2044.8	-87.5	-0.0628 µg/L	-0.0628 ppb	21:13:49
1	Cd 226.502†	-135.6	9.4	0.2759 µg/L	0.2759 ppb	21:14:10
1	Co 228.616†	20.4	-2.0	-0.1044 µg/L	-0.1044 ppb	21:14:10
1	Cr 267.716†	81.5	-9.1	-0.2358 µg/L	-0.2358 ppb	21:14:10
1	Cu 324.752†	2695.6	57.4	0.4092 µg/L	0.4092 ppb	21:13:49
1	Mn 257.610†	-533.9	13.3	0.0488 µg/L	0.0488 ppb	21:14:10
1	Mo 202.031†	11.8	7.4	0.8428 µg/L	0.8428 ppb	21:14:10
1	Ni 231.604†	303.8	3.5	0.2410 µg/L	0.2410 ppb	21:14:10
1	P 214.914†	249.9	7.0	15.115 µg/L	15.115 ppb	21:14:10
1	Pb 220.353†	41.0	-2.1	-0.6573 µg/L	-0.6573 ppb	21:14:10
1	S 181.975 Axial†	22.4	1.6	6.0195 µg/L	6.0195 ppb	21:14:10
1	Sb 206.836†	22.5	1.4	1.5032 µg/L	1.5032 ppb	21:14:10
1	Se 196.026†	19.4	6.0	7.2946 µg/L	7.2946 ppb	21:14:10
1	SiO2†	1496.1	104.5	22.807 µg/L	22.807 ppb	21:13:49
1	Si 251.611†	454.1	87.5	7.1555 µg/L	7.1555 ppb	21:14:10
1	Sn 189.927†	6.0	1.4	0.6652 µg/L	0.6652 ppb	21:14:10
1	Ti 334.940†	144.6	151.9	0.4062 µg/L	0.4062 ppb	21:13:49
1	Tl 190.801†	-25.4	0.3	0.3690 µg/L	0.3690 ppb	21:14:10
1	U 409.014†	154.4	2.7	0.2665 µg/L	0.2665 ppb	21:13:49
1	V 292.402†	-124.5	28.1	0.3618 µg/L	0.3618 ppb	21:13:49
1	Zn 213.857†	599.0	15.4	0.4125 µg/L	0.4125 ppb	21:14:10
2	Sc RADIAL	105660.3	105660.3	96.8 %		21:12:47
2	Al 396.153Radial†	-149.0	20.9	10.003 µg/L	10.003 ppb	21:12:47
2	Ca 317.933Radial†	373.3	2.2	0.7291 µg/L	0.7291 ppb	21:13:08
2	Fe 238.204 Radial†	29.4	-0.9	-6.7709 µg/L	-6.7709 ppb	21:13:08
2	K 766.490 Radial†	328.8	109.0	61.869 µg/L	61.869 ppb	21:12:47
2	Mg 279.077 IEC†	9.6	1.1	11.422 µg/L	11.422 ppb	21:13:08
2	Na 589.592 Radial†	228.1	0.5	0.1705 µg/L	0.1705 ppb	21:12:47
2	Sr 421.552†	157.3	7.6	0.0344 µg/L	0.0344 ppb	21:12:47
2	Sc 361.383	1692345.9	1692345.9	100.58 %		21:14:16
2	Y 371.029	940392.8	940392.8	100.46 %		21:14:16
2	Ag 328.068†	-503.4	65.4	0.5857 µg/L	0.5857 ppb	21:14:21
2	As 188.979†	-2.5	1.4	2.5402 µg/L	2.5402 ppb	21:14:42
2	B 249.677†	179.0	19.4	1.0296 µg/L	1.0296 ppb	21:14:42
2	Ba 233.527†	-20.5	-2.5	-0.0640 µg/L	-0.0640 ppb	21:14:42
2	Be 313.107†	-1979.3	-22.1	-0.0160 µg/L	-0.0160 ppb	21:14:21
2	Cd 226.502†	-141.4	3.6	0.1048 µg/L	0.1048 ppb	21:14:42
2	Co 228.616†	22.7	0.3	0.0180 µg/L	0.0180 ppb	21:14:42
2	Cr 267.716†	71.1	-19.4	-0.5024 µg/L	-0.5024 ppb	21:14:42
2	Cu 324.752†	2670.7	32.4	0.2309 µg/L	0.2309 ppb	21:14:21
2	Mn 257.610†	-537.2	10.2	0.0359 µg/L	0.0359 ppb	21:14:42
2	Mo 202.031†	13.7	9.3	1.0631 µg/L	1.0631 ppb	21:14:42
2	Ni 231.604†	287.9	-12.4	-0.8600 µg/L	-0.8600 ppb	21:14:42
2	P 214.914†	250.4	7.5	16.094 µg/L	16.094 ppb	21:14:42
2	Pb 220.353†	36.8	-6.3	-1.9786 µg/L	-1.9786 ppb	21:14:42

2	S 181.975 Axial†	24.4	3.5	13.453 µg/L	13.453 ppb	21:14:42
2	Sb 206.836†	20.6	-0.6	-0.6064 µg/L	-0.6064 ppb	21:14:42
2	Se 196.026†	16.6	3.2	3.8561 µg/L	3.8561 ppb	21:14:42
2	SiO2†	1489.9	98.2	21.438 µg/L	21.438 ppb	21:14:21
2	Si 251.611†	462.8	96.1	7.8587 µg/L	7.8587 ppb	21:14:42
2	Sn 189.927†	5.6	1.0	0.4773 µg/L	0.4773 ppb	21:14:42
2	Ti 334.940†	149.7	157.0	0.4179 µg/L	0.4179 ppb	21:14:21
2	Tl 190.801†	-24.7	1.0	1.1628 µg/L	1.1628 ppb	21:14:42
2	U 409.014†	161.9	10.1	0.9944 µg/L	0.9944 ppb	21:14:21
2	V 292.402†	-121.6	31.0	0.4005 µg/L	0.4005 ppb	21:14:21
2	Zn 213.857†	595.6	11.9	0.3239 µg/L	0.3239 ppb	21:14:42
3	Sc RADIAL	106649.4	106649.4	97.7 %		21:13:13
3	Al 396.153Radial†	-152.3	19.0	9.0847 µg/L	9.0847 ppb	21:13:13
3	Ca 317.933Radial†	392.7	18.6	6.0225 µg/L	6.0225 ppb	21:13:33
3	Fe 238.204 Radial†	31.2	0.7	5.1346 µg/L	5.1346 ppb	21:13:33
3	K 766.490 Radial†	254.9	30.3	17.193 µg/L	17.193 ppb	21:13:13
3	Mg 279.077 IEC†	11.2	2.7	26.764 µg/L	26.764 ppb	21:13:33
3	Na 589.592 Radial†	217.5	-12.6	-4.3521 µg/L	-4.3521 ppb	21:13:13
3	Sr 421.552†	146.3	-5.1	-0.0233 µg/L	-0.0233 ppb	21:13:13
3	Sc 361.383	1693784.3	1693784.3	100.66 %		21:14:48
3	Y 371.029	939737.4	939737.4	100.39 %		21:14:48
3	Ag 328.068†	-467.4	101.6	0.9104 µg/L	0.9104 ppb	21:14:53
3	As 188.979†	-5.3	-1.4	-2.6648 µg/L	-2.6648 ppb	21:15:14
3	B 249.677†	178.5	18.7	0.9870 µg/L	0.9870 ppb	21:15:14
3	Ba 233.527†	-26.1	-8.0	-0.2060 µg/L	-0.2060 ppb	21:15:14
3	Be 313.107†	-1961.2	-2.6	-0.0020 µg/L	-0.0020 ppb	21:14:53
3	Cd 226.502†	-142.0	3.2	0.0919 µg/L	0.0919 ppb	21:15:14
3	Co 228.616†	21.5	-0.9	-0.0462 µg/L	-0.0462 ppb	21:15:14
3	Cr 267.716†	68.0	-22.6	-0.5849 µg/L	-0.5849 ppb	21:15:14
3	Cu 324.752†	2689.3	48.6	0.3492 µg/L	0.3492 ppb	21:14:53
3	Mn 257.610†	-538.7	9.0	0.0314 µg/L	0.0314 ppb	21:15:14
3	Mo 202.031†	8.1	3.7	0.4240 µg/L	0.4240 ppb	21:15:14
3	Ni 231.604†	300.2	-0.4	-0.0296 µg/L	-0.0296 ppb	21:15:14
3	P 214.914†	240.8	-2.3	-4.9548 µg/L	-4.9548 ppb	21:15:14
3	Pb 220.353†	30.4	-12.7	-3.9876 µg/L	-3.9876 ppb	21:15:14
3	S 181.975 Axial†	21.1	0.2	0.9202 µg/L	0.9202 ppb	21:15:14
3	Sb 206.836†	23.4	2.2	2.3886 µg/L	2.3886 ppb	21:15:14
3	Se 196.026†	16.2	2.8	3.4131 µg/L	3.4131 ppb	21:15:14
3	SiO2†	1515.3	122.2	26.665 µg/L	26.665 ppb	21:14:53
3	Si 251.611†	486.4	119.2	9.7428 µg/L	9.7428 ppb	21:15:14
3	Sn 189.927†	2.6	-2.0	-0.9372 µg/L	-0.9372 ppb	21:15:14
3	Ti 334.940†	165.1	172.2	0.4573 µg/L	0.4573 ppb	21:14:53
3	Tl 190.801†	-23.7	2.1	2.4171 µg/L	2.4171 ppb	21:15:14
3	U 409.014†	202.5	50.3	4.9262 µg/L	4.9262 ppb	21:14:53
3	V 292.402†	-125.3	27.5	0.3556 µg/L	0.3556 ppb	21:14:53
3	Zn 213.857†	593.2	9.0	0.2404 µg/L	0.2404 ppb	21:15:14

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1692776.1	100.60 %	0.052			0.05%
Sc RADIAL	105975.8	97.0 %	0.53			0.55%
Y 371.029	940197.0	100.44 %	0.043			0.04%
Ag 328.068†	82.3	0.7374 µg/L	0.16336	0.7374 ppb	0.16336	22.15%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.5	6.4430 µg/L	5.39023	6.4430 ppb	5.39023	83.66%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.2	-0.3964 µg/L	2.66602	-0.3964 ppb	2.66602	672.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	15.4	0.8195 µg/L	0.32760	0.8195 ppb	0.32760	39.97%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.0	-0.1281 µg/L	0.07204	-0.1281 ppb	0.07204	56.25%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-37.4	-0.0269 µg/L	0.03183	-0.0269 ppb	0.03183	118.20%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.7	2.4903 µg/L	3.05899	2.4903 ppb	3.05899	122.84%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.4	0.1576 µg/L	0.10272	0.1576 ppb	0.10272	65.20%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.8	-0.0442 µg/L	0.06126	-0.0442 ppb	0.06126	138.59%



QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-17.1 -0.4410 µg/L	0.18246 -0.4410 ppb	0.18246 41.37%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	46.1 0.3297 µg/L	0.09069 0.3297 ppb	0.09069 27.50%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-0.6 -4.3429 µg/L	8.52684 -4.3429 ppb	8.52684 196.34%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	48.5 27.518 µg/L	30.5275 27.518 ppb	30.5275 110.94%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.9 8.9571 µg/L	19.15840 8.9571 ppb	19.15840 213.89%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	10.8 0.0387 µg/L	0.00901 0.0387 ppb	0.00901 23.29%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	6.8 0.7766 µg/L	0.32468 0.7766 ppb	0.32468 41.81%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-0.8 -0.2624 µg/L	3.89143 -0.2624 ppb	3.89143 >999.9%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-3.1 -0.2162 µg/L	0.57373 -0.2162 ppb	0.57373 265.33%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	4.1 8.7514 µg/L	11.88001 8.7514 ppb	11.88001 135.75%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-7.0 -2.2078 µg/L	1.67694 -2.2078 ppb	1.67694 75.95%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	1.8 6.7977 µg/L	6.30269 6.7977 ppb	6.30269 92.72%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	1.0 1.0951 µg/L	1.53858 1.0951 ppb	1.53858 140.49%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.0 4.8546 µg/L	2.12469 4.8546 ppb	2.12469 43.77%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	108.3 23.636 µg/L	2.7103 23.636 ppb	2.7103 11.47%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	101.0 8.2523 µg/L	1.33776 8.2523 ppb	1.33776 16.21%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.1 0.0685 µg/L	0.87595 0.0685 ppb	0.87595 >999.9%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	4.6 0.0208 µg/L	0.03906 0.0208 ppb	0.03906 188.19%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	160.4 0.4272 µg/L	0.02678 0.4272 ppb	0.02678 6.27%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	1.1 1.3163 µg/L	1.03264 1.3163 ppb	1.03264 78.45%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	21.0 2.0624 µg/L	2.50670 2.0624 ppb	2.50670 121.54%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	28.9 0.3726 µg/L	0.02432 0.3726 ppb	0.02432 6.53%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	12.1 0.3256 µg/L	0.08606 0.3256 ppb	0.08606 26.43%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

## =====

Reprocessing Begun

Logged In Analyst: Optima3

Technique: ICP Continuous

Results Data Set (original): 030810A

Results Library (original): C:\pe\Optima3\Results\Results.mdb

Results Data Set (reprocessed): 030810B

Results Library (reprocessed): C:\pe\Optima3\Results\Results.mdb

## =====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/8/2010 16:05:41

IEC File: 011110.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	Yes
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	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
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
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/8/2010 13:43:11

Analyst:

Data Type: Reprocessed on 3/8/2010 16:10:49

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Sc 361.383	777060.5	777060.5	95.406	%	13:46:20
1	Sc Radial	3242.2	3242.2	96.4	%	13:45:24
1	Y 371.029	668142.8	668142.8	95.371	%	13:46:20
1	Y RADIAL	2688.5	2688.5	96.41	%	13:45:24
1	Ag 328.068†	229.2	240.3	[0.00]	ug/L	13:46:20

1	Al 396.153Radial†	-69.2	-71.8	[0.00]	ug/L	13:45:24
1	As 188.979†	-17.9	-18.7	[0.00]	ug/L	13:46:40
1	B 249.677†	-177.0	-185.5	[0.00]	ug/L	13:46:40
1	Ba 233.527†	2.7	2.8	[0.00]	ug/L	13:46:40
1	Be 313.107†	-3499.0	-3667.5	[0.00]	ug/L	13:46:20
1	Ca 317.933Radial†	12.5	13.0	[0.00]	ug/L	13:45:24
1	Cd 226.502†	-164.2	-172.1	[0.00]	ug/L	13:46:40
1	Co 228.616†	-35.3	-37.0	[0.00]	ug/L	13:46:40
1	Cr 267.716†	74.9	78.5	[0.00]	ug/L	13:46:40
1	Cu 324.752†	6002.6	6291.6	[0.00]	ug/L	13:46:20
1	Fe 238.204 Radial†	8.2	8.6	[0.00]	ug/L	13:45:24
1	K 766.490 Radial†	2137.4	2217.3	[0.00]	ug/L	13:45:04
1	Mg 279.077 IEC†	0.8	0.8	[0.00]	ug/L	13:45:24
1	Mn 257.610†	396.2	415.3	[0.00]	ug/L	13:46:40
1	Mo 202.031†	8.0	8.3	[0.00]	ug/L	13:46:40
1	Na 589.592 Radial†	-752.0	-780.1	[0.00]	ug/L	13:45:04
1	Ni 231.604†	75.0	78.7	[0.00]	ug/L	13:46:40
1	P 214.914†	167.8	175.9	[0.00]	ug/L	13:46:40
1	Pb 220.353†	-33.0	-34.6	[0.00]	ug/L	13:46:40
1	S 181.975 Axial†	27.5	28.8	[0.00]	ug/L	13:46:40
1	Sb 206.836†	31.4	32.9	[0.00]	ug/L	13:46:40
1	Se 196.026†	-21.5	-22.6	[0.00]	ug/L	13:46:40
1	Si 251.611†	562.2	589.3	[0.00]	ug/L	13:46:40
1	Sn 189.927†	9.7	10.2	[0.00]	ug/L	13:46:40
1	Sr 421.552†	11.8	12.3	[0.00]	ug/L	13:45:04
1	Ti 334.940†	-999.9	-1048.1	[0.00]	ug/L	13:46:20
1	Tl 190.801†	-24.2	-25.4	[0.00]	ug/L	13:46:40
1	U 409.014†	-2067.8	-2167.3	[0.00]	ug/L	13:46:20
1	V 292.402†	-1269.8	-1331.0	[0.00]	ug/L	13:46:20
1	Zn 213.857†	514.6	539.3	[0.00]	ug/L	13:46:40
1	SiO2†	522.2	547.4	[0.00]	ug/L	13:47:51
2	Sc 361.383	833778.5	833778.5	102.37	%	13:46:46
2	Sc Radial	3421.2	3421.2	102	%	13:45:49
2	Y 371.029	716955.5	716955.5	102.34	%	13:46:46
2	Y RADIAL	2833.3	2833.3	101.6	%	13:45:49
2	Ag 328.068†	178.6	174.4	[0.00]	ug/L	13:46:46
2	Al 396.153Radial†	-69.2	-68.0	[0.00]	ug/L	13:45:49
2	As 188.979†	-18.4	-18.0	[0.00]	ug/L	13:47:06
2	B 249.677†	-209.3	-204.4	[0.00]	ug/L	13:47:06
2	Ba 233.527†	3.2	3.1	[0.00]	ug/L	13:47:06
2	Be 313.107†	-3453.0	-3373.1	[0.00]	ug/L	13:46:46
2	Ca 317.933Radial†	11.1	10.9	[0.00]	ug/L	13:45:49
2	Cd 226.502†	-173.3	-169.3	[0.00]	ug/L	13:47:06
2	Co 228.616†	-46.3	-45.3	[0.00]	ug/L	13:47:06
2	Cr 267.716†	76.6	74.8	[0.00]	ug/L	13:47:06
2	Cu 324.752†	5962.8	5824.8	[0.00]	ug/L	13:46:46
2	Fe 238.204 Radial†	5.7	5.6	[0.00]	ug/L	13:45:49
2	K 766.490 Radial†	2130.5	2094.5	[0.00]	ug/L	13:45:29
2	Mg 279.077 IEC†	1.2	1.1	[0.00]	ug/L	13:45:49
2	Mn 257.610†	389.9	380.9	[0.00]	ug/L	13:47:06
2	Mo 202.031†	8.1	7.9	[0.00]	ug/L	13:47:06
2	Na 589.592 Radial†	-778.2	-765.1	[0.00]	ug/L	13:45:29
2	Ni 231.604†	70.2	68.5	[0.00]	ug/L	13:47:06
2	P 214.914†	178.5	174.3	[0.00]	ug/L	13:47:06
2	Pb 220.353†	-53.3	-52.1	[0.00]	ug/L	13:47:06
2	S 181.975 Axial†	28.2	27.5	[0.00]	ug/L	13:47:06
2	Sb 206.836†	35.3	34.4	[0.00]	ug/L	13:47:06
2	Se 196.026†	-20.7	-20.2	[0.00]	ug/L	13:47:06
2	Si 251.611†	518.9	506.9	[0.00]	ug/L	13:47:06
2	Sn 189.927†	13.9	13.6	[0.00]	ug/L	13:47:06
2	Sr 421.552†	19.0	18.7	[0.00]	ug/L	13:45:29
2	Ti 334.940†	-976.8	-954.2	[0.00]	ug/L	13:46:46
2	Tl 190.801†	-23.7	-23.2	[0.00]	ug/L	13:47:06
2	U 409.014†	-2059.8	-2012.1	[0.00]	ug/L	13:46:46
2	V 292.402†	-1188.2	-1160.7	[0.00]	ug/L	13:46:46
2	Zn 213.857†	506.3	494.6	[0.00]	ug/L	13:47:06
2	SiO2†	526.1	513.9	[0.00]	ug/L	13:48:12
3	Sc 361.383	832601.4	832601.4	102.22	%	13:47:11
3	Sc Radial	3427.1	3427.1	102	%	13:46:14
3	Y 371.029	716620.1	716620.1	102.29	%	13:47:11
3	Y RADIAL	2844.3	2844.3	102.0	%	13:46:14

3	Ag 328.068†	219.8	215.0	[0.00]	ug/L	13:47:11
3	Al 396.153Radial†	-69.5	-68.2	[0.00]	ug/L	13:46:14
3	As 188.979†	-15.9	-15.6	[0.00]	ug/L	13:47:31
3	B 249.677†	-192.1	-188.0	[0.00]	ug/L	13:47:31
3	Ba 233.527†	0.7	0.7	[0.00]	ug/L	13:47:31
3	Be 313.107†	-3456.0	-3380.7	[0.00]	ug/L	13:47:11
3	Ca 317.933Radial†	9.1	9.0	[0.00]	ug/L	13:46:14
3	Cd 226.502†	-147.3	-144.0	[0.00]	ug/L	13:47:31
3	Co 228.616†	-46.7	-45.7	[0.00]	ug/L	13:47:31
3	Cr 267.716†	75.5	73.9	[0.00]	ug/L	13:47:31
3	Cu 324.752†	5952.1	5822.6	[0.00]	ug/L	13:47:11
3	Fe 238.204 Radial†	7.8	7.6	[0.00]	ug/L	13:46:14
3	K 766.490 Radial†	2197.0	2156.2	[0.00]	ug/L	13:45:54
3	Mg 279.077 IEC†	2.7	2.7	[0.00]	ug/L	13:46:14
3	Mn 257.610†	405.7	396.9	[0.00]	ug/L	13:47:31
3	Mo 202.031†	5.5	5.3	[0.00]	ug/L	13:47:31
3	Na 589.592 Radial†	-781.7	-767.2	[0.00]	ug/L	13:45:54
3	Ni 231.604†	63.2	61.8	[0.00]	ug/L	13:47:31
3	P 214.914†	186.7	182.6	[0.00]	ug/L	13:47:31
3	Pb 220.353†	-43.3	-42.3	[0.00]	ug/L	13:47:31
3	S 181.975 Axial†	24.7	24.2	[0.00]	ug/L	13:47:31
3	Sb 206.836†	19.3	18.8	[0.00]	ug/L	13:47:31
3	Se 196.026†	-13.4	-13.1	[0.00]	ug/L	13:47:31
3	Si 251.611†	534.8	523.1	[0.00]	ug/L	13:47:31
3	Sn 189.927†	-2.2	-2.2	[0.00]	ug/L	13:47:31
3	Sr 421.552†	43.4	42.6	[0.00]	ug/L	13:45:54
3	Ti 334.940†	-1055.1	-1032.1	[0.00]	ug/L	13:47:11
3	Tl 190.801†	-22.3	-21.8	[0.00]	ug/L	13:47:31
3	U 409.014†	-2014.1	-1970.3	[0.00]	ug/L	13:47:11
3	V 292.402†	-1244.8	-1217.7	[0.00]	ug/L	13:47:11
3	Zn 213.857†	502.7	491.8	[0.00]	ug/L	13:47:31
3	SiO2†	528.0	516.5	[0.00]	ug/L	13:48:32

## Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	814480.1	32411.72	3.98%	100.00	%
Sc Radial	3363.5	105.07	3.12%	100	%
Y 371.029	700572.8	28085.72	4.01%	100.00	%
Y RADIAL	2788.7	86.97	3.12%	100.0	%
Ag 328.068†	209.9	33.21	15.82%	[0.00]	ug/L
Al 396.153Radial†	-69.4	2.12	3.06%	[0.00]	ug/L
As 188.979†	-17.4	1.65	9.47%	[0.00]	ug/L
B 249.677†	-192.6	10.27	5.33%	[0.00]	ug/L
Ba 233.527†	2.2	1.34	60.84%	[0.00]	ug/L
Be 313.107†	-3473.8	167.84	4.83%	[0.00]	ug/L
Ca 317.933Radial†	11.0	2.02	18.36%	[0.00]	ug/L
Cd 226.502†	-161.8	15.46	9.55%	[0.00]	ug/L
Co 228.616†	-42.6	4.91	11.51%	[0.00]	ug/L
Cr 267.716†	75.7	2.44	3.22%	[0.00]	ug/L
Cu 324.752†	5979.7	270.17	4.52%	[0.00]	ug/L
Fe 238.204 Radial†	7.3	1.49	20.50%	[0.00]	ug/L
K 766.490 Radial†	2156.0	61.40	2.85%	[0.00]	ug/L
Mg 279.077 IEC†	1.5	1.01	65.37%	[0.00]	ug/L
Mn 257.610†	397.7	17.24	4.34%	[0.00]	ug/L
Mo 202.031†	7.2	1.62	22.51%	[0.00]	ug/L
Na 589.592 Radial†	-770.8	8.10	1.05%	[0.00]	ug/L
Ni 231.604†	69.7	8.46	12.14%	[0.00]	ug/L
P 214.914†	177.6	4.40	2.48%	[0.00]	ug/L
Pb 220.353†	-43.0	8.76	20.37%	[0.00]	ug/L
S 181.975 Axial†	26.8	2.41	8.98%	[0.00]	ug/L
Sb 206.836†	28.7	8.60	29.94%	[0.00]	ug/L
Se 196.026†	-18.6	4.92	26.41%	[0.00]	ug/L
Si 251.611†	539.8	43.63	8.08%	[0.00]	ug/L
Sn 189.927†	7.2	8.32	115.51%	[0.00]	ug/L
Sr 421.552†	24.5	16.00	65.21%	[0.00]	ug/L
Ti 334.940†	-1011.5	50.22	4.97%	[0.00]	ug/L
Tl 190.801†	-23.4	1.80	7.68%	[0.00]	ug/L
U 409.014†	-2049.9	103.84	5.07%	[0.00]	ug/L
V 292.402†	-1236.5	86.67	7.01%	[0.00]	ug/L

Zn 213.857†	508.6	26.68	5.25%	[0.00] ug/L
SiO2†	525.9	18.63	3.54%	[0.00] ug/L

Sequence No.: 2  
 Sample ID: S0.1  
 Analyst:  
 Logged In Analyst (Original) : Optima3  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 2  
 Date Collected: 3/8/2010 13:50:42  
 Data Type: Reprocessed on 3/8/2010 16:10:51  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	839534.7	839534.7	103.08 %	13:53:52
1	Sc Radial	3432.2	3432.2	102 %	13:52:55
1	Y 371.029	718092.1	718092.1	102.50 %	13:53:52
1	Y RADIAL	2837.2	2837.2	101.7 %	13:52:55
1	Ag 328.068†	20505.2	19683.4	[100] ug/L	13:53:52
1	As 188.979†	162.0	174.6	[100] ug/L	13:54:12
1	B 249.677†	3324.5	3418.0	[100] ug/L	13:53:52
1	Ba 233.527†	10996.7	10666.3	[100] ug/L	13:53:52
1	Be 313.107†	232854.2	229378.8	[100] ug/L	13:53:52
1	Cd 226.502†	6712.1	6673.6	[100] ug/L	13:54:12
1	Co 228.616†	3909.8	3835.7	[100] ug/L	13:54:12
1	Cr 267.716†	7890.3	7579.2	[100] ug/L	13:53:52
1	Cu 324.752†	37775.4	30668.3	[100] ug/L	13:53:52
1	K 766.490 Radial†	4388.1	2144.3	[1000] ug/L	13:52:35
1	Mn 257.610†	79271.2	76507.7	[100] ug/L	13:53:52
1	Mo 202.031†	1182.2	1139.7	[100] ug/L	13:54:12
1	Ni 231.604†	3342.6	3173.2	[100] ug/L	13:54:12
1	P 214.914†	834.6	632.1	[500] ug/L	13:54:12
1	Pb 220.353†	621.2	645.6	[100] ug/L	13:54:12
1	S 181.975 Axial†	147.3	116.1	[200] ug/L	13:54:12
1	Sb 206.836†	265.4	228.7	[100] ug/L	13:54:12
1	Se 196.026†	100.9	116.5	[100] ug/L	13:54:12
1	Si 251.611†	14119.2	13158.1	[500] ug/L	13:53:52
1	Sn 189.927†	443.5	423.1	[100] ug/L	13:54:12
1	Sr 421.552†	11018.2	10773.3	[100] ug/L	13:52:55
1	Ti 334.940†	58928.0	58180.9	[100] ug/L	13:53:52
1	Tl 190.801†	237.4	253.7	[100] ug/L	13:54:12
1	U 409.014†	1534.5	3538.6	[100] ug/L	13:53:52
1	V 292.402†	11719.0	12605.7	[100] ug/L	13:53:52
1	Zn 213.857†	9041.2	8262.8	[100] ug/L	13:53:52
1	SiO2†	14280.9	13328.8	[1069.5] ug/L	13:55:08
2	Sc 361.383	845331.5	845331.5	103.79 %	13:54:17
2	Sc Radial	3392.6	3392.6	101 %	13:53:20
2	Y 371.029	723013.1	723013.1	103.20 %	13:54:17
2	Y RADIAL	2817.1	2817.1	101.0 %	13:53:20
2	Ag 328.068†	20617.4	19655.1	[100] ug/L	13:54:17
2	As 188.979†	154.1	166.0	[100] ug/L	13:54:37
2	B 249.677†	3389.2	3458.2	[100] ug/L	13:54:17
2	Ba 233.527†	11016.5	10612.3	[100] ug/L	13:54:17
2	Be 313.107†	234188.9	229115.7	[100] ug/L	13:54:17
2	Cd 226.502†	6702.8	6620.0	[100] ug/L	13:54:37
2	Co 228.616†	3908.3	3808.3	[100] ug/L	13:54:37
2	Cr 267.716†	7945.6	7579.9	[100] ug/L	13:54:17
2	Cu 324.752†	38127.9	30756.7	[100] ug/L	13:54:17
2	K 766.490 Radial†	4418.4	2224.5	[1000] ug/L	13:53:00
2	Mn 257.610†	79601.0	76298.1	[100] ug/L	13:54:17
2	Mo 202.031†	1181.4	1131.1	[100] ug/L	13:54:37
2	Ni 231.604†	3301.0	3110.8	[100] ug/L	13:54:37
2	P 214.914†	819.5	612.0	[500] ug/L	13:54:37
2	Pb 220.353†	623.8	644.0	[100] ug/L	13:54:37
2	S 181.975 Axial†	145.8	113.7	[200] ug/L	13:54:37
2	Sb 206.836†	264.9	226.5	[100] ug/L	13:54:37
2	Se 196.026†	99.9	114.9	[100] ug/L	13:54:37
2	Si 251.611†	14134.2	13078.6	[500] ug/L	13:54:17
2	Sn 189.927†	441.2	417.9	[100] ug/L	13:54:37
2	Sr 421.552†	10808.2	10690.8	[100] ug/L	13:53:20
2	Ti 334.940†	59093.2	57948.0	[100] ug/L	13:54:17
2	Tl 190.801†	234.5	249.4	[100] ug/L	13:54:37

2	U 409.014†	1599.0	3590.5	[100]	ug/L	13:54:17
2	V 292.402†	11688.8	12498.6	[100]	ug/L	13:54:17
2	Zn 213.857†	9001.8	8164.7	[100]	ug/L	13:54:17
2	SiO2†	14039.7	13001.4	[1069.5]	ug/L	13:55:13
3	Sc 361.383	837839.4	837839.4	102.87	%	13:54:43
3	Sc Radial	3513.7	3513.7	104	%	13:53:45
3	Y 371.029	717372.6	717372.6	102.40	%	13:54:43
3	Y RADIAL	2925.4	2925.4	104.9	%	13:53:45
3	Ag 328.068†	20514.1	19732.3	[100]	ug/L	13:54:43
3	As 188.979†	161.8	174.7	[100]	ug/L	13:55:03
3	B 249.677†	3306.9	3407.4	[100]	ug/L	13:54:43
3	Ba 233.527†	10906.9	10600.6	[100]	ug/L	13:54:43
3	Be 313.107†	232461.5	229454.2	[100]	ug/L	13:54:43
3	Cd 226.502†	6709.7	6684.5	[100]	ug/L	13:55:03
3	Co 228.616†	3895.8	3829.9	[100]	ug/L	13:55:03
3	Cr 267.716†	7840.9	7546.5	[100]	ug/L	13:54:43
3	Cu 324.752†	37962.8	30924.7	[100]	ug/L	13:54:43
3	K 766.490 Radial†	4278.4	1939.5	[1000]	ug/L	13:53:25
3	Mn 257.610†	78882.7	76285.8	[100]	ug/L	13:54:43
3	Mo 202.031†	1192.7	1152.3	[100]	ug/L	13:55:03
3	Ni 231.604†	3323.7	3161.3	[100]	ug/L	13:55:03
3	P 214.914†	824.5	623.8	[500]	ug/L	13:55:03
3	Pb 220.353†	617.6	643.4	[100]	ug/L	13:55:03
3	S 181.975 Axial†	143.5	112.7	[200]	ug/L	13:55:03
3	Sb 206.836†	272.9	236.6	[100]	ug/L	13:55:03
3	Se 196.026†	97.8	113.7	[100]	ug/L	13:55:03
3	Si 251.611†	14080.6	13148.3	[500]	ug/L	13:54:43
3	Sn 189.927†	450.5	430.7	[100]	ug/L	13:55:03
3	Sr 421.552†	10885.9	10396.0	[100]	ug/L	13:53:45
3	Ti 334.940†	58625.4	58002.3	[100]	ug/L	13:54:43
3	Tl 190.801†	244.4	261.1	[100]	ug/L	13:55:03
3	U 409.014†	1464.4	3473.5	[100]	ug/L	13:54:43
3	V 292.402†	11645.2	12557.0	[100]	ug/L	13:54:43
3	Zn 213.857†	8991.9	8232.7	[100]	ug/L	13:54:43
3	SiO2†	14243.8	13320.7	[1069.5]	ug/L	13:55:18

## Mean Data: S0.1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	840901.9	3928.71	0.47%	103.24	%
Sc Radial	3446.2	61.76	1.79%	102	%
Y 371.029	719492.6	3070.03	0.43%	102.70	%
Y RADIAL	2859.9	57.57	2.01%	102.6	%
Ag 328.068†	19690.2	39.05	0.20%	[100]	ug/L
As 188.979†	171.8	5.03	2.93%	[100]	ug/L
B 249.677†	3427.8	26.81	0.78%	[100]	ug/L
Ba 233.527†	10626.4	35.04	0.33%	[100]	ug/L
Be 313.107†	229316.2	177.74	0.08%	[100]	ug/L
Cd 226.502†	6659.3	34.53	0.52%	[100]	ug/L
Co 228.616†	3824.6	14.42	0.38%	[100]	ug/L
Cr 267.716†	7568.5	19.05	0.25%	[100]	ug/L
Cu 324.752†	30783.2	130.20	0.42%	[100]	ug/L
K 766.490 Radial†	2102.7	146.98	6.99%	[1000]	ug/L
Mn 257.610†	76363.9	124.74	0.16%	[100]	ug/L
Mo 202.031†	1141.0	10.64	0.93%	[100]	ug/L
Ni 231.604†	3148.4	33.10	1.05%	[100]	ug/L
P 214.914†	622.6	10.11	1.62%	[500]	ug/L
Pb 220.353†	644.4	1.16	0.18%	[100]	ug/L
S 181.975 Axial†	114.1	1.74	1.53%	[200]	ug/L
Sb 206.836†	230.6	5.27	2.29%	[100]	ug/L
Se 196.026†	115.0	1.38	1.20%	[100]	ug/L
Si 251.611†	13128.3	43.37	0.33%	[500]	ug/L
Sn 189.927†	423.9	6.45	1.52%	[100]	ug/L
Sr 421.552†	10620.0	198.39	1.87%	[100]	ug/L
Ti 334.940†	58043.7	121.84	0.21%	[100]	ug/L
Tl 190.801†	254.7	5.89	2.31%	[100]	ug/L
U 409.014†	3534.2	58.63	1.66%	[100]	ug/L
V 292.402†	12553.8	53.62	0.43%	[100]	ug/L
Zn 213.857†	8220.1	50.28	0.61%	[100]	ug/L
SiO2†	13217.0	186.74	1.41%	[1069.5]	ug/L

Sequence No.: 3  
 Sample ID: S0.5  
 Analyst:  
 Logged In Analyst (Original) : Optima3  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 3  
 Date Collected: 3/8/2010 13:57:29  
 Data Type: Reprocessed on 3/8/2010 16:11:04

Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	840807.3	840807.3	103.23 %	14:00:39
1	Sc Radial	3380.7	3380.7	101 %	13:59:41
1	Y 371.029	711305.3	711305.3	101.53 %	14:00:39
1	Y RADIAL	2799.4	2799.4	100.4 %	13:59:41
1	Ag 328.068†	98961.8	95653.3	[500] ug/L	14:00:44
1	Al 396.153Radial†	2293.4	2351.1	[5000] ug/L	13:59:21
1	As 188.979†	873.9	864.0	[500] ug/L	14:01:04
1	B 249.677†	17819.9	17454.5	[500] ug/L	14:00:44
1	Ba 233.527†	54022.7	52329.0	[500] ug/L	14:00:44
1	Be 313.107†	1176830.1	1143455.2	[500] ug/L	14:00:39
1	Ca 317.933Radial†	1319.5	1301.8	[5000] ug/L	13:59:41
1	Cd 226.502†	34582.0	33661.0	[500] ug/L	14:00:44
1	Co 228.616†	19760.8	19184.7	[500] ug/L	14:00:44
1	Cr 267.716†	38582.3	37298.5	[500] ug/L	14:00:44
1	Cu 324.752†	162397.5	151332.8	[500] ug/L	14:00:44
1	K 766.490 Radial†	12989.3	10767.1	[5000] ug/L	13:59:21
1	Mg 279.077 IEC†	57.2	55.4	[5000] ug/L	13:59:41
1	Mn 257.610†	386076.3	373589.9	[500] ug/L	14:00:39
1	Mo 202.031†	5702.2	5516.5	[500] ug/L	14:01:04
1	Ni 231.604†	16229.3	15651.5	[500] ug/L	14:00:44
1	P 214.914†	3422.1	3137.4	[2500] ug/L	14:01:04
1	Pb 220.353†	3170.9	3114.6	[500] ug/L	14:01:04
1	S 181.975 Axial†	582.1	537.0	[1000] ug/L	14:01:04
1	Sb 206.836†	1217.1	1150.2	[500] ug/L	14:01:04
1	Se 196.026†	587.4	587.7	[500] ug/L	14:01:04
1	Si 251.611†	66987.3	64350.1	[2500] ug/L	14:00:44
1	Sn 189.927†	2158.0	2083.2	[500] ug/L	14:01:04
1	Sr 421.552†	53018.7	52724.2	[500] ug/L	13:59:21
1	Ti 334.940†	287062.2	279085.2	[500] ug/L	14:00:44
1	Tl 190.801†	1267.4	1251.2	[500] ug/L	14:01:04
1	U 409.014†	15653.8	17213.6	[500] ug/L	14:00:44
1	V 292.402†	63136.9	62396.4	[500] ug/L	14:00:44
1	Zn 213.857†	42097.7	40271.0	[500] ug/L	14:00:44
1	SiO2†	66752.0	64135.9	[5347.5] ug/L	14:02:11
2	Sc 361.383	830291.3	830291.3	101.94 %	14:01:10
2	Sc Radial	3364.9	3364.9	100 %	14:00:06
2	Y 371.029	702871.7	702871.7	100.33 %	14:01:10
2	Y RADIAL	2777.2	2777.2	99.59 %	14:00:06
2	Ag 328.068†	99012.1	96916.7	[500] ug/L	14:01:15
2	Al 396.153Radial†	2291.8	2360.3	[5000] ug/L	13:59:46
2	As 188.979†	865.4	866.4	[500] ug/L	14:01:35
2	B 249.677†	17901.8	17753.6	[500] ug/L	14:01:15
2	Ba 233.527†	53789.6	52763.1	[500] ug/L	14:01:15
2	Be 313.107†	1167763.6	1148999.7	[500] ug/L	14:01:10
2	Ca 317.933Radial†	1316.1	1304.6	[5000] ug/L	14:00:06
2	Cd 226.502†	34308.2	33816.7	[500] ug/L	14:01:15
2	Co 228.616†	19626.7	19295.6	[500] ug/L	14:01:15
2	Cr 267.716†	38539.2	37729.5	[500] ug/L	14:01:15
2	Cu 324.752†	162511.3	153436.9	[500] ug/L	14:01:15
2	K 766.490 Radial†	12902.3	10741.0	[5000] ug/L	13:59:46
2	Mg 279.077 IEC†	57.4	55.8	[5000] ug/L	14:00:06
2	Mn 257.610†	382989.8	375298.8	[500] ug/L	14:01:10
2	Mo 202.031†	5695.9	5580.3	[500] ug/L	14:01:35
2	Ni 231.604†	16202.7	15824.5	[500] ug/L	14:01:15
2	P 214.914†	3406.0	3163.5	[2500] ug/L	14:01:35
2	Pb 220.353†	3161.6	3144.4	[500] ug/L	14:01:35
2	S 181.975 Axial†	569.0	531.3	[1000] ug/L	14:01:35
2	Sb 206.836†	1204.7	1153.0	[500] ug/L	14:01:35



2	Se 196.026†	591.0	598.4	[500]	ug/L	14:01:35
2	Si 251.611†	66805.6	64993.6	[2500]	ug/L	14:01:15
2	Sn 189.927†	2137.9	2090.0	[500]	ug/L	14:01:35
2	Sr 421.552†	52564.3	52518.0	[500]	ug/L	13:59:46
2	Ti 334.940†	286299.5	281859.0	[500]	ug/L	14:01:15
2	Tl 190.801†	1251.9	1251.5	[500]	ug/L	14:01:35
2	U 409.014†	15665.1	17416.7	[500]	ug/L	14:01:15
2	V 292.402†	63073.0	63108.4	[500]	ug/L	14:01:15
2	Zn 213.857†	41904.0	40597.5	[500]	ug/L	14:01:15
2	SiO2†	67578.1	65765.3	[5347.5]	ug/L	14:02:16
3	Sc 361.383	830534.3	830534.3	101.97	%	14:01:41
3	Sc Radial	3302.8	3302.8	98.2	%	14:00:32
3	Y 371.029	704429.4	704429.4	100.55	%	14:01:41
3	Y RADIAL	2739.8	2739.8	98.25	%	14:00:32
3	Ag 328.068†	98132.6	96025.8	[500]	ug/L	14:01:46
3	Al 396.153Radial†	2354.1	2466.7	[5000]	ug/L	14:00:11
3	As 188.979†	879.9	880.4	[500]	ug/L	14:02:06
3	B 249.677†	17678.1	17529.1	[500]	ug/L	14:01:46
3	Ba 233.527†	53397.2	52362.8	[500]	ug/L	14:01:46
3	Be 313.107†	1166764.0	1147684.3	[500]	ug/L	14:01:41
3	Ca 317.933Radial†	1316.3	1329.5	[5000]	ug/L	14:00:32
3	Cd 226.502†	34120.1	33622.4	[500]	ug/L	14:01:46
3	Co 228.616†	19483.3	19149.3	[500]	ug/L	14:01:46
3	Cr 267.716†	38395.7	37577.8	[500]	ug/L	14:01:46
3	Cu 324.752†	160915.3	151825.1	[500]	ug/L	14:01:46
3	K 766.490 Radial†	13099.9	11184.6	[5000]	ug/L	14:00:11
3	Mg 279.077 IEC†	53.0	52.5	[5000]	ug/L	14:00:32
3	Mn 257.610†	381813.6	374035.5	[500]	ug/L	14:01:41
3	Mo 202.031†	5711.1	5593.5	[500]	ug/L	14:02:06
3	Ni 231.604†	16084.3	15703.7	[500]	ug/L	14:01:46
3	P 214.914†	3424.5	3180.6	[2500]	ug/L	14:02:06
3	Pb 220.353†	3186.9	3168.3	[500]	ug/L	14:02:06
3	S 181.975 Axial†	583.7	545.6	[1000]	ug/L	14:02:06
3	Sb 206.836†	1210.5	1158.4	[500]	ug/L	14:02:06
3	Se 196.026†	586.9	594.2	[500]	ug/L	14:02:06
3	Si 251.611†	66136.0	64317.8	[2500]	ug/L	14:01:46
3	Sn 189.927†	2168.2	2119.1	[500]	ug/L	14:02:06
3	Sr 421.552†	54199.4	55170.9	[500]	ug/L	14:00:11
3	Ti 334.940†	284183.5	279701.7	[500]	ug/L	14:01:46
3	Tl 190.801†	1259.2	1258.3	[500]	ug/L	14:02:06
3	U 409.014†	15475.3	17226.0	[500]	ug/L	14:01:46
3	V 292.402†	62629.6	62655.5	[500]	ug/L	14:01:46
3	Zn 213.857†	41685.3	40371.0	[500]	ug/L	14:01:46
3	SiO2†	66715.4	64899.9	[5347.5]	ug/L	14:02:22

## Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	833877.6	6002.47	0.72%	102.38 %
Sc Radial	3349.5	41.18	1.23%	99.6 %
Y 371.029	706202.1	4487.57	0.64%	100.80 %
Y RADIAL	2772.2	30.10	1.09%	99.41 %
Ag 328.068†	96198.6	649.22	0.67%	[500] ug/L
Al 396.153Radial†	2392.7	64.25	2.69%	[5000] ug/L
As 188.979†	870.2	8.84	1.02%	[500] ug/L
B 249.677†	17579.1	155.65	0.89%	[500] ug/L
Ba 233.527†	52485.0	241.47	0.46%	[500] ug/L
Be 313.107†	1146713.1	2897.03	0.25%	[500] ug/L
Ca 317.933Radial†	1312.0	15.25	1.16%	[5000] ug/L
Cd 226.502†	33700.0	102.89	0.31%	[500] ug/L
Co 228.616†	19209.9	76.31	0.40%	[500] ug/L
Cr 267.716†	37535.3	218.63	0.58%	[500] ug/L
Cu 324.752†	152198.3	1100.58	0.72%	[500] ug/L
K 766.490 Radial†	10897.6	248.92	2.28%	[5000] ug/L
Mg 279.077 IEC†	54.6	1.82	3.34%	[5000] ug/L
Mn 257.610†	374308.1	886.48	0.24%	[500] ug/L
Mo 202.031†	5563.4	41.18	0.74%	[500] ug/L
Ni 231.604†	15726.5	88.75	0.56%	[500] ug/L
P 214.914†	3160.5	21.80	0.69%	[2500] ug/L
Pb 220.353†	3142.4	26.88	0.86%	[500] ug/L

S 181.975 Axial†	538.0	7.18	1.34%	[1000] ug/L
Sb 206.836†	1153.9	4.12	0.36%	[500] ug/L
Se 196.026†	593.4	5.38	0.91%	[500] ug/L
Si 251.611†	64553.8	381.20	0.59%	[2500] ug/L
Sn 189.927†	2097.4	19.04	0.91%	[500] ug/L
Sr 421.552†	53471.0	1475.70	2.76%	[500] ug/L
Ti 334.940†	280215.3	1456.49	0.52%	[500] ug/L
Tl 190.801†	1253.7	4.01	0.32%	[500] ug/L
U 409.014†	17285.4	113.82	0.66%	[500] ug/L
V 292.402†	62720.1	360.37	0.57%	[500] ug/L
Zn 213.857†	40413.2	167.28	0.41%	[500] ug/L
SiO2†	64933.7	815.19	1.26%	[5347.5] ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/8/2010 14:04:32

Data Type: Reprocessed on 3/8/2010 16:11:05

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc 361.383	822269.2	822269.2	100.96	%	14:07:45
1	Sc Radial	3327.9	3327.9	98.9	%	14:06:46
1	Y 371.029	693776.6	693776.6	99.030	%	14:07:45
1	Y RADIAL	2748.1	2748.1	98.55	%	14:06:46
1	Ag 328.068†	197890.6	195806.2	[1000]	ug/L	14:07:45
1	Al 396.153Radial†	4695.1	4814.6	[10000]	ug/L	14:06:25
1	As 188.979†	1760.2	1761.0	[1000]	ug/L	14:08:05
1	B 249.677†	35829.0	35682.2	[1000]	ug/L	14:07:45
1	Ba 233.527†	106745.9	105732.6	[1000]	ug/L	14:07:45
1	Be 313.107†	2306085.5	2287714.6	[1000]	ug/L	14:07:45
1	Ca 317.933Radial†	2576.8	2593.4	[10000]	ug/L	14:06:46
1	Cd 226.502†	68172.8	67688.8	[1000]	ug/L	14:07:45
1	Co 228.616†	37898.3	37582.0	[1000]	ug/L	14:08:05
1	Cr 267.716†	76145.1	75348.1	[1000]	ug/L	14:07:45
1	Cu 324.752†	318069.8	309077.1	[1000]	ug/L	14:07:45
1	Fe 238.204 Radial†	372.8	369.5	[10000]	ug/L	14:06:46
1	K 766.490 Radial†	23927.0	22027.0	[10000]	ug/L	14:06:25
1	Mg 279.077 IEC†	107.5	107.2	[10000]	ug/L	14:06:46
1	Mn 257.610†	759860.6	752265.0	[1000]	ug/L	14:07:45
1	Mo 202.031†	11488.7	11372.7	[1000]	ug/L	14:08:05
1	Na 589.592 Radial†	30361.7	31457.2	[10000]	ug/L	14:06:25
1	Ni 231.604†	31241.5	30875.9	[1000]	ug/L	14:08:05
1	P 214.914†	6666.1	6425.3	[5000]	ug/L	14:08:05
1	Pb 220.353†	6322.9	6306.1	[1000]	ug/L	14:08:05
1	S 181.975 Axial†	1152.2	1114.4	[2000]	ug/L	14:08:05
1	Sb 206.836†	2411.2	2359.6	[1000]	ug/L	14:08:05
1	Se 196.026†	1192.0	1199.3	[1000]	ug/L	14:08:05
1	Si 251.611†	134931.4	133113.5	[5000]	ug/L	14:07:45
1	Sn 189.927†	4398.5	4349.6	[1000]	ug/L	14:08:05
1	Sr 421.552†	107123.6	108244.9	[1000]	ug/L	14:06:25
1	Ti 334.940†	589787.2	585211.8	[1000]	ug/L	14:07:45
1	Tl 190.801†	2528.6	2528.1	[1000]	ug/L	14:08:05
1	U 409.014†	32082.9	33828.9	[1000]	ug/L	14:07:45
1	V 292.402†	126240.0	126280.7	[1000]	ug/L	14:07:45
1	Zn 213.857†	82456.2	81166.6	[1000]	ug/L	14:07:45
1	SiO2†	135186.5	133380.0	[10695]	ug/L	14:09:05
2	Sc 361.383	852495.6	852495.6	104.67	%	14:08:12
2	Sc Radial	3327.1	3327.1	98.9	%	14:07:11
2	Y 371.029	720174.7	720174.7	102.80	%	14:08:12
2	Y RADIAL	2749.2	2749.2	98.58	%	14:07:11
2	Ag 328.068†	195334.3	186413.8	[1000]	ug/L	14:08:12
2	Al 396.153Radial†	4614.9	4734.9	[10000]	ug/L	14:06:51
2	As 188.979†	1745.7	1685.3	[1000]	ug/L	14:08:32
2	B 249.677†	35344.1	33960.6	[1000]	ug/L	14:08:12
2	Ba 233.527†	105299.6	100601.8	[1000]	ug/L	14:08:12
2	Be 313.107†	2275602.3	2177599.7	[1000]	ug/L	14:08:12
2	Ca 317.933Radial†	2579.3	2596.6	[10000]	ug/L	14:07:11
2	Cd 226.502†	67023.1	64196.1	[1000]	ug/L	14:08:12
2	Co 228.616†	37758.8	36117.7	[1000]	ug/L	14:08:32
2	Cr 267.716†	75024.9	71603.6	[1000]	ug/L	14:08:12
2	Cu 324.752†	313509.3	293549.2	[1000]	ug/L	14:08:12
2	Fe 238.204 Radial†	371.9	368.7	[10000]	ug/L	14:07:11
2	K 766.490 Radial†	23506.1	21607.7	[10000]	ug/L	14:06:51
2	Mg 279.077 IEC†	107.4	107.0	[10000]	ug/L	14:07:11
2	Mn 257.610†	748220.1	714456.8	[1000]	ug/L	14:08:12
2	Mo 202.031†	11457.8	10939.6	[1000]	ug/L	14:08:32
2	Na 589.592 Radial†	29642.9	30738.6	[10000]	ug/L	14:06:51
2	Ni 231.604†	31143.9	29685.4	[1000]	ug/L	14:08:32

2	P 214.914†	6641.3	6167.5	[5000]	ug/L	14:08:32
2	Pb 220.353†	6319.0	6080.3	[1000]	ug/L	14:08:32
2	S 181.975 Axial†	1148.4	1070.3	[2000]	ug/L	14:08:32
2	Sb 206.836†	2408.0	2271.9	[1000]	ug/L	14:08:32
2	Se 196.026†	1177.3	1143.4	[1000]	ug/L	14:08:32
2	Si 251.611†	132711.5	126253.7	[5000]	ug/L	14:08:12
2	Sn 189.927†	4366.5	4164.5	[1000]	ug/L	14:08:32
2	Sr 421.552†	104933.5	106058.9	[1000]	ug/L	14:06:51
2	Ti 334.940†	581093.8	556192.4	[1000]	ug/L	14:08:12
2	Tl 190.801†	2520.3	2431.4	[1000]	ug/L	14:08:32
2	U 409.014†	31648.7	32287.3	[1000]	ug/L	14:08:12
2	V 292.402†	124484.2	120169.5	[1000]	ug/L	14:08:12
2	Zn 213.857†	81183.8	77055.0	[1000]	ug/L	14:08:12
2	SiO2†	135587.0	129014.8	[10695]	ug/L	14:09:10
3	Sc 361.383	832423.6	832423.6	102.20	%	14:08:39
3	Sc Radial	3292.3	3292.3	97.9	%	14:07:36
3	Y 371.029	704204.8	704204.8	100.52	%	14:08:39
3	Y RADIAL	2729.7	2729.7	97.89	%	14:07:36
3	Ag 328.068†	198415.9	193929.0	[1000]	ug/L	14:08:39
3	Al 396.153Radial†	4732.2	4904.0	[10000]	ug/L	14:07:16
3	As 188.979†	1766.7	1746.1	[1000]	ug/L	14:08:59
3	B 249.677†	36133.1	35546.9	[1000]	ug/L	14:08:39
3	Ba 233.527†	107056.8	104746.9	[1000]	ug/L	14:08:39
3	Be 313.107†	2322408.8	2275821.4	[1000]	ug/L	14:08:39
3	Ca 317.933Radial†	2569.8	2614.5	[10000]	ug/L	14:07:36
3	Cd 226.502†	68301.1	66990.6	[1000]	ug/L	14:08:39
3	Co 228.616†	38061.0	37283.2	[1000]	ug/L	14:08:59
3	Cr 267.716†	76501.3	74776.5	[1000]	ug/L	14:08:39
3	Cu 324.752†	319292.3	306430.0	[1000]	ug/L	14:08:39
3	Fe 238.204 Radial†	375.1	375.9	[10000]	ug/L	14:07:36
3	K 766.490 Radial†	24005.0	22368.3	[10000]	ug/L	14:07:16
3	Mg 279.077 IEC†	106.3	107.1	[10000]	ug/L	14:07:36
3	Mn 257.610†	761663.1	744847.3	[1000]	ug/L	14:08:39
3	Mo 202.031†	11550.5	11294.3	[1000]	ug/L	14:08:59
3	Na 589.592 Radial†	30634.9	32068.5	[10000]	ug/L	14:07:16
3	Ni 231.604†	31418.1	30671.2	[1000]	ug/L	14:08:59
3	P 214.914†	6677.5	6355.9	[5000]	ug/L	14:08:59
3	Pb 220.353†	6355.3	6261.3	[1000]	ug/L	14:08:59
3	S 181.975 Axial†	1142.0	1090.6	[2000]	ug/L	14:08:59
3	Sb 206.836†	2450.0	2368.5	[1000]	ug/L	14:08:59
3	Se 196.026†	1196.0	1188.9	[1000]	ug/L	14:08:59
3	Si 251.611†	135172.7	131719.2	[5000]	ug/L	14:08:39
3	Sn 189.927†	4415.6	4313.2	[1000]	ug/L	14:08:59
3	Sr 421.552†	107610.0	109913.8	[1000]	ug/L	14:07:16
3	Ti 334.940†	591573.6	579833.3	[1000]	ug/L	14:08:39
3	Tl 190.801†	2534.3	2503.1	[1000]	ug/L	14:08:59
3	U 409.014†	32074.5	33433.0	[1000]	ug/L	14:08:39
3	V 292.402†	126920.7	125421.3	[1000]	ug/L	14:08:39
3	Zn 213.857†	82689.3	80398.3	[1000]	ug/L	14:08:39
3	SiO2†	133851.8	130440.6	[10695]	ug/L	14:09:15

## Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	835729.5	15382.01	1.84%	102.61 %
Sc Radial	3315.7	20.33	0.61%	98.6 %
Y 371.029	706052.0	13295.68	1.88%	100.78 %
Y RADIAL	2742.3	10.94	0.40%	98.34 %
Ag 328.068†	192049.7	4970.21	2.59%	[1000] ug/L
Al 396.153Radial†	4817.8	84.60	1.76%	[10000] ug/L
As 188.979†	1730.8	40.09	2.32%	[1000] ug/L
B 249.677†	35063.2	957.28	2.73%	[1000] ug/L
Ba 233.527†	103693.7	2722.69	2.63%	[1000] ug/L
Be 313.107†	2247045.2	60434.86	2.69%	[1000] ug/L
Ca 317.933Radial†	2601.5	11.36	0.44%	[10000] ug/L
Cd 226.502†	66291.9	1848.21	2.79%	[1000] ug/L
Co 228.616†	36994.3	773.72	2.09%	[1000] ug/L
Cr 267.716†	73909.4	2017.23	2.73%	[1000] ug/L
Cu 324.752†	303018.8	8307.01	2.74%	[1000] ug/L
Fe 238.204 Radial†	371.4	3.95	1.06%	[10000] ug/L

K 766.490 Radial†	22001.0	381.00	1.73%	[10000]	ug/L
Mg 279.077 IEC†	107.1	0.08	0.07%	[10000]	ug/L
Mn 257.610†	737189.7	20033.56	2.72%	[1000]	ug/L
Mo 202.031†	11202.2	230.75	2.06%	[1000]	ug/L
Na 589.592 Radial†	31421.4	665.69	2.12%	[10000]	ug/L
Ni 231.604†	30410.8	636.51	2.09%	[1000]	ug/L
P 214.914†	6316.2	133.41	2.11%	[5000]	ug/L
Pb 220.353†	6215.9	119.56	1.92%	[1000]	ug/L
S 181.975 Axial†	1091.8	22.08	2.02%	[2000]	ug/L
Sb 206.836†	2333.4	53.38	2.29%	[1000]	ug/L
Se 196.026†	1177.2	29.74	2.53%	[1000]	ug/L
Si 251.611†	130362.1	3625.66	2.78%	[5000]	ug/L
Sn 189.927†	4275.8	98.05	2.29%	[1000]	ug/L
Sr 421.552†	108072.6	1933.21	1.79%	[1000]	ug/L
Ti 334.940†	573745.8	15437.76	2.69%	[1000]	ug/L
Tl 190.801†	2487.5	50.22	2.02%	[1000]	ug/L
U 409.014†	33183.1	800.60	2.41%	[1000]	ug/L
V 292.402†	123957.2	3308.20	2.67%	[1000]	ug/L
Zn 213.857†	79539.9	2186.06	2.75%	[1000]	ug/L
SiO2†	130945.1	2225.92	1.70%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/8/2010 14:11:27

Data Type: Reprocessed on 3/8/2010 16:11:06

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	815838.5	815838.5	100.17 %	14:14:37
1	Sc Radial	3316.8	3316.8	98.6 %	14:13:40
1	Y 371.029	684711.8	684711.8	97.736 %	14:14:37
1	Y RADIAL	2726.6	2726.6	97.77 %	14:13:40
1	Al 396.153Radial†	23064.5	23458.3	[50000] ug/L	14:13:20
1	Ca 317.933Radial†	12453.0	12617.2	[50000] ug/L	14:13:20
1	Fe 238.204 Radial†	703.2	705.8	[20000] ug/L	14:13:40
1	Mg 279.077 IEC†	505.8	511.4	[50000] ug/L	14:13:40
1	Na 589.592 Radial†	58238.8	59829.0	[20000] ug/L	14:13:20
2	Sc 361.383	818576.8	818576.8	100.50 %	14:14:43
2	Sc Radial	3276.8	3276.8	97.4 %	14:14:05
2	Y 371.029	687931.8	687931.8	98.196 %	14:14:43
2	Y RADIAL	2694.7	2694.7	96.63 %	14:14:05
2	Al 396.153Radial†	23020.9	23699.3	[50000] ug/L	14:13:45
2	Ca 317.933Radial†	12490.1	12809.6	[50000] ug/L	14:13:45
2	Fe 238.204 Radial†	692.7	703.7	[20000] ug/L	14:14:05
2	Mg 279.077 IEC†	497.1	508.7	[50000] ug/L	14:14:05
2	Na 589.592 Radial†	57784.1	60083.6	[20000] ug/L	14:13:45
3	Sc 361.383	801491.3	801491.3	98.405 %	14:14:48
3	Sc Radial	3286.9	3286.9	97.7 %	14:14:30
3	Y 371.029	673523.4	673523.4	96.139 %	14:14:48
3	Y RADIAL	2696.5	2696.5	96.69 %	14:14:30
3	Al 396.153Radial†	22818.5	23419.7	[50000] ug/L	14:14:10
3	Ca 317.933Radial†	12394.9	12672.9	[50000] ug/L	14:14:10
3	Fe 238.204 Radial†	694.3	703.2	[20000] ug/L	14:14:30
3	Mg 279.077 IEC†	500.5	510.6	[50000] ug/L	14:14:30
3	Na 589.592 Radial†	57270.8	59376.5	[20000] ug/L	14:14:10

## Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib. Conc. Units
Sc 361.383	811968.8	9176.56	1.13%	99.692 %
Sc Radial	3293.5	20.82	0.63%	97.9 %
Y 371.029	682055.7	7562.53	1.11%	97.357 %
Y RADIAL	2705.9	17.90	0.66%	97.03 %
Al 396.153Radial†	23525.8	151.53	0.64%	[50000] ug/L
Ca 317.933Radial†	12699.9	98.97	0.78%	[50000] ug/L
Fe 238.204 Radial†	704.2	1.38	0.20%	[20000] ug/L
Mg 279.077 IEC†	510.2	1.36	0.27%	[50000] ug/L
Na 589.592 Radial†	59763.0	358.11	0.60%	[20000] ug/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	192.2	0.00000	0.999997	
Al 396.153Radial	3	Lin Thru 0	0.0	0.4710	0.00000	0.999988	
As 188.979	3	Lin Thru 0	0.0	1.733	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	35.08	0.00000	0.999997	
Ba 233.527	3	Lin Thru 0	0.0	104.0	0.00000	0.999986	
Be 313.107	3	Lin Thru 0	0.0	2257	0.00000	0.999965	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.2543	0.00000	0.999984	
Cd 226.502	3	Lin Thru 0	0.0	66.51	0.00000	0.999978	
Co 228.616	3	Lin Thru 0	0.0	37.29	0.00000	0.999881	
Cr 267.716	3	Lin Thru 0	0.0	74.15	0.00000	0.999979	
Cu 324.752	3	Lin Thru 0	0.0	303.3	0.00000	0.999997	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0356	0.00000	0.999765	

K 766.490 Radial	3	Lin Thru 0	0.0	2.195	0.00000	0.999986
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0102	0.00000	0.999934
Mn 257.610	3	Lin Thru 0	0.0	739.7	0.00000	0.999977
Mo 202.031	3	Lin Thru 0	0.0	11.19	0.00000	0.999995
Na 589.592 Radia	2	Lin Thru 0	0.0	3.019	0.00000	0.999792
Ni 231.604	3	Lin Thru 0	0.0	30.63	0.00000	0.999905
P 214.914	3	Lin Thru 0	0.0	1.263	0.00000	0.999999
Pb 220.353	3	Lin Thru 0	0.0	6.231	0.00000	0.999986
S 181.975 Axial	3	Lin Thru 0	0.0	0.5445	0.00000	0.999974
Sb 206.836	3	Lin Thru 0	0.0	2.328	0.00000	0.999990
Se 196.026	3	Lin Thru 0	0.0	1.179	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	26.02	0.00000	0.999992
Sn 189.927	3	Lin Thru 0	0.0	4.259	0.00000	0.999971
Sr 421.552	3	Lin Thru 0	0.0	107.8	0.00000	0.999990
Ti 334.940	3	Lin Thru 0	0.0	571.2	0.00000	0.999956
Tl 190.801	3	Lin Thru 0	0.0	2.492	0.00000	0.999993
U 409.014	3	Lin Thru 0	0.0	33.48	0.00000	0.999851
V 292.402	3	Lin Thru 0	0.0	124.3	0.00000	0.999988
Zn 213.857	3	Lin Thru 0	0.0	79.82	0.00000	0.999976
SiO2	3	Lin Thru 0	0.0	12.22	0.00000	0.999994

Sequence No.: 6

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/8/2010 14:17:00

Data Type: Reprocessed on 3/8/2010 16:11:06

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 361.383	840694.5	840694.5	103.22 %		14:20:10
1	Sc Radial	3292.1	3292.1	97.9 %		14:19:13
1	Y 371.029	713706.6	713706.6	101.87 %		14:20:10
1	Y RADIAL	2720.7	2720.7	97.56 %		14:19:13
1	Ag 328.068†	51468.6	49653.9	261.67 ug/L	261.67 ppb	14:20:10
1	Al 396.153Radial†	2369.7	2490.4	5261.3 ug/L	5261.3 ppb	14:18:53
1	As 188.979†	828.8	820.4	477.86 ug/L	477.86 ppb	14:20:31
1	B 249.677†	18657.0	18267.8	518.44 ug/L	518.44 ppb	14:20:10
1	Ba 233.527†	55651.9	53914.4	519.87 ug/L	519.87 ppb	14:20:10
1	Be 313.107†	615476.0	599758.1	266.93 ug/L	266.93 ppb	14:20:10
1	Ca 317.933Radial†	1292.4	1309.4	5148.9 ug/L	5148.9 ppb	14:19:13
1	Cd 226.502†	34640.1	33721.8	506.86 ug/L	506.86 ppb	14:20:10
1	Co 228.616†	20143.2	19557.8	524.66 ug/L	524.66 ppb	14:20:10
1	Cr 267.716†	38009.6	36748.7	496.32 ug/L	496.32 ppb	14:20:10
1	Cu 324.752†	167685.7	156477.3	515.87 ug/L	515.87 ppb	14:20:10
1	Fe 238.204 Radial†	193.9	190.8	5376.0 ug/L	5376.0 ppb	14:19:13
1	K 766.490 Radial†	7745.5	5757.5	2619.2 ug/L	2619.2 ppb	14:18:53
1	Mg 279.077 IEC†	50.9	50.5	4936.3 ug/L	4936.3 ppb	14:19:13
1	Mn 257.610†	399174.2	386329.5	522.63 ug/L	522.63 ppb	14:20:10
1	Mo 202.031†	6199.1	5998.6	536.60 ug/L	536.60 ppb	14:20:31
1	Na 589.592 Radial†	6719.0	7635.6	2529.2 ug/L	2529.2 ppb	14:18:53
1	Ni 231.604†	16541.6	15956.1	520.68 ug/L	520.68 ppb	14:20:10
1	P 214.914†	3458.4	3172.9	2411.2 ug/L	2411.2 ppb	14:20:31
1	Pb 220.353†	3182.8	3126.5	503.26 ug/L	503.26 ppb	14:20:31
1	S 181.975 Axial†	1426.2	1354.9	2487.3 ug/L	2487.3 ppb	14:20:31
1	Sb 206.836†	1243.0	1175.5	524.24 ug/L	524.24 ppb	14:20:31
1	Se 196.026†	3121.4	3042.7	2598.9 ug/L	2598.9 ppb	14:20:31
1	Si 251.611†	132769.9	128090.2	4915.4 ug/L	4915.4 ppb	14:20:10
1	Sn 189.927†	2362.6	2281.8	536.30 ug/L	536.30 ppb	14:20:31
1	Sr 421.552†	55971.1	57161.0	530.05 ug/L	530.05 ppb	14:18:53
1	Ti 334.940†	297350.5	289090.1	506.04 ug/L	506.04 ppb	14:20:10
1	Tl 190.801†	1338.2	1319.9	533.09 ug/L	533.09 ppb	14:20:31
1	U 409.014†	15186.6	16763.0	499.03 ug/L	499.03 ppb	14:20:10
1	V 292.402†	64914.5	64126.8	523.18 ug/L	523.18 ppb	14:20:10
1	Zn 213.857†	43427.5	41564.8	515.94 ug/L	515.94 ppb	14:20:10
1	SiO2†	130959.7	126350.2	10321 ug/L	10321 ppb	14:21:28
2	Sc 361.383	837441.2	837441.2	102.82 %		14:20:37
2	Sc Radial	3305.8	3305.8	98.3 %		14:19:38
2	Y 371.029	712264.4	712264.4	101.67 %		14:20:37
2	Y RADIAL	2720.9	2720.9	97.57 %		14:19:38
2	Ag 328.068†	51084.9	49474.3	260.70 ug/L	260.70 ppb	14:20:37
2	Al 396.153Radial†	2291.2	2400.6	5070.3 ug/L	5070.3 ppb	14:19:18
2	As 188.979†	833.2	827.8	482.07 ug/L	482.07 ppb	14:20:57
2	B 249.677†	18534.6	18219.1	517.07 ug/L	517.07 ppb	14:20:37
2	Ba 233.527†	55293.2	53775.0	518.53 ug/L	518.53 ppb	14:20:37
2	Be 313.107†	614112.4	600748.3	267.37 ug/L	267.37 ppb	14:20:37
2	Ca 317.933Radial†	1291.7	1303.3	5124.8 ug/L	5124.8 ppb	14:19:38
2	Cd 226.502†	34498.7	33714.6	506.76 ug/L	506.76 ppb	14:20:37
2	Co 228.616†	20071.0	19563.3	524.82 ug/L	524.82 ppb	14:20:37
2	Cr 267.716†	37842.4	36729.1	496.05 ug/L	496.05 ppb	14:20:37
2	Cu 324.752†	167027.5	156468.2	515.83 ug/L	515.83 ppb	14:20:37
2	Fe 238.204 Radial†	190.9	187.0	5268.2 ug/L	5268.2 ppb	14:19:38
2	K 766.490 Radial†	7462.6	5436.9	2473.2 ug/L	2473.2 ppb	14:19:18
2	Mg 279.077 IEC†	55.4	54.9	5362.8 ug/L	5362.8 ppb	14:19:38
2	Mn 257.610†	397325.6	386034.0	522.20 ug/L	522.20 ppb	14:20:37
2	Mo 202.031†	6232.3	6054.2	541.56 ug/L	541.56 ppb	14:20:57
2	Na 589.592 Radial†	6506.9	7391.3	2448.3 ug/L	2448.3 ppb	14:19:18
2	Ni 231.604†	16410.8	15891.2	518.56 ug/L	518.56 ppb	14:20:37



2	P 214.914†	3474.9	3202.0	2434.3 ug/L	2434.3 ppb	14:20:57
2	Pb 220.353†	3192.5	3147.9	506.68 ug/L	506.68 ppb	14:20:57
2	S 181.975 Axial†	1443.3	1376.9	2527.7 ug/L	2527.7 ppb	14:20:57
2	Sb 206.836†	1257.9	1194.7	532.68 ug/L	532.68 ppb	14:20:57
2	Se 196.026†	3149.2	3081.5	2631.5 ug/L	2631.5 ppb	14:20:57
2	Si 251.611†	132052.9	127892.5	4907.7 ug/L	4907.7 ppb	14:20:37
2	Sn 189.927†	2378.4	2305.9	541.98 ug/L	541.98 ppb	14:20:57
2	Sr 421.552†	53920.9	54837.7	508.50 ug/L	508.50 ppb	14:19:18
2	Ti 334.940†	296108.5	289001.2	505.84 ug/L	505.84 ppb	14:20:37
2	Tl 190.801†	1361.8	1347.9	544.33 ug/L	544.33 ppb	14:20:57
2	U 409.014†	15248.4	16880.2	502.55 ug/L	502.55 ppb	14:20:37
2	V 292.402†	64749.7	64210.9	523.96 ug/L	523.96 ppb	14:20:37
2	Zn 213.857†	43210.1	41516.8	515.36 ug/L	515.36 ppb	14:20:37
2	SiO2†	131336.4	127209.4	10391 ug/L	10391 ppb	14:21:33
3	Sc 361.383	831027.5	831027.5	102.03 %		14:21:03
3	Sc Radial	3338.6	3338.6	99.3 %		14:20:03
3	Y 371.029	706096.0	706096.0	100.79 %		14:21:03
3	Y RADIAL	2745.0	2745.0	98.43 %		14:20:03
3	Ag 328.068†	50822.4	49600.5	261.34 ug/L	261.34 ppb	14:21:03
3	Al 396.153Radial†	2248.1	2334.3	4929.3 ug/L	4929.3 ppb	14:19:43
3	As 188.979†	824.0	825.1	480.48 ug/L	480.48 ppb	14:21:23
3	B 249.677†	18409.6	18235.6	517.55 ug/L	517.55 ppb	14:21:03
3	Ba 233.527†	54964.6	53867.9	519.42 ug/L	519.42 ppb	14:21:03
3	Be 313.107†	609964.8	601293.0	267.61 ug/L	267.61 ppb	14:21:03
3	Ca 317.933Radial†	1303.0	1301.7	5118.6 ug/L	5118.6 ppb	14:20:03
3	Cd 226.502†	34297.0	33775.9	507.69 ug/L	507.69 ppb	14:21:03
3	Co 228.616†	19994.4	19638.9	526.86 ug/L	526.86 ppb	14:21:03
3	Cr 267.716†	37684.0	36857.9	497.79 ug/L	497.79 ppb	14:21:03
3	Cu 324.752†	165339.9	156068.0	514.51 ug/L	514.51 ppb	14:21:03
3	Fe 238.204 Radial†	190.0	184.1	5188.4 ug/L	5188.4 ppb	14:20:03
3	K 766.490 Radial†	7458.0	5357.7	2437.1 ug/L	2437.1 ppb	14:19:43
3	Mg 279.077 IEC†	57.3	56.2	5495.8 ug/L	5495.8 ppb	14:20:03
3	Mn 257.610†	394858.6	386598.5	522.95 ug/L	522.95 ppb	14:21:03
3	Mo 202.031†	6224.1	6093.0	545.02 ug/L	545.02 ppb	14:21:23
3	Na 589.592 Radial†	6390.7	7209.2	2388.0 ug/L	2388.0 ppb	14:19:43
3	Ni 231.604†	16343.4	15948.3	520.42 ug/L	520.42 ppb	14:21:03
3	P 214.914†	3467.7	3221.0	2449.7 ug/L	2449.7 ppb	14:21:23
3	Pb 220.353†	3204.5	3183.7	512.40 ug/L	512.40 ppb	14:21:23
3	S 181.975 Axial†	1449.1	1393.4	2558.1 ug/L	2558.1 ppb	14:21:23
3	Sb 206.836†	1246.5	1193.0	532.04 ug/L	532.04 ppb	14:21:23
3	Se 196.026†	3126.7	3083.1	2632.6 ug/L	2632.6 ppb	14:21:23
3	Si 251.611†	130905.9	127759.6	4902.6 ug/L	4902.6 ppb	14:21:03
3	Sn 189.927†	2363.9	2309.6	542.84 ug/L	542.84 ppb	14:21:23
3	Sr 421.552†	53046.3	53417.9	495.34 ug/L	495.34 ppb	14:19:43
3	Ti 334.940†	293720.5	288883.4	505.63 ug/L	505.63 ppb	14:21:03
3	Tl 190.801†	1359.4	1355.8	547.48 ug/L	547.48 ppb	14:21:23
3	U 409.014†	14811.4	16566.4	493.18 ug/L	493.18 ppb	14:21:03
3	V 292.402†	64211.6	64169.5	523.67 ug/L	523.67 ppb	14:21:03
3	Zn 213.857†	42910.4	41547.4	515.75 ug/L	515.75 ppb	14:21:03
3	SiO2†	130732.8	127603.7	10424 ug/L	10424 ppb	14:21:38

## Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836387.7	102.69 %	0.604			0.59%
Sc Radial	3312.2	98.5 %	0.71			0.72%
Y 371.029	710689.0	101.44 %	0.577			0.57%
Y RADIAL	2728.9	97.86 %	0.501			0.51%
Ag 328.068†	49576.2	261.24 ug/L	0.492	261.24 ppb	0.492	0.19%
QC value within limits for Ag 328.068 Recovery = 104.49%						
Al 396.153Radial†	2408.4	5087.0 ug/L	166.62	5087.0 ppb	166.62	3.28%
QC value within limits for Al 396.153Radial Recovery = 101.74%						
As 188.979†	824.4	480.13 ug/L	2.128	480.13 ppb	2.128	0.44%
QC value within limits for As 188.979 Recovery = 96.03%						
B 249.677†	18240.9	517.69 ug/L	0.697	517.69 ppb	0.697	0.13%
QC value within limits for B 249.677 Recovery = 103.54%						
Ba 233.527†	53852.4	519.27 ug/L	0.683	519.27 ppb	0.683	0.13%
QC value within limits for Ba 233.527 Recovery = 103.85%						
Be 313.107†	600599.8	267.30 ug/L	0.344	267.30 ppb	0.344	0.13%
QC value within limits for Be 313.107 Recovery = 106.92%						

Ca 317.933Radial†	1304.8	5130.8 ug/L	15.98	5130.8 ppb	15.98	0.31%
QC value within limits for Ca 317.933Radial Recovery = 102.62%						
Cd 226.502†	33737.4	507.11 ug/L	0.511	507.11 ppb	0.511	0.10%
QC value within limits for Cd 226.502 Recovery = 101.42%						
Co 228.616†	19586.6	525.45 ug/L	1.225	525.45 ppb	1.225	0.23%
QC value within limits for Co 228.616 Recovery = 105.09%						
Cr 267.716†	36778.6	496.72 ug/L	0.935	496.72 ppb	0.935	0.19%
QC value within limits for Cr 267.716 Recovery = 99.34%						
Cu 324.752†	156337.8	515.41 ug/L	0.772	515.41 ppb	0.772	0.15%
QC value within limits for Cu 324.752 Recovery = 103.08%						
Fe 238.204 Radial†	187.3	5277.5 ug/L	94.13	5277.5 ppb	94.13	1.78%
QC value within limits for Fe 238.204 Radial Recovery = 105.55%						
K 766.490 Radial†	5517.4	2509.8 ug/L	96.42	2509.8 ppb	96.42	3.84%
QC value within limits for K 766.490 Radial Recovery = 100.39%						
Mg 279.077 IEC†	53.9	5265.0 ug/L	292.33	5265.0 ppb	292.33	5.55%
QC value within limits for Mg 279.077 IEC Recovery = 105.30%						
Mn 257.610†	386320.7	522.59 ug/L	0.376	522.59 ppb	0.376	0.07%
QC value within limits for Mn 257.610 Recovery = 104.52%						
Mo 202.031†	6048.6	541.06 ug/L	4.231	541.06 ppb	4.231	0.78%
QC value within limits for Mo 202.031 Recovery = 108.21%						
Na 589.592 Radial†	7412.0	2455.2 ug/L	70.87	2455.2 ppb	70.87	2.89%
QC value within limits for Na 589.592 Radial Recovery = 98.21%						
Ni 231.604†	15931.8	519.89 ug/L	1.157	519.89 ppb	1.157	0.22%
QC value within limits for Ni 231.604 Recovery = 103.98%						
P 214.914†	3198.6	2431.7 ug/L	19.38	2431.7 ppb	19.38	0.80%
QC value within limits for P 214.914 Recovery = 97.27%						
Pb 220.353†	3152.7	507.44 ug/L	4.619	507.44 ppb	4.619	0.91%
QC value within limits for Pb 220.353 Recovery = 101.49%						
S 181.975 Axial†	1375.1	2524.4 ug/L	35.48	2524.4 ppb	35.48	1.41%
QC value within limits for S 181.975 Axial Recovery = 100.97%						
Sb 206.836†	1187.7	529.65 ug/L	4.700	529.65 ppb	4.700	0.89%
QC value within limits for Sb 206.836 Recovery = 105.93%						
Se 196.026†	3069.1	2621.0 ug/L	19.14	2621.0 ppb	19.14	0.73%
QC value within limits for Se 196.026 Recovery = 104.84%						
Si 251.611†	127914.1	4908.6 ug/L	6.44	4908.6 ppb	6.44	0.13%
QC value within limits for Si 251.611 Recovery = 98.17%						
Sn 189.927†	2299.1	540.37 ug/L	3.555	540.37 ppb	3.555	0.66%
QC value within limits for Sn 189.927 Recovery = 108.07%						
Sr 421.552†	55138.9	511.30 ug/L	17.523	511.30 ppb	17.523	3.43%
QC value within limits for Sr 421.552 Recovery = 102.26%						
Ti 334.940†	288991.6	505.83 ug/L	0.205	505.83 ppb	0.205	0.04%
QC value within limits for Ti 334.940 Recovery = 101.17%						
Tl 190.801†	1341.2	541.63 ug/L	7.564	541.63 ppb	7.564	1.40%
QC value within limits for Tl 190.801 Recovery = 108.33%						
U 409.014†	16736.5	498.25 ug/L	4.733	498.25 ppb	4.733	0.95%
QC value within limits for U 409.014 Recovery = 99.65%						
V 292.402†	64169.1	523.60 ug/L	0.393	523.60 ppb	0.393	0.08%
QC value within limits for V 292.402 Recovery = 104.72%						
Zn 213.857†	41543.0	515.68 ug/L	0.292	515.68 ppb	0.292	0.06%
QC value within limits for Zn 213.857 Recovery = 103.14%						
SiO2†	127054.4	10379 ug/L	52.3	10379 ppb	52.3	0.50%
QC value within limits for SiO2 Recovery = 97.04%						
All analyte(s) passed QC.						

Sequence No.: 7

Autosampler Location: 10

Sample ID: ICB

Date Collected: 3/8/2010 14:23:49

Analyst:

Data Type: Reprocessed on 3/8/2010 16:11:09

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

## Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	828144.9	828144.9	101.68 %		14:26:59
1	Sc Radial	3337.9	3337.9	99.2 %		14:26:02
1	Y 371.029	709489.2	709489.2	101.27 %		14:26:59
1	Y RADIAL	2783.1	2783.1	99.80 %		14:26:02
1	Ag 328.068†	184.0	-28.9	-0.1281 ug/L	-0.1281 ppb	14:26:59
1	Al 396.153Radial†	-73.6	-4.8	-10.237 ug/L	-10.237 ppb	14:26:02
1	As 188.979†	-23.9	-6.0	-3.4604 ug/L	-3.4604 ppb	14:27:19
1	B 249.677†	-145.2	49.8	1.4075 ug/L	1.4075 ppb	14:27:19
1	Ba 233.527†	-0.1	-2.3	-0.0190 ug/L	-0.0190 ppb	14:27:19
1	Be 313.107†	-3476.8	54.3	0.0243 ug/L	0.0243 ppb	14:26:59
1	Ca 317.933Radial†	9.7	-1.2	-4.7152 ug/L	-4.7152 ppb	14:26:02
1	Cd 226.502†	-148.5	15.8	0.2297 ug/L	0.2297 ppb	14:27:19
1	Co 228.616†	-48.9	-5.5	-0.1477 ug/L	-0.1477 ppb	14:27:19
1	Cr 267.716†	85.3	8.2	0.1127 ug/L	0.1127 ppb	14:27:19
1	Cu 324.752†	6020.1	-58.9	-0.1917 ug/L	-0.1917 ppb	14:26:59
1	Fe 238.204 Radial†	10.0	2.8	78.114 ug/L	78.114 ppb	14:26:02
1	K 766.490 Radial†	2167.8	28.4	12.958 ug/L	12.958 ppb	14:25:42
1	Mg 279.077 IEC†	-0.0	-1.6	-154.54 ug/L	-154.54 ppb	14:26:02
1	Mn 257.610†	428.9	24.1	0.0466 ug/L	0.0466 ppb	14:27:19
1	Mo 202.031†	12.4	5.0	0.4529 ug/L	0.4529 ppb	14:27:19
1	Na 589.592 Radial†	-808.3	-43.7	-14.480 ug/L	-14.480 ppb	14:25:42
1	Ni 231.604†	68.6	-2.2	-0.0713 ug/L	-0.0713 ppb	14:27:19
1	P 214.914†	173.1	-7.4	-5.8760 ug/L	-5.8760 ppb	14:27:19
1	Pb 220.353†	-35.9	7.7	1.2272 ug/L	1.2272 ppb	14:27:19
1	S 181.975 Axial†	25.1	-2.1	-3.8720 ug/L	-3.8720 ppb	14:27:19
1	Sb 206.836†	28.9	-0.3	-0.0792 ug/L	-0.0792 ppb	14:27:19
1	Se 196.026†	-23.0	-4.0	-3.1936 ug/L	-3.1936 ppb	14:27:19
1	Si 251.611†	547.0	-1.7	-0.0726 ug/L	-0.0726 ppb	14:27:19
1	Sn 189.927†	14.7	7.3	1.7041 ug/L	1.7041 ppb	14:27:19
1	Sr 421.552†	49.2	25.0	0.2323 ug/L	0.2323 ppb	14:25:42
1	Ti 334.940†	-970.2	57.2	0.1108 ug/L	0.1108 ppb	14:26:59
1	Tl 190.801†	-23.7	0.2	0.0680 ug/L	0.0680 ppb	14:27:19
1	U 409.014†	-1975.4	107.1	3.1916 ug/L	3.1916 ppb	14:26:59
1	V 292.402†	-1229.1	27.7	0.2205 ug/L	0.2205 ppb	14:26:59
1	Zn 213.857†	517.0	-0.1	-0.0118 ug/L	-0.0118 ppb	14:27:19
1	SiO2†	523.7	-10.9	-0.9011 ug/L	-0.9011 ppb	14:28:30
2	Sc 361.383	811188.3	811188.3	99.596 %		14:27:24
2	Sc Radial	3417.8	3417.8	102 %		14:26:27
2	Y 371.029	696037.7	696037.7	99.353 %		14:27:24
2	Y RADIAL	2833.1	2833.1	101.6 %		14:26:27
2	Ag 328.068†	198.2	-10.9	-0.0557 ug/L	-0.0557 ppb	14:27:24
2	Al 396.153Radial†	-78.2	-7.6	-16.140 ug/L	-16.140 ppb	14:26:27
2	As 188.979†	-18.2	-0.8	-0.4696 ug/L	-0.4696 ppb	14:27:44
2	B 249.677†	-163.3	28.7	0.8168 ug/L	0.8168 ppb	14:27:44
2	Ba 233.527†	2.8	0.6	0.0060 ug/L	0.0060 ppb	14:27:44
2	Be 313.107†	-3399.6	60.3	0.0268 ug/L	0.0268 ppb	14:27:24
2	Ca 317.933Radial†	12.0	0.8	3.2092 ug/L	3.2092 ppb	14:26:27
2	Cd 226.502†	-157.2	4.0	0.0594 ug/L	0.0594 ppb	14:27:44
2	Co 228.616†	-46.0	-3.6	-0.0969 ug/L	-0.0969 ppb	14:27:44
2	Cr 267.716†	76.7	1.3	0.0174 ug/L	0.0174 ppb	14:27:44
2	Cu 324.752†	5941.1	-14.5	-0.0486 ug/L	-0.0486 ppb	14:27:24
2	Fe 238.204 Radial†	7.6	0.2	6.8854 ug/L	6.8854 ppb	14:26:27
2	K 766.490 Radial†	2119.6	-70.0	-31.913 ug/L	-31.913 ppb	14:26:07
2	Mg 279.077 IEC†	-0.3	-1.8	-175.27 ug/L	-175.27 ppb	14:26:27
2	Mn 257.610†	457.5	61.7	0.0912 ug/L	0.0912 ppb	14:27:44
2	Mo 202.031†	7.4	0.3	0.0256 ug/L	0.0256 ppb	14:27:44
2	Na 589.592 Radial†	-769.5	13.5	4.4761 ug/L	4.4761 ppb	14:26:07
2	Ni 231.604†	62.4	-7.0	-0.2290 ug/L	-0.2290 ppb	14:27:44

2	P 214.914†	173.1	-3.8	-2.9920 ug/L	-2.9920 ppb	14:27:44
2	Pb 220.353†	-36.0	6.8	1.0897 ug/L	1.0897 ppb	14:27:44
2	S 181.975 Axial†	29.8	3.1	5.6326 ug/L	5.6326 ppb	14:27:44
2	Sb 206.836†	28.8	0.1	0.1058 ug/L	0.1058 ppb	14:27:44
2	Se 196.026†	-13.0	5.6	4.7335 ug/L	4.7335 ppb	14:27:44
2	Si 251.611†	520.0	-17.7	-0.6798 ug/L	-0.6798 ppb	14:27:44
2	Sn 189.927†	18.8	11.7	2.7384 ug/L	2.7384 ppb	14:27:44
2	Sr 421.552†	13.9	-10.8	-0.1006 ug/L	-0.1006 ppb	14:26:07
2	Ti 334.940†	-986.5	20.9	0.0505 ug/L	0.0505 ppb	14:27:24
2	Tl 190.801†	-27.6	-4.3	-1.7094 ug/L	-1.7094 ppb	14:27:44
2	U 409.014†	-1975.2	66.7	1.9902 ug/L	1.9902 ppb	14:27:24
2	V 292.402†	-1216.6	15.0	0.1202 ug/L	0.1202 ppb	14:27:24
2	Zn 213.857†	519.7	13.2	0.1663 ug/L	0.1663 ppb	14:27:44
2	SiO2†	518.5	-5.3	-0.4345 ug/L	-0.4345 ppb	14:28:50
3	Sc 361.383	823542.0	823542.0	101.11 %		14:27:49
3	Sc Radial	3373.1	3373.1	100 %		14:26:52
3	Y 371.029	706933.6	706933.6	100.91 %		14:27:49
3	Y RADIAL	2794.5	2794.5	100.2 %		14:26:52
3	Ag 328.068†	213.2	0.9	0.0174 ug/L	0.0174 ppb	14:27:49
3	Al 396.153Radial†	-79.8	-10.2	-21.673 ug/L	-21.673 ppb	14:26:52
3	As 188.979†	-18.4	-0.7	-0.4205 ug/L	-0.4205 ppb	14:28:09
3	B 249.677†	-156.5	37.9	1.0763 ug/L	1.0763 ppb	14:28:09
3	Ba 233.527†	6.8	4.6	0.0462 ug/L	0.0462 ppb	14:28:09
3	Be 313.107†	-3445.0	66.7	0.0296 ug/L	0.0296 ppb	14:27:49
3	Ca 317.933Radial†	9.6	-1.4	-5.5163 ug/L	-5.5163 ppb	14:26:52
3	Cd 226.502†	-160.9	2.6	0.0365 ug/L	0.0365 ppb	14:28:09
3	Co 228.616†	-53.1	-9.9	-0.2674 ug/L	-0.2674 ppb	14:28:09
3	Cr 267.716†	67.5	-9.0	-0.1180 ug/L	-0.1180 ppb	14:28:09
3	Cu 324.752†	5933.7	-111.3	-0.3641 ug/L	-0.3641 ppb	14:27:49
3	Fe 238.204 Radial†	8.1	0.8	23.774 ug/L	23.774 ppb	14:26:52
3	K 766.490 Radial†	2197.3	35.1	15.970 ug/L	15.970 ppb	14:26:32
3	Mg 279.077 IEC†	0.8	-0.7	-70.239 ug/L	-70.239 ppb	14:26:52
3	Mn 257.610†	445.7	43.1	0.0635 ug/L	0.0635 ppb	14:28:09
3	Mo 202.031†	1.4	-5.8	-0.5177 ug/L	-0.5177 ppb	14:28:09
3	Na 589.592 Radial†	-740.1	32.8	10.849 ug/L	10.849 ppb	14:26:32
3	Ni 231.604†	60.2	-10.1	-0.3309 ug/L	-0.3309 ppb	14:28:09
3	P 214.914†	173.8	-5.7	-4.4829 ug/L	-4.4829 ppb	14:28:09
3	Pb 220.353†	-44.0	-0.5	-0.0901 ug/L	-0.0901 ppb	14:28:09
3	S 181.975 Axial†	24.7	-2.4	-4.3504 ug/L	-4.3504 ppb	14:28:09
3	Sb 206.836†	24.7	-4.3	-1.8260 ug/L	-1.8260 ppb	14:28:09
3	Se 196.026†	-27.0	-8.1	-6.8092 ug/L	-6.8092 ppb	14:28:09
3	Si 251.611†	506.2	-39.1	-1.4972 ug/L	-1.4972 ppb	14:28:09
3	Sn 189.927†	10.3	3.0	0.6923 ug/L	0.6923 ppb	14:28:09
3	Sr 421.552†	0.7	-23.8	-0.2208 ug/L	-0.2208 ppb	14:26:32
3	Ti 334.940†	-1020.4	2.3	0.0104 ug/L	0.0104 ppb	14:27:49
3	Tl 190.801†	-25.4	-1.7	-0.6727 ug/L	-0.6727 ppb	14:28:09
3	U 409.014†	-2172.6	-98.8	-2.9534 ug/L	-2.9534 ppb	14:27:49
3	V 292.402†	-1164.5	84.8	0.6644 ug/L	0.6644 ppb	14:27:49
3	Zn 213.857†	512.3	-1.9	-0.0245 ug/L	-0.0245 ppb	14:28:09
3	SiO2†	527.5	-4.3	-0.3344 ug/L	-0.3344 ppb	14:29:10

## Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820958.4	100.80 %	1.077			1.07%
Sc Radial	3376.2	100 %	1.2			1.19%
Y 371.029	704153.5	100.51 %	1.020			1.01%
Y RADIAL	2803.6	100.5 %	0.94			0.93%
Ag 328.068†	-13.0	-0.0555 ug/L	0.07276	-0.0555 ppb	0.07276	131.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.5	-16.017 ug/L	5.7189	-16.017 ppb	5.7189	35.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.5	-1.4502 ug/L	1.74107	-1.4502 ppb	1.74107	120.06%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	38.8	1.1002 ug/L	0.29610	1.1002 ppb	0.29610	26.91%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.0	0.0111 ug/L	0.03290	0.0111 ppb	0.03290	297.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	60.4	0.0269 ug/L	0.00263	0.0269 ppb	0.00263	9.78%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	-0.6	-2.3408 ug/L	4.82307	-2.3408 ppb	4.82307	206.05%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.5	0.1085 ug/L	0.10555	0.1085 ppb	0.10555	97.26%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.3	-0.1706 ug/L	0.08753	-0.1706 ppb	0.08753	51.29%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.2	0.0040 ug/L	0.11591	0.0040 ppb	0.11591	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-61.6	-0.2015 ug/L	0.15797	-0.2015 ppb	0.15797	78.41%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.3	36.258 ug/L	37.2188	36.258 ppb	37.2188	102.65%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-2.2	-0.9949 ug/L	26.81793	-0.9949 ppb	26.81793	>999.9%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.4	-133.35 ug/L	55.629	-133.35 ppb	55.629	41.72%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	43.0	0.0671 ug/L	0.02252	0.0671 ppb	0.02252	33.55%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.2	-0.0131 ug/L	0.48646	-0.0131 ppb	0.48646	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	0.8	0.2815 ug/L	13.17532	0.2815 ppb	13.17532	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-6.4	-0.2104 ug/L	0.13080	-0.2104 ppb	0.13080	62.16%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.7	-4.4503 ug/L	1.44227	-4.4503 ppb	1.44227	32.41%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.7	0.7423 ug/L	0.72409	0.7423 ppb	0.72409	97.55%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.5	-0.8633 ug/L	5.63066	-0.8633 ppb	5.63066	652.23%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.5	-0.5998 ug/L	1.06592	-0.5998 ppb	1.06592	177.72%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.2	-1.7564 ug/L	5.90404	-1.7564 ppb	5.90404	336.14%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-19.5	-0.7499 ug/L	0.71488	-0.7499 ppb	0.71488	95.33%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	7.3	1.7116 ug/L	1.02307	1.7116 ppb	1.02307	59.77%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-3.2	-0.0297 ug/L	0.23472	-0.0297 ppb	0.23472	790.19%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	26.8	0.0572 ug/L	0.05053	0.0572 ppb	0.05053	88.33%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.9	-0.7714 ug/L	0.89284	-0.7714 ppb	0.89284	115.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	25.0	0.7428 ug/L	3.25685	0.7428 ppb	3.25685	438.46%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	42.5	0.3350 ug/L	0.28963	0.3350 ppb	0.28963	86.45%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	3.8	0.0433 ug/L	0.10668	0.0433 ppb	0.10668	246.30%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-6.8	-0.5566 ug/L	0.30246	-0.5566 ppb	0.30246	54.34%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8

Sample ID: PQL

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/8/2010 14:31:22

Data Type: Reprocessed on 3/8/2010 16:11:10

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	823884.9	823884.9	101.15 %			14:34:32
1	Sc Radial	3367.6	3367.6	100 %			14:33:35
1	Y 371.029	707188.3	707188.3	100.94 %			14:34:32
1	Y RADIAL	2803.0	2803.0	100.5 %			14:33:35
1	Ag 328.068†	1197.3	973.7	5.0730 ug/L		5.0730 ppb	14:34:32
1	Al 396.153Radial†	27.9	97.2	205.88 ug/L		205.88 ppb	14:33:35
1	As 188.979†	32.5	49.6	28.647 ug/L		28.647 ppb	14:34:52
1	B 249.677†	1459.7	1635.7	46.601 ug/L		46.601 ppb	14:34:32
1	Ba 233.527†	531.7	523.5	5.0491 ug/L		5.0491 ppb	14:34:52
1	Be 313.107†	8000.8	11383.3	5.0560 ug/L		5.0560 ppb	14:34:32
1	Ca 317.933Radial†	62.5	51.4	202.21 ug/L		202.21 ppb	14:33:35
1	Cd 226.502†	179.2	339.0	5.0989 ug/L		5.0989 ppb	14:34:52
1	Co 228.616†	155.2	196.0	5.2696 ug/L		5.2696 ppb	14:34:52
1	Cr 267.716†	437.0	356.3	4.7942 ug/L		4.7942 ppb	14:34:52
1	Cu 324.752†	9188.6	3104.1	10.208 ug/L		10.208 ppb	14:34:32
1	Fe 238.204 Radial†	11.2	3.9	110.32 ug/L		110.32 ppb	14:33:35
1	K 766.490 Radial†	2442.3	283.2	128.81 ug/L		128.81 ppb	14:33:15
1	Mg 279.077 IEC†	4.7	3.2	309.01 ug/L		309.01 ppb	14:33:35
1	Mn 257.610†	8290.9	7798.6	10.542 ug/L		10.542 ppb	14:34:32
1	Mo 202.031†	122.9	114.3	10.231 ug/L		10.231 ppb	14:34:52
1	Na 589.592 Radial†	260.4	1030.9	341.47 ug/L		341.47 ppb	14:33:15
1	Ni 231.604†	217.4	145.2	4.7380 ug/L		4.7380 ppb	14:34:52
1	P 214.914†	361.0	179.2	139.89 ug/L		139.89 ppb	14:34:52
1	Pb 220.353†	18.2	61.0	9.8346 ug/L		9.8346 ppb	14:34:52
1	S 181.975 Axial†	90.0	62.2	114.16 ug/L		114.16 ppb	14:34:52
1	Sb 206.836†	48.6	19.3	8.6478 ug/L		8.6478 ppb	14:34:52
1	Se 196.026†	22.8	41.1	35.284 ug/L		35.284 ppb	14:34:52
1	Si 251.611†	3087.1	2512.1	96.406 ug/L		96.406 ppb	14:34:52
1	Sn 189.927†	52.4	44.6	10.506 ug/L		10.506 ppb	14:34:52
1	Sr 421.552†	580.3	555.0	5.1457 ug/L		5.1457 ppb	14:33:15
1	Ti 334.940†	1917.2	2906.8	5.0650 ug/L		5.0650 ppb	14:34:32
1	Tl 190.801†	36.1	59.1	23.796 ug/L		23.796 ppb	14:34:52
1	U 409.014†	-191.5	1860.6	55.557 ug/L		55.557 ppb	14:34:32
1	V 292.402†	-636.2	607.5	5.1224 ug/L		5.1224 ppb	14:34:32
1	Zn 213.857†	1330.7	807.0	10.050 ug/L		10.050 ppb	14:34:52
1	SiO2†	3170.0	2607.8	213.05 ug/L		213.05 ppb	14:35:48
2	Sc 361.383	832183.4	832183.4	102.17 %			14:34:57
2	Sc Radial	3359.3	3359.3	99.9 %			14:34:00
2	Y 371.029	713404.6	713404.6	101.83 %			14:34:57
2	Y RADIAL	2808.4	2808.4	100.7 %			14:34:00
2	Ag 328.068†	1096.6	863.4	4.5137 ug/L		4.5137 ppb	14:34:57
2	Al 396.153Radial†	29.4	98.8	209.28 ug/L		209.28 ppb	14:34:00
2	As 188.979†	27.6	44.4	25.683 ug/L		25.683 ppb	14:35:17
2	B 249.677†	1452.3	1614.0	45.976 ug/L		45.976 ppb	14:34:57
2	Ba 233.527†	537.2	523.5	5.0518 ug/L		5.0518 ppb	14:35:17
2	Be 313.107†	8156.8	11457.1	5.0884 ug/L		5.0884 ppb	14:34:57
2	Ca 317.933Radial†	57.8	46.9	184.34 ug/L		184.34 ppb	14:34:00
2	Cd 226.502†	174.0	332.1	4.9912 ug/L		4.9912 ppb	14:35:17
2	Co 228.616†	143.5	183.1	4.9207 ug/L		4.9207 ppb	14:35:17
2	Cr 267.716†	435.8	350.8	4.7225 ug/L		4.7225 ppb	14:35:17
2	Cu 324.752†	9173.5	2998.7	9.8630 ug/L		9.8630 ppb	14:34:57
2	Fe 238.204 Radial†	12.7	5.5	153.48 ug/L		153.48 ppb	14:34:00
2	K 766.490 Radial†	2452.5	299.5	136.23 ug/L		136.23 ppb	14:33:40
2	Mg 279.077 IEC†	5.8	4.2	414.31 ug/L		414.31 ppb	14:34:00
2	Mn 257.610†	8325.4	7750.6	10.477 ug/L		10.477 ppb	14:34:57
2	Mo 202.031†	123.0	113.2	10.131 ug/L		10.131 ppb	14:35:17
2	Na 589.592 Radial†	216.1	987.2	327.00 ug/L		327.00 ppb	14:33:40
2	Ni 231.604†	208.3	134.2	4.3782 ug/L		4.3782 ppb	14:35:17

2	P 214.914†	359.8	174.5	136.22 ug/L	136.22 ppb	14:35:17
2	Pb 220.353†	28.1	70.5	11.367 ug/L	11.367 ppb	14:35:17
2	S 181.975 Axial†	80.6	52.0	95.471 ug/L	95.471 ppb	14:35:17
2	Sb 206.836†	53.0	23.1	10.293 ug/L	10.293 ppb	14:35:17
2	Se 196.026†	18.0	36.2	31.249 ug/L	31.249 ppb	14:35:17
2	Si 251.611†	3091.1	2485.6	95.386 ug/L	95.386 ppb	14:35:17
2	Sn 189.927†	50.0	41.8	9.8295 ug/L	9.8295 ppb	14:35:17
2	Sr 421.552†	602.3	578.5	5.3638 ug/L	5.3638 ppb	14:33:40
2	Ti 334.940†	1880.1	2851.6	4.9574 ug/L	4.9574 ppb	14:34:57
2	Tl 190.801†	23.5	46.5	18.713 ug/L	18.713 ppb	14:35:17
2	U 409.014†	-185.0	1868.8	55.798 ug/L	55.798 ppb	14:34:57
2	V 292.402†	-596.8	652.4	5.4784 ug/L	5.4784 ppb	14:34:57
2	Zn 213.857†	1315.1	778.6	9.6903 ug/L	9.6903 ppb	14:35:17
2	SiO2†	3141.3	2548.5	208.20 ug/L	208.20 ppb	14:35:53
3	Sc 361.383	806189.4	806189.4	98.982 %		14:35:23
3	Sc Radial	3372.8	3372.8	100 %		14:34:25
3	Y 371.029	691407.0	691407.0	98.692 %		14:35:23
3	Y RADIAL	2812.4	2812.4	100.9 %		14:34:25
3	Ag 328.068†	1136.4	938.2	4.8940 ug/L	4.8940 ppb	14:35:23
3	Al 396.153Radial†	23.0	92.3	195.35 ug/L	195.35 ppb	14:34:25
3	As 188.979†	35.4	53.2	30.768 ug/L	30.768 ppb	14:35:43
3	B 249.677†	1425.1	1632.4	46.503 ug/L	46.503 ppb	14:35:23
3	Ba 233.527†	553.0	556.5	5.3668 ug/L	5.3668 ppb	14:35:43
3	Be 313.107†	7830.4	11384.7	5.0566 ug/L	5.0566 ppb	14:35:23
3	Ca 317.933Radial†	59.9	48.8	191.85 ug/L	191.85 ppb	14:34:25
3	Cd 226.502†	192.8	356.6	5.3614 ug/L	5.3614 ppb	14:35:43
3	Co 228.616†	150.1	194.2	5.2218 ug/L	5.2218 ppb	14:35:43
3	Cr 267.716†	448.5	377.4	5.0802 ug/L	5.0802 ppb	14:35:43
3	Cu 324.752†	8898.4	3010.2	9.9004 ug/L	9.9004 ppb	14:35:23
3	Fe 238.204 Radial†	11.9	4.6	129.03 ug/L	129.03 ppb	14:34:25
3	K 766.490 Radial†	2403.0	240.3	109.26 ug/L	109.26 ppb	14:34:05
3	Mg 279.077 IEC†	7.8	6.2	604.58 ug/L	604.58 ppb	14:34:25
3	Mn 257.610†	8067.2	7752.5	10.469 ug/L	10.469 ppb	14:35:23
3	Mo 202.031†	124.4	118.5	10.606 ug/L	10.606 ppb	14:35:43
3	Na 589.592 Radial†	253.3	1023.4	339.00 ug/L	339.00 ppb	14:34:05
3	Ni 231.604†	229.2	161.9	5.2831 ug/L	5.2831 ppb	14:35:43
3	P 214.914†	361.1	187.2	146.29 ug/L	146.29 ppb	14:35:43
3	Pb 220.353†	36.4	79.8	12.857 ug/L	12.857 ppb	14:35:43
3	S 181.975 Axial†	84.6	58.7	107.69 ug/L	107.69 ppb	14:35:43
3	Sb 206.836†	46.7	18.4	8.2833 ug/L	8.2833 ppb	14:35:43
3	Se 196.026†	12.5	31.3	26.954 ug/L	26.954 ppb	14:35:43
3	Si 251.611†	3076.6	2568.5	98.565 ug/L	98.565 ppb	14:35:43
3	Sn 189.927†	52.6	46.0	10.819 ug/L	10.819 ppb	14:35:43
3	Sr 421.552†	537.3	511.2	4.7395 ug/L	4.7395 ppb	14:34:05
3	Ti 334.940†	1864.2	2894.8	5.0189 ug/L	5.0189 ppb	14:35:23
3	Tl 190.801†	28.0	51.7	20.819 ug/L	20.819 ppb	14:35:43
3	U 409.014†	-218.5	1829.2	54.616 ug/L	54.616 ppb	14:35:23
3	V 292.402†	-641.6	588.3	4.9740 ug/L	4.9740 ppb	14:35:23
3	Zn 213.857†	1320.8	825.8	10.280 ug/L	10.280 ppb	14:35:43
3	SiO2†	3131.9	2638.2	215.52 ug/L	215.52 ppb	14:35:58

## Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820752.6	100.77 %	1.630			1.62%
Sc Radial	3366.6	100 %	0.2			0.20%
Y 371.029	704000.0	100.49 %	1.619			1.61%
Y RADIAL	2807.9	100.7 %	0.17			0.17%
Ag 328.068†	925.1	4.8269 ug/L	0.28563	4.8269 ppb	0.28563	5.92%
QC value within limits for Ag 328.068 Recovery = 96.54%						
Al 396.153Radial†	96.1	203.50 ug/L	7.265	203.50 ppb	7.265	3.57%
QC value within limits for Al 396.153Radial Recovery = 101.75%						
As 188.979†	49.1	28.366 ug/L	2.5543	28.366 ppb	2.5543	9.00%
QC value within limits for As 188.979 Recovery = 94.55%						
B 249.677†	1627.4	46.360 ug/L	0.3362	46.360 ppb	0.3362	0.73%
QC value within limits for B 249.677 Recovery = 92.72%						
Ba 233.527†	534.5	5.1559 ug/L	0.18264	5.1559 ppb	0.18264	3.54%
QC value within limits for Ba 233.527 Recovery = 103.12%						
Be 313.107†	11408.4	5.0670 ug/L	0.01858	5.0670 ppb	0.01858	0.37%
QC value within limits for Be 313.107 Recovery = 101.34%						

Ca 317.933Radial†	49.0	192.80 ug/L	8.975	192.80 ppb	8.975	4.65%
QC value within limits for Ca 317.933Radial Recovery = 96.40%						
Cd 226.502†	342.6	5.1505 ug/L	0.19040	5.1505 ppb	0.19040	3.70%
QC value within limits for Cd 226.502 Recovery = 103.01%						
Co 228.616†	191.1	5.1374 ug/L	0.18915	5.1374 ppb	0.18915	3.68%
QC value within limits for Co 228.616 Recovery = 102.75%						
Cr 267.716†	361.5	4.8656 ug/L	0.18924	4.8656 ppb	0.18924	3.89%
QC value within limits for Cr 267.716 Recovery = 97.31%						
Cu 324.752†	3037.6	9.9906 ug/L	0.18948	9.9906 ppb	0.18948	1.90%
QC value within limits for Cu 324.752 Recovery = 99.91%						
Fe 238.204 Radial†	4.7	130.94 ug/L	21.642	130.94 ppb	21.642	16.53%
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 130.94%						
K 766.490 Radial†	274.4	124.77 ug/L	13.932	124.77 ppb	13.932	11.17%
QC value within limits for K 766.490 Radial Recovery = 83.18%						
Mg 279.077 IEC†	4.5	442.63 ug/L	149.807	442.63 ppb	149.807	33.84%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 147.54%						
Mn 257.610†	7767.2	10.496 ug/L	0.0398	10.496 ppb	0.0398	0.38%
QC value within limits for Mn 257.610 Recovery = 104.96%						
Mo 202.031†	115.4	10.323 ug/L	0.2506	10.323 ppb	0.2506	2.43%
QC value within limits for Mo 202.031 Recovery = 103.23%						
Na 589.592 Radial†	1013.8	335.82 ug/L	7.737	335.82 ppb	7.737	2.30%
QC value within limits for Na 589.592 Radial Recovery = 111.94%						
Ni 231.604†	147.1	4.7998 ug/L	0.45562	4.7998 ppb	0.45562	9.49%
QC value within limits for Ni 231.604 Recovery = 96.00%						
P 214.914†	180.3	140.80 ug/L	5.095	140.80 ppb	5.095	3.62%
QC value within limits for P 214.914 Recovery = 93.87%						
Pb 220.353†	70.4	11.353 ug/L	1.5114	11.353 ppb	1.5114	13.31%
QC value within limits for Pb 220.353 Recovery = 113.53%						
S 181.975 Axial†	57.6	105.78 ug/L	9.492	105.78 ppb	9.492	8.97%
QC value within limits for S 181.975 Axial Recovery = 105.78%						
Sb 206.836†	20.3	9.0748 ug/L	1.07080	9.0748 ppb	1.07080	11.80%
QC value within limits for Sb 206.836 Recovery = 90.75%						
Se 196.026†	36.2	31.162 ug/L	4.1653	31.162 ppb	4.1653	13.37%
QC value within limits for Se 196.026 Recovery = 103.87%						
Si 251.611†	2522.1	96.785 ug/L	1.6234	96.785 ppb	1.6234	1.68%
QC value within limits for Si 251.611 Recovery = 96.79%						
Sn 189.927†	44.1	10.385 ug/L	0.5057	10.385 ppb	0.5057	4.87%
QC value within limits for Sn 189.927 Recovery = 103.85%						
Sr 421.552†	548.3	5.0830 ug/L	0.31681	5.0830 ppb	0.31681	6.23%
QC value within limits for Sr 421.552 Recovery = 101.66%						
Ti 334.940†	2884.4	5.0137 ug/L	0.05399	5.0137 ppb	0.05399	1.08%
QC value within limits for Ti 334.940 Recovery = 100.27%						
Tl 190.801†	52.5	21.109 ug/L	2.5543	21.109 ppb	2.5543	12.10%
QC value within limits for Tl 190.801 Recovery = 105.55%						
U 409.014†	1852.8	55.323 ug/L	0.6243	55.323 ppb	0.6243	1.13%
QC value within limits for U 409.014 Recovery = 110.65%						
V 292.402†	616.1	5.1916 ug/L	0.25922	5.1916 ppb	0.25922	4.99%
QC value within limits for V 292.402 Recovery = 103.83%						
Zn 213.857†	803.8	10.007 ug/L	0.2973	10.007 ppb	0.2973	2.97%
QC value within limits for Zn 213.857 Recovery = 100.07%						
SiO2†	2598.2	212.26 ug/L	3.724	212.26 ppb	3.724	1.75%
QC value within limits for SiO2 Recovery = 99.65%						
QC Failed. Continue with analysis.						



Sequence No.: 9

Sample ID: IC5A

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/8/2010 14:38:10

Data Type: Reprocessed on 3/8/2010 16:11:11

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: IC5A

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	692667.7	692667.7	85.044 %		14:41:20
1	Sc Radial	3063.6	3063.6	91.1 %		14:40:23
1	Y 371.029	581925.8	581925.8	83.064 %		14:41:20
1	Y RADIAL	2530.1	2530.1	90.73 %		14:40:23
1	Ag 328.068†	-8348.6	-10026.6	-0.9789 ug/L	-0.9789 ppb	14:41:20
1	Al 396.153Radial†	225882.5	248061.4	526650 ug/L	526650 ppb	14:40:03
1	As 188.979†	-62.5	-56.1	11.094 ug/L	11.094 ppb	14:41:40
1	B 249.677†	303.5	549.5	-14.597 ug/L	-14.597 ppb	14:41:20
1	Ba 233.527†	-430.4	-508.2	0.8180 ug/L	0.8180 ppb	14:41:40
1	Be 313.107†	-3646.8	-814.3	-0.4217 ug/L	-0.4217 ppb	14:41:20
1	Ca 317.933Radial†	110001.0	120757.0	474840 ug/L	474840 ppb	14:40:03
1	Cd 226.502†	1118.5	1477.0	2.9688 ug/L	2.9688 ppb	14:41:40
1	Co 228.616†	-4.8	37.0	-1.6882 ug/L	-1.6882 ppb	14:41:40
1	Cr 267.716†	-424.7	-575.1	-0.1040 ug/L	-0.1040 ppb	14:41:40
1	Cu 324.752†	3635.9	-1704.3	4.2198 ug/L	4.2198 ppb	14:41:40
1	Fe 238.204 Radial†	6048.2	6633.0	186330 ug/L	186330 ppb	14:40:23
1	K 766.490 Radial†	2116.2	167.3	-82.611 ug/L	-82.611 ppb	14:40:03
1	Mg 279.077 IEC†	4587.2	5034.7	491910 ug/L	491910 ppb	14:40:23
1	Mn 257.610†	227.8	-129.8	-1.8929 ug/L	-1.8929 ppb	14:41:20
1	Mo 202.031†	-183.1	-222.4	0.2338 ug/L	0.2338 ppb	14:41:40
1	Na 589.592 Radial†	-685.4	18.3	6.0507 ug/L	6.0507 ppb	14:40:23
1	Ni 231.604†	130.9	84.2	2.7498 ug/L	2.7498 ppb	14:41:40
1	P 214.914†	127.9	-27.2	-40.003 ug/L	-40.003 ppb	14:41:40
1	Pb 220.353†	-595.0	-656.6	-8.7606 ug/L	-8.7606 ppb	14:41:40
1	S 181.975 Axial†	36.0	15.5	-70.321 ug/L	-70.321 ppb	14:41:40
1	Sb 206.836†	66.4	49.4	3.3481 ug/L	3.3481 ppb	14:41:40
1	Se 196.026†	-728.8	-838.4	-48.968 ug/L	-48.968 ppb	14:41:40
1	Si 251.611†	395.5	-74.8	-2.6280 ug/L	-2.6280 ppb	14:41:40
1	Sn 189.927†	-301.5	-361.7	-11.256 ug/L	-11.256 ppb	14:41:40
1	Sr 421.552†	381.8	394.7	0.1142 ug/L	0.1142 ppb	14:40:23
1	Ti 334.940†	-13882.1	-15311.9	-3.3313 ug/L	-3.3313 ppb	14:41:20
1	Tl 190.801†	-69.9	-58.7	-23.818 ug/L	-23.818 ppb	14:41:40
1	U 409.014†	-503.1	1458.4	22.340 ug/L	22.340 ppb	14:41:20
1	V 292.402†	735.7	2101.5	-0.8885 ug/L	-0.8885 ppb	14:41:40
1	Zn 213.857†	2410.7	2326.1	1.2481 ug/L	1.2481 ppb	14:41:40
1	SiO2†	387.0	-70.9	-5.2573 ug/L	-5.2573 ppb	14:42:36
2	Sc 361.383	703480.3	703480.3	86.372 %		14:41:46
2	Sc Radial	2995.2	2995.2	89.0 %		14:40:48
2	Y 371.029	591146.5	591146.5	84.380 %		14:41:46
2	Y RADIAL	2473.6	2473.6	88.70 %		14:40:48
2	Ag 328.068†	-8562.7	-10123.6	-1.3171 ug/L	-1.3171 ppb	14:41:46
2	Al 396.153Radial†	227043.7	255032.1	541450 ug/L	541450 ppb	14:40:28
2	As 188.979†	-64.1	-56.8	10.961 ug/L	10.961 ppb	14:42:06
2	B 249.677†	380.8	633.5	-12.387 ug/L	-12.387 ppb	14:41:46
2	Ba 233.527†	-435.9	-506.9	0.8667 ug/L	0.8667 ppb	14:42:06
2	Be 313.107†	-3787.2	-910.9	-0.4653 ug/L	-0.4653 ppb	14:41:46
2	Ca 317.933Radial†	110615.6	124206.8	488400 ug/L	488400 ppb	14:40:28
2	Cd 226.502†	1108.2	1444.9	2.3692 ug/L	2.3692 ppb	14:42:06
2	Co 228.616†	5.1	48.5	-1.3967 ug/L	-1.3967 ppb	14:42:06
2	Cr 267.716†	-426.6	-569.6	0.0170 ug/L	0.0170 ppb	14:42:06
2	Cu 324.752†	3696.0	-1700.6	4.2910 ug/L	4.2910 ppb	14:42:06
2	Fe 238.204 Radial†	5949.1	6673.3	187470 ug/L	187470 ppb	14:40:48
2	K 766.490 Radial†	2045.4	140.9	-99.192 ug/L	-99.192 ppb	14:40:28
2	Mg 279.077 IEC†	4505.2	5057.7	494160 ug/L	494160 ppb	14:40:48
2	Mn 257.610†	235.5	-125.0	-1.8664 ug/L	-1.8664 ppb	14:41:46
2	Mo 202.031†	-194.5	-232.4	-0.4095 ug/L	-0.4095 ppb	14:42:06
2	Na 589.592 Radial†	-640.2	51.9	17.181 ug/L	17.181 ppb	14:40:48
2	Ni 231.604†	115.5	64.1	2.0921 ug/L	2.0921 ppb	14:42:06

2	P 214.914†	131.9	-24.9	-35.317 ug/L	-35.317 ppb	14:42:06
2	Pb 220.353†	-578.0	-626.2	-0.5767 ug/L	-0.5767 ppb	14:42:06
2	S 181.975 Axial†	39.1	18.5	-67.528 ug/L	-67.528 ppb	14:42:06
2	Sb 206.836†	52.7	32.2	-4.3525 ug/L	-4.3525 ppb	14:42:06
2	Se 196.026†	-704.1	-796.6	-6.2337 ug/L	-6.2337 ppb	14:42:06
2	Si 251.611†	389.8	-88.5	-3.1432 ug/L	-3.1432 ppb	14:42:06
2	Sn 189.927†	-284.3	-336.4	-2.9632 ug/L	-2.9632 ppb	14:42:06
2	Sr 421.552†	374.5	396.0	0.0257 ug/L	0.0257 ppb	14:40:48
2	Ti 334.940†	-14269.0	-15509.0	-2.0418 ug/L	-2.0418 ppb	14:41:46
2	Tl 190.801†	-53.4	-38.4	-15.661 ug/L	-15.661 ppb	14:42:06
2	U 409.014†	-441.3	1539.0	24.619 ug/L	24.619 ppb	14:41:46
2	V 292.402†	806.9	2170.7	-0.4615 ug/L	-0.4615 ppb	14:42:06
2	Zn 213.857†	2449.8	2327.8	1.1044 ug/L	1.1044 ppb	14:42:06
2	SiO2†	429.1	-29.1	-1.8176 ug/L	-1.8176 ppb	14:42:41
3	Sc 361.383	707506.1	707506.1	86.866 %		14:42:11
3	Sc Radial	3038.0	3038.0	90.3 %		14:41:13
3	Y 371.029	592876.2	592876.2	84.627 %		14:42:11
3	Y RADIAL	2513.1	2513.1	90.12 %		14:41:13
3	Ag 328.068†	-8670.4	-10191.2	-1.7220 ug/L	-1.7220 ppb	14:42:11
3	Al 396.153Radial†	226278.5	250593.5	532020 ug/L	532020 ppb	14:40:53
3	As 188.979†	-82.5	-77.6	-1.1695 ug/L	-1.1695 ppb	14:42:31
3	B 249.677†	572.8	852.0	-6.0708 ug/L	-6.0708 ppb	14:42:11
3	Ba 233.527†	-439.8	-508.5	0.8353 ug/L	0.8353 ppb	14:42:31
3	Be 313.107†	-3784.0	-882.4	-0.4515 ug/L	-0.4515 ppb	14:42:11
3	Ca 317.933Radial†	110289.0	122095.5	480100 ug/L	480100 ppb	14:40:53
3	Cd 226.502†	1066.6	1389.7	1.5959 ug/L	1.5959 ppb	14:42:31
3	Co 228.616†	22.2	68.2	-0.8668 ug/L	-0.8668 ppb	14:42:31
3	Cr 267.716†	-423.0	-562.7	0.0872 ug/L	0.0872 ppb	14:42:31
3	Cu 324.752†	3671.0	-1753.6	4.0867 ug/L	4.0867 ppb	14:42:31
3	Fe 238.204 Radial†	6016.9	6654.4	186930 ug/L	186930 ppb	14:41:13
3	K 766.490 Radial†	2071.1	137.0	-98.169 ug/L	-98.169 ppb	14:40:53
3	Mg 279.077 IEC†	4570.4	5058.5	494240 ug/L	494240 ppb	14:41:13
3	Mn 257.610†	343.0	-2.8	-1.7572 ug/L	-1.7572 ppb	14:42:11
3	Mo 202.031†	-215.6	-255.4	-2.6019 ug/L	-2.6019 ppb	14:42:31
3	Na 589.592 Radial†	-651.6	49.4	16.372 ug/L	16.372 ppb	14:41:13
3	Ni 231.604†	152.5	105.9	3.4575 ug/L	3.4575 ppb	14:42:31
3	P 214.914†	142.9	-13.1	-27.956 ug/L	-27.956 ppb	14:42:31
3	Pb 220.353†	-556.1	-597.1	1.9550 ug/L	1.9550 ppb	14:42:31
3	S 181.975 Axial†	49.8	30.5	-43.646 ug/L	-43.646 ppb	14:42:31
3	Sb 206.836†	59.1	39.3	-1.1882 ug/L	-1.1882 ppb	14:42:31
3	Se 196.026†	-704.5	-792.4	-6.8214 ug/L	-6.8214 ppb	14:42:31
3	Si 251.611†	386.4	-95.0	-3.3691 ug/L	-3.3691 ppb	14:42:31
3	Sn 189.927†	-311.3	-365.5	-11.255 ug/L	-11.255 ppb	14:42:31
3	Sr 421.552†	374.6	390.2	0.0340 ug/L	0.0340 ppb	14:41:13
3	Ti 334.940†	-14089.8	-15208.7	-2.6371 ug/L	-2.6371 ppb	14:42:11
3	Tl 190.801†	-61.9	-47.8	-19.430 ug/L	-19.430 ppb	14:42:31
3	U 409.014†	-380.8	1611.5	26.847 ug/L	26.847 ppb	14:42:11
3	V 292.402†	825.2	2186.4	-0.2812 ug/L	-0.2812 ppb	14:42:31
3	Zn 213.857†	2443.5	2304.3	0.8816 ug/L	0.8816 ppb	14:42:31
3	SiO2†	393.5	-73.0	-5.3462 ug/L	-5.3462 ppb	14:42:47

## Mean Data: ICESA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	701218.0	86.094 %	0.9421			1.09%
Sc Radial	3032.3	90.2 %	1.03			1.14%
Y 371.029	588649.5	84.024 %	0.8403			1.00%
Y RADIAL	2505.6	89.85 %	1.038			1.16%
Ag 328.068†	-10113.8	-1.3394 ug/L	0.37205	-1.3394 ppb	0.37205	27.78%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	251229.0	533370 ug/L	7491.3	533370 ppb	7491.3	1.40%
QC value within limits for Al 396.153Radial Recovery = 106.67%						
As 188.979†	-63.5	6.9620 ug/L	7.04239	6.9620 ppb	7.04239	101.15%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	678.3	-11.018 ug/L	4.4249	-11.018 ppb	4.4249	40.16%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-507.9	0.8400 ug/L	0.02467	0.8400 ppb	0.02467	2.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-869.2	-0.4462 ug/L	0.02229	-0.4462 ppb	0.02229	4.99%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	122353.1	481110 ug/L	6839.2	481110 ppb	6839.2	1.42%
QC value within limits for Ca 317.933Radial Recovery = 96.22%						
Cd 226.502†	1437.2	2.3113 ug/L	0.68824	2.3113 ppb	0.68824	29.78%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	51.2	-1.3172 ug/L	0.41643	-1.3172 ppb	0.41643	31.61%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-569.1	0.0001 ug/L	0.09674	0.0001 ppb	0.09674	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1719.5	4.1992 ug/L	0.10367	4.1992 ppb	0.10367	2.47%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	6653.6	186910 ug/L	567.6	186910 ppb	567.6	0.30%
QC value within limits for Fe 238.204 Radial Recovery = 93.46%						
K 766.490 Radial†	148.4	-93.324 ug/L	9.2920	-93.324 ppb	9.2920	9.96%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	5050.3	493440 ug/L	1322.9	493440 ppb	1322.9	0.27%
QC value within limits for Mg 279.077 IEC Recovery = 98.69%						
Mn 257.610†	-85.9	-1.8388 ug/L	0.07197	-1.8388 ppb	0.07197	3.91%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-236.8	-0.9258 ug/L	1.48669	-0.9258 ppb	1.48669	160.58%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	39.9	13.201 ug/L	6.2058	13.201 ppb	6.2058	47.01%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	84.8	2.7664 ug/L	0.68285	2.7664 ppb	0.68285	24.68%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-21.7	-34.425 ug/L	6.0730	-34.425 ppb	6.0730	17.64%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-626.6	-2.4608 ug/L	5.60076	-2.4608 ppb	5.60076	227.60%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	21.5	-60.499 ug/L	14.6610	-60.499 ppb	14.6610	24.23%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	40.3	-0.7309 ug/L	3.87063	-0.7309 ppb	3.87063	529.58%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-809.1	-20.674 ug/L	24.5048	-20.674 ppb	24.5048	118.53%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-86.1	-3.0468 ug/L	0.37982	-3.0468 ppb	0.37982	12.47%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-354.5	-8.4914 ug/L	4.78753	-8.4914 ppb	4.78753	56.38%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	393.6	0.0580 ug/L	0.04890	0.0580 ppb	0.04890	84.36%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-15343.2	-2.6700 ug/L	0.64540	-2.6700 ppb	0.64540	24.17%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-48.3	-19.636 ug/L	4.0824	-19.636 ppb	4.0824	20.79%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1536.3	24.602 ug/L	2.2534	24.602 ppb	2.2534	9.16%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2152.9	-0.5437 ug/L	0.31188	-0.5437 ppb	0.31188	57.36%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2319.4	1.0781 ug/L	0.18466	1.0781 ppb	0.18466	17.13%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-57.7	-4.1403 ug/L	2.01207	-4.1403 ppb	2.01207	48.60%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 3/8/2010 14:44:58

Data Type: Reprocessed on 3/8/2010 16:11:12

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 361.383	719671.4	719671.4	88.360 %		14:48:08
1	Sc Radial	3049.4	3049.4	90.7 %		14:47:10
1	Y 371.029	602455.9	602455.9	85.995 %		14:48:08
1	Y RADIAL	2527.4	2527.4	90.63 %		14:47:10
1	Ag 328.068†	37923.7	42709.8	276.08 ug/L	276.08 ppb	14:48:08
1	Al 396.153Radial†	232385.0	256390.1	544310 ug/L	544310 ppb	14:46:50
1	As 188.979†	716.9	828.8	525.88 ug/L	525.88 ppb	14:48:28
1	B 249.677†	16666.9	19055.2	511.14 ug/L	511.14 ppb	14:48:08
1	Ba 233.527†	45156.7	51103.4	498.46 ug/L	498.46 ppb	14:48:08
1	Be 313.107†	488490.0	556316.9	247.63 ug/L	247.63 ppb	14:48:08
1	Ca 317.933Radial†	111396.6	122859.5	483110 ug/L	483110 ppb	14:46:50
1	Cd 226.502†	28332.0	32226.3	465.29 ug/L	465.29 ppb	14:48:28
1	Co 228.616†	14823.6	16819.1	448.43 ug/L	448.43 ppb	14:48:28
1	Cr 267.716†	31448.4	35515.6	487.26 ug/L	487.26 ppb	14:48:08
1	Cu 324.752†	151913.0	165946.2	556.83 ug/L	556.83 ppb	14:48:08
1	Fe 238.204 Radial†	6132.9	6757.3	189840 ug/L	189840 ppb	14:47:10
1	K 766.490 Radial†	13573.0	12815.0	5673.0 ug/L	5673.0 ppb	14:46:50
1	Mg 279.077 IEC†	4619.6	5093.8	497700 ug/L	497700 ppb	14:47:10
1	Mn 257.610†	315896.7	357114.9	481.20 ug/L	481.20 ppb	14:48:08
1	Mo 202.031†	4646.1	5250.9	489.78 ug/L	489.78 ppb	14:48:28
1	Na 589.592 Radial†	15245.7	17586.8	5825.5 ug/L	5825.5 ppb	14:46:50
1	Ni 231.604†	12293.7	13843.5	451.74 ug/L	451.74 ppb	14:48:28
1	P 214.914†	3011.1	3230.1	2434.9 ug/L	2434.9 ppb	14:48:28
1	Pb 220.353†	1980.3	2284.2	467.61 ug/L	467.61 ppb	14:48:28
1	S 181.975 Axial†	1326.0	1473.9	2604.8 ug/L	2604.8 ppb	14:48:28
1	Sb 206.836†	1170.8	1296.3	556.20 ug/L	556.20 ppb	14:48:28
1	Se 196.026†	1932.2	2205.3	2549.0 ug/L	2549.0 ppb	14:48:28
1	Si 251.611†	122636.3	138252.5	5306.7 ug/L	5306.7 ppb	14:48:08
1	Sn 189.927†	1539.5	1735.1	482.28 ug/L	482.28 ppb	14:48:28
1	Sr 421.552†	50712.4	55911.2	514.89 ug/L	514.89 ppb	14:46:50
1	Ti 334.940†	244946.2	278226.6	510.85 ug/L	510.85 ppb	14:48:08
1	Tl 190.801†	952.9	1101.9	445.57 ug/L	445.57 ppb	14:48:28
1	U 409.014†	14225.1	18149.0	519.44 ug/L	519.44 ppb	14:48:08
1	V 292.402†	56477.3	65154.0	513.26 ug/L	513.26 ppb	14:48:08
1	Zn 213.857†	37690.9	42147.7	496.03 ug/L	496.03 ppb	14:48:08
1	SiO2†	119898.0	135167.3	11044 ug/L	11044 ppb	14:49:25
2	Sc 361.383	711085.4	711085.4	87.305 %		14:48:34
2	Sc Radial	3042.1	3042.1	90.4 %		14:47:35
2	Y 371.029	595917.8	595917.8	85.062 %		14:48:34
2	Y RADIAL	2523.1	2523.1	90.48 %		14:47:35
2	Ag 328.068†	37518.7	42764.2	276.36 ug/L	276.36 ppb	14:48:34
2	Al 396.153Radial†	233018.3	257705.6	547100 ug/L	547100 ppb	14:47:15
2	As 188.979†	722.0	844.4	534.90 ug/L	534.90 ppb	14:48:54
2	B 249.677†	16370.4	18943.4	507.92 ug/L	507.92 ppb	14:48:34
2	Ba 233.527†	44856.0	51376.1	501.10 ug/L	501.10 ppb	14:48:34
2	Be 313.107†	486209.3	560379.9	249.44 ug/L	249.44 ppb	14:48:34
2	Ca 317.933Radial†	111599.1	123378.4	485150 ug/L	485150 ppb	14:47:15
2	Cd 226.502†	28543.9	32856.1	474.76 ug/L	474.76 ppb	14:48:54
2	Co 228.616†	14934.5	17148.6	457.29 ug/L	457.29 ppb	14:48:54
2	Cr 267.716†	31124.8	35574.7	488.06 ug/L	488.06 ppb	14:48:34
2	Cu 324.752†	150617.5	166538.2	558.78 ug/L	558.78 ppb	14:48:34
2	Fe 238.204 Radial†	6119.6	6758.8	189880 ug/L	189880 ppb	14:47:35
2	K 766.490 Radial†	13764.4	13062.5	5785.0 ug/L	5785.0 ppb	14:47:15
2	Mg 279.077 IEC†	4606.6	5091.7	497490 ug/L	497490 ppb	14:47:35
2	Mn 257.610†	313093.9	358221.4	482.70 ug/L	482.70 ppb	14:48:34
2	Mo 202.031†	4725.2	5405.1	503.59 ug/L	503.59 ppb	14:48:54
2	Na 589.592 Radial†	15238.3	17619.0	5836.1 ug/L	5836.1 ppb	14:47:15
2	Ni 231.604†	12399.8	14133.1	461.19 ug/L	461.19 ppb	14:48:54

2	P 214.914†	3018.5	3279.8	2474.6 ug/L	2474.6 ppb	14:48:54
2	Pb 220.353†	1968.6	2297.8	470.46 ug/L	470.46 ppb	14:48:54
2	S 181.975 Axial†	1347.6	1516.7	2682.8 ug/L	2682.8 ppb	14:48:54
2	Sb 206.836†	1170.4	1311.8	563.22 ug/L	563.22 ppb	14:48:54
2	Se 196.026†	1964.4	2268.7	2603.7 ug/L	2603.7 ppb	14:48:54
2	Si 251.611†	121527.3	138658.1	5322.1 ug/L	5322.1 ppb	14:48:34
2	Sn 189.927†	1551.3	1769.6	490.75 ug/L	490.75 ppb	14:48:54
2	Sr 421.552†	50809.6	56153.0	517.12 ug/L	517.12 ppb	14:47:15
2	Ti 334.940†	242639.8	278932.0	512.37 ug/L	512.37 ppb	14:48:34
2	Tl 190.801†	947.8	1109.0	448.40 ug/L	448.40 ppb	14:48:54
2	U 409.014†	14014.1	18101.7	518.03 ug/L	518.03 ppb	14:48:34
2	V 292.402†	56168.3	65571.9	516.81 ug/L	516.81 ppb	14:48:34
2	Zn 213.857†	37435.5	42370.2	498.75 ug/L	498.75 ppb	14:48:34
2	SiO2†	124520.2	142100.0	11611 ug/L	11611 ppb	14:49:30
3	Sc 361.383	718474.5	718474.5	88.213 %		14:49:00
3	Sc Radial	3036.0	3036.0	90.3 %		14:48:01
3	Y 371.029	601800.7	601800.7	85.901 %		14:49:00
3	Y RADIAL	2516.6	2516.6	90.24 %		14:48:01
3	Ag 328.068†	38028.5	42900.1	277.03 ug/L	277.03 ppb	14:49:00
3	Al 396.153Radial†	233031.9	258237.5	548230 ug/L	548230 ppb	14:47:40
3	As 188.979†	727.8	842.5	533.80 ug/L	533.80 ppb	14:49:20
3	B 249.677†	16724.2	19151.5	513.88 ug/L	513.88 ppb	14:49:00
3	Ba 233.527†	45247.4	51291.4	500.28 ug/L	500.28 ppb	14:49:00
3	Be 313.107†	489901.9	558838.5	248.75 ug/L	248.75 ppb	14:49:00
3	Ca 317.933Radial†	111619.7	123648.8	486210 ug/L	486210 ppb	14:47:40
3	Cd 226.502†	28484.5	32452.5	468.69 ug/L	468.69 ppb	14:49:20
3	Co 228.616†	14901.2	16935.0	451.55 ug/L	451.55 ppb	14:49:20
3	Cr 267.716†	31516.7	35652.3	489.11 ug/L	489.11 ppb	14:49:00
3	Cu 324.752†	151869.8	166183.7	557.61 ug/L	557.61 ppb	14:49:00
3	Fe 238.204 Radial†	6105.6	6756.9	189830 ug/L	189830 ppb	14:48:01
3	K 766.490 Radial†	13858.6	13197.4	5846.1 ug/L	5846.1 ppb	14:47:40
3	Mg 279.077 IEC†	4592.7	5086.5	496980 ug/L	496980 ppb	14:48:01
3	Mn 257.610†	316957.1	358912.5	483.65 ug/L	483.65 ppb	14:49:00
3	Mo 202.031†	4694.7	5314.9	495.53 ug/L	495.53 ppb	14:49:20
3	Na 589.592 Radial†	15435.8	17871.6	5919.8 ug/L	5919.8 ppb	14:47:40
3	Ni 231.604†	12352.9	13933.9	454.69 ug/L	454.69 ppb	14:49:20
3	P 214.914†	3008.3	3232.6	2437.7 ug/L	2437.7 ppb	14:49:20
3	Pb 220.353†	1995.0	2304.6	471.81 ug/L	471.81 ppb	14:49:20
3	S 181.975 Axial†	1339.8	1492.0	2637.3 ug/L	2637.3 ppb	14:49:20
3	Sb 206.836†	1182.6	1311.8	562.95 ug/L	562.95 ppb	14:49:20
3	Se 196.026†	1947.7	2226.6	2568.1 ug/L	2568.1 ppb	14:49:20
3	Si 251.611†	122743.0	138604.7	5320.2 ug/L	5320.2 ppb	14:49:00
3	Sn 189.927†	1549.4	1749.2	486.15 ug/L	486.15 ppb	14:49:20
3	Sr 421.552†	50975.2	56449.2	519.85 ug/L	519.85 ppb	14:47:40
3	Ti 334.940†	245185.0	278959.1	512.60 ug/L	512.60 ppb	14:49:00
3	Tl 190.801†	935.2	1083.6	438.22 ug/L	438.22 ppb	14:49:20
3	U 409.014†	14228.8	18180.0	520.37 ug/L	520.37 ppb	14:49:00
3	V 292.402†	56689.2	65500.8	516.12 ug/L	516.12 ppb	14:49:00
3	Zn 213.857†	37837.5	42385.0	498.99 ug/L	498.99 ppb	14:49:00
3	SiO2†	123129.8	139057.1	11362 ug/L	11362 ppb	14:49:36

## Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	716410.4	87.959 %	0.5710			0.65%
Sc Radial	3042.5	90.5 %	0.20			0.22%
Y 371.029	600058.1	85.653 %	0.5139			0.60%
Y RADIAL	2522.4	90.45 %	0.196			0.22%
Ag 328.068†	42791.4	276.49 ug/L	0.491	276.49 ppb	0.491	0.18%
QC value within limits for Ag 328.068 Recovery = 110.60%						
Al 396.153Radial†	257444.4	546540 ug/L	2018.8	546540 ppb	2018.8	0.37%
QC value within limits for Al 396.153Radial Recovery = 109.31%						
As 188.979†	838.6	531.53 ug/L	4.922	531.53 ppb	4.922	0.93%
QC value within limits for As 188.979 Recovery = 106.31%						
B 249.677†	19050.0	510.98 ug/L	2.983	510.98 ppb	2.983	0.58%
QC value within limits for B 249.677 Recovery = 102.20%						
Ba 233.527†	51257.0	499.95 ug/L	1.347	499.95 ppb	1.347	0.27%
QC value within limits for Ba 233.527 Recovery = 99.99%						
Be 313.107†	558511.7	248.61 ug/L	0.910	248.61 ppb	0.910	0.37%
QC value within limits for Be 313.107 Recovery = 99.44%						

Ca 317.933Radial†	123295.6	484820 ug/L	1577.1	484820 ppb	1577.1	0.33%
QC value within limits for Ca 317.933Radial Recovery = 96.96%						
Cd 226.502†	32511.6	469.58 ug/L	4.797	469.58 ppb	4.797	1.02%
QC value within limits for Cd 226.502 Recovery = 93.92%						
Co 228.616†	16967.6	452.42 ug/L	4.498	452.42 ppb	4.498	0.99%
QC value within limits for Co 228.616 Recovery = 90.48%						
Cr 267.716†	35580.9	488.14 ug/L	0.926	488.14 ppb	0.926	0.19%
QC value within limits for Cr 267.716 Recovery = 97.63%						
Cu 324.752†	166222.7	557.74 ug/L	0.984	557.74 ppb	0.984	0.18%
QC value within limits for Cu 324.752 Recovery = 111.55%						
Fe 238.204 Radial†	6757.7	189850 ug/L	28.3	189850 ppb	28.3	0.01%
QC value within limits for Fe 238.204 Radial Recovery = 94.93%						
K 766.490 Radial†	13025.0	5768.1 ug/L	87.81	5768.1 ppb	87.81	1.52%
QC value within limits for K 766.490 Radial Recovery = 115.36%						
Mg 279.077 IEC†	5090.7	497390 ug/L	368.1	497390 ppb	368.1	0.07%
QC value within limits for Mg 279.077 IEC Recovery = 99.48%						
Mn 257.610†	358082.9	482.52 ug/L	1.240	482.52 ppb	1.240	0.26%
QC value within limits for Mn 257.610 Recovery = 96.50%						
Mo 202.031†	5323.6	496.30 ug/L	6.935	496.30 ppb	6.935	1.40%
QC value within limits for Mo 202.031 Recovery = 99.26%						
Na 589.592 Radial†	17692.5	5860.5 ug/L	51.65	5860.5 ppb	51.65	0.88%
QC value within limits for Na 589.592 Radial Recovery = 117.21%						
Ni 231.604†	13970.2	455.88 ug/L	4.834	455.88 ppb	4.834	1.06%
QC value within limits for Ni 231.604 Recovery = 91.18%						
P 214.914†	3247.5	2449.1 ug/L	22.12	2449.1 ppb	22.12	0.90%
QC value within limits for P 214.914 Recovery = 97.96%						
Pb 220.353†	2295.6	469.96 ug/L	2.143	469.96 ppb	2.143	0.46%
QC value within limits for Pb 220.353 Recovery = 93.99%						
S 181.975 Axial†	1494.2	2641.6 ug/L	39.20	2641.6 ppb	39.20	1.48%
QC value within limits for S 181.975 Axial Recovery = 105.67%						
Sb 206.836†	1306.7	560.79 ug/L	3.978	560.79 ppb	3.978	0.71%
QC value within limits for Sb 206.836 Recovery = 112.16%						
Se 196.026†	2233.5	2573.6 ug/L	27.76	2573.6 ppb	27.76	1.08%
QC value within limits for Se 196.026 Recovery = 102.94%						
Si 251.611†	138505.1	5316.3 ug/L	8.39	5316.3 ppb	8.39	0.16%
QC value within limits for Si 251.611 Recovery = 106.33%						
Sn 189.927†	1751.3	486.39 ug/L	4.241	486.39 ppb	4.241	0.87%
QC value within limits for Sn 189.927 Recovery = 97.28%						
Sr 421.552†	56171.1	517.29 ug/L	2.487	517.29 ppb	2.487	0.48%
QC value within limits for Sr 421.552 Recovery = 103.46%						
Ti 334.940†	278705.9	511.94 ug/L	0.954	511.94 ppb	0.954	0.19%
QC value within limits for Ti 334.940 Recovery = 102.39%						
Tl 190.801†	1098.2	444.06 ug/L	5.257	444.06 ppb	5.257	1.18%
QC value within limits for Tl 190.801 Recovery = 88.81%						
U 409.014†	18143.6	519.28 ug/L	1.180	519.28 ppb	1.180	0.23%
QC value within limits for U 409.014 Recovery = 103.86%						
V 292.402†	65408.9	515.40 ug/L	1.879	515.40 ppb	1.879	0.36%
QC value within limits for V 292.402 Recovery = 103.08%						
Zn 213.857†	42301.0	497.92 ug/L	1.642	497.92 ppb	1.642	0.33%
QC value within limits for Zn 213.857 Recovery = 99.58%						
SiO2†	138774.8	11339 ug/L	284.1	11339 ppb	284.1	2.51%
QC value within limits for SiO2 Recovery = 106.02%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/8/2010 14:51:45

Data Type: Reprocessed on 3/8/2010 16:11:13

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 361.383	694436.5	694436.5	85.261 %		14:54:57
1	Sc Radial	2958.8	2958.8	88.0 %		14:53:59
1	Y 371.029	583675.2	583675.2	83.314 %		14:54:57
1	Y RADIAL	2468.5	2468.5	88.52 %		14:53:59
1	Ag 328.068†	-19737.8	-23359.7	-4.2799 ug/L	-4.2799 ppb	14:54:57
1	Al 396.153Radial†	220615.5	250861.6	532590 ug/L	532590 ppb	14:53:39
1	As 188.979†	-155.4	-164.8	7.9788 ug/L	7.9788 ppb	14:55:17
1	B 249.677†	1470.4	1917.2	-16.903 ug/L	-16.903 ppb	14:54:57
1	Ba 233.527†	-1225.5	-1439.5	-0.3814 ug/L	-0.3814 ppb	14:55:17
1	Be 313.107†	-9702.7	-7906.2	-3.5550 ug/L	-3.5550 ppb	14:54:57
1	Ca 317.933Radial†	108288.9	123090.1	484010 ug/L	484010 ppb	14:53:39
1	Cd 226.502†	2774.6	3416.1	8.8359 ug/L	8.8359 ppb	14:55:17
1	Co 228.616†	198.2	275.0	0.9595 ug/L	0.9595 ppb	14:55:17
1	Cr 267.716†	-308.5	-437.6	6.1522 ug/L	6.1522 ppb	14:55:17
1	Cu 324.752†	1526.9	-4188.8	1.0441 ug/L	1.0441 ppb	14:54:57
1	Fe 238.204 Radial†	13801.3	15681.8	440530 ug/L	440530 ppb	14:53:59
1	K 766.490 Radial†	3068.2	1331.9	237.57 ug/L	237.57 ppb	14:53:39
1	Mg 279.077 IEC†	4463.3	5072.2	495320 ug/L	495320 ppb	14:53:59
1	Mn 257.610†	-17810.0	-21286.4	-5.5395 ug/L	-5.5395 ppb	14:54:57
1	Mo 202.031†	-393.5	-468.7	-1.9321 ug/L	-1.9321 ppb	14:55:17
1	Na 589.592 Radial†	1410571.7	1604287.2	531410 ug/L	531410 ppb	14:53:39
1	Ni 231.604†	211.8	178.7	5.8300 ug/L	5.8300 ppb	14:55:17
1	P 214.914†	433.5	330.9	41.751 ug/L	41.751 ppb	14:55:17
1	Pb 220.353†	-410.2	-438.1	-8.4668 ug/L	-8.4668 ppb	14:55:17
1	S 181.975 Axial†	68.4	53.3	-1.8697 ug/L	-1.8697 ppb	14:55:17
1	Sb 206.836†	56.4	37.4	-5.3200 ug/L	-5.3200 ppb	14:55:17
1	Se 196.026†	-1686.0	-1958.8	-296.09 ug/L	-296.09 ppb	14:55:17
1	Si 251.611†	-421.4	-1033.9	-39.215 ug/L	-39.215 ppb	14:55:17
1	Sn 189.927†	-328.9	-392.9	-31.551 ug/L	-31.551 ppb	14:55:17
1	Sr 421.552†	1154.4	1287.8	8.3282 ug/L	8.3282 ppb	14:53:59
1	Ti 334.940†	-11905.2	-12951.7	-4.9638 ug/L	-4.9638 ppb	14:54:57
1	Tl 190.801†	-82.5	-73.4	-29.851 ug/L	-29.851 ppb	14:55:17
1	U 409.014†	434620.5	511801.0	15239 ug/L	15239 ppb	14:54:57
1	V 292.402†	1904.6	3470.3	2.0359 ug/L	2.0359 ppb	14:55:17
1	Zn 213.857†	4546.1	4823.4	-5.5128 ug/L	-5.5128 ppb	14:55:17
1	SiO2†	-375.6	-966.5	-77.922 ug/L	-77.922 ppb	14:56:14
2	Sc 361.383	698488.8	698488.8	85.759 %		14:55:23
2	Sc Radial	2969.9	2969.9	88.3 %		14:54:24
2	Y 371.029	588346.3	588346.3	83.981 %		14:55:23
2	Y RADIAL	2473.0	2473.0	88.68 %		14:54:24
2	Ag 328.068†	-19716.1	-23200.1	-2.6303 ug/L	-2.6303 ppb	14:55:23
2	Al 396.153Radial†	220214.3	249471.4	529640 ug/L	529640 ppb	14:54:04
2	As 188.979†	-150.4	-157.9	12.495 ug/L	12.495 ppb	14:55:43
2	B 249.677†	1374.6	1795.5	-20.757 ug/L	-20.757 ppb	14:55:23
2	Ba 233.527†	-1226.2	-1432.0	-0.2370 ug/L	-0.2370 ppb	14:55:43
2	Be 313.107†	-9646.5	-7774.7	-3.4969 ug/L	-3.4969 ppb	14:55:23
2	Ca 317.933Radial†	107660.8	121919.4	479410 ug/L	479410 ppb	14:54:04
2	Cd 226.502†	2782.0	3405.7	8.4302 ug/L	8.4302 ppb	14:55:43
2	Co 228.616†	204.6	281.2	1.0903 ug/L	1.0903 ppb	14:55:43
2	Cr 267.716†	-376.3	-514.5	5.2244 ug/L	5.2244 ppb	14:55:43
2	Cu 324.752†	1427.3	-4315.4	0.7700 ug/L	0.7700 ppb	14:55:23
2	Fe 238.204 Radial†	13927.2	15765.9	442900 ug/L	442900 ppb	14:54:24
2	K 766.490 Radial†	3099.5	1354.3	250.37 ug/L	250.37 ppb	14:54:04
2	Mg 279.077 IEC†	4508.3	5104.3	498450 ug/L	498450 ppb	14:54:24
2	Mn 257.610†	-18243.5	-21670.8	-5.9540 ug/L	-5.9540 ppb	14:55:23
2	Mo 202.031†	-395.5	-468.4	-1.7758 ug/L	-1.7758 ppb	14:55:43
2	Na 589.592 Radial†	1408705.9	1596190.2	528720 ug/L	528720 ppb	14:54:04
2	Ni 231.604†	221.3	188.3	6.1447 ug/L	6.1447 ppb	14:55:43

2	P 214.914†	448.9	345.9	51.076 ug/L	51.076 ppb	14:55:43
2	Pb 220.353†	-404.2	-428.4	-7.9609 ug/L	-7.9609 ppb	14:55:43
2	S 181.975 Axial†	47.6	28.7	-46.590 ug/L	-46.590 ppb	14:55:43
2	Sb 206.836†	57.5	38.4	-4.8566 ug/L	-4.8566 ppb	14:55:43
2	Se 196.026†	-1692.3	-1954.6	-286.89 ug/L	-286.89 ppb	14:55:43
2	Si 251.611†	-409.0	-1016.7	-38.553 ug/L	-38.553 ppb	14:55:43
2	Sn 189.927†	-328.9	-390.7	-31.976 ug/L	-31.976 ppb	14:55:43
2	Sr 421.552†	1192.5	1326.0	8.7171 ug/L	8.7171 ppb	14:54:24
2	Ti 334.940†	-12010.5	-12993.5	-5.8959 ug/L	-5.8959 ppb	14:55:23
2	Tl 190.801†	-78.1	-67.6	-27.561 ug/L	-27.561 ppb	14:55:43
2	U 409.014†	436226.6	510716.5	15206 ug/L	15206 ppb	14:55:23
2	V 292.402†	1900.4	3452.5	1.5475 ug/L	1.5475 ppb	14:55:43
2	Zn 213.857†	4558.0	4806.4	-6.0815 ug/L	-6.0815 ppb	14:55:43
2	SiO2†	-400.0	-992.4	-80.042 ug/L	-80.042 ppb	14:56:19
3	Sc 361.383	695054.7	695054.7	85.337 %		14:55:48
3	Sc Radial	2984.2	2984.2	88.7 %		14:54:50
3	Y 371.029	585163.8	585163.8	83.526 %		14:55:48
3	Y RADIAL	2473.6	2473.6	88.70 %		14:54:50
3	Ag 328.068†	-19600.8	-23178.6	-3.0988 ug/L	-3.0988 ppb	14:55:48
3	Al 396.153Radial†	220015.9	248048.5	526620 ug/L	526620 ppb	14:54:30
3	As 188.979†	-152.7	-161.5	10.002 ug/L	10.002 ppb	14:56:09
3	B 249.677†	1427.5	1865.4	-18.440 ug/L	-18.440 ppb	14:55:48
3	Ba 233.527†	-1265.7	-1485.4	-0.8118 ug/L	-0.8118 ppb	14:56:09
3	Be 313.107†	-9684.4	-7874.6	-3.5406 ug/L	-3.5406 ppb	14:55:48
3	Ca 317.933Radial†	107846.7	121542.6	477930 ug/L	477930 ppb	14:54:30
3	Cd 226.502†	2797.5	3439.9	9.1454 ug/L	9.1454 ppb	14:56:09
3	Co 228.616†	201.7	279.0	1.0595 ug/L	1.0595 ppb	14:56:09
3	Cr 267.716†	-323.2	-454.4	5.9595 ug/L	5.9595 ppb	14:56:09
3	Cu 324.752†	1506.1	-4214.8	1.0060 ug/L	1.0060 ppb	14:55:48
3	Fe 238.204 Radial†	13931.8	15695.2	440910 ug/L	440910 ppb	14:54:50
3	K 766.490 Radial†	2978.1	1200.5	181.00 ug/L	181.00 ppb	14:54:30
3	Mg 279.077 IEC†	4511.0	5082.8	496350 ug/L	496350 ppb	14:54:50
3	Mn 257.610†	-17794.6	-21249.8	-5.4949 ug/L	-5.4949 ppb	14:55:48
3	Mo 202.031†	-389.8	-464.0	-1.5517 ug/L	-1.5517 ppb	14:56:09
3	Na 589.592 Radial†	1414290.3	1594811.9	528270 ug/L	528270 ppb	14:54:30
3	Ni 231.604†	186.2	148.6	4.8462 ug/L	4.8462 ppb	14:56:09
3	P 214.914†	435.2	332.4	41.197 ug/L	41.197 ppb	14:56:09
3	Pb 220.353†	-395.1	-420.0	-7.0308 ug/L	-7.0308 ppb	14:56:09
3	S 181.975 Axial†	52.5	34.7	-35.022 ug/L	-35.022 ppb	14:56:09
3	Sb 206.836†	47.7	27.1	-9.5301 ug/L	-9.5301 ppb	14:56:09
3	Se 196.026†	-1679.9	-1949.9	-289.17 ug/L	-289.17 ppb	14:56:09
3	Si 251.611†	-441.1	-1056.6	-40.090 ug/L	-40.090 ppb	14:56:09
3	Sn 189.927†	-315.9	-377.4	-29.002 ug/L	-29.002 ppb	14:56:09
3	Sr 421.552†	1190.5	1317.3	8.6472 ug/L	8.6472 ppb	14:54:50
3	Ti 334.940†	-11819.9	-12839.3	-5.6453 ug/L	-5.6453 ppb	14:55:48
3	Tl 190.801†	-74.5	-63.9	-26.049 ug/L	-26.049 ppb	14:56:09
3	U 409.014†	433590.8	510141.0	15189 ug/L	15189 ppb	14:55:48
3	V 292.402†	1874.8	3433.4	1.6148 ug/L	1.6148 ppb	14:56:09
3	Zn 213.857†	4571.6	4848.5	-5.2487 ug/L	-5.2487 ppb	14:56:09
3	SiO2†	-401.9	-996.9	-80.420 ug/L	-80.420 ppb	14:56:24

## Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	695993.3	85.452 %	0.2680			0.31%
Sc Radial	2971.0	88.3 %	0.38			0.43%
Y 371.029	585728.4	83.607 %	0.3406			0.41%
Y RADIAL	2471.7	88.63 %	0.099			0.11%
Ag 328.068†	-23246.1	-3.3363 ug/L	0.85009	-3.3363 ppb	0.85009	25.48%
Al 396.153Radial†	249460.5	529620 ug/L	2986.3	529620 ppb	2986.3	0.56%
QC value within limits for Al 396.153Radial Recovery = 105.92%						
As 188.979†	-161.4	10.159 ug/L	2.2623	10.159 ppb	2.2623	22.27%
B 249.677†	1859.4	-18.700 ug/L	1.9405	-18.700 ppb	1.9405	10.38%
Ba 233.527†	-1452.3	-0.4767 ug/L	0.29902	-0.4767 ppb	0.29902	62.72%
Be 313.107†	-7851.8	-3.5308 ug/L	0.03026	-3.5308 ppb	0.03026	0.86%
Ca 317.933Radial†	122184.1	480450 ug/L	3173.2	480450 ppb	3173.2	0.66%
QC value within limits for Ca 317.933Radial Recovery = 96.09%						
Cd 226.502†	3420.6	8.8038 ug/L	0.35868	8.8038 ppb	0.35868	4.07%
Co 228.616†	278.4	1.0365 ug/L	0.06838	1.0365 ppb	0.06838	6.60%
Cr 267.716†	-468.8	5.7787 ug/L	0.48958	5.7787 ppb	0.48958	8.47%



Cu 324.752†	-4239.6	0.9400 ug/L	0.14851	0.9400 ppb	0.14851	15.80%
Fe 238.204 Radial†	15714.3	441450 ug/L	1269.3	441450 ppb	1269.3	0.29%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 88.29%						
K 766.490 Radial†	1295.6	222.98 ug/L	36.914	222.98 ppb	36.914	16.55%
Mg 279.077 IEC†	5086.4	496700 ug/L	1596.7	496700 ppb	1596.7	0.32%
QC value within limits for Mg 279.077 IEC Recovery = 99.34%						
Mn 257.610†	-21402.3	-5.6628 ug/L	0.25317	-5.6628 ppb	0.25317	4.47%
Mo 202.031†	-467.0	-1.7532 ug/L	0.19118	-1.7532 ppb	0.19118	10.90%
Na 589.592 Radial†	1598429.8	529470 ug/L	1695.7	529470 ppb	1695.7	0.32%
QC value within limits for Na 589.592 Radial Recovery = 105.89%						
Ni 231.604†	171.9	5.6070 ug/L	0.67737	5.6070 ppb	0.67737	12.08%
P 214.914†	336.4	44.675 ug/L	5.5508	44.675 ppb	5.5508	12.42%
Pb 220.353†	-428.8	-7.8195 ug/L	0.72838	-7.8195 ppb	0.72838	9.31%
S 181.975 Axial†	38.9	-27.827 ug/L	23.2120	-27.827 ppb	23.2120	83.42%
Sb 206.836†	34.3	-6.5689 ug/L	2.57493	-6.5689 ppb	2.57493	39.20%
Se 196.026†	-1954.4	-290.72 ug/L	4.792	-290.72 ppb	4.792	1.65%
Si 251.611†	-1035.8	-39.286 ug/L	0.7708	-39.286 ppb	0.7708	1.96%
Sn 189.927†	-387.0	-30.843 ug/L	1.6088	-30.843 ppb	1.6088	5.22%
Sr 421.552†	1310.4	8.5642 ug/L	0.20731	8.5642 ppb	0.20731	2.42%
Ti 334.940†	-12928.2	-5.5017 ug/L	0.48237	-5.5017 ppb	0.48237	8.77%
Tl 190.801†	-68.3	-27.820 ug/L	1.9142	-27.820 ppb	1.9142	6.88%
U 409.014†	510886.2	15211 ug/L	25.2	15211 ppb	25.2	0.17%
QC value within limits for U 409.014 Recovery = 101.41%						
V 292.402†	3452.1	1.7328 ug/L	0.26469	1.7328 ppb	0.26469	15.28%
Zn 213.857†	4826.1	-5.6143 ug/L	0.42559	-5.6143 ppb	0.42559	7.58%
SiO2†	-985.3	-79.461 ug/L	1.3464	-79.461 ppb	1.3464	1.69%
QC Failed. Continue with analysis.						

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/8/2010 14:58:35

Data Type: Reprocessed on 3/8/2010 16:11:15

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 361.383	801037.8	801037.8	98.350 %		15:02:10
1	Sc Radial	3249.3	3249.3	96.6 %		15:00:53
1	Y 371.029	671797.7	671797.7	95.893 %		15:02:10
1	Y RADIAL	2693.8	2693.8	96.60 %		15:00:53
1	Ag 328.068†	-6998.5	-7325.8	3.2988 ug/L	3.2988 ppb	15:02:15
1	Al 396.153Radial†	142.3	216.6	-22.359 ug/L	-22.359 ppb	15:00:53
1	As 188.979†	17456.6	17766.9	10317 ug/L	10317 ppb	15:02:15
1	B 249.677†	176155.3	179304.0	5083.6 ug/L	5083.6 ppb	15:02:10
1	Ba 233.527†	1410551.2	1434219.6	13818 ug/L	13818 ppb	15:02:10
1	Be 313.107†	6446239.6	6557888.4	2928.7 ug/L	2928.7 ppb	15:02:03
1	Ca 317.933Radial†	17.3	6.9	27.087 ug/L	27.087 ppb	15:00:53
1	Cd 226.502†	652830.3	663947.3	9988.5 ug/L	9988.5 ppb	15:02:10
1	Co 228.616†	363992.8	370143.6	9924.9 ug/L	9924.9 ppb	15:02:10
1	Cr 267.716†	1799978.5	1830108.4	24694 ug/L	24694 ppb	15:02:10
1	Cu 324.752†	6097635.8	6193981.2	20420 ug/L	20420 ppb	15:02:03
1	Fe 238.204 Radial†	0.4	-6.9	104.24 ug/L	104.24 ppb	15:00:53
1	K 766.490 Radial†	669516.8	690890.2	314710 ug/L	314710 ppb	15:00:28
1	Mg 279.077 IEC†	-1.3	-2.9	-175.01 ug/L	-175.01 ppb	15:00:53
1	Mn 257.610†	6969383.1	7085939.3	9579.9 ug/L	9579.9 ppb	15:02:03
1	Mo 202.031†	109439.4	111268.7	9944.5 ug/L	9944.5 ppb	15:02:15
1	Na 589.592 Radial†	-16.9	753.3	249.54 ug/L	249.54 ppb	15:00:33
1	Ni 231.604†	306008.9	311074.4	10151 ug/L	10151 ppb	15:02:10
1	P 214.914†	23787.9	24009.4	15048 ug/L	15048 ppb	15:02:15
1	Pb 220.353†	152116.0	154711.6	24841 ug/L	24841 ppb	15:02:10
1	S 181.975 Axial†	28824.1	29280.9	53774 ug/L	53774 ppb	15:02:15
1	Sb 206.836†	24940.8	25330.7	11252 ug/L	11252 ppb	15:02:15
1	Se 196.026†	12162.7	12385.4	10536 ug/L	10536 ppb	15:02:15
1	Si 251.611†	1232614.0	1252758.9	48016 ug/L	48016 ppb	15:02:10
1	Sn 189.927†	44043.8	44775.7	10512 ug/L	10512 ppb	15:02:15
1	Sr 421.552†	1044718.5	1081409.5	10029 ug/L	10029 ppb	15:00:28
1	Ti 334.940†	5592580.1	5687441.3	9948.8 ug/L	9948.8 ppb	15:02:03
1	Tl 190.801†	24352.7	24784.8	10012 ug/L	10012 ppb	15:02:15
1	U 409.014†	-1127.6	903.3	-28.223 ug/L	-28.223 ppb	15:02:10
1	V 292.402†	1253102.2	1275367.1	10384 ug/L	10384 ppb	15:02:10
1	Zn 213.857†	1131980.1	1150467.4	14322 ug/L	14322 ppb	15:02:10
1	SiO2†	1234402.7	1254591.4	102360 ug/L	102360 ppb	15:03:02
2	Sc 361.383	804793.2	804793.2	98.811 %		15:02:30
2	Sc Radial	3224.6	3224.6	95.9 %		15:01:23
2	Y 371.029	675328.5	675328.5	96.397 %		15:02:30
2	Y RADIAL	2649.5	2649.5	95.01 %		15:01:23
2	Ag 328.068†	-6969.1	-7262.9	3.6004 ug/L	3.6004 ppb	15:02:35
2	Al 396.153Radial†	155.1	231.1	13.460 ug/L	13.460 ppb	15:01:23
2	As 188.979†	17284.0	17509.5	10168 ug/L	10168 ppb	15:02:35
2	B 249.677†	176884.4	179206.1	5080.8 ug/L	5080.8 ppb	15:02:30
2	Ba 233.527†	1416839.9	1433891.5	13814 ug/L	13814 ppb	15:02:30
2	Be 313.107†	6513479.0	6595352.4	2945.3 ug/L	2945.3 ppb	15:02:23
2	Ca 317.933Radial†	13.0	2.6	10.177 ug/L	10.177 ppb	15:01:23
2	Cd 226.502†	655834.7	663890.4	9987.7 ug/L	9987.7 ppb	15:02:30
2	Co 228.616†	365532.9	369975.2	9920.0 ug/L	9920.0 ppb	15:02:30
2	Cr 267.716†	1808086.7	1829774.1	24690 ug/L	24690 ppb	15:02:30
2	Cu 324.752†	6162621.4	6230818.2	20541 ug/L	20541 ppb	15:02:23
2	Fe 238.204 Radial†	0.7	-6.5	113.91 ug/L	113.91 ppb	15:01:23
2	K 766.490 Radial†	668581.9	695221.1	316680 ug/L	316680 ppb	15:00:58
2	Mg 279.077 IEC†	-1.2	-2.7	-165.30 ug/L	-165.30 ppb	15:01:23
2	Mn 257.610†	7009212.1	7093180.9	9589.7 ug/L	9589.7 ppb	15:02:23
2	Mo 202.031†	108803.3	110105.8	9840.6 ug/L	9840.6 ppb	15:02:35
2	Na 589.592 Radial†	-2.6	768.0	254.41 ug/L	254.41 ppb	15:01:03
2	Ni 231.604†	307505.7	311137.3	10153 ug/L	10153 ppb	15:02:30

2	P 214.914†	23666.8	23774.1	14837 ug/L	14837 ppb	15:02:35
2	Pb 220.353†	152646.8	154527.2	24811 ug/L	24811 ppb	15:02:30
2	S 181.975 Axial†	28595.0	28912.4	53097 ug/L	53097 ppb	15:02:35
2	Sb 206.836†	24734.6	25003.6	11107 ug/L	11107 ppb	15:02:35
2	Se 196.026†	11998.5	12161.5	10346 ug/L	10346 ppb	15:02:35
2	Si 251.611†	1237251.5	1251604.0	47973 ug/L	47973 ppb	15:02:30
2	Sn 189.927†	43769.8	44289.5	10398 ug/L	10398 ppb	15:02:35
2	Sr 421.552†	1037986.2	1082666.7	10040 ug/L	10040 ppb	15:00:58
2	Ti 334.940†	5630919.8	5699707.9	9970.3 ug/L	9970.3 ppb	15:02:23
2	Tl 190.801†	24181.1	24495.6	9895.8 ug/L	9895.8 ppb	15:02:35
2	U 409.014†	-1120.0	916.5	-27.822 ug/L	-27.822 ppb	15:02:30
2	V 292.402†	1258094.8	1274474.3	10376 ug/L	10376 ppb	15:02:30
2	Zn 213.857†	1136107.6	1149273.8	14307 ug/L	14307 ppb	15:02:30
2	SiO2†	1231101.5	1245393.8	101610 ug/L	101610 ppb	15:03:07
3	Sc 361.383	802645.1	802645.1	98.547 %		15:02:50
3	Sc Radial	3214.0	3214.0	95.6 %		15:01:54
3	Y 371.029	672849.7	672849.7	96.043 %		15:02:50
3	Y RADIAL	2653.9	2653.9	95.17 %		15:01:54
3	Ag 328.068†	-6951.9	-7264.3	3.6419 ug/L	3.6419 ppb	15:02:55
3	Al 396.153Radial†	149.6	226.0	2.8175 ug/L	2.8175 ppb	15:01:54
3	As 188.979†	17264.3	17536.3	10183 ug/L	10183 ppb	15:02:55
3	B 249.677†	177101.6	179905.6	5100.6 ug/L	5100.6 ppb	15:02:50
3	Ba 233.527†	1416818.5	1437707.3	13851 ug/L	13851 ppb	15:02:50
3	Be 313.107†	6454554.8	6553200.9	2926.5 ug/L	2926.5 ppb	15:02:43
3	Ca 317.933Radial†	18.1	8.0	31.352 ug/L	31.352 ppb	15:01:54
3	Cd 226.502†	655269.9	665093.7	10006 ug/L	10006 ppb	15:02:50
3	Co 228.616†	365867.0	371304.3	9955.8 ug/L	9955.8 ppb	15:02:50
3	Cr 267.716†	1805572.6	1832120.0	24721 ug/L	24721 ppb	15:02:50
3	Cu 324.752†	6088107.7	6171897.0	20347 ug/L	20347 ppb	15:02:43
3	Fe 238.204 Radial†	-0.7	-8.0	73.781 ug/L	73.781 ppb	15:01:54
3	K 766.490 Radial†	658791.3	687288.4	313070 ug/L	313070 ppb	15:01:28
3	Mg 279.077 IEC†	-2.5	-4.2	-307.18 ug/L	-307.18 ppb	15:01:54
3	Mn 257.610†	6958302.8	7060505.1	9545.5 ug/L	9545.5 ppb	15:02:43
3	Mo 202.031†	108443.8	110035.6	9834.3 ug/L	9834.3 ppb	15:02:55
3	Na 589.592 Radial†	14.0	785.5	260.18 ug/L	260.18 ppb	15:01:34
3	Ni 231.604†	307368.3	311830.7	10176 ug/L	10176 ppb	15:02:50
3	P 214.914†	23587.7	23757.9	14863 ug/L	14863 ppb	15:02:55
3	Pb 220.353†	152635.5	154929.1	24876 ug/L	24876 ppb	15:02:50
3	S 181.975 Axial†	28453.4	28846.1	52975 ug/L	52975 ppb	15:02:55
3	Sb 206.836†	24641.8	24976.4	11096 ug/L	11096 ppb	15:02:55
3	Se 196.026†	11925.2	12119.6	10310 ug/L	10310 ppb	15:02:55
3	Si 251.611†	1238839.8	1256566.8	48164 ug/L	48164 ppb	15:02:50
3	Sn 189.927†	43698.5	44335.6	10409 ug/L	10409 ppb	15:02:55
3	Sr 421.552†	1022467.7	1070018.0	9922.9 ug/L	9922.9 ppb	15:01:28
3	Ti 334.940†	5580013.8	5663302.5	9906.6 ug/L	9906.6 ppb	15:02:43
3	Tl 190.801†	24169.3	24549.2	9916.4 ug/L	9916.4 ppb	15:02:55
3	U 409.014†	-1134.8	898.4	-28.428 ug/L	-28.428 ppb	15:02:50
3	V 292.402†	1256604.9	1276370.0	10391 ug/L	10391 ppb	15:02:50
3	Zn 213.857†	1136679.4	1152931.1	14352 ug/L	14352 ppb	15:02:50
3	SiO2†	1215422.7	1232818.2	100580 ug/L	100580 ppb	15:03:13

## Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802825.4	98.569 %	0.2313			0.23%
Sc Radial	3229.3	96.0 %	0.54			0.56%
Y 371.029	673325.3	96.111 %	0.2588			0.27%
Y RADIAL	2665.7	95.59 %	0.876			0.92%
Ag 328.068†	-7284.4	3.5137 ug/L	0.18725	3.5137 ppb	0.18725	5.33%
Al 396.153Radial†	224.6	-2.0274 ug/L	18.39450	-2.0274 ppb	18.39450	907.28%
As 188.979†	17604.3	10223 ug/L	81.6	10223 ppb	81.6	0.80%
QC value within limits for As 188.979 Recovery = 102.23%						
B 249.677†	179471.9	5088.3 ug/L	10.75	5088.3 ppb	10.75	0.21%
QC value within limits for B 249.677 Recovery = 101.77%						
Ba 233.527†	1435272.8	13828 ug/L	20.4	13828 ppb	20.4	0.15%
QC value within limits for Ba 233.527 Recovery = 92.18%						
Be 313.107†	6568813.9	2933.5 ug/L	10.30	2933.5 ppb	10.30	0.35%
QC value within limits for Be 313.107 Recovery = 97.78%						
Ca 317.933Radial†	5.8	22.872 ug/L	11.1987	22.872 ppb	11.1987	48.96%
Cd 226.502†	664310.5	9994.0 ug/L	10.22	9994.0 ppb	10.22	0.10%

QC value within limits for Cd 226.502 Recovery = 99.94%							
Co 228.616†	370474.4	9933.6 ug/L	19.41	9933.6 ppb	19.41	0.20%	
QC value within limits for Co 228.616 Recovery = 99.34%							
Cr 267.716†	1830667.5	24702 ug/L	17.1	24702 ppb	17.1	0.07%	
QC value within limits for Cr 267.716 Recovery = 98.81%							
Cu 324.752†	6198898.8	20436 ug/L	98.1	20436 ppb	98.1	0.48%	
QC value within limits for Cu 324.752 Recovery = 102.18%							
Fe 238.204 Radial†	-7.1	97.309 ug/L	20.9411	97.309 ppb	20.9411	21.52%	
K 766.490 Radial†	691133.2	314820 ug/L	1809.3	314820 ppb	1809.3	0.57%	
QC value within limits for K 766.490 Radial Recovery = 104.94%							
Mg 279.077 IEC†	-3.3	-215.83 ug/L	79.263	-215.83 ppb	79.263	36.72%	
Mn 257.610†	7079875.1	9571.7 ug/L	23.20	9571.7 ppb	23.20	0.24%	
QC value within limits for Mn 257.610 Recovery = 95.72%							
Mo 202.031†	110470.0	9873.1 ug/L	61.90	9873.1 ppb	61.90	0.63%	
QC value within limits for Mo 202.031 Recovery = 98.73%							
Na 589.592 Radial†	768.9	254.71 ug/L	5.328	254.71 ppb	5.328	2.09%	
Ni 231.604†	311347.5	10160 ug/L	13.7	10160 ppb	13.7	0.13%	
QC value within limits for Ni 231.604 Recovery = 101.60%							
P 214.914†	23847.1	14916 ug/L	115.3	14916 ppb	115.3	0.77%	
QC value within limits for P 214.914 Recovery = 99.44%							
Pb 220.353†	154722.6	24843 ug/L	32.3	24843 ppb	32.3	0.13%	
QC value within limits for Pb 220.353 Recovery = 99.37%							
S 181.975 Axial†	29013.1	53282 ug/L	430.3	53282 ppb	430.3	0.81%	
QC value within limits for S 181.975 Axial Recovery = 106.56%							
Sb 206.836†	25103.6	11152 ug/L	86.9	11152 ppb	86.9	0.78%	
QC value greater than the upper limit for Sb 206.836 Recovery = 111.52%							
Se 196.026†	12222.2	10397 ug/L	121.4	10397 ppb	121.4	1.17%	
QC value within limits for Se 196.026 Recovery = 103.97%							
Si 251.611†	1253643.2	48051 ug/L	100.1	48051 ppb	100.1	0.21%	
QC value within limits for Si 251.611 Recovery = 96.10%							
Sn 189.927†	44466.9	10440 ug/L	63.0	10440 ppb	63.0	0.60%	
QC value within limits for Sn 189.927 Recovery = 104.40%							
Sr 421.552†	1078031.4	9997.2 ug/L	64.62	9997.2 ppb	64.62	0.65%	
QC value within limits for Sr 421.552 Recovery = 99.97%							
Ti 334.940†	5683483.9	9941.9 ug/L	32.43	9941.9 ppb	32.43	0.33%	
QC value within limits for Ti 334.940 Recovery = 99.42%							
Tl 190.801†	24609.8	9941.2 ug/L	61.79	9941.2 ppb	61.79	0.62%	
QC value within limits for Tl 190.801 Recovery = 99.41%							
U 409.014†	906.1	-28.158 ug/L	0.3084	-28.158 ppb	0.3084	1.10%	
V 292.402†	1275403.8	10384 ug/L	7.6	10384 ppb	7.6	0.07%	
QC value within limits for V 292.402 Recovery = 103.84%							
Zn 213.857†	1150890.8	14327 ug/L	23.4	14327 ppb	23.4	0.16%	
QC value within limits for Zn 213.857 Recovery = 95.51%							
SiO2†	1244267.8	101520 ug/L	892.7	101520 ppb	892.7	0.88%	
QC value within limits for SiO2 Recovery = 94.87%							
QC Failed. Continue with analysis.							

Sequence No.: 13  
 Sample ID: CCV  
 Analyst:  
 Logged In Analyst (Original) : Optima3  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 3/8/2010 15:05:24  
 Data Type: Reprocessed on 3/8/2010 16:11:16  
 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 361.383	821161.9	821161.9	100.82 %		15:08:34
1	Sc Radial	3188.9	3188.9	94.8 %		15:07:36
1	Y 371.029	694859.0	694859.0	99.184 %		15:08:34
1	Y RADIAL	2643.6	2643.6	94.80 %		15:07:36
1	Ag 328.068†	99771.8	98750.1	517.17 ug/L	517.17 ppb	15:08:39
1	Al 396.153Radial†	2402.1	2602.9	5501.6 ug/L	5501.6 ppb	15:07:16
1	As 188.979†	948.1	957.8	557.19 ug/L	557.19 ppb	15:08:59
1	B 249.677†	19007.2	19045.1	540.57 ug/L	540.57 ppb	15:08:39
1	Ba 233.527†	54381.3	53936.6	520.09 ug/L	520.09 ppb	15:08:39
1	Be 313.107†	1158717.7	1152763.1	511.98 ug/L	511.98 ppb	15:08:34
1	Ca 317.933Radial†	1285.9	1345.3	5290.0 ug/L	5290.0 ppb	15:07:36
1	Cd 226.502†	35037.7	34914.4	524.80 ug/L	524.80 ppb	15:08:39
1	Co 228.616†	19930.2	19810.6	531.37 ug/L	531.37 ppb	15:08:39
1	Cr 267.716†	39023.5	38630.3	521.69 ug/L	521.69 ppb	15:08:39
1	Cu 324.752†	163222.3	155914.5	514.00 ug/L	514.00 ppb	15:08:39
1	Fe 238.204 Radial†	189.6	192.7	5428.8 ug/L	5428.8 ppb	15:07:36
1	K 766.490 Radial†	14391.8	13023.7	5925.6 ug/L	5925.6 ppb	15:07:16
1	Mg 279.077 IEC†	52.9	54.2	5298.2 ug/L	5298.2 ppb	15:07:36
1	Mn 257.610†	383083.2	379568.4	513.48 ug/L	513.48 ppb	15:08:34
1	Mo 202.031†	5709.3	5655.6	505.95 ug/L	505.95 ppb	15:08:59
1	Na 589.592 Radial†	32165.3	34697.1	11493 ug/L	11493 ppb	15:07:16
1	Ni 231.604†	16471.6	16267.9	530.86 ug/L	530.86 ppb	15:08:39
1	P 214.914†	3423.6	3218.1	2447.1 ug/L	2447.1 ppb	15:08:59
1	Pb 220.353†	3245.7	3262.3	525.01 ug/L	525.01 ppb	15:08:59
1	S 181.975 Axial†	593.6	562.0	1031.0 ug/L	1031.0 ppb	15:08:59
1	Sb 206.836†	1255.8	1216.9	540.95 ug/L	540.95 ppb	15:08:59
1	Se 196.026†	584.0	597.9	525.22 ug/L	525.22 ppb	15:08:59
1	Si 251.611†	67858.7	66766.8	2559.4 ug/L	2559.4 ppb	15:08:39
1	Sn 189.927†	2181.6	2156.7	506.96 ug/L	506.96 ppb	15:08:59
1	Sr 421.552†	55609.8	58629.9	543.67 ug/L	543.67 ppb	15:07:16
1	Ti 334.940†	288434.5	287098.9	502.52 ug/L	502.52 ppb	15:08:39
1	Tl 190.801†	1261.3	1274.5	514.75 ug/L	514.75 ppb	15:08:59
1	U 409.014†	15753.3	17675.1	526.22 ug/L	526.22 ppb	15:08:39
1	V 292.402†	63566.7	64285.9	524.08 ug/L	524.08 ppb	15:08:39
1	Zn 213.857†	42631.7	41776.3	518.52 ug/L	518.52 ppb	15:08:39
1	SiO2†	66375.4	65309.4	5328.7 ug/L	5328.7 ppb	15:10:06
2	Sc 361.383	823982.6	823982.6	101.17 %		15:09:05
2	Sc Radial	3251.4	3251.4	96.7 %		15:08:01
2	Y 371.029	697466.1	697466.1	99.557 %		15:09:05
2	Y RADIAL	2680.0	2680.0	96.10 %		15:08:01
2	Ag 328.068†	98307.0	96963.4	507.83 ug/L	507.83 ppb	15:09:10
2	Al 396.153Radial†	2328.1	2477.7	5235.9 ug/L	5235.9 ppb	15:07:41
2	As 188.979†	942.6	949.2	552.14 ug/L	552.14 ppb	15:09:30
2	B 249.677†	18523.5	18502.5	525.14 ug/L	525.14 ppb	15:09:10
2	Ba 233.527†	53484.3	52865.3	509.76 ug/L	509.76 ppb	15:09:10
2	Be 313.107†	1163775.5	1153828.2	512.43 ug/L	512.43 ppb	15:09:05
2	Ca 317.933Radial†	1294.8	1328.5	5223.9 ug/L	5223.9 ppb	15:08:01
2	Cd 226.502†	34456.5	34221.0	514.37 ug/L	514.37 ppb	15:09:10
2	Co 228.616†	19582.9	19399.7	520.36 ug/L	520.36 ppb	15:09:10
2	Cr 267.716†	38412.2	37893.5	511.75 ug/L	511.75 ppb	15:09:10
2	Cu 324.752†	160662.6	152830.1	503.84 ug/L	503.84 ppb	15:09:10
2	Fe 238.204 Radial†	191.9	191.2	5387.6 ug/L	5387.6 ppb	15:08:01
2	K 766.490 Radial†	14160.3	12492.7	5684.0 ug/L	5684.0 ppb	15:07:41
2	Mg 279.077 IEC†	53.2	53.5	5228.8 ug/L	5228.8 ppb	15:08:01
2	Mn 257.610†	383555.9	378734.9	512.35 ug/L	512.35 ppb	15:09:05
2	Mo 202.031†	5715.5	5642.4	504.76 ug/L	504.76 ppb	15:09:30
2	Na 589.592 Radial†	30968.1	32807.2	10867 ug/L	10867 ppb	15:07:41
2	Ni 231.604†	16153.0	15897.0	518.75 ug/L	518.75 ppb	15:09:10

2	P 214.914†	3431.0	3213.8	2445.7 ug/L	2445.7 ppb	15:09:30
2	Pb 220.353†	3242.6	3248.2	522.70 ug/L	522.70 ppb	15:09:30
2	S 181.975 Axial†	587.3	553.7	1015.9 ug/L	1015.9 ppb	15:09:30
2	Sb 206.836†	1260.8	1217.6	541.24 ug/L	541.24 ppb	15:09:30
2	Se 196.026†	592.3	604.1	530.31 ug/L	530.31 ppb	15:09:30
2	Si 251.611†	66680.2	65371.5	2505.8 ug/L	2505.8 ppb	15:09:10
2	Sn 189.927†	2193.9	2161.4	508.05 ug/L	508.05 ppb	15:09:30
2	Sr 421.552†	53813.5	55645.2	515.99 ug/L	515.99 ppb	15:07:41
2	Ti 334.940†	283564.3	281305.6	492.38 ug/L	492.38 ppb	15:09:10
2	Tl 190.801†	1269.9	1278.7	516.43 ug/L	516.43 ppb	15:09:30
2	U 409.014†	15360.3	17233.1	513.04 ug/L	513.04 ppb	15:09:10
2	V 292.402†	62689.3	63202.8	515.34 ug/L	515.34 ppb	15:09:10
2	Zn 213.857†	41869.1	40877.7	507.35 ug/L	507.35 ppb	15:09:10
2	SiO2†	65900.5	64614.6	5271.9 ug/L	5271.9 ppb	15:10:11
3	Sc 361.383	817523.1	817523.1	100.37 %		15:09:36
3	Sc Radial	3260.3	3260.3	96.9 %		15:08:27
3	Y 371.029	693916.1	693916.1	99.050 %		15:09:36
3	Y RADIAL	2696.3	2696.3	96.69 %		15:08:27
3	Ag 328.068†	98923.6	98345.5	515.05 ug/L	515.05 ppb	15:09:41
3	Al 396.153Radial†	2333.5	2476.7	5233.4 ug/L	5233.4 ppb	15:08:07
3	As 188.979†	936.2	950.2	552.78 ug/L	552.78 ppb	15:10:01
3	B 249.677†	18683.8	18806.8	533.79 ug/L	533.79 ppb	15:09:41
3	Ba 233.527†	53820.7	53618.2	517.02 ug/L	517.02 ppb	15:09:41
3	Be 313.107†	1156193.4	1155363.5	513.12 ug/L	513.12 ppb	15:09:36
3	Ca 317.933Radial†	1298.8	1329.0	5225.7 ug/L	5225.7 ppb	15:08:27
3	Cd 226.502†	34636.0	34668.9	521.10 ug/L	521.10 ppb	15:09:41
3	Co 228.616†	19701.5	19670.8	527.63 ug/L	527.63 ppb	15:09:41
3	Cr 267.716†	38617.8	38398.3	518.56 ug/L	518.56 ppb	15:09:41
3	Cu 324.752†	161811.6	155229.6	511.75 ug/L	511.75 ppb	15:09:41
3	Fe 238.204 Radial†	193.5	192.4	5419.5 ug/L	5419.5 ppb	15:08:27
3	K 766.490 Radial†	14214.1	12507.9	5690.9 ug/L	5690.9 ppb	15:08:07
3	Mg 279.077 IEC†	53.7	53.8	5261.0 ug/L	5261.0 ppb	15:08:27
3	Mn 257.610†	380217.8	378404.8	511.91 ug/L	511.91 ppb	15:09:36
3	Mo 202.031†	5736.4	5707.9	510.62 ug/L	510.62 ppb	15:10:01
3	Na 589.592 Radial†	30940.6	32690.5	10828 ug/L	10828 ppb	15:08:07
3	Ni 231.604†	16255.9	16125.8	526.22 ug/L	526.22 ppb	15:09:41
3	P 214.914†	3429.9	3239.5	2464.4 ug/L	2464.4 ppb	15:10:01
3	Pb 220.353†	3230.4	3261.4	524.83 ug/L	524.83 ppb	15:10:01
3	S 181.975 Axial†	587.7	558.7	1025.1 ug/L	1025.1 ppb	15:10:01
3	Sb 206.836†	1244.0	1210.6	538.40 ug/L	538.40 ppb	15:10:01
3	Se 196.026†	597.7	614.1	538.88 ug/L	538.88 ppb	15:10:01
3	Si 251.611†	66962.3	66173.3	2536.5 ug/L	2536.5 ppb	15:09:41
3	Sn 189.927†	2180.7	2165.4	508.99 ug/L	508.99 ppb	15:10:01
3	Sr 421.552†	53750.9	55427.4	513.97 ug/L	513.97 ppb	15:08:07
3	Ti 334.940†	285582.3	285530.8	499.77 ug/L	499.77 ppb	15:09:41
3	Tl 190.801†	1261.1	1279.9	516.91 ug/L	516.91 ppb	15:10:01
3	U 409.014†	15578.9	17570.8	523.11 ug/L	523.11 ppb	15:09:41
3	V 292.402†	63016.9	64018.8	521.99 ug/L	521.99 ppb	15:09:41
3	Zn 213.857†	42166.5	41501.0	515.10 ug/L	515.10 ppb	15:09:41
3	SiO2†	67053.1	66277.6	5407.8 ug/L	5407.8 ppb	15:10:17

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820889.2	100.79 %	0.398			0.39%
Sc Radial	3233.5	96.1 %	1.16			1.20%
Y 371.029	695413.7	99.264 %	0.2625			0.26%
Y RADIAL	2673.3	95.86 %	0.968			1.01%
Ag 328.068†	98019.6	513.35 ug/L	4.894	513.35 ppb	4.894	0.95%
QC value within limits for Ag 328.068 Recovery = 102.67%						
Al 396.153Radial†	2519.1	5323.6 ug/L	154.15	5323.6 ppb	154.15	2.90%
QC value within limits for Al 396.153Radial Recovery = 106.47%						
As 188.979†	952.4	554.04 ug/L	2.751	554.04 ppb	2.751	0.50%
QC value greater than the upper limit for As 188.979 Recovery = 110.81%						
B 249.677†	18784.8	533.17 ug/L	7.734	533.17 ppb	7.734	1.45%
QC value within limits for B 249.677 Recovery = 106.63%						
Ba 233.527†	53473.3	515.62 ug/L	5.302	515.62 ppb	5.302	1.03%
QC value within limits for Ba 233.527 Recovery = 103.12%						
Be 313.107†	1153984.9	512.51 ug/L	0.578	512.51 ppb	0.578	0.11%
QC value within limits for Be 313.107 Recovery = 102.50%						

Ca 317.933Radial†	1334.3	5246.6 ug/L	37.66	5246.6 ppb	37.66	0.72%
QC value within limits for Ca 317.933Radial Recovery = 104.93%						
Cd 226.502†	34601.4	520.09 ug/L	5.289	520.09 ppb	5.289	1.02%
QC value within limits for Cd 226.502 Recovery = 104.02%						
Co 228.616†	19627.0	526.45 ug/L	5.595	526.45 ppb	5.595	1.06%
QC value within limits for Co 228.616 Recovery = 105.29%						
Cr 267.716†	38307.4	517.33 ug/L	5.085	517.33 ppb	5.085	0.98%
QC value within limits for Cr 267.716 Recovery = 103.47%						
Cu 324.752†	154658.1	509.86 ug/L	5.337	509.86 ppb	5.337	1.05%
QC value within limits for Cu 324.752 Recovery = 101.97%						
Fe 238.204 Radial†	192.1	5412.0 ug/L	21.60	5412.0 ppb	21.60	0.40%
QC value within limits for Fe 238.204 Radial Recovery = 108.24%						
K 766.490 Radial†	12674.7	5766.9 ug/L	137.54	5766.9 ppb	137.54	2.38%
QC value greater than the upper limit for K 766.490 Radial Recovery = 115.34%						
Mg 279.077 IEC†	53.8	5262.7 ug/L	34.71	5262.7 ppb	34.71	0.66%
QC value within limits for Mg 279.077 IEC Recovery = 105.25%						
Mn 257.610†	378902.7	512.58 ug/L	0.811	512.58 ppb	0.811	0.16%
QC value within limits for Mn 257.610 Recovery = 102.52%						
Mo 202.031†	5668.6	507.11 ug/L	3.094	507.11 ppb	3.094	0.61%
QC value within limits for Mo 202.031 Recovery = 101.42%						
Na 589.592 Radial†	33398.3	11063 ug/L	373.1	11063 ppb	373.1	3.37%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.63%						
Ni 231.604†	16096.9	525.28 ug/L	6.107	525.28 ppb	6.107	1.16%
QC value within limits for Ni 231.604 Recovery = 105.06%						
P 214.914†	3223.8	2452.4 ug/L	10.42	2452.4 ppb	10.42	0.42%
QC value within limits for P 214.914 Recovery = 98.09%						
Pb 220.353†	3257.3	524.18 ug/L	1.285	524.18 ppb	1.285	0.25%
QC value within limits for Pb 220.353 Recovery = 104.84%						
S 181.975 Axial†	558.1	1024.0 ug/L	7.61	1024.0 ppb	7.61	0.74%
QC value within limits for S 181.975 Axial Recovery = 102.40%						
Sb 206.836†	1215.0	540.19 ug/L	1.560	540.19 ppb	1.560	0.29%
QC value within limits for Sb 206.836 Recovery = 108.04%						
Se 196.026†	605.4	531.47 ug/L	6.901	531.47 ppb	6.901	1.30%
QC value within limits for Se 196.026 Recovery = 106.29%						
Si 251.611†	66103.9	2533.9 ug/L	26.90	2533.9 ppb	26.90	1.06%
QC value within limits for Si 251.611 Recovery = 101.35%						
Sn 189.927†	2161.2	508.00 ug/L	1.016	508.00 ppb	1.016	0.20%
QC value within limits for Sn 189.927 Recovery = 101.60%						
Sr 421.552†	56567.5	524.54 ug/L	16.594	524.54 ppb	16.594	3.16%
QC value within limits for Sr 421.552 Recovery = 104.91%						
Ti 334.940†	284645.1	498.22 ug/L	5.242	498.22 ppb	5.242	1.05%
QC value within limits for Ti 334.940 Recovery = 99.64%						
Tl 190.801†	1277.7	516.03 ug/L	1.134	516.03 ppb	1.134	0.22%
QC value within limits for Tl 190.801 Recovery = 103.21%						
U 409.014†	17493.0	520.79 ug/L	6.888	520.79 ppb	6.888	1.32%
QC value within limits for U 409.014 Recovery = 104.16%						
V 292.402†	63835.8	520.47 ug/L	4.564	520.47 ppb	4.564	0.88%
QC value within limits for V 292.402 Recovery = 104.09%						
Zn 213.857†	41385.0	513.66 ug/L	5.719	513.66 ppb	5.719	1.11%
QC value within limits for Zn 213.857 Recovery = 102.73%						
SiO2†	65400.5	5336.2 ug/L	68.24	5336.2 ppb	68.24	1.28%
QC value within limits for SiO2 Recovery = 99.79%						
QC Failed. Continue with analysis.						

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/8/2010 15:12:26

Data Type: Reprocessed on 3/8/2010 16:11:17

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 361.383	818512.0	818512.0	100.50 %		15:15:36
1	Sc Radial	3421.3	3421.3	102 %		15:14:39
1	Y 371.029	702269.8	702269.8	100.24 %		15:15:36
1	Y RADIAL	2857.1	2857.1	102.5 %		15:14:39
1	Ag 328.068†	207.0	-3.9	0.0018 ug/L	0.0018 ppb	15:15:36
1	Al 396.153Radial†	-64.6	5.8	12.332 ug/L	12.332 ppb	15:14:39
1	As 188.979†	1.3	18.7	10.820 ug/L	10.820 ppb	15:15:56
1	B 249.677†	262.0	453.3	12.912 ug/L	12.912 ppb	15:15:56
1	Ba 233.527†	15.2	13.0	0.1277 ug/L	0.1277 ppb	15:15:56
1	Be 313.107†	-3377.9	112.6	0.0499 ug/L	0.0499 ppb	15:15:36
1	Ca 317.933Radial†	11.9	0.8	2.9582 ug/L	2.9582 ppb	15:14:39
1	Cd 226.502†	-136.4	26.1	0.3862 ug/L	0.3862 ppb	15:15:56
1	Co 228.616†	-35.9	6.9	0.1847 ug/L	0.1847 ppb	15:15:56
1	Cr 267.716†	76.6	0.5	0.0109 ug/L	0.0109 ppb	15:15:56
1	Cu 324.752†	6019.9	10.6	0.0386 ug/L	0.0386 ppb	15:15:36
1	Fe 238.204 Radial†	9.7	2.3	63.972 ug/L	63.972 ppb	15:14:39
1	K 766.490 Radial†	2554.4	355.2	161.79 ug/L	161.79 ppb	15:14:19
1	Mg 279.077 IEC†	2.8	1.2	114.55 ug/L	114.55 ppb	15:14:39
1	Mn 257.610†	386.2	-13.4	-0.0165 ug/L	-0.0165 ppb	15:15:56
1	Mo 202.031†	13.1	5.8	0.5239 ug/L	0.5239 ppb	15:15:56
1	Na 589.592 Radial†	-640.0	141.6	46.904 ug/L	46.904 ppb	15:14:19
1	Ni 231.604†	69.7	-0.3	-0.0098 ug/L	-0.0098 ppb	15:15:56
1	P 214.914†	185.3	6.8	5.3323 ug/L	5.3323 ppb	15:15:56
1	Pb 220.353†	-12.4	30.6	4.9083 ug/L	4.9083 ppb	15:15:56
1	S 181.975 Axial†	33.6	6.6	12.152 ug/L	12.152 ppb	15:15:56
1	Sb 206.836†	51.3	22.3	9.6170 ug/L	9.6170 ppb	15:15:56
1	Se 196.026†	-20.8	-2.1	-1.5815 ug/L	-1.5815 ppb	15:15:56
1	Si 251.611†	577.2	34.6	1.3216 ug/L	1.3216 ppb	15:15:56
1	Sn 189.927†	17.5	10.3	2.4056 ug/L	2.4056 ppb	15:15:56
1	Sr 421.552†	27.1	2.1	0.0193 ug/L	0.0193 ppb	15:14:19
1	Ti 334.940†	-1011.0	5.5	0.0009 ug/L	0.0009 ppb	15:15:36
1	Tl 190.801†	-23.1	0.5	0.2005 ug/L	0.2005 ppb	15:15:56
1	U 409.014†	-2084.9	-24.7	-0.7462 ug/L	-0.7462 ppb	15:15:36
1	V 292.402†	-1184.2	58.1	0.4660 ug/L	0.4660 ppb	15:15:36
1	Zn 213.857†	557.8	46.5	0.5725 ug/L	0.5725 ppb	15:15:56
1	SiO2†	573.4	44.6	3.6369 ug/L	3.6369 ppb	15:17:07
2	Sc 361.383	823712.7	823712.7	101.13 %		15:16:01
2	Sc Radial	3306.3	3306.3	98.3 %		15:15:04
2	Y 371.029	706290.8	706290.8	100.82 %		15:16:01
2	Y RADIAL	2755.7	2755.7	98.82 %		15:15:04
2	Ag 328.068†	109.6	-101.5	-0.5126 ug/L	-0.5126 ppb	15:16:01
2	Al 396.153Radial†	-73.9	-5.9	-12.479 ug/L	-12.479 ppb	15:15:04
2	As 188.979†	2.3	19.7	11.389 ug/L	11.389 ppb	15:16:21
2	B 249.677†	260.3	450.1	12.824 ug/L	12.824 ppb	15:16:21
2	Ba 233.527†	5.7	3.4	0.0352 ug/L	0.0352 ppb	15:16:21
2	Be 313.107†	-3450.5	62.0	0.0274 ug/L	0.0274 ppb	15:16:01
2	Ca 317.933Radial†	14.3	3.6	14.221 ug/L	14.221 ppb	15:15:04
2	Cd 226.502†	-148.0	15.5	0.2280 ug/L	0.2280 ppb	15:16:21
2	Co 228.616†	-37.7	5.3	0.1436 ug/L	0.1436 ppb	15:16:21
2	Cr 267.716†	76.1	-0.5	-0.0032 ug/L	-0.0032 ppb	15:16:21
2	Cu 324.752†	6118.4	70.1	0.2346 ug/L	0.2346 ppb	15:16:01
2	Fe 238.204 Radial†	8.6	1.4	39.985 ug/L	39.985 ppb	15:15:04
2	K 766.490 Radial†	2502.5	389.8	177.53 ug/L	177.53 ppb	15:14:44
2	Mg 279.077 IEC†	1.8	0.3	28.131 ug/L	28.131 ppb	15:15:04
2	Mn 257.610†	384.7	-17.3	-0.0207 ug/L	-0.0207 ppb	15:16:21
2	Mo 202.031†	16.4	9.0	0.8113 ug/L	0.8113 ppb	15:16:21
2	Na 589.592 Radial†	-686.2	72.8	24.105 ug/L	24.105 ppb	15:14:44
2	Ni 231.604†	74.6	4.1	0.1340 ug/L	0.1340 ppb	15:16:21



2	P 214.914†	171.1	-8.5	-6.7676 ug/L	-6.7676 ppb	15:16:21
2	Pb 220.353†	-11.4	31.7	5.0824 ug/L	5.0824 ppb	15:16:21
2	S 181.975 Axial†	30.6	3.5	6.3698 ug/L	6.3698 ppb	15:16:21
2	Sb 206.836†	46.5	17.2	7.4726 ug/L	7.4726 ppb	15:16:21
2	Se 196.026†	-23.1	-4.2	-3.4791 ug/L	-3.4791 ppb	15:16:21
2	Si 251.611†	568.7	22.6	0.8586 ug/L	0.8586 ppb	15:16:21
2	Sn 189.927†	20.1	12.7	2.9796 ug/L	2.9796 ppb	15:16:21
2	Sr 421.552†	-2.9	-27.5	-0.2551 ug/L	-0.2551 ppb	15:14:44
2	Ti 334.940†	-1039.7	-16.6	-0.0284 ug/L	-0.0284 ppb	15:16:01
2	Tl 190.801†	-14.3	9.3	3.7182 ug/L	3.7182 ppb	15:16:21
2	U 409.014†	-2150.2	-76.2	-2.2821 ug/L	-2.2821 ppb	15:16:01
2	V 292.402†	-1196.3	53.6	0.4331 ug/L	0.4331 ppb	15:16:01
2	Zn 213.857†	547.6	32.9	0.4055 ug/L	0.4055 ppb	15:16:21
2	SiO2†	576.4	44.1	3.5821 ug/L	3.5821 ppb	15:17:27
3	Sc 361.383	816267.4	816267.4	100.22 %		15:16:26
3	Sc Radial	3254.8	3254.8	96.8 %		15:15:29
3	Y 371.029	700950.6	700950.6	100.05 %		15:16:26
3	Y RADIAL	2708.9	2708.9	97.14 %		15:15:29
3	Ag 328.068†	137.2	-73.0	-0.3616 ug/L	-0.3616 ppb	15:16:26
3	Al 396.153Radial†	-51.2	16.4	34.888 ug/L	34.888 ppb	15:15:29
3	As 188.979†	3.4	20.8	12.002 ug/L	12.002 ppb	15:16:46
3	B 249.677†	265.8	457.9	13.044 ug/L	13.044 ppb	15:16:46
3	Ba 233.527†	11.4	9.2	0.0903 ug/L	0.0903 ppb	15:16:46
3	Be 313.107†	-3396.9	84.4	0.0374 ug/L	0.0374 ppb	15:16:26
3	Ca 317.933Radial†	10.6	-0.1	-0.2453 ug/L	-0.2453 ppb	15:15:29
3	Cd 226.502†	-136.9	25.2	0.3727 ug/L	0.3727 ppb	15:16:46
3	Co 228.616†	-28.1	14.6	0.3912 ug/L	0.3912 ppb	15:16:46
3	Cr 267.716†	70.0	-5.9	-0.0761 ug/L	-0.0761 ppb	15:16:46
3	Cu 324.752†	6011.2	18.3	0.0640 ug/L	0.0640 ppb	15:16:26
3	Fe 238.204 Radial†	8.9	1.9	52.717 ug/L	52.717 ppb	15:15:29
3	K 766.490 Radial†	2713.0	647.6	295.00 ug/L	295.00 ppb	15:15:09
3	Mg 279.077 IEC†	1.5	0.0	3.5110 ug/L	3.5110 ppb	15:15:29
3	Mn 257.610†	386.3	-12.3	-0.0115 ug/L	-0.0115 ppb	15:16:46
3	Mo 202.031†	12.2	5.0	0.4467 ug/L	0.4467 ppb	15:16:46
3	Na 589.592 Radial†	-614.8	135.5	44.873 ug/L	44.873 ppb	15:15:09
3	Ni 231.604†	63.9	-5.9	-0.1928 ug/L	-0.1928 ppb	15:16:46
3	P 214.914†	165.3	-12.6	-10.033 ug/L	-10.033 ppb	15:16:46
3	Pb 220.353†	-0.6	42.4	6.8026 ug/L	6.8026 ppb	15:16:46
3	S 181.975 Axial†	31.8	4.9	9.0477 ug/L	9.0477 ppb	15:16:46
3	Sb 206.836†	39.1	10.3	4.4595 ug/L	4.4595 ppb	15:16:46
3	Se 196.026†	-20.2	-1.5	-1.1409 ug/L	-1.1409 ppb	15:16:46
3	Si 251.611†	575.5	34.5	1.3193 ug/L	1.3193 ppb	15:16:46
3	Sn 189.927†	15.1	7.9	1.8536 ug/L	1.8536 ppb	15:16:46
3	Sr 421.552†	26.1	2.5	0.0230 ug/L	0.0230 ppb	15:15:09
3	Ti 334.940†	-997.4	16.3	0.0288 ug/L	0.0288 ppb	15:16:26
3	Tl 190.801†	-31.9	-8.4	-3.3606 ug/L	-3.3606 ppb	15:16:46
3	U 409.014†	-2101.9	-47.4	-1.4215 ug/L	-1.4215 ppb	15:16:26
3	V 292.402†	-1214.3	24.8	0.1954 ug/L	0.1954 ppb	15:16:26
3	Zn 213.857†	547.5	37.8	0.4664 ug/L	0.4664 ppb	15:16:46
3	SiO2†	563.2	36.1	2.9395 ug/L	2.9395 ppb	15:17:47

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819497.4	100.62 %	0.469			0.47%
Sc Radial	3327.5	98.9 %	2.54			2.56%
Y 371.029	703170.4	100.37 %	0.397			0.40%
Y RADIAL	2773.9	99.47 %	2.717			2.73%
Ag 328.068†	-59.5	-0.2908 ug/L	0.26440	-0.2908 ppb	0.26440	90.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.5	11.580 ug/L	23.6923	11.580 ppb	23.6923	204.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	19.7	11.404 ug/L	0.5915	11.404 ppb	0.5915	5.19%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	453.7	12.927 ug/L	0.1105	12.927 ppb	0.1105	0.85%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.5	0.0844 ug/L	0.04652	0.0844 ppb	0.04652	55.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	86.3	0.0382 ug/L	0.01128	0.0382 ppb	0.01128	29.49%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	1.4	5.6445 ug/L	7.59791	5.6445 ppb	7.59791	134.61%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	22.3	0.3290 ug/L	0.08767	0.3290 ppb	0.08767	26.65%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.9	0.2398 ug/L	0.13271	0.2398 ppb	0.13271	55.33%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1.9	-0.0228 ug/L	0.04672	-0.0228 ppb	0.04672	204.89%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	33.0	0.1124 ug/L	0.10660	0.1124 ppb	0.10660	94.83%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.9	52.225 ug/L	12.0010	52.225 ppb	12.0010	22.98%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	464.2	211.44 ug/L	72.789	211.44 ppb	72.789	34.43%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.5	48.731 ug/L	58.3151	48.731 ppb	58.3151	119.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-14.4	-0.0162 ug/L	0.00456	-0.0162 ppb	0.00456	28.07%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.6	0.5939 ug/L	0.19211	0.5939 ppb	0.19211	32.35%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	116.6	38.627 ug/L	12.6175	38.627 ppb	12.6175	32.66%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-0.7	-0.0229 ug/L	0.16378	-0.0229 ppb	0.16378	716.70%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.8	-3.8228 ug/L	8.09486	-3.8228 ppb	8.09486	211.75%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	34.9	5.5978 ug/L	1.04706	5.5978 ppb	1.04706	18.70%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	5.0	9.1897 ug/L	2.89352	9.1897 ppb	2.89352	31.49%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	16.6	7.1830 ug/L	2.59093	7.1830 ppb	2.59093	36.07%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.6	-2.0672 ug/L	1.24248	-2.0672 ppb	1.24248	60.11%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	30.5	1.1665 ug/L	0.26668	1.1665 ppb	0.26668	22.86%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	10.3	2.4129 ug/L	0.56303	2.4129 ppb	0.56303	23.33%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.6	-0.0709 ug/L	0.15949	-0.0709 ppb	0.15949	224.82%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	1.7	0.0004 ug/L	0.02864	0.0004 ppb	0.02864	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.5	0.1860 ug/L	3.53940	0.1860 ppb	3.53940	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-49.5	-1.4833 ug/L	0.76985	-1.4833 ppb	0.76985	51.90%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	45.5	0.3648 ug/L	0.14765	0.3648 ppb	0.14765	40.47%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	39.1	0.4815 ug/L	0.08450	0.4815 ppb	0.08450	17.55%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	41.6	3.3862 ug/L	0.38782	3.3862 ppb	0.38782	11.45%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/8/2010 15:22:35

Data Type: Reprocessed on 3/8/2010 16:11:18

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 361.383	821420.2	821420.2	100.85 %		15:25:44
1	Sc Radial	3241.9	3241.9	96.4 %		15:24:47
1	Y 371.029	695484.5	695484.5	99.274 %		15:25:44
1	Y RADIAL	2696.2	2696.2	96.68 %		15:24:47
1	Ag 328.068†	97391.8	96359.1	504.64 ug/L	504.64 ppb	15:25:50
1	Al 396.153Radial†	2261.7	2415.9	5105.0 ug/L	5105.0 ppb	15:24:27
1	As 188.979†	873.9	883.9	514.45 ug/L	514.45 ppb	15:26:10
1	B 249.677†	17607.0	17650.9	500.89 ug/L	500.89 ppb	15:25:50
1	Ba 233.527†	53345.0	52892.1	510.01 ug/L	510.01 ppb	15:25:50
1	Be 313.107†	1136800.0	1130669.1	502.16 ug/L	502.16 ppb	15:25:44
1	Ca 317.933Radial†	1255.7	1291.9	5079.8 ug/L	5079.8 ppb	15:24:47
1	Cd 226.502†	34343.2	34214.9	514.29 ug/L	514.29 ppb	15:25:50
1	Co 228.616†	19475.4	19353.5	519.11 ug/L	519.11 ppb	15:25:50
1	Cr 267.716†	38211.4	37812.9	510.65 ug/L	510.65 ppb	15:25:50
1	Cu 324.752†	158949.2	151626.6	499.87 ug/L	499.87 ppb	15:25:50
1	Fe 238.204 Radial†	187.3	187.0	5269.8 ug/L	5269.8 ppb	15:24:47
1	K 766.490 Radial†	12982.8	11313.7	5147.0 ug/L	5147.0 ppb	15:24:27
1	Mg 279.077 IEC†	51.8	52.2	5102.4 ug/L	5102.4 ppb	15:24:47
1	Mn 257.610†	373013.9	369464.6	499.81 ug/L	499.81 ppb	15:25:50
1	Mo 202.031†	5615.5	5560.8	497.46 ug/L	497.46 ppb	15:26:10
1	Na 589.592 Radial†	30913.2	32843.4	10879 ug/L	10879 ppb	15:24:27
1	Ni 231.604†	16083.3	15877.7	518.12 ug/L	518.12 ppb	15:25:50
1	P 214.914†	3382.3	3176.1	2416.6 ug/L	2416.6 ppb	15:26:10
1	Pb 220.353†	3156.1	3172.5	510.52 ug/L	510.52 ppb	15:26:10
1	S 181.975 Axial†	576.9	545.2	1000.4 ug/L	1000.4 ppb	15:26:10
1	Sb 206.836†	1206.5	1167.6	519.45 ug/L	519.45 ppb	15:26:10
1	Se 196.026†	585.3	598.9	525.52 ug/L	525.52 ppb	15:26:10
1	Si 251.611†	66023.8	64926.3	2488.7 ug/L	2488.7 ppb	15:25:50
1	Sn 189.927†	2144.1	2118.8	498.03 ug/L	498.03 ppb	15:26:10
1	Sr 421.552†	52973.9	54936.0	509.41 ug/L	509.41 ppb	15:24:27
1	Ti 334.940†	281733.0	280364.1	490.73 ug/L	490.73 ppb	15:25:50
1	Tl 190.801†	1238.6	1251.6	505.48 ug/L	505.48 ppb	15:26:10
1	U 409.014†	15209.2	17130.6	509.99 ug/L	509.99 ppb	15:25:50
1	V 292.402†	62165.5	62876.8	512.62 ug/L	512.62 ppb	15:25:50
1	Zn 213.857†	41623.9	40763.6	505.95 ug/L	505.95 ppb	15:25:50
1	SiO2†	66654.8	65565.7	5349.9 ug/L	5349.9 ppb	15:27:17
2	Sc 361.383	824095.6	824095.6	101.18 %		15:26:15
2	Sc Radial	3252.8	3252.8	96.7 %		15:25:12
2	Y 371.029	696932.2	696932.2	99.480 %		15:26:15
2	Y RADIAL	2693.3	2693.3	96.58 %		15:25:12
2	Ag 328.068†	97041.2	95699.1	501.19 ug/L	501.19 ppb	15:26:20
2	Al 396.153Radial†	2293.6	2441.0	5158.3 ug/L	5158.3 ppb	15:24:52
2	As 188.979†	869.5	876.8	510.27 ug/L	510.27 ppb	15:26:40
2	B 249.677†	17546.9	17534.8	497.59 ug/L	497.59 ppb	15:26:20
2	Ba 233.527†	53010.8	52390.1	505.17 ug/L	505.17 ppb	15:26:20
2	Be 313.107†	1141422.1	1131577.9	502.55 ug/L	502.55 ppb	15:26:15
2	Ca 317.933Radial†	1263.6	1295.7	5094.8 ug/L	5094.8 ppb	15:25:12
2	Cd 226.502†	34068.3	33832.6	508.54 ug/L	508.54 ppb	15:26:20
2	Co 228.616†	19390.1	19206.5	515.18 ug/L	515.18 ppb	15:26:20
2	Cr 267.716†	37936.0	37417.6	505.31 ug/L	505.31 ppb	15:26:20
2	Cu 324.752†	158451.3	150622.8	496.56 ug/L	496.56 ppb	15:26:20
2	Fe 238.204 Radial†	187.7	186.8	5263.4 ug/L	5263.4 ppb	15:25:12
2	K 766.490 Radial†	13240.7	11535.4	5248.0 ug/L	5248.0 ppb	15:24:52
2	Mg 279.077 IEC†	51.8	52.0	5082.0 ug/L	5082.0 ppb	15:25:12
2	Mn 257.610†	370751.2	366027.6	495.17 ug/L	495.17 ppb	15:26:20
2	Mo 202.031†	5633.1	5560.2	497.41 ug/L	497.41 ppb	15:26:40
2	Na 589.592 Radial†	31208.3	33041.6	10945 ug/L	10945 ppb	15:24:52
2	Ni 231.604†	15981.4	15725.3	513.15 ug/L	513.15 ppb	15:26:20

2	P 214.914†	3390.7	3173.5	2415.2 ug/L	2415.2 ppb	15:26:40
2	Pb 220.353†	3145.8	3152.1	507.26 ug/L	507.26 ppb	15:26:40
2	S 181.975 Axial†	570.6	537.1	985.49 ug/L	985.49 ppb	15:26:40
2	Sb 206.836†	1210.4	1167.5	519.44 ug/L	519.44 ppb	15:26:40
2	Se 196.026†	581.6	593.4	520.83 ug/L	520.83 ppb	15:26:40
2	Si 251.611†	65681.5	64375.4	2467.6 ug/L	2467.6 ppb	15:26:20
2	Sn 189.927†	2150.0	2117.7	497.79 ug/L	497.79 ppb	15:26:40
2	Sr 421.552†	53814.9	55622.4	515.78 ug/L	515.78 ppb	15:24:52
2	Ti 334.940†	280262.3	278003.7	486.60 ug/L	486.60 ppb	15:26:20
2	Tl 190.801†	1248.9	1257.8	507.94 ug/L	507.94 ppb	15:26:40
2	U 409.014†	15215.4	17087.7	508.73 ug/L	508.73 ppb	15:26:20
2	V 292.402†	61708.9	62225.4	507.38 ug/L	507.38 ppb	15:26:20
2	Zn 213.857†	41404.7	40413.0	501.60 ug/L	501.60 ppb	15:26:20
2	SiO2†	65600.2	64308.8	5247.1 ug/L	5247.1 ppb	15:27:22
3	Sc 361.383	812824.2	812824.2	99.797 %		15:26:46
3	Sc Radial	3243.5	3243.5	96.4 %		15:25:37
3	Y 371.029	688162.1	688162.1	98.228 %		15:26:46
3	Y RADIAL	2696.6	2696.6	96.70 %		15:25:37
3	Ag 328.068†	97037.5	97025.3	508.11 ug/L	508.11 ppb	15:26:51
3	Al 396.153Radial†	2305.9	2460.6	5199.5 ug/L	5199.5 ppb	15:25:17
3	As 188.979†	875.1	894.4	520.47 ug/L	520.47 ppb	15:27:11
3	B 249.677†	17598.8	17827.2	505.91 ug/L	505.91 ppb	15:26:51
3	Ba 233.527†	52918.8	53024.4	511.29 ug/L	511.29 ppb	15:26:51
3	Be 313.107†	1134437.0	1140221.9	506.40 ug/L	506.40 ppb	15:26:46
3	Ca 317.933Radial†	1264.4	1300.2	5112.7 ug/L	5112.7 ppb	15:25:37
3	Cd 226.502†	34084.2	34315.4	515.80 ug/L	515.80 ppb	15:26:51
3	Co 228.616†	19380.1	19462.2	522.04 ug/L	522.04 ppb	15:26:51
3	Cr 267.716†	37997.5	37997.2	513.17 ug/L	513.17 ppb	15:26:51
3	Cu 324.752†	158593.8	152937.2	504.18 ug/L	504.18 ppb	15:26:51
3	Fe 238.204 Radial†	186.7	186.3	5250.5 ug/L	5250.5 ppb	15:25:37
3	K 766.490 Radial†	13051.1	11378.0	5176.2 ug/L	5176.2 ppb	15:25:17
3	Mg 279.077 IEC†	54.7	55.2	5394.8 ug/L	5394.8 ppb	15:25:37
3	Mn 257.610†	370977.3	371335.4	502.33 ug/L	502.33 ppb	15:26:51
3	Mo 202.031†	5627.7	5631.9	503.82 ug/L	503.82 ppb	15:27:11
3	Na 589.592 Radial†	31320.5	33250.4	11014 ug/L	11014 ppb	15:25:17
3	Ni 231.604†	16033.3	15996.3	521.99 ug/L	521.99 ppb	15:26:51
3	P 214.914†	3385.5	3214.8	2446.4 ug/L	2446.4 ppb	15:27:11
3	Pb 220.353†	3173.5	3222.9	518.66 ug/L	518.66 ppb	15:27:11
3	S 181.975 Axial†	570.9	545.3	1000.4 ug/L	1000.4 ppb	15:27:11
3	Sb 206.836†	1194.8	1168.5	520.06 ug/L	520.06 ppb	15:27:11
3	Se 196.026†	579.3	599.1	525.69 ug/L	525.69 ppb	15:27:11
3	Si 251.611†	65767.9	65362.1	2505.4 ug/L	2505.4 ppb	15:26:51
3	Sn 189.927†	2137.0	2134.1	501.64 ug/L	501.64 ppb	15:27:11
3	Sr 421.552†	53910.2	55880.8	518.18 ug/L	518.18 ppb	15:25:17
3	Ti 334.940†	280570.8	282153.9	493.84 ug/L	493.84 ppb	15:26:51
3	Tl 190.801†	1246.8	1272.7	514.00 ug/L	514.00 ppb	15:27:11
3	U 409.014†	15186.0	17266.9	514.06 ug/L	514.06 ppb	15:26:51
3	V 292.402†	61829.2	63191.7	515.26 ug/L	515.26 ppb	15:26:51
3	Zn 213.857†	41369.2	40944.9	508.20 ug/L	508.20 ppb	15:26:51
3	SiO2†	65741.7	65349.7	5332.1 ug/L	5332.1 ppb	15:27:27

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819446.7	100.61 %	0.723			0.72%
Sc Radial	3246.1	96.5 %	0.17			0.18%
Y 371.029	693526.3	98.994 %	0.6711			0.68%
Y RADIAL	2695.4	96.65 %	0.065			0.07%
Ag 328.068†	96361.1	504.65 ug/L	3.462	504.65 ppb	3.462	0.69%
QC value within limits for Ag 328.068 Recovery = 100.93%						
Al 396.153Radial†	2439.2	5154.3 ug/L	47.39	5154.3 ppb	47.39	0.92%
QC value within limits for Al 396.153Radial Recovery = 103.09%						
As 188.979†	885.0	515.07 ug/L	5.128	515.07 ppb	5.128	1.00%
QC value within limits for As 188.979 Recovery = 103.01%						
B 249.677†	17671.0	501.46 ug/L	4.189	501.46 ppb	4.189	0.84%
QC value within limits for B 249.677 Recovery = 100.29%						
Ba 233.527†	52768.9	508.82 ug/L	3.227	508.82 ppb	3.227	0.63%
QC value within limits for Ba 233.527 Recovery = 101.76%						
Be 313.107†	1134156.3	503.71 ug/L	2.343	503.71 ppb	2.343	0.47%
QC value within limits for Be 313.107 Recovery = 100.74%						

Ca 317.933Radial†	1295.9	5095.8 ug/L	16.46	5095.8 ppb	16.46	0.32%
QC value within limits for Ca 317.933Radial Recovery = 101.92%						
Cd 226.502†	34121.0	512.88 ug/L	3.834	512.88 ppb	3.834	0.75%
QC value within limits for Cd 226.502 Recovery = 102.58%						
Co 228.616†	19340.7	518.78 ug/L	3.442	518.78 ppb	3.442	0.66%
QC value within limits for Co 228.616 Recovery = 103.76%						
Cr 267.716†	37743.2	509.71 ug/L	4.009	509.71 ppb	4.009	0.79%
QC value within limits for Cr 267.716 Recovery = 101.94%						
Cu 324.752†	151728.9	500.20 ug/L	3.824	500.20 ppb	3.824	0.76%
QC value within limits for Cu 324.752 Recovery = 100.04%						
Fe 238.204 Radial†	186.7	5261.2 ug/L	9.80	5261.2 ppb	9.80	0.19%
QC value within limits for Fe 238.204 Radial Recovery = 105.22%						
K 766.490 Radial†	11409.0	5190.4 ug/L	51.96	5190.4 ppb	51.96	1.00%
QC value within limits for K 766.490 Radial Recovery = 103.81%						
Mg 279.077 IEC†	53.1	5193.1 ug/L	175.03	5193.1 ppb	175.03	3.37%
QC value within limits for Mg 279.077 IEC Recovery = 103.86%						
Mn 257.610†	368942.5	499.10 ug/L	3.633	499.10 ppb	3.633	0.73%
QC value within limits for Mn 257.610 Recovery = 99.82%						
Mo 202.031†	5584.3	499.56 ug/L	3.684	499.56 ppb	3.684	0.74%
QC value within limits for Mo 202.031 Recovery = 99.91%						
Na 589.592 Radial†	33045.1	10946 ug/L	67.4	10946 ppb	67.4	0.62%
QC value within limits for Na 589.592 Radial Recovery = 109.46%						
Ni 231.604†	15866.4	517.75 ug/L	4.434	517.75 ppb	4.434	0.86%
QC value within limits for Ni 231.604 Recovery = 103.55%						
P 214.914†	3188.1	2426.0 ug/L	17.64	2426.0 ppb	17.64	0.73%
QC value within limits for P 214.914 Recovery = 97.04%						
Pb 220.353†	3182.5	512.14 ug/L	5.871	512.14 ppb	5.871	1.15%
QC value within limits for Pb 220.353 Recovery = 102.43%						
S 181.975 Axial†	542.6	995.42 ug/L	8.600	995.42 ppb	8.600	0.86%
QC value within limits for S 181.975 Axial Recovery = 99.54%						
Sb 206.836†	1167.9	519.65 ug/L	0.356	519.65 ppb	0.356	0.07%
QC value within limits for Sb 206.836 Recovery = 103.93%						
Se 196.026†	597.2	524.01 ug/L	2.762	524.01 ppb	2.762	0.53%
QC value within limits for Se 196.026 Recovery = 104.80%						
Si 251.611†	64887.9	2487.2 ug/L	18.96	2487.2 ppb	18.96	0.76%
QC value within limits for Si 251.611 Recovery = 99.49%						
Sn 189.927†	2123.5	499.15 ug/L	2.153	499.15 ppb	2.153	0.43%
QC value within limits for Sn 189.927 Recovery = 99.83%						
Sr 421.552†	55479.7	514.46 ug/L	4.528	514.46 ppb	4.528	0.88%
QC value within limits for Sr 421.552 Recovery = 102.89%						
Ti 334.940†	280173.9	490.39 ug/L	3.631	490.39 ppb	3.631	0.74%
QC value within limits for Ti 334.940 Recovery = 98.08%						
Tl 190.801†	1260.7	509.14 ug/L	4.385	509.14 ppb	4.385	0.86%
QC value within limits for Tl 190.801 Recovery = 101.83%						
U 409.014†	17161.7	510.93 ug/L	2.788	510.93 ppb	2.788	0.55%
QC value within limits for U 409.014 Recovery = 102.19%						
V 292.402†	62764.6	511.75 ug/L	4.008	511.75 ppb	4.008	0.78%
QC value within limits for V 292.402 Recovery = 102.35%						
Zn 213.857†	40707.2	505.25 ug/L	3.355	505.25 ppb	3.355	0.66%
QC value within limits for Zn 213.857 Recovery = 101.05%						
SiO2†	65074.7	5309.7 ug/L	54.94	5309.7 ppb	54.94	1.03%
QC value within limits for SiO2 Recovery = 99.29%						
All analyte(s) passed QC.						

Sequence No.: 16

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/8/2010 15:29:38

Data Type: Reprocessed on 3/8/2010 16:11:19

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 361.383	815516.0	815516.0	100.13 %		15:32:47
1	Sc Radial	3245.8	3245.8	96.5 %		15:31:50
1	Y 371.029	699512.0	699512.0	99.849 %		15:32:47
1	Y RADIAL	2689.9	2689.9	96.46 %		15:31:50
1	Ag 328.068†	75.2	-134.8	-0.6778 ug/L	-0.6778 ppb	15:32:47
1	Al 396.153Radial†	-73.0	-6.3	-13.331 ug/L	-13.331 ppb	15:31:50
1	As 188.979†	-9.1	8.4	4.8438 ug/L	4.8438 ppb	15:33:07
1	B 249.677†	-13.0	179.6	5.1095 ug/L	5.1095 ppb	15:33:07
1	Ba 233.527†	-0.1	-2.3	-0.0200 ug/L	-0.0200 ppb	15:33:07
1	Be 313.107†	-3431.3	46.9	0.0207 ug/L	0.0207 ppb	15:32:47
1	Ca 317.933Radial†	9.2	-1.4	-5.4859 ug/L	-5.4859 ppb	15:31:50
1	Cd 226.502†	-147.3	14.7	0.2133 ug/L	0.2133 ppb	15:33:07
1	Co 228.616†	-38.6	4.0	0.1103 ug/L	0.1103 ppb	15:33:07
1	Cr 267.716†	57.0	-18.8	-0.2495 ug/L	-0.2495 ppb	15:33:07
1	Cu 324.752†	6034.6	47.3	0.1603 ug/L	0.1603 ppb	15:32:47
1	Fe 238.204 Radial†	9.4	2.5	70.075 ug/L	70.075 ppb	15:31:50
1	K 766.490 Radial†	2487.6	421.8	192.14 ug/L	192.14 ppb	15:31:30
1	Mg 279.077 IEC†	3.1	1.6	161.03 ug/L	161.03 ppb	15:31:50
1	Mn 257.610†	402.5	4.3	0.0062 ug/L	0.0062 ppb	15:33:07
1	Mo 202.031†	20.1	12.9	1.1600 ug/L	1.1600 ppb	15:33:07
1	Na 589.592 Radial†	-714.2	30.7	10.184 ug/L	10.184 ppb	15:31:30
1	Ni 231.604†	63.6	-6.1	-0.2008 ug/L	-0.2008 ppb	15:33:07
1	P 214.914†	173.5	-4.4	-3.5271 ug/L	-3.5271 ppb	15:33:07
1	Pb 220.353†	-29.4	13.6	2.1792 ug/L	2.1792 ppb	15:33:07
1	S 181.975 Axial†	36.4	9.5	17.514 ug/L	17.514 ppb	15:33:07
1	Sb 206.836†	45.1	16.3	7.0623 ug/L	7.0623 ppb	15:33:07
1	Se 196.026†	-19.1	-0.4	-0.1574 ug/L	-0.1574 ppb	15:33:07
1	Si 251.611†	518.4	-22.0	-0.8592 ug/L	-0.8592 ppb	15:33:07
1	Sn 189.927†	14.1	6.9	1.6197 ug/L	1.6197 ppb	15:33:07
1	Sr 421.552†	27.1	3.6	0.0332 ug/L	0.0332 ppb	15:31:30
1	Ti 334.940†	-1020.7	-7.9	-0.0270 ug/L	-0.0270 ppb	15:32:47
1	Tl 190.801†	-17.5	6.0	2.3994 ug/L	2.3994 ppb	15:33:07
1	U 409.014†	-2097.2	-44.7	-1.3416 ug/L	-1.3416 ppb	15:32:47
1	V 292.402†	-1214.0	24.0	0.2002 ug/L	0.2002 ppb	15:32:47
1	Zn 213.857†	512.0	2.8	0.0252 ug/L	0.0252 ppb	15:33:07
1	SiO2†	516.2	-10.4	-0.8819 ug/L	-0.8819 ppb	15:34:18
2	Sc 361.383	799071.6	799071.6	98.108 %		15:33:12
2	Sc Radial	3263.1	3263.1	97.0 %		15:32:15
2	Y 371.029	684463.7	684463.7	97.701 %		15:33:12
2	Y RADIAL	2722.2	2722.2	97.62 %		15:32:15
2	Ag 328.068†	129.0	-78.4	-0.3978 ug/L	-0.3978 ppb	15:33:12
2	Al 396.153Radial†	-67.9	-0.6	-1.3795 ug/L	-1.3795 ppb	15:32:15
2	As 188.979†	-11.7	5.6	3.2090 ug/L	3.2090 ppb	15:33:32
2	B 249.677†	-0.6	192.0	5.4718 ug/L	5.4718 ppb	15:33:32
2	Ba 233.527†	1.6	-0.5	-0.0035 ug/L	-0.0035 ppb	15:33:32
2	Be 313.107†	-3305.9	104.1	0.0456 ug/L	0.0456 ppb	15:33:12
2	Ca 317.933Radial†	9.8	-0.9	-3.5304 ug/L	-3.5304 ppb	15:32:15
2	Cd 226.502†	-166.0	-7.4	-0.1137 ug/L	-0.1137 ppb	15:33:32
2	Co 228.616†	-49.7	-8.0	-0.2140 ug/L	-0.2140 ppb	15:33:32
2	Cr 267.716†	62.8	-11.7	-0.1546 ug/L	-0.1546 ppb	15:33:32
2	Cu 324.752†	5869.8	3.3	0.0137 ug/L	0.0137 ppb	15:33:12
2	Fe 238.204 Radial†	7.8	0.7	20.180 ug/L	20.180 ppb	15:32:15
2	K 766.490 Radial†	2442.8	362.0	164.90 ug/L	164.90 ppb	15:31:55
2	Mg 279.077 IEC†	2.0	0.5	49.099 ug/L	49.099 ppb	15:32:15
2	Mn 257.610†	369.8	-20.7	-0.0280 ug/L	-0.0280 ppb	15:33:32
2	Mo 202.031†	7.8	0.7	0.0654 ug/L	0.0654 ppb	15:33:32
2	Na 589.592 Radial†	-749.4	-1.6	-0.5420 ug/L	-0.5420 ppb	15:31:55
2	Ni 231.604†	47.2	-21.5	-0.7034 ug/L	-0.7034 ppb	15:33:32

2	P 214.914†	171.6	-2.7	-2.1208 ug/L	-2.1208 ppb	15:33:32
2	Pb 220.353†	-43.4	-1.3	-0.2070 ug/L	-0.2070 ppb	15:33:32
2	S 181.975 Axial†	25.0	-1.4	-2.5016 ug/L	-2.5016 ppb	15:33:32
2	Sb 206.836†	35.6	7.6	3.3017 ug/L	3.3017 ppb	15:33:32
2	Se 196.026†	-20.1	-1.9	-1.5178 ug/L	-1.5178 ppb	15:33:32
2	Si 251.611†	508.5	-21.5	-0.8254 ug/L	-0.8254 ppb	15:33:32
2	Sn 189.927†	17.7	10.8	2.5453 ug/L	2.5453 ppb	15:33:32
2	Sr 421.552†	24.8	1.0	0.0096 ug/L	0.0096 ppb	15:31:55
2	Ti 334.940†	-1120.6	-130.8	-0.2320 ug/L	-0.2320 ppb	15:33:12
2	Tl 190.801†	-32.2	-9.4	-3.7635 ug/L	-3.7635 ppb	15:33:32
2	U 409.014†	-2112.8	-103.7	-3.0986 ug/L	-3.0986 ppb	15:33:12
2	V 292.402†	-1165.1	48.9	0.3867 ug/L	0.3867 ppb	15:33:12
2	Zn 213.857†	518.1	19.6	0.2465 ug/L	0.2465 ppb	15:33:32
2	SiO2†	537.5	22.0	1.7969 ug/L	1.7969 ppb	15:34:38
3	Sc 361.383	803250.3	803250.3	98.621 %		15:33:38
3	Sc Radial	3237.7	3237.7	96.3 %		15:32:40
3	Y 371.029	689117.0	689117.0	98.365 %		15:33:38
3	Y RADIAL	2680.1	2680.1	96.11 %		15:32:40
3	Ag 328.068†	179.6	-27.8	-0.1148 ug/L	-0.1148 ppb	15:33:38
3	Al 396.153Radial†	-75.4	-9.0	-19.148 ug/L	-19.148 ppb	15:32:40
3	As 188.979†	-12.3	4.9	2.8662 ug/L	2.8662 ppb	15:33:58
3	B 249.677†	-47.3	144.7	4.1085 ug/L	4.1085 ppb	15:33:58
3	Ba 233.527†	10.7	8.7	0.0862 ug/L	0.0862 ppb	15:33:58
3	Be 313.107†	-3384.0	42.5	0.0186 ug/L	0.0186 ppb	15:33:38
3	Ca 317.933Radial†	9.5	-1.1	-4.1789 ug/L	-4.1789 ppb	15:32:40
3	Cd 226.502†	-151.6	8.1	0.1110 ug/L	0.1110 ppb	15:33:58
3	Co 228.616†	-38.1	4.0	0.1075 ug/L	0.1075 ppb	15:33:58
3	Cr 267.716†	53.8	-21.2	-0.2819 ug/L	-0.2819 ppb	15:33:58
3	Cu 324.752†	5883.3	-14.1	-0.0410 ug/L	-0.0410 ppb	15:33:38
3	Fe 238.204 Radial†	10.2	3.3	93.968 ug/L	93.968 ppb	15:32:40
3	K 766.490 Radial†	2417.4	355.3	161.85 ug/L	161.85 ppb	15:32:20
3	Mg 279.077 IEC†	4.8	3.4	334.80 ug/L	334.80 ppb	15:32:40
3	Mn 257.610†	368.9	-23.7	-0.0364 ug/L	-0.0364 ppb	15:33:58
3	Mo 202.031†	8.4	1.4	0.1303 ug/L	0.1303 ppb	15:33:58
3	Na 589.592 Radial†	-788.7	-48.5	-16.074 ug/L	-16.074 ppb	15:32:20
3	Ni 231.604†	55.2	-13.7	-0.4462 ug/L	-0.4462 ppb	15:33:58
3	P 214.914†	185.7	10.6	8.3495 ug/L	8.3495 ppb	15:33:58
3	Pb 220.353†	-23.4	19.2	3.0702 ug/L	3.0702 ppb	15:33:58
3	S 181.975 Axial†	24.7	-1.8	-3.3702 ug/L	-3.3702 ppb	15:33:58
3	Sb 206.836†	36.4	8.2	3.5303 ug/L	3.5303 ppb	15:33:58
3	Se 196.026†	-21.1	-2.8	-2.1248 ug/L	-2.1248 ppb	15:33:58
3	Si 251.611†	490.5	-42.4	-1.6306 ug/L	-1.6306 ppb	15:33:58
3	Sn 189.927†	13.8	6.8	1.5964 ug/L	1.5964 ppb	15:33:58
3	Sr 421.552†	18.6	-5.2	-0.0481 ug/L	-0.0481 ppb	15:32:20
3	Ti 334.940†	-1046.9	-50.1	-0.1150 ug/L	-0.1150 ppb	15:33:38
3	Tl 190.801†	-32.5	-9.5	-3.8105 ug/L	-3.8105 ppb	15:33:58
3	U 409.014†	-2051.6	-30.4	-0.9179 ug/L	-0.9179 ppb	15:33:38
3	V 292.402†	-1217.5	2.0	0.0088 ug/L	0.0088 ppb	15:33:38
3	Zn 213.857†	500.4	-1.2	-0.0262 ug/L	-0.0262 ppb	15:33:58
3	SiO2†	523.0	4.3	0.3519 ug/L	0.3519 ppb	15:34:58

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	805946.0	98.952 %	1.0494			1.06%
Sc Radial	3248.8	96.6 %	0.39			0.40%
Y 371.029	691030.9	98.638 %	1.0998			1.11%
Y RADIAL	2697.4	96.73 %	0.791			0.82%
Ag 328.068†	-80.3	-0.3968 ug/L	0.28149	-0.3968 ppb	0.28149	70.94%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.3	-11.286 ug/L	9.0589	-11.286 ppb	9.0589	80.27%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	6.3	3.6397 ug/L	1.05680	3.6397 ppb	1.05680	29.04%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	172.1	4.8966 ug/L	0.70612	4.8966 ppb	0.70612	14.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.9	0.0209 ug/L	0.05715	0.0209 ppb	0.05715	273.32%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	64.5	0.0283 ug/L	0.01502	0.0283 ppb	0.01502	53.01%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	-1.1	-4.3984 ug/L	0.99605	-4.3984 ppb	0.99605	22.65%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.1	0.0702 ug/L	0.16727	0.0702 ppb	0.16727	238.32%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.0	0.0013 ug/L	0.18643	0.0013 ppb	0.18643	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-17.2	-0.2287 ug/L	0.06612	-0.2287 ppb	0.06612	28.92%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	12.2	0.0443 ug/L	0.10407	0.0443 ppb	0.10407	234.87%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.2	61.407 ug/L	37.6498	61.407 ppb	37.6498	61.31%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	379.7	172.96 ug/L	16.673	172.96 ppb	16.673	9.64%
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.9	181.64 ug/L	143.961	181.64 ppb	143.961	79.25%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-13.3	-0.0194 ug/L	0.02257	-0.0194 ppb	0.02257	116.29%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.0	0.4519 ug/L	0.61412	0.4519 ppb	0.61412	135.90%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-6.5	-2.1443 ug/L	13.20206	-2.1443 ppb	13.20206	615.69%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-13.8	-0.4501 ug/L	0.25133	-0.4501 ppb	0.25133	55.84%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	1.2	0.9005 ug/L	6.48924	0.9005 ppb	6.48924	720.59%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.5	1.6808 ug/L	1.69451	1.6808 ppb	1.69451	100.82%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.1	3.8807 ug/L	11.81474	3.8807 ppb	11.81474	304.45%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	10.7	4.6314 ug/L	2.10828	4.6314 ppb	2.10828	45.52%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.7	-1.2667 ug/L	1.00745	-1.2667 ppb	1.00745	79.54%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-28.6	-1.1051 ug/L	0.45543	-1.1051 ppb	0.45543	41.21%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	8.2	1.9205 ug/L	0.54125	1.9205 ppb	0.54125	28.18%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-0.2	-0.0017 ug/L	0.04182	-0.0017 ppb	0.04182	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-62.9	-0.1247 ug/L	0.10283	-0.1247 ppb	0.10283	82.46%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-4.3	-1.7248 ug/L	3.57179	-1.7248 ppb	3.57179	207.08%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-59.6	-1.7860 ug/L	1.15632	-1.7860 ppb	1.15632	64.74%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	25.0	0.1986 ug/L	0.18894	0.1986 ppb	0.18894	95.14%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	7.0	0.0818 ug/L	0.14488	0.0818 ppb	0.14488	177.07%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	5.3	0.4223 ug/L	1.34078	0.4223 ppb	1.34078	317.48%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						



Sequence No.: 17

Sample ID: LR1

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 3/8/2010 15:37:09

Data Type: Reprocessed on 3/8/2010 16:11:20

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 361.383	798075.0	798075.0	97.986 %		15:40:20
1	Sc Radial	3208.6	3208.6	95.4 %		15:39:22
1	Y 371.029	679939.6	679939.6	97.055 %		15:40:20
1	Y RADIAL	2683.5	2683.5	96.23 %		15:39:22
1	Ag 328.068†	-22137.3	-22802.3	0.4389 ug/L	0.4389 ppb	15:40:20
1	Al 396.153Radial†	-80.7	-15.3	-31.215 ug/L	-31.215 ppb	15:39:22
1	As 188.979†	-150.1	-135.8	11.767 ug/L	11.767 ppb	15:40:40
1	B 249.677†	2155.3	2392.2	5.7049 ug/L	5.7049 ppb	15:40:20
1	Ba 233.527†	-1595.1	-1630.1	-3.8493 ug/L	-3.8493 ppb	15:40:20
1	Be 313.107†	-3397.7	6.2	0.0021 ug/L	0.0021 ppb	15:40:20
1	Ca 317.933Radial†	10.2	-0.3	-1.1754 ug/L	-1.1754 ppb	15:39:22
1	Cd 226.502†	2641.5	2857.6	3.2571 ug/L	3.2571 ppb	15:40:20
1	Co 228.616†	621.5	676.9	12.539 ug/L	12.539 ppb	15:40:40
1	Cr 267.716†	-433.6	-518.2	8.8478 ug/L	8.8478 ppb	15:40:40
1	Cu 324.752†	512.8	-5456.4	2.3308 ug/L	2.3308 ppb	15:40:20
1	Fe 238.204 Radial†	13064.7	13688.1	384530 ug/L	384530 ppb	15:39:02
1	K 766.490 Radial†	2067.4	11.2	5.1368 ug/L	5.1368 ppb	15:39:02
1	Mg 279.077 IEC†	7.9	6.7	253.48 ug/L	253.48 ppb	15:39:22
1	Mn 257.610†	-28471.4	-29454.3	-1.8696 ug/L	-1.8696 ppb	15:40:20
1	Mo 202.031†	-267.3	-280.0	4.8244 ug/L	4.8244 ppb	15:40:20
1	Na 589.592 Radial†	-747.2	-12.5	-4.1372 ug/L	-4.1372 ppb	15:39:02
1	Ni 231.604†	135.4	68.5	2.2273 ug/L	2.2273 ppb	15:40:40
1	P 214.914†	558.5	392.3	4.3664 ug/L	4.3664 ppb	15:40:40
1	Pb 220.353†	191.5	238.5	-16.502 ug/L	-16.502 ppb	15:40:40
1	S 181.975 Axial†	42.8	16.8	30.882 ug/L	30.882 ppb	15:40:40
1	Sb 206.836†	24.3	-3.9	-6.3703 ug/L	-6.3703 ppb	15:40:40
1	Se 196.026†	-1440.4	-1451.4	-169.85 ug/L	-169.85 ppb	15:40:40
1	Si 251.611†	-311.7	-857.9	-32.656 ug/L	-32.656 ppb	15:40:20
1	Sn 189.927†	-10.5	-18.0	-26.291 ug/L	-26.291 ppb	15:40:40
1	Sr 421.552†	79.3	58.6	0.5438 ug/L	0.5438 ppb	15:39:02
1	Ti 334.940†	-1158.4	-170.8	-0.3773 ug/L	-0.3773 ppb	15:40:20
1	Tl 190.801†	-34.2	-11.4	-4.9680 ug/L	-4.9680 ppb	15:40:40
1	U 409.014†	16.5	2066.7	17.917 ug/L	17.917 ppb	15:40:20
1	V 292.402†	6002.4	7362.3	3.0238 ug/L	3.0238 ppb	15:40:20
1	Zn 213.857†	3619.8	3185.7	-17.622 ug/L	-17.622 ppb	15:40:40
1	SiO2†	-417.7	-952.2	-77.211 ug/L	-77.211 ppb	15:41:37
2	Sc 361.383	795147.6	795147.6	97.626 %		15:40:45
2	Sc Radial	3154.4	3154.4	93.8 %		15:39:47
2	Y 371.029	678194.6	678194.6	96.806 %		15:40:45
2	Y RADIAL	2629.1	2629.1	94.28 %		15:39:47
2	Ag 328.068†	-22018.9	-22764.2	5.5078 ug/L	5.5078 ppb	15:40:45
2	Al 396.153Radial†	-78.3	-14.1	-28.966 ug/L	-28.966 ppb	15:39:47
2	As 188.979†	-156.3	-142.7	11.454 ug/L	11.454 ppb	15:41:06
2	B 249.677†	1923.8	2163.2	-3.3830 ug/L	-3.3830 ppb	15:40:45
2	Ba 233.527†	-1500.1	-1538.8	-2.4922 ug/L	-2.4922 ppb	15:40:45
2	Be 313.107†	-3297.9	95.7	0.0420 ug/L	0.0420 ppb	15:40:45
2	Ca 317.933Radial†	7.5	-3.0	-11.707 ug/L	-11.707 ppb	15:39:47
2	Cd 226.502†	2696.8	2924.2	2.6297 ug/L	2.6297 ppb	15:40:45
2	Co 228.616†	620.4	678.1	12.351 ug/L	12.351 ppb	15:41:06
2	Cr 267.716†	-445.3	-531.9	9.3088 ug/L	9.3088 ppb	15:41:06
2	Cu 324.752†	449.8	-5519.0	2.9575 ug/L	2.9575 ppb	15:40:45
2	Fe 238.204 Radial†	13370.0	14249.1	400290 ug/L	400290 ppb	15:39:27
2	K 766.490 Radial†	2191.9	181.2	82.595 ug/L	82.595 ppb	15:39:27
2	Mg 279.077 IEC†	6.5	5.4	110.38 ug/L	110.38 ppb	15:39:47
2	Mn 257.610†	-28514.9	-29605.8	-0.5128 ug/L	-0.5128 ppb	15:40:45
2	Mo 202.031†	-233.3	-246.2	9.0707 ug/L	9.0707 ppb	15:40:45
2	Na 589.592 Radial†	-705.7	18.3	6.0665 ug/L	6.0665 ppb	15:39:27
2	Ni 231.604†	121.6	54.9	1.7820 ug/L	1.7820 ppb	15:41:06

2	P 214.914†	568.7	404.9	1.6881 ug/L	1.6881 ppb	15:41:06
2	Pb 220.353†	191.7	239.4	-18.590 ug/L	-18.590 ppb	15:41:06
2	S 181.975 Axial†	39.3	13.5	24.726 ug/L	24.726 ppb	15:41:06
2	Sb 206.836†	19.3	-9.0	-8.6530 ug/L	-8.6530 ppb	15:41:06
2	Se 196.026†	-1461.1	-1478.0	-148.90 ug/L	-148.90 ppb	15:41:06
2	Si 251.611†	-369.4	-918.1	-35.008 ug/L	-35.008 ppb	15:40:45
2	Sn 189.927†	-10.2	-17.6	-27.124 ug/L	-27.124 ppb	15:41:06
2	Sr 421.552†	79.5	60.2	0.5588 ug/L	0.5588 ppb	15:39:27
2	Ti 334.940†	-1093.0	-108.1	-0.2593 ug/L	-0.2593 ppb	15:40:45
2	Tl 190.801†	-25.8	-2.9	-1.5645 ug/L	-1.5645 ppb	15:41:06
2	U 409.014†	72.9	2124.6	17.850 ug/L	17.850 ppb	15:40:45
2	V 292.402†	5931.9	7312.6	0.3726 ug/L	0.3726 ppb	15:40:45
2	Zn 213.857†	3644.5	3224.5	-19.491 ug/L	-19.491 ppb	15:41:06
2	SiO2†	-414.1	-950.1	-77.122 ug/L	-77.122 ppb	15:41:42
3	Sc 361.383	803397.0	803397.0	98.639 %		15:41:11
3	Sc Radial	3181.4	3181.4	94.6 %		15:40:12
3	Y 371.029	686069.3	686069.3	97.930 %		15:41:11
3	Y RADIAL	2646.7	2646.7	94.91 %		15:40:12
3	Ag 328.068†	-22103.9	-22618.7	3.4744 ug/L	3.4744 ppb	15:41:11
3	Al 396.153Radial†	-89.4	-25.1	-52.187 ug/L	-52.187 ppb	15:40:12
3	As 188.979†	-156.3	-141.0	10.319 ug/L	10.319 ppb	15:41:31
3	B 249.677†	1945.6	2165.1	-1.8646 ug/L	-1.8646 ppb	15:41:11
3	Ba 233.527†	-1507.8	-1530.8	-2.6918 ug/L	-2.6918 ppb	15:41:11
3	Be 313.107†	-3337.7	90.0	0.0396 ug/L	0.0396 ppb	15:41:11
3	Ca 317.933Radial†	4.8	-5.9	-23.396 ug/L	-23.396 ppb	15:40:12
3	Cd 226.502†	2692.2	2891.1	3.0650 ug/L	3.0650 ppb	15:41:11
3	Co 228.616†	605.6	656.6	11.896 ug/L	11.896 ppb	15:41:31
3	Cr 267.716†	-447.4	-529.3	8.9739 ug/L	8.9739 ppb	15:41:31
3	Cu 324.752†	430.4	-5543.3	2.4012 ug/L	2.4012 ppb	15:41:11
3	Fe 238.204 Radial†	13180.9	13927.9	391260 ug/L	391260 ppb	15:39:52
3	K 766.490 Radial†	2160.4	128.0	58.355 ug/L	58.355 ppb	15:39:52
3	Mg 279.077 IEC†	5.9	4.7	46.743 ug/L	46.743 ppb	15:40:12
3	Mn 257.610†	-28786.1	-29580.9	-1.3672 ug/L	-1.3672 ppb	15:41:11
3	Mo 202.031†	-264.6	-275.4	5.7564 ug/L	5.7564 ppb	15:41:11
3	Na 589.592 Radial†	-700.1	30.7	10.156 ug/L	10.156 ppb	15:39:52
3	Ni 231.604†	136.1	68.2	2.2177 ug/L	2.2177 ppb	15:41:31
3	P 214.914†	563.8	394.0	0.2949 ug/L	0.2949 ppb	15:41:31
3	Pb 220.353†	197.4	243.1	-16.717 ug/L	-16.717 ppb	15:41:31
3	S 181.975 Axial†	51.6	25.5	46.812 ug/L	46.812 ppb	15:41:31
3	Sb 206.836†	19.1	-9.4	-8.7822 ug/L	-8.7822 ppb	15:41:31
3	Se 196.026†	-1449.6	-1451.0	-150.93 ug/L	-150.93 ppb	15:41:31
3	Si 251.611†	-412.6	-958.0	-36.510 ug/L	-36.510 ppb	15:41:11
3	Sn 189.927†	-6.3	-13.6	-25.651 ug/L	-25.651 ppb	15:41:31
3	Sr 421.552†	92.2	73.0	0.6767 ug/L	0.6767 ppb	15:39:52
3	Ti 334.940†	-1065.3	-68.5	-0.1844 ug/L	-0.1844 ppb	15:41:11
3	Tl 190.801†	-26.9	-3.8	-1.9033 ug/L	-1.9033 ppb	15:41:31
3	U 409.014†	-19.6	2030.0	16.054 ug/L	16.054 ppb	15:41:11
3	V 292.402†	5919.9	7238.1	1.0427 ug/L	1.0427 ppb	15:41:11
3	Zn 213.857†	3605.3	3146.4	-19.121 ug/L	-19.121 ppb	15:41:31
3	SiO2†	-408.4	-940.0	-76.223 ug/L	-76.223 ppb	15:41:47

## Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798873.2	98.084 %	0.5135			0.52%
Sc Radial	3181.5	94.6 %	0.81			0.85%
Y 371.029	681401.2	97.263 %	0.5903			0.61%
Y RADIAL	2653.1	95.14 %	0.995			1.05%
Ag 328.068†	-22728.4	3.1404 ug/L	2.55088	3.1404 ppb	2.55088	81.23%
Al 396.153Radial†	-18.2	-37.456 ug/L	12.8067	-37.456 ppb	12.8067	34.19%
As 188.979†	-139.8	11.180 ug/L	0.7618	11.180 ppb	0.7618	6.81%
B 249.677†	2240.2	0.1525 ug/L	4.86815	0.1525 ppb	4.86815	>999.9%
Ba 233.527†	-1566.6	-3.0111 ug/L	0.73274	-3.0111 ppb	0.73274	24.33%
Be 313.107†	64.0	0.0279 ug/L	0.02239	0.0279 ppb	0.02239	80.26%
Ca 317.933Radial†	-3.1	-12.093 ug/L	11.1154	-12.093 ppb	11.1154	91.92%
Cd 226.502†	2891.0	2.9839 ug/L	0.32144	2.9839 ppb	0.32144	10.77%
Co 228.616†	670.5	12.262 ug/L	0.3305	12.262 ppb	0.3305	2.70%
Cr 267.716†	-526.5	9.0435 ug/L	0.23826	9.0435 ppb	0.23826	2.63%
Cu 324.752†	-5506.2	2.5632 ug/L	0.34331	2.5632 ppb	0.34331	13.39%
Fe 238.204 Radial†	13955.0	392030 ug/L	7907.1	392030 ppb	7907.1	2.02%

K 766.490 Radial†	106.8	48.696 ug/L	39.6222	48.696 ppb	39.6222	81.37%
Mg 279.077 IEC†	5.6	136.87 ug/L	105.883	136.87 ppb	105.883	77.36%
Mn 257.610†	-29547.0	-1.2499 ug/L	0.68596	-1.2499 ppb	0.68596	54.88%
Mo 202.031†	-267.2	6.5505 ug/L	2.23177	6.5505 ppb	2.23177	34.07%
Na 589.592 Radial†	12.2	4.0286 ug/L	7.36147	4.0286 ppb	7.36147	182.73%
Ni 231.604†	63.9	2.0757 ug/L	0.25440	2.0757 ppb	0.25440	12.26%
P 214.914†	397.1	2.1165 ug/L	2.06929	2.1165 ppb	2.06929	97.77%
Pb 220.353†	240.3	-17.270 ug/L	1.1483	-17.270 ppb	1.1483	6.65%
S 181.975 Axial†	18.6	34.140 ug/L	11.3973	34.140 ppb	11.3973	33.38%
Sb 206.836†	-7.4	-7.9352 ug/L	1.35675	-7.9352 ppb	1.35675	17.10%
Se 196.026†	-1460.1	-156.56 ug/L	11.554	-156.56 ppb	11.554	7.38%
Si 251.611†	-911.3	-34.725 ug/L	1.9426	-34.725 ppb	1.9426	5.59%
Sn 189.927†	-16.4	-26.355 ug/L	0.7387	-26.355 ppb	0.7387	2.80%
Sr 421.552†	63.9	0.5931 ug/L	0.07279	0.5931 ppb	0.07279	12.27%
Ti 334.940†	-115.8	-0.2737 ug/L	0.09726	-0.2737 ppb	0.09726	35.54%
Tl 190.801†	-6.1	-2.8119 ug/L	1.87490	-2.8119 ppb	1.87490	66.68%
U 409.014†	2073.8	17.274 ug/L	1.0570	17.274 ppb	1.0570	6.12%
V 292.402†	7304.3	1.4797 ug/L	1.37857	1.4797 ppb	1.37857	93.16%
Zn 213.857†	3185.5	-18.745 ug/L	0.9896	-18.745 ppb	0.9896	5.28%
SiO2†	-947.4	-76.852 ug/L	0.5466	-76.852 ppb	0.5466	0.71%

Sequence No.: 18

Sample ID: LR2

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 3/8/2010 15:43:59

Data Type: Reprocessed on 3/8/2010 16:11:22

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 361.383	810611.0	810611.0	99.525 %		15:47:09
1	Sc Radial	3270.0	3270.0	97.2 %		15:46:12
1	Y 371.029	694461.0	694461.0	99.128 %		15:47:09
1	Y RADIAL	2726.5	2726.5	97.77 %		15:46:12
1	Ag 328.068†	145.7	-63.5	-0.3287 ug/L	-0.3287 ppb	15:47:09
1	Al 396.153Radial†	-67.4	0.1	0.1888 ug/L	0.1888 ppb	15:46:12
1	As 188.979†	-17.1	0.2	0.1369 ug/L	0.1369 ppb	15:47:29
1	B 249.677†	-191.3	0.4	0.0133 ug/L	0.0133 ppb	15:47:29
1	Ba 233.527†	3.2	1.0	0.0102 ug/L	0.0102 ppb	15:47:29
1	Be 313.107†	-3392.6	65.0	0.0323 ug/L	0.0323 ppb	15:47:09
1	Ca 317.933Radial†	13.3	2.7	10.784 ug/L	10.784 ppb	15:46:12
1	Cd 226.502†	-151.6	9.5	0.1424 ug/L	0.1424 ppb	15:47:29
1	Co 228.616†	-41.5	1.0	0.0213 ug/L	0.0213 ppb	15:47:29
1	Cr 267.716†	47.7	-27.8	-0.3732 ug/L	-0.3732 ppb	15:47:29
1	Cu 324.752†	6119.5	169.0	0.5586 ug/L	0.5586 ppb	15:47:09
1	Fe 238.204 Radial†	6.9	-0.1	-3.8896 ug/L	-3.8896 ppb	15:46:12
1	K 766.490 Radial†	2304.7	214.6	97.742 ug/L	97.742 ppb	15:45:52
1	Mg 279.077 IEC†	-0.2	-1.8	-174.12 ug/L	-174.12 ppb	15:46:12
1	Mn 257.610†	379.7	-16.2	-0.0151 ug/L	-0.0151 ppb	15:47:29
1	Mo 202.031†	-1.5	-8.7	-0.7773 ug/L	-0.7773 ppb	15:47:29
1	Na 589.592 Radial†	-737.9	11.8	3.8997 ug/L	3.8997 ppb	15:45:52
1	Ni 231.604†	84.8	15.5	0.5055 ug/L	0.5055 ppb	15:47:29
1	P 214.914†	194.2	17.5	13.749 ug/L	13.749 ppb	15:47:29
1	Pb 220.353†	-33.8	9.1	1.4524 ug/L	1.4524 ppb	15:47:29
1	S 181.975 Axial†	27.7	1.0	1.7778 ug/L	1.7778 ppb	15:47:29
1	Sb 206.836†	11920.7	11948.8	5132.6 ug/L	5132.6 ppb	15:47:09
1	Se 196.026†	-15.9	2.6	2.2238 ug/L	2.2238 ppb	15:47:29
1	Si 251.611†	812.5	276.6	10.639 ug/L	10.639 ppb	15:47:29
1	Sn 189.927†	16.3	9.1	2.1478 ug/L	2.1478 ppb	15:47:29
1	Sr 421.552†	13.3	-10.9	-0.1011 ug/L	-0.1011 ppb	15:45:52
1	Ti 334.940†	-125.2	885.7	1.5677 ug/L	1.5677 ppb	15:47:09
1	Tl 190.801†	-22.7	0.6	0.2624 ug/L	0.2624 ppb	15:47:29
1	U 409.014†	-2137.6	-97.9	-2.9246 ug/L	-2.9246 ppb	15:47:09
1	V 292.402†	-1215.5	15.2	0.1011 ug/L	0.1011 ppb	15:47:09
1	Zn 213.857†	527.6	21.6	0.2670 ug/L	0.2670 ppb	15:47:29
1	SiO2†	856.0	334.2	27.358 ug/L	27.358 ppb	15:48:25
2	Sc 361.383	813623.0	813623.0	99.895 %		15:47:34
2	Sc Radial	3278.1	3278.1	97.5 %		15:46:37
2	Y 371.029	697783.1	697783.1	99.602 %		15:47:34
2	Y RADIAL	2740.5	2740.5	98.27 %		15:46:37
2	Ag 328.068†	164.7	-45.0	-0.2265 ug/L	-0.2265 ppb	15:47:34
2	Al 396.153Radial†	-61.9	5.9	12.497 ug/L	12.497 ppb	15:46:37
2	As 188.979†	-19.8	-2.4	-1.3588 ug/L	-1.3588 ppb	15:47:54
2	B 249.677†	-209.3	-16.9	-0.4820 ug/L	-0.4820 ppb	15:47:54
2	Ba 233.527†	10.0	7.8	0.0764 ug/L	0.0764 ppb	15:47:54
2	Be 313.107†	-3432.2	38.0	0.0168 ug/L	0.0168 ppb	15:47:34
2	Ca 317.933Radial†	12.0	1.3	5.3084 ug/L	5.3084 ppb	15:46:37
2	Cd 226.502†	-161.3	0.4	0.0039 ug/L	0.0039 ppb	15:47:54
2	Co 228.616†	-48.9	-6.4	-0.1697 ug/L	-0.1697 ppb	15:47:54
2	Cr 267.716†	69.6	-6.1	-0.0795 ug/L	-0.0795 ppb	15:47:54
2	Cu 324.752†	6188.4	215.3	0.7121 ug/L	0.7121 ppb	15:47:34
2	Fe 238.204 Radial†	7.5	0.4	11.850 ug/L	11.850 ppb	15:46:37
2	K 766.490 Radial†	2226.9	128.8	58.691 ug/L	58.691 ppb	15:46:17
2	Mg 279.077 IEC†	2.7	1.2	121.58 ug/L	121.58 ppb	15:46:37
2	Mn 257.610†	385.4	-11.9	-0.0199 ug/L	-0.0199 ppb	15:47:54
2	Mo 202.031†	12.4	5.2	0.4698 ug/L	0.4698 ppb	15:47:54
2	Na 589.592 Radial†	-748.6	2.7	0.9031 ug/L	0.9031 ppb	15:46:17
2	Ni 231.604†	70.7	1.1	0.0357 ug/L	0.0357 ppb	15:47:54

2	P 214.914†	178.3	0.9	0.5679 ug/L	0.5679 ppb	15:47:54
2	Pb 220.353†	-36.9	6.0	0.9723 ug/L	0.9723 ppb	15:47:54
2	S 181.975 Axial†	26.9	0.1	0.1071 ug/L	0.1071 ppb	15:47:54
2	Sb 206.836†	11946.8	11930.7	5124.8 ug/L	5124.8 ppb	15:47:34
2	Se 196.026†	-25.3	-6.7	-5.6666 ug/L	-5.6666 ppb	15:47:54
2	Si 251.611†	809.4	270.5	10.388 ug/L	10.388 ppb	15:47:54
2	Sn 189.927†	15.3	8.1	1.9033 ug/L	1.9033 ppb	15:47:54
2	Sr 421.552†	24.0	0.1	0.0012 ug/L	0.0012 ppb	15:46:17
2	Ti 334.940†	-1014.2	-3.8	-0.0144 ug/L	-0.0144 ppb	15:47:34
2	Tl 190.801†	-17.6	5.8	2.3243 ug/L	2.3243 ppb	15:47:54
2	U 409.014†	-2157.8	-110.2	-3.2928 ug/L	-3.2928 ppb	15:47:34
2	V 292.402†	-1191.1	44.1	0.3558 ug/L	0.3558 ppb	15:47:34
2	Zn 213.857†	543.2	35.2	0.4385 ug/L	0.4385 ppb	15:47:54
2	SiO2†	781.4	256.3	20.954 ug/L	20.954 ppb	15:48:30
3	Sc 361.383	817230.3	817230.3	100.34 %		15:48:00
3	Sc Radial	3275.4	3275.4	97.4 %		15:47:02
3	Y 371.029	701861.5	701861.5	100.18 %		15:48:00
3	Y RADIAL	2729.5	2729.5	97.88 %		15:47:02
3	Ag 328.068†	156.3	-54.1	-0.2581 ug/L	-0.2581 ppb	15:48:00
3	Al 396.153Radial†	-68.1	-0.5	-1.1572 ug/L	-1.1572 ppb	15:47:02
3	As 188.979†	-12.3	5.2	2.9999 ug/L	2.9999 ppb	15:48:20
3	B 249.677†	-211.8	-18.5	-0.5388 ug/L	-0.5388 ppb	15:48:20
3	Ba 233.527†	9.8	7.6	0.0751 ug/L	0.0751 ppb	15:48:20
3	Be 313.107†	-3444.4	41.0	0.0186 ug/L	0.0186 ppb	15:48:00
3	Ca 317.933Radial†	14.5	4.0	15.572 ug/L	15.572 ppb	15:47:02
3	Cd 226.502†	-174.2	-11.8	-0.1853 ug/L	-0.1853 ppb	15:48:20
3	Co 228.616†	-49.6	-6.8	-0.1815 ug/L	-0.1815 ppb	15:48:20
3	Cr 267.716†	65.6	-10.4	-0.1363 ug/L	-0.1363 ppb	15:48:20
3	Cu 324.752†	6250.0	249.3	0.8264 ug/L	0.8264 ppb	15:48:00
3	Fe 238.204 Radial†	9.8	2.7	76.900 ug/L	76.900 ppb	15:47:02
3	K 766.490 Radial†	2175.4	77.9	35.486 ug/L	35.486 ppb	15:46:42
3	Mg 279.077 IEC†	3.9	2.4	238.76 ug/L	238.76 ppb	15:47:02
3	Mn 257.610†	376.8	-22.1	-0.0321 ug/L	-0.0321 ppb	15:48:20
3	Mo 202.031†	15.9	8.6	0.7789 ug/L	0.7789 ppb	15:48:20
3	Na 589.592 Radial†	-778.6	-28.7	-9.5216 ug/L	-9.5216 ppb	15:46:42
3	Ni 231.604†	65.9	-4.0	-0.1305 ug/L	-0.1305 ppb	15:48:20
3	P 214.914†	181.1	2.8	2.0228 ug/L	2.0228 ppb	15:48:20
3	Pb 220.353†	-18.4	24.7	3.9495 ug/L	3.9495 ppb	15:48:20
3	S 181.975 Axial†	32.2	5.3	9.6458 ug/L	9.6458 ppb	15:48:20
3	Sb 206.836†	11997.5	11928.4	5123.8 ug/L	5123.8 ppb	15:48:00
3	Se 196.026†	-19.3	-0.6	-0.2731 ug/L	-0.2731 ppb	15:48:20
3	Si 251.611†	801.2	258.8	9.9345 ug/L	9.9345 ppb	15:48:20
3	Sn 189.927†	14.7	7.4	1.7467 ug/L	1.7467 ppb	15:48:20
3	Sr 421.552†	-13.3	-38.2	-0.3540 ug/L	-0.3540 ppb	15:46:42
3	Ti 334.940†	-919.3	95.2	0.1498 ug/L	0.1498 ppb	15:48:00
3	Tl 190.801†	-17.7	5.8	2.3334 ug/L	2.3334 ppb	15:48:20
3	U 409.014†	-2091.7	-34.8	-1.0475 ug/L	-1.0475 ppb	15:48:00
3	V 292.402†	-1266.0	-25.3	-0.2011 ug/L	-0.2011 ppb	15:48:00
3	Zn 213.857†	534.4	24.1	0.2897 ug/L	0.2897 ppb	15:48:20
3	SiO2†	828.1	299.4	24.469 ug/L	24.469 ppb	15:48:35

## Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813821.4	99.919 %	0.4069			0.41%
Sc Radial	3274.5	97.4 %	0.12			0.13%
Y 371.029	698035.2	99.638 %	0.5291			0.53%
Y RADIAL	2732.2	97.97 %	0.265			0.27%
Ag 328.068†	-54.2	-0.2711 ug/L	0.05235	-0.2711 ppb	0.05235	19.31%
Al 396.153Radial†	1.8	3.8429 ug/L	7.52492	3.8429 ppb	7.52492	195.81%
As 188.979†	1.0	0.5927 ug/L	2.21482	0.5927 ppb	2.21482	373.70%
B 249.677†	-11.6	-0.3358 ug/L	0.30368	-0.3358 ppb	0.30368	90.43%
Ba 233.527†	5.5	0.0539 ug/L	0.03782	0.0539 ppb	0.03782	70.16%
Be 313.107†	48.0	0.0226 ug/L	0.00849	0.0226 ppb	0.00849	37.64%
Ca 317.933Radial†	2.7	10.555 ug/L	5.1355	10.555 ppb	5.1355	48.66%
Cd 226.502†	-0.6	-0.0130 ug/L	0.16450	-0.0130 ppb	0.16450	>999.9%
Co 228.616†	-4.1	-0.1100 ug/L	0.11383	-0.1100 ppb	0.11383	103.50%
Cr 267.716†	-14.7	-0.1964 ug/L	0.15575	-0.1964 ppb	0.15575	79.32%
Cu 324.752†	211.2	0.6990 ug/L	0.13438	0.6990 ppb	0.13438	19.22%
Fe 238.204 Radial†	1.0	28.287 ug/L	42.8297	28.287 ppb	42.8297	151.41%

K 766.490 Radial†	140.4	63.973 ug/L	31.4623	63.973 ppb	31.4623	49.18%
Mg 279.077 IEC†	0.6	62.075 ug/L	212.7782	62.075 ppb	212.7782	342.78%
Mn 257.610†	-16.7	-0.0224 ug/L	0.00875	-0.0224 ppb	0.00875	39.07%
Mo 202.031†	1.7	0.1571 ug/L	0.82382	0.1571 ppb	0.82382	524.30%
Na 589.592 Radial†	-4.7	-1.5729 ug/L	7.04494	-1.5729 ppb	7.04494	447.88%
Ni 231.604†	4.2	0.1369 ug/L	0.32988	0.1369 ppb	0.32988	240.92%
P 214.914†	7.1	5.4467 ug/L	7.22705	5.4467 ppb	7.22705	132.69%
Pb 220.353†	13.3	2.1247 ug/L	1.59843	2.1247 ppb	1.59843	75.23%
S 181.975 Axial†	2.1	3.8436 ug/L	5.09385	3.8436 ppb	5.09385	132.53%
Sb 206.836†	11936.0	5127.1 ug/L	4.79	5127.1 ppb	4.79	0.09%
Se 196.026†	-1.6	-1.2386 ug/L	4.03283	-1.2386 ppb	4.03283	325.59%
Si 251.611†	268.6	10.321 ug/L	0.3572	10.321 ppb	0.3572	3.46%
Sn 189.927†	8.2	1.9326 ug/L	0.20214	1.9326 ppb	0.20214	10.46%
Sr 421.552†	-16.3	-0.1513 ug/L	0.18281	-0.1513 ppb	0.18281	120.84%
Ti 334.940†	325.7	0.5677 ug/L	0.86993	0.5677 ppb	0.86993	153.23%
Tl 190.801†	4.1	1.6400 ug/L	1.19308	1.6400 ppb	1.19308	72.75%
U 409.014†	-81.0	-2.4217 ug/L	1.20420	-2.4217 ppb	1.20420	49.73%
V 292.402†	11.3	0.0853 ug/L	0.27877	0.0853 ppb	0.27877	326.93%
Zn 213.857†	27.0	0.3317 ug/L	0.09313	0.3317 ppb	0.09313	28.08%
SiO2†	296.6	24.260 ug/L	3.2071	24.260 ppb	3.2071	13.22%

Sequence No.: 19

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/8/2010 15:50:47

Data Type: Reprocessed on 3/8/2010 16:11:23

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 361.383	834102.6	834102.6	102.41 %		15:53:56
1	Sc Radial	3211.6	3211.6	95.5 %		15:52:59
1	Y 371.029	706225.0	706225.0	100.81 %		15:53:56
1	Y RADIAL	2663.0	2663.0	95.49 %		15:52:59
1	Ag 328.068†	97770.0	95260.0	498.90 ug/L	498.90 ppb	15:54:01
1	Al 396.153Radial†	2287.0	2464.5	5208.3 ug/L	5208.3 ppb	15:52:39
1	As 188.979†	864.9	862.0	501.74 ug/L	501.74 ppb	15:54:21
1	B 249.677†	17452.6	17234.7	489.03 ug/L	489.03 ppb	15:54:01
1	Ba 233.527†	53372.7	52114.9	502.52 ug/L	502.52 ppb	15:54:01
1	Be 313.107†	1167384.0	1143394.7	507.79 ug/L	507.79 ppb	15:53:56
1	Ca 317.933Radial†	1255.5	1303.9	5127.2 ug/L	5127.2 ppb	15:52:59
1	Cd 226.502†	34398.0	33750.6	507.30 ug/L	507.30 ppb	15:54:01
1	Co 228.616†	19546.1	19128.9	513.10 ug/L	513.10 ppb	15:54:01
1	Cr 267.716†	38201.5	37227.1	502.74 ug/L	502.74 ppb	15:54:01
1	Cu 324.752†	159594.3	149860.2	494.05 ug/L	494.05 ppb	15:54:01
1	Fe 238.204 Radial†	186.1	187.7	5287.5 ug/L	5287.5 ppb	15:52:59
1	K 766.490 Radial†	12867.7	11320.2	5149.9 ug/L	5149.9 ppb	15:52:39
1	Mg 279.077 IEC†	55.0	56.1	5481.2 ug/L	5481.2 ppb	15:52:59
1	Mn 257.610†	373703.1	364513.9	493.10 ug/L	493.10 ppb	15:54:01
1	Mo 202.031†	5670.1	5529.5	494.66 ug/L	494.66 ppb	15:54:21
1	Na 589.592 Radial†	31132.3	33375.5	11055 ug/L	11055 ppb	15:52:39
1	Ni 231.604†	16168.3	15718.2	512.92 ug/L	512.92 ppb	15:54:01
1	P 214.914†	3424.4	3166.2	2409.8 ug/L	2409.8 ppb	15:54:21
1	Pb 220.353†	3189.5	3157.5	508.13 ug/L	508.13 ppb	15:54:21
1	S 181.975 Axial†	582.8	542.2	994.80 ug/L	994.80 ppb	15:54:21
1	Sb 206.836†	1230.7	1173.0	521.70 ug/L	521.70 ppb	15:54:21
1	Se 196.026†	584.2	589.1	517.23 ug/L	517.23 ppb	15:54:21
1	Si 251.611†	66251.8	64153.4	2459.1 ug/L	2459.1 ppb	15:54:01
1	Sn 189.927†	2162.7	2104.6	494.72 ug/L	494.72 ppb	15:54:21
1	Sr 421.552†	53223.1	55715.8	516.65 ug/L	516.65 ppb	15:52:39
1	Ti 334.940†	282389.8	276757.9	484.39 ug/L	484.39 ppb	15:54:01
1	Tl 190.801†	1251.4	1245.4	502.95 ug/L	502.95 ppb	15:54:21
1	U 409.014†	15417.6	17104.8	509.24 ug/L	509.24 ppb	15:54:01
1	V 292.402†	62257.4	62029.2	505.77 ug/L	505.77 ppb	15:54:01
1	Zn 213.857†	41635.1	40147.1	498.27 ug/L	498.27 ppb	15:54:01
1	SiO2†	66843.4	64744.9	5282.9 ug/L	5282.9 ppb	15:55:28
2	Sc 361.383	818127.4	818127.4	100.45 %		15:54:27
2	Sc Radial	3243.8	3243.8	96.4 %		15:53:24
2	Y 371.029	691653.2	691653.2	98.727 %		15:54:27
2	Y RADIAL	2693.2	2693.2	96.58 %		15:53:24
2	Ag 328.068†	97186.8	96543.6	505.63 ug/L	505.63 ppb	15:54:32
2	Al 396.153Radial†	2307.6	2462.1	5202.6 ug/L	5202.6 ppb	15:53:04
2	As 188.979†	879.1	892.6	519.47 ug/L	519.47 ppb	15:54:52
2	B 249.677†	17447.7	17562.6	498.35 ug/L	498.35 ppb	15:54:32
2	Ba 233.527†	53068.0	52829.2	509.41 ug/L	509.41 ppb	15:54:32
2	Be 313.107†	1141190.1	1139576.3	506.11 ug/L	506.11 ppb	15:54:27
2	Ca 317.933Radial†	1270.0	1305.9	5135.2 ug/L	5135.2 ppb	15:53:24
2	Cd 226.502†	34151.5	34161.1	513.47 ug/L	513.47 ppb	15:54:32
2	Co 228.616†	19466.0	19421.9	520.97 ug/L	520.97 ppb	15:54:32
2	Cr 267.716†	37940.6	37695.8	509.08 ug/L	509.08 ppb	15:54:32
2	Cu 324.752†	158680.4	151993.3	501.08 ug/L	501.08 ppb	15:54:32
2	Fe 238.204 Radial†	189.7	189.5	5337.8 ug/L	5337.8 ppb	15:53:24
2	K 766.490 Radial†	13062.5	11388.4	5180.9 ug/L	5180.9 ppb	15:53:04
2	Mg 279.077 IEC†	56.1	56.7	5538.5 ug/L	5538.5 ppb	15:53:24
2	Mn 257.610†	371794.1	369738.9	500.17 ug/L	500.17 ppb	15:54:32
2	Mo 202.031†	5701.4	5668.8	507.12 ug/L	507.12 ppb	15:54:52
2	Na 589.592 Radial†	31641.4	33579.9	11123 ug/L	11123 ppb	15:53:04
2	Ni 231.604†	16062.2	15920.9	519.53 ug/L	519.53 ppb	15:54:32

2	P 214.914†	3446.1	3253.1	2477.4 ug/L	2477.4 ppb	15:54:52
2	Pb 220.353†	3190.7	3219.5	518.11 ug/L	518.11 ppb	15:54:52
2	S 181.975 Axial†	577.3	547.9	1005.2 ug/L	1005.2 ppb	15:54:52
2	Sb 206.836†	1237.2	1202.9	535.01 ug/L	535.01 ppb	15:54:52
2	Se 196.026†	600.3	616.3	540.47 ug/L	540.47 ppb	15:54:52
2	Si 251.611†	65830.4	64997.2	2491.3 ug/L	2491.3 ppb	15:54:32
2	Sn 189.927†	2179.6	2162.7	508.35 ug/L	508.35 ppb	15:54:52
2	Sr 421.552†	54360.7	56342.1	522.45 ug/L	522.45 ppb	15:53:04
2	Ti 334.940†	281142.9	280901.0	491.64 ug/L	491.64 ppb	15:54:32
2	Tl 190.801†	1256.6	1274.4	514.66 ug/L	514.66 ppb	15:54:52
2	U 409.014†	15031.1	17014.0	506.51 ug/L	506.51 ppb	15:54:32
2	V 292.402†	61867.6	62828.3	512.36 ug/L	512.36 ppb	15:54:32
2	Zn 213.857†	41455.5	40762.1	505.91 ug/L	505.91 ppb	15:54:32
2	SiO2†	65790.3	64971.0	5301.0 ug/L	5301.0 ppb	15:55:33
3	Sc 361.383	821241.0	821241.0	100.83 %		15:54:58
3	Sc Radial	3244.9	3244.9	96.5 %		15:53:49
3	Y 371.029	694636.6	694636.6	99.153 %		15:54:58
3	Y RADIAL	2698.7	2698.7	96.77 %		15:53:49
3	Ag 328.068†	97597.4	96584.1	505.83 ug/L	505.83 ppb	15:55:03
3	Al 396.153Radial†	2301.1	2454.5	5186.7 ug/L	5186.7 ppb	15:53:29
3	As 188.979†	872.4	882.6	513.71 ug/L	513.71 ppb	15:55:23
3	B 249.677†	17507.1	17555.6	498.16 ug/L	498.16 ppb	15:55:03
3	Ba 233.527†	53397.5	52955.7	510.63 ug/L	510.63 ppb	15:55:03
3	Be 313.107†	1149537.2	1143547.4	507.87 ug/L	507.87 ppb	15:54:58
3	Ca 317.933Radial†	1278.0	1313.7	5165.9 ug/L	5165.9 ppb	15:53:49
3	Cd 226.502†	34406.7	34285.2	515.34 ug/L	515.34 ppb	15:55:03
3	Co 228.616†	19544.7	19426.5	521.08 ug/L	521.08 ppb	15:55:03
3	Cr 267.716†	38292.2	37901.2	511.85 ug/L	511.85 ppb	15:55:03
3	Cu 324.752†	159112.2	151822.7	500.51 ug/L	500.51 ppb	15:55:03
3	Fe 238.204 Radial†	188.6	188.3	5304.1 ug/L	5304.1 ppb	15:53:49
3	K 766.490 Radial†	13040.6	11361.1	5168.5 ug/L	5168.5 ppb	15:53:29
3	Mg 279.077 IEC†	51.3	51.6	5043.0 ug/L	5043.0 ppb	15:53:49
3	Mn 257.610†	373979.9	370503.4	501.22 ug/L	501.22 ppb	15:55:03
3	Mo 202.031†	5668.0	5614.2	502.23 ug/L	502.23 ppb	15:55:23
3	Na 589.592 Radial†	31135.9	33044.5	10946 ug/L	10946 ppb	15:53:29
3	Ni 231.604†	16180.5	15977.6	521.38 ug/L	521.38 ppb	15:55:03
3	P 214.914†	3422.6	3216.8	2448.6 ug/L	2448.6 ppb	15:55:23
3	Pb 220.353†	3191.7	3208.5	516.32 ug/L	516.32 ppb	15:55:23
3	S 181.975 Axial†	578.6	547.0	1003.6 ug/L	1003.6 ppb	15:55:23
3	Sb 206.836†	1220.0	1181.2	525.47 ug/L	525.47 ppb	15:55:23
3	Se 196.026†	588.2	602.0	528.25 ug/L	528.25 ppb	15:55:23
3	Si 251.611†	66160.6	65076.2	2494.4 ug/L	2494.4 ppb	15:55:03
3	Sn 189.927†	2155.2	2130.3	500.75 ug/L	500.75 ppb	15:55:23
3	Sr 421.552†	53787.8	55728.8	516.77 ug/L	516.77 ppb	15:53:29
3	Ti 334.940†	282477.3	281163.2	492.14 ug/L	492.14 ppb	15:55:03
3	Tl 190.801†	1263.6	1276.6	515.53 ug/L	515.53 ppb	15:55:23
3	U 409.014†	15359.4	17282.9	514.54 ug/L	514.54 ppb	15:55:03
3	V 292.402†	62402.7	63125.5	514.69 ug/L	514.69 ppb	15:55:03
3	Zn 213.857†	41551.9	40701.3	505.15 ug/L	505.15 ppb	15:55:03
3	SiO2†	66570.4	65496.5	5344.1 ug/L	5344.1 ppb	15:55:38

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	824490.4	101.23 %	1.040			1.03%
Sc Radial	3233.5	96.1 %	0.56			0.59%
Y 371.029	697504.9	99.562 %	1.0988			1.10%
Y RADIAL	2684.9	96.28 %	0.690			0.72%
Ag 328.068†	96129.2	503.45 ug/L	3.942	503.45 ppb	3.942	0.78%
QC value within limits for Ag 328.068 Recovery = 100.69%						
Al 396.153Radial†	2460.4	5199.2 ug/L	11.18	5199.2 ppb	11.18	0.22%
QC value within limits for Al 396.153Radial Recovery = 103.98%						
As 188.979†	879.1	511.64 ug/L	9.042	511.64 ppb	9.042	1.77%
QC value within limits for As 188.979 Recovery = 102.33%						
B 249.677†	17451.0	495.18 ug/L	5.324	495.18 ppb	5.324	1.08%
QC value within limits for B 249.677 Recovery = 99.04%						
Ba 233.527†	52633.3	507.52 ug/L	4.371	507.52 ppb	4.371	0.86%
QC value within limits for Ba 233.527 Recovery = 101.50%						
Be 313.107†	1142172.8	507.26 ug/L	0.993	507.26 ppb	0.993	0.20%
QC value within limits for Be 313.107 Recovery = 101.45%						



Ca 317.933Radial†	1307.9	5142.8 ug/L	20.42	5142.8 ppb	20.42	0.40%
QC value within limits for Ca 317.933Radial Recovery = 102.86%						
Cd 226.502†	34065.7	512.04 ug/L	4.208	512.04 ppb	4.208	0.82%
QC value within limits for Cd 226.502 Recovery = 102.41%						
Co 228.616†	19325.8	518.38 ug/L	4.577	518.38 ppb	4.577	0.88%
QC value within limits for Co 228.616 Recovery = 103.68%						
Cr 267.716†	37608.0	507.89 ug/L	4.666	507.89 ppb	4.666	0.92%
QC value within limits for Cr 267.716 Recovery = 101.58%						
Cu 324.752†	151225.4	498.55 ug/L	3.909	498.55 ppb	3.909	0.78%
QC value within limits for Cu 324.752 Recovery = 99.71%						
Fe 238.204 Radial†	188.5	5309.8 ug/L	25.65	5309.8 ppb	25.65	0.48%
QC value within limits for Fe 238.204 Radial Recovery = 106.20%						
K 766.490 Radial†	11356.6	5166.5 ug/L	15.62	5166.5 ppb	15.62	0.30%
QC value within limits for K 766.490 Radial Recovery = 103.33%						
Mg 279.077 IEC†	54.8	5354.2 ug/L	271.02	5354.2 ppb	271.02	5.06%
QC value within limits for Mg 279.077 IEC Recovery = 107.08%						
Mn 257.610†	368252.1	498.17 ug/L	4.415	498.17 ppb	4.415	0.89%
QC value within limits for Mn 257.610 Recovery = 99.63%						
Mo 202.031†	5604.2	501.34 ug/L	6.276	501.34 ppb	6.276	1.25%
QC value within limits for Mo 202.031 Recovery = 100.27%						
Na 589.592 Radial†	33333.3	11041 ug/L	89.5	11041 ppb	89.5	0.81%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.41%						
Ni 231.604†	15872.3	517.95 ug/L	4.450	517.95 ppb	4.450	0.86%
QC value within limits for Ni 231.604 Recovery = 103.59%						
P 214.914†	3212.0	2445.3 ug/L	33.88	2445.3 ppb	33.88	1.39%
QC value within limits for P 214.914 Recovery = 97.81%						
Pb 220.353†	3195.2	514.19 ug/L	5.317	514.19 ppb	5.317	1.03%
QC value within limits for Pb 220.353 Recovery = 102.84%						
S 181.975 Axial†	545.7	1001.2 ug/L	5.62	1001.2 ppb	5.62	0.56%
QC value within limits for S 181.975 Axial Recovery = 100.12%						
Sb 206.836†	1185.7	527.39 ug/L	6.859	527.39 ppb	6.859	1.30%
QC value within limits for Sb 206.836 Recovery = 105.48%						
Se 196.026†	602.5	528.65 ug/L	11.625	528.65 ppb	11.625	2.20%
QC value within limits for Se 196.026 Recovery = 105.73%						
Si 251.611†	64742.3	2481.6 ug/L	19.59	2481.6 ppb	19.59	0.79%
QC value within limits for Si 251.611 Recovery = 99.26%						
Sn 189.927†	2132.6	501.27 ug/L	6.831	501.27 ppb	6.831	1.36%
QC value within limits for Sn 189.927 Recovery = 100.25%						
Sr 421.552†	55928.9	518.62 ug/L	3.319	518.62 ppb	3.319	0.64%
QC value within limits for Sr 421.552 Recovery = 103.72%						
Ti 334.940†	279607.4	489.39 ug/L	4.337	489.39 ppb	4.337	0.89%
QC value within limits for Ti 334.940 Recovery = 97.88%						
Tl 190.801†	1265.5	511.05 ug/L	7.025	511.05 ppb	7.025	1.37%
QC value within limits for Tl 190.801 Recovery = 102.21%						
U 409.014†	17133.9	510.09 ug/L	4.083	510.09 ppb	4.083	0.80%
QC value within limits for U 409.014 Recovery = 102.02%						
V 292.402†	62661.0	510.94 ug/L	4.624	510.94 ppb	4.624	0.91%
QC value within limits for V 292.402 Recovery = 102.19%						
Zn 213.857†	40536.8	503.11 ug/L	4.210	503.11 ppb	4.210	0.84%
QC value within limits for Zn 213.857 Recovery = 100.62%						
SiO2†	65070.8	5309.3 ug/L	31.47	5309.3 ppb	31.47	0.59%
QC value within limits for SiO2 Recovery = 99.29%						
QC Failed. Continue with analysis.						

Sequence No.: 20

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/8/2010 15:57:49

Data Type: Reprocessed on 3/8/2010 16:11:24

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 361.383	809343.5	809343.5	99.369 %		16:00:58
1	Sc Radial	3198.9	3198.9	95.1 %		16:00:01
1	Y 371.029	693630.4	693630.4	99.009 %		16:00:58
1	Y RADIAL	2649.6	2649.6	95.01 %		16:00:01
1	Ag 328.068†	153.3	-55.6	-0.2765 ug/L	-0.2765 ppb	16:00:58
1	Al 396.153Radial†	-74.2	-8.7	-18.404 ug/L	-18.404 ppb	16:00:01
1	As 188.979†	-14.5	2.8	1.6524 ug/L	1.6524 ppb	16:01:18
1	B 249.677†	-117.6	74.3	2.1109 ug/L	2.1109 ppb	16:01:18
1	Ba 233.527†	6.4	4.2	0.0417 ug/L	0.0417 ppb	16:01:18
1	Be 313.107†	-3423.8	28.3	0.0122 ug/L	0.0122 ppb	16:00:58
1	Ca 317.933Radial†	10.8	0.4	1.6044 ug/L	1.6044 ppb	16:00:01
1	Cd 226.502†	-151.4	9.4	0.1368 ug/L	0.1368 ppb	16:01:18
1	Co 228.616†	-41.6	0.8	0.0213 ug/L	0.0213 ppb	16:01:18
1	Cr 267.716†	71.3	-3.9	-0.0515 ug/L	-0.0515 ppb	16:01:18
1	Cu 324.752†	5947.8	5.9	0.0211 ug/L	0.0211 ppb	16:00:58
1	Fe 238.204 Radial†	8.4	1.6	44.006 ug/L	44.006 ppb	16:00:01
1	K 766.490 Radial†	2231.6	190.4	86.732 ug/L	86.732 ppb	15:59:41
1	Mg 279.077 IEC†	1.5	0.0	2.9329 ug/L	2.9329 ppb	16:00:01
1	Mn 257.610†	374.4	-20.9	-0.0241 ug/L	-0.0241 ppb	16:01:18
1	Mo 202.031†	11.0	3.8	0.3461 ug/L	0.3461 ppb	16:01:18
1	Na 589.592 Radial†	-745.6	-13.2	-4.3667 ug/L	-4.3667 ppb	15:59:41
1	Ni 231.604†	51.1	-18.2	-0.5958 ug/L	-0.5958 ppb	16:01:18
1	P 214.914†	185.8	9.3	7.3587 ug/L	7.3587 ppb	16:01:18
1	Pb 220.353†	-35.8	7.0	1.1156 ug/L	1.1156 ppb	16:01:18
1	S 181.975 Axial†	33.0	6.4	11.785 ug/L	11.785 ppb	16:01:18
1	Sb 206.836†	47.2	18.8	8.1007 ug/L	8.1007 ppb	16:01:18
1	Se 196.026†	-21.0	-2.5	-2.0156 ug/L	-2.0156 ppb	16:01:18
1	Si 251.611†	524.5	-11.9	-0.4633 ug/L	-0.4633 ppb	16:01:18
1	Sn 189.927†	13.1	6.0	1.4016 ug/L	1.4016 ppb	16:01:18
1	Sr 421.552†	-8.2	-33.1	-0.3070 ug/L	-0.3070 ppb	15:59:41
1	Ti 334.940†	-1090.8	-86.2	-0.1514 ug/L	-0.1514 ppb	16:00:58
1	Tl 190.801†	-29.9	-6.7	-2.6735 ug/L	-2.6735 ppb	16:01:18
1	U 409.014†	-2003.3	33.9	1.0068 ug/L	1.0068 ppb	16:00:58
1	V 292.402†	-1227.9	0.8	0.0070 ug/L	0.0070 ppb	16:00:58
1	Zn 213.857†	504.3	-1.1	-0.0165 ug/L	-0.0165 ppb	16:01:18
1	SiO2†	507.7	-15.0	-1.2347 ug/L	-1.2347 ppb	16:02:29
2	Sc 361.383	797771.6	797771.6	97.949 %		16:01:23
2	Sc Radial	3177.7	3177.7	94.5 %		16:00:26
2	Y 371.029	682769.6	682769.6	97.459 %		16:01:23
2	Y RADIAL	2637.5	2637.5	94.58 %		16:00:26
2	Ag 328.068†	140.1	-66.9	-0.3294 ug/L	-0.3294 ppb	16:01:23
2	Al 396.153Radial†	-70.6	-5.4	-11.406 ug/L	-11.406 ppb	16:00:26
2	As 188.979†	-17.1	-0.0	-0.0087 ug/L	-0.0087 ppb	16:01:43
2	B 249.677†	-160.6	28.7	0.8083 ug/L	0.8083 ppb	16:01:43
2	Ba 233.527†	8.1	6.1	0.0590 ug/L	0.0590 ppb	16:01:43
2	Be 313.107†	-3459.8	-58.5	-0.0260 ug/L	-0.0260 ppb	16:01:23
2	Ca 317.933Radial†	7.1	-3.4	-13.444 ug/L	-13.444 ppb	16:00:26
2	Cd 226.502†	-162.9	-4.4	-0.0732 ug/L	-0.0732 ppb	16:01:43
2	Co 228.616†	-42.2	-0.4	-0.0128 ug/L	-0.0128 ppb	16:01:43
2	Cr 267.716†	61.8	-12.6	-0.1669 ug/L	-0.1669 ppb	16:01:43
2	Cu 324.752†	5876.9	20.3	0.0722 ug/L	0.0722 ppb	16:01:23
2	Fe 238.204 Radial†	8.7	1.9	54.634 ug/L	54.634 ppb	16:00:26
2	K 766.490 Radial†	2251.2	226.8	103.32 ug/L	103.32 ppb	16:00:06
2	Mg 279.077 IEC†	-2.6	-4.3	-416.93 ug/L	-416.93 ppb	16:00:26
2	Mn 257.610†	363.7	-26.3	-0.0132 ug/L	-0.0132 ppb	16:01:43
2	Mo 202.031†	3.6	-3.5	-0.3127 ug/L	-0.3127 ppb	16:01:43
2	Na 589.592 Radial†	-715.0	13.9	4.6177 ug/L	4.6177 ppb	16:00:06
2	Ni 231.604†	72.9	4.8	0.1558 ug/L	0.1558 ppb	16:01:43

2	P 214.914†	178.2	4.3	3.3522 ug/L	3.3522 ppb	16:01:43
2	Pb 220.353†	-35.5	6.8	1.0750 ug/L	1.0750 ppb	16:01:43
2	S 181.975 Axial†	27.2	1.0	1.7712 ug/L	1.7712 ppb	16:01:43
2	Sb 206.836†	49.8	22.2	9.5592 ug/L	9.5592 ppb	16:01:43
2	Se 196.026†	-21.9	-3.7	-2.9883 ug/L	-2.9883 ppb	16:01:43
2	Si 251.611†	489.9	-39.6	-1.5194 ug/L	-1.5194 ppb	16:01:43
2	Sn 189.927†	19.8	13.0	3.0401 ug/L	3.0401 ppb	16:01:43
2	Sr 421.552†	18.6	-4.8	-0.0444 ug/L	-0.0444 ppb	16:00:06
2	Ti 334.940†	-1013.4	-23.1	-0.0063 ug/L	-0.0063 ppb	16:01:23
2	Tl 190.801†	-23.8	-0.9	-0.3490 ug/L	-0.3490 ppb	16:01:43
2	U 409.014†	-2149.8	-144.9	-4.3355 ug/L	-4.3355 ppb	16:01:23
2	V 292.402†	-1268.8	-58.9	-0.5025 ug/L	-0.5025 ppb	16:01:23
2	Zn 213.857†	500.3	2.2	0.0186 ug/L	0.0186 ppb	16:01:43
2	SiO2†	511.3	-4.0	-0.3146 ug/L	-0.3146 ppb	16:02:49
3	Sc 361.383	805910.5	805910.5	98.948 %		16:01:48
3	Sc Radial	3229.3	3229.3	96.0 %		16:00:51
3	Y 371.029	691623.6	691623.6	98.723 %		16:01:48
3	Y RADIAL	2682.2	2682.2	96.18 %		16:00:51
3	Ag 328.068†	141.8	-66.6	-0.3231 ug/L	-0.3231 ppb	16:01:48
3	Al 396.153Radial†	-62.3	4.5	9.4969 ug/L	9.4969 ppb	16:00:51
3	As 188.979†	-18.9	-1.7	-0.9477 ug/L	-0.9477 ppb	16:02:08
3	B 249.677†	-182.7	8.0	0.2174 ug/L	0.2174 ppb	16:02:08
3	Ba 233.527†	-9.3	-11.6	-0.1096 ug/L	-0.1096 ppb	16:02:08
3	Be 313.107†	-3460.7	-23.7	-0.0109 ug/L	-0.0109 ppb	16:01:48
3	Ca 317.933Radial†	9.9	-0.7	-2.6936 ug/L	-2.6936 ppb	16:00:51
3	Cd 226.502†	-164.8	-4.7	-0.0782 ug/L	-0.0782 ppb	16:02:08
3	Co 228.616†	-48.8	-6.6	-0.1775 ug/L	-0.1775 ppb	16:02:08
3	Cr 267.716†	59.9	-15.2	-0.2008 ug/L	-0.2008 ppb	16:02:08
3	Cu 324.752†	5851.9	-65.6	-0.2105 ug/L	-0.2105 ppb	16:01:48
3	Fe 238.204 Radial†	9.1	2.2	61.123 ug/L	61.123 ppb	16:00:51
3	K 766.490 Radial†	2279.7	218.4	99.486 ug/L	99.486 ppb	16:00:31
3	Mg 279.077 IEC†	3.0	1.5	149.62 ug/L	149.62 ppb	16:00:51
3	Mn 257.610†	362.3	-31.5	-0.0427 ug/L	-0.0427 ppb	16:02:08
3	Mo 202.031†	13.6	6.5	0.5882 ug/L	0.5882 ppb	16:02:08
3	Na 589.592 Radial†	-743.4	-3.5	-1.1588 ug/L	-1.1588 ppb	16:00:31
3	Ni 231.604†	53.0	-16.2	-0.5274 ug/L	-0.5274 ppb	16:02:08
3	P 214.914†	172.2	-3.6	-2.8615 ug/L	-2.8615 ppb	16:02:08
3	Pb 220.353†	-36.3	6.3	1.0063 ug/L	1.0063 ppb	16:02:08
3	S 181.975 Axial†	24.9	-1.7	-3.0880 ug/L	-3.0880 ppb	16:02:08
3	Sb 206.836†	38.0	9.7	4.2202 ug/L	4.2202 ppb	16:02:08
3	Se 196.026†	-18.0	0.5	0.5624 ug/L	0.5624 ppb	16:02:08
3	Si 251.611†	489.0	-45.6	-1.7593 ug/L	-1.7593 ppb	16:02:08
3	Sn 189.927†	16.7	9.6	2.2561 ug/L	2.2561 ppb	16:02:08
3	Sr 421.552†	39.1	16.2	0.1502 ug/L	0.1502 ppb	16:00:31
3	Ti 334.940†	-1099.5	-99.7	-0.1852 ug/L	-0.1852 ppb	16:01:48
3	Tl 190.801†	-21.2	2.0	0.8040 ug/L	0.8040 ppb	16:02:08
3	U 409.014†	-2168.7	-141.9	-4.2446 ug/L	-4.2446 ppb	16:01:48
3	V 292.402†	-1192.6	31.2	0.2452 ug/L	0.2452 ppb	16:01:48
3	Zn 213.857†	494.4	-8.9	-0.1173 ug/L	-0.1173 ppb	16:02:08
3	SiO2†	491.7	-29.0	-2.3876 ug/L	-2.3876 ppb	16:03:09

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804341.9	98.755 %	0.7297			0.74%
Sc Radial	3202.0	95.2 %	0.77			0.81%
Y 371.029	689341.2	98.397 %	0.8249			0.84%
Y RADIAL	2656.4	95.26 %	0.830			0.87%
Ag 328.068†	-63.0	-0.3097 ug/L	0.02889	-0.3097 ppb	0.02889	9.33%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.2	-6.7712 ug/L	14.51657	-6.7712 ppb	14.51657	214.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.2320 ug/L	1.31666	0.2320 ppb	1.31666	567.48%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	37.0	1.0455 ug/L	0.96875	1.0455 ppb	0.96875	92.66%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.5	-0.0030 ug/L	0.09273	-0.0030 ppb	0.09273	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-18.0	-0.0082 ug/L	0.01924	-0.0082 ppb	0.01924	233.60%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	-1.2	-4.8443 ug/L	7.75127	-4.8443 ppb	7.75127 160.01%
QC value within limits for Ca 317.933Radial Recovery = Not calculated					
Cd 226.502†	0.1	-0.0049 ug/L	0.12271	-0.0049 ppb	0.12271 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-2.1	-0.0563 ug/L	0.10627	-0.0563 ppb	0.10627 188.63%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-10.6	-0.1397 ug/L	0.07830	-0.1397 ppb	0.07830 56.04%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-13.1	-0.0391 ug/L	0.15067	-0.0391 ppb	0.15067 385.64%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.9	53.254 ug/L	8.6414	53.254 ppb	8.6414 16.23%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	211.9	96.514 ug/L	8.6859	96.514 ppb	8.6859 9.00%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-0.9	-88.126 ug/L	294.0504	-88.126 ppb	294.0504 333.67%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-26.3	-0.0266 ug/L	0.01494	-0.0266 ppb	0.01494 56.07%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	2.3	0.2072 ug/L	0.46624	0.2072 ppb	0.46624 225.00%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-0.9	-0.3026 ug/L	4.55299	-0.3026 ppb	4.55299 >999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-9.9	-0.3225 ug/L	0.41559	-0.3225 ppb	0.41559 128.87%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	3.3	2.6165 ug/L	5.14965	2.6165 ppb	5.14965 196.82%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	6.7	1.0656 ug/L	0.05522	1.0656 ppb	0.05522 5.18%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	1.9	3.4895 ug/L	7.58406	3.4895 ppb	7.58406 217.34%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	16.9	7.2934 ug/L	2.75954	7.2934 ppb	2.75954 37.84%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-1.9	-1.4805 ug/L	1.83481	-1.4805 ppb	1.83481 123.93%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	-32.4	-1.2473 ug/L	0.68949	-1.2473 ppb	0.68949 55.28%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	9.5	2.2326 ug/L	0.81952	2.2326 ppb	0.81952 36.71%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-7.2	-0.0671 ug/L	0.22946	-0.0671 ppb	0.22946 341.95%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-69.7	-0.1143 ug/L	0.09505	-0.1143 ppb	0.09505 83.15%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-1.8	-0.7395 ug/L	1.77131	-0.7395 ppb	1.77131 239.53%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-84.3	-2.5244 ug/L	3.05847	-2.5244 ppb	3.05847 121.16%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-9.0	-0.0834 ug/L	0.38198	-0.0834 ppb	0.38198 457.79%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-2.6	-0.0384 ug/L	0.07054	-0.0384 ppb	0.07054 183.59%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	-16.0	-1.3123 ug/L	1.03869	-1.3123 ppb	1.03869 79.15%
QC value within limits for SiO2 Recovery = Not calculated					
All analyte(s) passed QC.					

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/8/2010 17:13:12

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	3178.6	3178.6	94.5 %		17:15:24
1	Y RADIAL	2633.8	2633.8	94.44 %		17:15:24
1	Al 396.153Radial†	2385.7	2593.8	5482.3 ug/L	5482.3 ppb	17:15:04
1	Ca 317.933Radial†	1272.2	1335.2	5250.4 ug/L	5250.4 ppb	17:15:24
1	Fe 238.204 Radial†	189.5	193.3	5445.0 ug/L	5445.0 ppb	17:15:24
1	K 766.490 Radial†	13052.2	11655.6	5302.4 ug/L	5302.4 ppb	17:15:04
1	Mg 279.077 IEC†	51.3	52.7	5153.9 ug/L	5153.9 ppb	17:15:24
1	Na 589.592 Radial†	32618.3	35286.9	11688 ug/L	11688 ppb	17:15:04
1	Sr 421.552†	55976.3	59208.6	549.04 ug/L	549.04 ppb	17:15:04
1	Sc 361.383	816223.7	816223.7	100.21 %		17:16:21
1	Y 371.029	691153.2	691153.2	98.655 %		17:16:21
1	Ag 328.068†	99217.6	98795.8	517.40 ug/L	517.40 ppb	17:16:26
1	As 188.979†	869.5	885.1	515.25 ug/L	515.25 ppb	17:16:46
1	B 249.677†	17604.4	17759.5	503.91 ug/L	503.91 ppb	17:16:26
1	Ba 233.527†	54092.2	53974.5	520.45 ug/L	520.45 ppb	17:16:26
1	Be 313.107†	1142182.7	1143216.5	507.75 ug/L	507.75 ppb	17:16:21
1	Cd 226.502†	34696.6	34784.3	522.84 ug/L	522.84 ppb	17:16:26
1	Co 228.616†	19845.5	19845.7	532.31 ug/L	532.31 ppb	17:16:26
1	Cr 267.716†	38651.1	38492.8	519.84 ug/L	519.84 ppb	17:16:26
1	Cu 324.752†	162485.6	156158.8	514.81 ug/L	514.81 ppb	17:16:26
1	Mn 257.610†	379457.1	378248.8	511.70 ug/L	511.70 ppb	17:16:21
1	Mo 202.031†	5688.2	5668.9	507.14 ug/L	507.14 ppb	17:16:46
1	Ni 231.604†	16251.2	16146.8	526.90 ug/L	526.90 ppb	17:16:26
1	P 214.914†	3442.9	3258.0	2478.4 ug/L	2478.4 ppb	17:16:46
1	Pb 220.353†	3183.9	3220.1	518.24 ug/L	518.24 ppb	17:16:46
1	S 181.975 Axial†	577.8	549.7	1008.5 ug/L	1008.5 ppb	17:16:46
1	Sb 206.836†	1214.8	1183.5	526.62 ug/L	526.62 ppb	17:16:46
1	Se 196.026†	593.3	610.6	536.06 ug/L	536.06 ppb	17:16:46
1	Si 251.611†	67386.6	66702.9	2556.9 ug/L	2556.9 ppb	17:16:26
1	Sn 189.927†	2165.6	2153.8	506.27 ug/L	506.27 ppb	17:16:46
1	Ti 334.940†	287605.2	288002.3	504.10 ug/L	504.10 ppb	17:16:26
1	Tl 190.801†	1260.2	1281.0	517.38 ug/L	517.38 ppb	17:16:46
1	U 409.014†	15838.7	17854.8	531.59 ug/L	531.59 ppb	17:16:26
1	V 292.402†	63181.9	64283.4	524.08 ug/L	524.08 ppb	17:16:26
1	Zn 213.857†	42171.4	41572.7	515.99 ug/L	515.99 ppb	17:16:26
1	SiO2†	64812.7	64148.3	5233.7 ug/L	5233.7 ppb	17:17:54
2	Sc Radial	3221.1	3221.1	95.8 %		17:15:49
2	Y RADIAL	2676.0	2676.0	95.96 %		17:15:49
2	Al 396.153Radial†	2354.9	2528.4	5343.2 ug/L	5343.2 ppb	17:15:29
2	Ca 317.933Radial†	1268.4	1313.5	5164.8 ug/L	5164.8 ppb	17:15:49
2	Fe 238.204 Radial†	190.2	191.4	5391.7 ug/L	5391.7 ppb	17:15:49
2	K 766.490 Radial†	13011.1	11430.3	5199.9 ug/L	5199.9 ppb	17:15:29
2	Mg 279.077 IEC†	52.2	53.0	5175.6 ug/L	5175.6 ppb	17:15:49
2	Na 589.592 Radial†	32142.9	34334.6	11373 ug/L	11373 ppb	17:15:29
2	Sr 421.552†	55112.9	57524.7	533.42 ug/L	533.42 ppb	17:15:29
2	Sc 361.383	817216.1	817216.1	100.34 %		17:16:52
2	Y 371.029	691093.7	691093.7	98.647 %		17:16:52
2	Ag 328.068†	98440.8	97901.3	512.73 ug/L	512.73 ppb	17:16:57
2	As 188.979†	862.7	877.3	510.68 ug/L	510.68 ppb	17:17:17
2	B 249.677†	17525.5	17659.5	501.09 ug/L	501.09 ppb	17:16:57
2	Ba 233.527†	53711.6	53529.6	516.16 ug/L	516.16 ppb	17:16:57
2	Be 313.107†	1150894.3	1150515.0	510.97 ug/L	510.97 ppb	17:16:52
2	Cd 226.502†	34377.9	34424.7	517.43 ug/L	517.43 ppb	17:16:57
2	Co 228.616†	19572.4	19549.5	524.38 ug/L	524.38 ppb	17:16:57
2	Cr 267.716†	38413.4	38209.1	516.00 ug/L	516.00 ppb	17:16:57
2	Cu 324.752†	161177.1	154657.8	509.86 ug/L	509.86 ppb	17:16:57
2	Mn 257.610†	382105.9	380428.9	514.64 ug/L	514.64 ppb	17:16:52
2	Mo 202.031†	5698.0	5671.7	507.38 ug/L	507.38 ppb	17:17:17
2	Ni 231.604†	16190.7	16066.8	524.29 ug/L	524.29 ppb	17:16:57

2	P 214.914†	3406.9	3217.9	2447.7 ug/L	2447.7 ppb	17:17:17
2	Pb 220.353†	3168.6	3201.0	515.16 ug/L	515.16 ppb	17:17:17
2	S 181.975 Axial†	582.4	553.6	1015.7 ug/L	1015.7 ppb	17:17:17
2	Sb 206.836†	1217.0	1184.2	526.93 ug/L	526.93 ppb	17:17:17
2	Se 196.026†	593.1	609.8	535.13 ug/L	535.13 ppb	17:17:17
2	Si 251.611†	66821.9	66058.4	2532.1 ug/L	2532.1 ppb	17:16:57
2	Sn 189.927†	2166.5	2152.1	505.85 ug/L	505.85 ppb	17:17:17
2	Ti 334.940†	284826.3	284884.1	498.64 ug/L	498.64 ppb	17:16:57
2	Tl 190.801†	1247.6	1266.9	511.71 ug/L	511.71 ppb	17:17:17
2	U 409.014†	15622.7	17620.3	524.60 ug/L	524.60 ppb	17:16:57
2	V 292.402†	62812.3	63838.5	520.50 ug/L	520.50 ppb	17:16:57
2	Zn 213.857†	41836.0	41187.4	511.19 ug/L	511.19 ppb	17:16:57
2	SiO2†	66351.8	65603.7	5352.8 ug/L	5352.8 ppb	17:17:59
3	Sc Radial	3182.9	3182.9	94.6 %		17:16:14
3	Y RADIAL	2637.8	2637.8	94.59 %		17:16:14
3	Al 396.153Radial†	2375.6	2579.8	5452.5 ug/L	5452.5 ppb	17:15:54
3	Ca 317.933Radial†	1267.8	1328.7	5224.8 ug/L	5224.8 ppb	17:16:14
3	Fe 238.204 Radial†	195.4	199.2	5612.8 ug/L	5612.8 ppb	17:16:14
3	K 766.490 Radial†	13110.1	11697.8	5321.6 ug/L	5321.6 ppb	17:15:54
3	Mg 279.077 IEC†	51.7	53.1	5186.0 ug/L	5186.0 ppb	17:16:14
3	Na 589.592 Radial†	32581.2	35200.3	11660 ug/L	11660 ppb	17:15:54
3	Sr 421.552†	55885.8	59031.7	547.40 ug/L	547.40 ppb	17:15:54
3	Sc 361.383	817014.2	817014.2	100.31 %		17:17:23
3	Y 371.029	691965.3	691965.3	98.771 %		17:17:23
3	Ag 328.068†	98295.2	97780.4	512.16 ug/L	512.16 ppb	17:17:28
3	As 188.979†	865.5	880.2	512.43 ug/L	512.43 ppb	17:17:48
3	B 249.677†	17412.9	17551.5	497.99 ug/L	497.99 ppb	17:17:28
3	Ba 233.527†	53302.8	53135.3	512.37 ug/L	512.37 ppb	17:17:28
3	Be 313.107†	1154402.5	1154295.8	512.65 ug/L	512.65 ppb	17:17:23
3	Cd 226.502†	34281.4	34336.9	516.09 ug/L	516.09 ppb	17:17:28
3	Co 228.616†	19504.6	19486.7	522.68 ug/L	522.68 ppb	17:17:28
3	Cr 267.716†	38244.7	38050.4	513.87 ug/L	513.87 ppb	17:17:28
3	Cu 324.752†	160882.6	154403.9	509.04 ug/L	509.04 ppb	17:17:28
3	Mn 257.610†	381864.4	380282.3	514.47 ug/L	514.47 ppb	17:17:23
3	Mo 202.031†	5658.0	5633.2	503.96 ug/L	503.96 ppb	17:17:48
3	Ni 231.604†	16093.3	15973.7	521.25 ug/L	521.25 ppb	17:17:28
3	P 214.914†	3415.6	3227.4	2455.2 ug/L	2455.2 ppb	17:17:48
3	Pb 220.353†	3144.6	3177.9	511.43 ug/L	511.43 ppb	17:17:48
3	S 181.975 Axial†	573.5	544.8	999.58 ug/L	999.58 ppb	17:17:48
3	Sb 206.836†	1192.3	1159.9	516.30 ug/L	516.30 ppb	17:17:48
3	Se 196.026†	584.6	601.4	528.67 ug/L	528.67 ppb	17:17:48
3	Si 251.611†	66450.2	65704.3	2518.6 ug/L	2518.6 ppb	17:17:28
3	Sn 189.927†	2140.0	2126.2	499.77 ug/L	499.77 ppb	17:17:48
3	Ti 334.940†	283909.2	284040.1	497.17 ug/L	497.17 ppb	17:17:28
3	Tl 190.801†	1258.6	1278.2	516.25 ug/L	516.25 ppb	17:17:48
3	U 409.014†	15444.7	17446.7	519.39 ug/L	519.39 ppb	17:17:28
3	V 292.402†	62529.5	63572.0	518.27 ug/L	518.27 ppb	17:17:28
3	Zn 213.857†	41805.5	41167.3	510.93 ug/L	510.93 ppb	17:17:28
3	SiO2†	66432.2	65700.2	5360.8 ug/L	5360.8 ppb	17:18:04

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816818.0	100.29 %	0.064			0.06%
Sc Radial	3194.2	95.0 %	0.70			0.73%
Y 371.029	691404.1	98.691 %	0.0695			0.07%
Y RADIAL	2649.2	95.00 %	0.835			0.88%
Ag 328.068†	98159.2	514.10 ug/L	2.879	514.10 ppb	2.879	0.56%
QC value within limits for Ag 328.068 Recovery = 102.82%						
Al 396.153Radial†	2567.3	5426.0 ug/L	73.21	5426.0 ppb	73.21	1.35%
QC value within limits for Al 396.153Radial Recovery = 108.52%						
As 188.979†	880.9	512.79 ug/L	2.304	512.79 ppb	2.304	0.45%
QC value within limits for As 188.979 Recovery = 102.56%						
B 249.677†	17656.8	501.00 ug/L	2.965	501.00 ppb	2.965	0.59%
QC value within limits for B 249.677 Recovery = 100.20%						
Ba 233.527†	53546.4	516.33 ug/L	4.042	516.33 ppb	4.042	0.78%
QC value within limits for Ba 233.527 Recovery = 103.27%						
Be 313.107†	1149342.4	510.46 ug/L	2.488	510.46 ppb	2.488	0.49%
QC value within limits for Be 313.107 Recovery = 102.09%						
Ca 317.933Radial†	1325.8	5213.3 ug/L	43.94	5213.3 ppb	43.94	0.84%

QC value within limits for Ca 317.933 Radial Recovery = 104.27%							
Cd	226.502†	34515.3	518.79 ug/L	3.572	518.79 ppb	3.572	0.69%
QC value within limits for Cd 226.502 Recovery = 103.76%							
Co	228.616†	19627.3	526.45 ug/L	5.138	526.45 ppb	5.138	0.98%
QC value within limits for Co 228.616 Recovery = 105.29%							
Cr	267.716†	38250.8	516.57 ug/L	3.021	516.57 ppb	3.021	0.58%
QC value within limits for Cr 267.716 Recovery = 103.31%							
Cu	324.752†	155073.5	511.23 ug/L	3.121	511.23 ppb	3.121	0.61%
QC value within limits for Cu 324.752 Recovery = 102.25%							
Fe	238.204 Radial†	194.6	5483.2 ug/L	115.42	5483.2 ppb	115.42	2.10%
QC value within limits for Fe 238.204 Radial Recovery = 109.66%							
K	766.490 Radial†	11594.6	5274.6 ug/L	65.43	5274.6 ppb	65.43	1.24%
QC value within limits for K 766.490 Radial Recovery = 105.49%							
Mg	279.077 IEC†	52.9	5171.8 ug/L	16.41	5171.8 ppb	16.41	0.32%
QC value within limits for Mg 279.077 IEC Recovery = 103.44%							
Mn	257.610†	379653.4	513.60 ug/L	1.650	513.60 ppb	1.650	0.32%
QC value within limits for Mn 257.610 Recovery = 102.72%							
Mo	202.031†	5657.9	506.16 ug/L	1.908	506.16 ppb	1.908	0.38%
QC value within limits for Mo 202.031 Recovery = 101.23%							
Na	589.592 Radial†	34940.6	11574 ug/L	174.4	11574 ppb	174.4	1.51%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.74%							
Ni	231.604†	16062.4	524.15 ug/L	2.827	524.15 ppb	2.827	0.54%
QC value within limits for Ni 231.604 Recovery = 104.83%							
P	214.914†	3234.4	2460.4 ug/L	16.02	2460.4 ppb	16.02	0.65%
QC value within limits for P 214.914 Recovery = 98.42%							
Pb	220.353†	3199.7	514.94 ug/L	3.413	514.94 ppb	3.413	0.66%
QC value within limits for Pb 220.353 Recovery = 102.99%							
S	181.975 Axial†	549.4	1007.9 ug/L	8.07	1007.9 ppb	8.07	0.80%
QC value within limits for S 181.975 Axial Recovery = 100.79%							
Sb	206.836†	1175.9	523.28 ug/L	6.048	523.28 ppb	6.048	1.16%
QC value within limits for Sb 206.836 Recovery = 104.66%							
Se	196.026†	607.3	533.29 ug/L	4.027	533.29 ppb	4.027	0.76%
QC value within limits for Se 196.026 Recovery = 106.66%							
Si	251.611†	66155.2	2535.8 ug/L	19.44	2535.8 ppb	19.44	0.77%
QC value within limits for Si 251.611 Recovery = 101.43%							
Sn	189.927†	2144.0	503.96 ug/L	3.636	503.96 ppb	3.636	0.72%
QC value within limits for Sn 189.927 Recovery = 100.79%							
Sr	421.552†	58588.3	543.28 ug/L	8.581	543.28 ppb	8.581	1.58%
QC value within limits for Sr 421.552 Recovery = 108.66%							
Ti	334.940†	285642.2	499.97 ug/L	3.655	499.97 ppb	3.655	0.73%
QC value within limits for Ti 334.940 Recovery = 99.99%							
Tl	190.801†	1275.3	515.12 ug/L	2.999	515.12 ppb	2.999	0.58%
QC value within limits for Tl 190.801 Recovery = 103.02%							
U	409.014†	17640.6	525.19 ug/L	6.119	525.19 ppb	6.119	1.17%
QC value within limits for U 409.014 Recovery = 105.04%							
V	292.402†	63898.0	520.95 ug/L	2.929	520.95 ppb	2.929	0.56%
QC value within limits for V 292.402 Recovery = 104.19%							
Zn	213.857†	41309.1	512.70 ug/L	2.849	512.70 ppb	2.849	0.56%
QC value within limits for Zn 213.857 Recovery = 102.54%							
SiO2†		65150.7	5315.7 ug/L	71.15	5315.7 ppb	71.15	1.34%
QC value within limits for SiO2 Recovery = 99.41%							
QC Failed. Continue with analysis.							

Sequence No.: 10

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/8/2010 17:20:14

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	3205.4	3205.4	95.3 %		17:22:26
1	Y RADIAL	2654.2	2654.2	95.18 %		17:22:26
1	Al 396.153Radial†	-66.4	-0.4	-0.7892 ug/L	-0.7892 ppb	17:22:26
1	Ca 317.933Radial†	10.5	0.1	0.3154 ug/L	0.3154 ppb	17:22:26
1	Fe 238.204 Radial†	10.4	3.7	102.70 ug/L	102.70 ppb	17:22:26
1	K 766.490 Radial†	2180.3	131.8	60.034 ug/L	60.034 ppb	17:22:06
1	Mg 279.077 IEC†	1.9	0.5	47.781 ug/L	47.781 ppb	17:22:26
1	Na 589.592 Radial†	-744.6	-10.5	-3.4792 ug/L	-3.4792 ppb	17:22:06
1	Sr 421.552†	3.8	-20.5	-0.1903 ug/L	-0.1903 ppb	17:22:06
1	Sc 361.383	801907.0	801907.0	98.456 %		17:23:23
1	Y 371.029	687586.4	687586.4	98.146 %		17:23:23
1	Ag 328.068†	174.1	-33.1	-0.1372 ug/L	-0.1372 ppb	17:23:23
1	As 188.979†	-12.8	4.4	2.5591 ug/L	2.5591 ppb	17:23:43
1	B 249.677†	-255.7	-67.0	-1.9279 ug/L	-1.9279 ppb	17:23:43
1	Ba 233.527†	-15.0	-17.4	-0.1643 ug/L	-0.1643 ppb	17:23:43
1	Be 313.107†	-3483.8	-64.7	-0.0288 ug/L	-0.0288 ppb	17:23:23
1	Cd 226.502†	-154.8	4.6	0.0568 ug/L	0.0568 ppb	17:23:43
1	Co 228.616†	-46.5	-4.6	-0.1239 ug/L	-0.1239 ppb	17:23:43
1	Cr 267.716†	67.4	-7.3	-0.0921 ug/L	-0.0921 ppb	17:23:43
1	Cu 324.752†	5974.6	88.6	0.3000 ug/L	0.3000 ppb	17:23:23
1	Mn 257.610†	408.0	16.7	0.0308 ug/L	0.0308 ppb	17:23:43
1	Mo 202.031†	15.4	8.4	0.7601 ug/L	0.7601 ppb	17:23:43
1	Ni 231.604†	52.5	-16.4	-0.5356 ug/L	-0.5356 ppb	17:23:43
1	P 214.914†	181.6	6.8	5.2795 ug/L	5.2795 ppb	17:23:43
1	Pb 220.353†	-41.3	1.0	0.1538 ug/L	0.1538 ppb	17:23:43
1	S 181.975 Axial†	36.4	10.1	18.539 ug/L	18.539 ppb	17:23:43
1	Sb 206.836†	27.9	-0.4	-0.1246 ug/L	-0.1246 ppb	17:23:43
1	Se 196.026†	-16.5	1.8	1.8264 ug/L	1.8264 ppb	17:23:43
1	Si 251.611†	522.2	-9.4	-0.3711 ug/L	-0.3711 ppb	17:23:43
1	Sn 189.927†	14.6	7.6	1.7779 ug/L	1.7779 ppb	17:23:43
1	Ti 334.940†	-1022.6	-27.2	-0.0495 ug/L	-0.0495 ppb	17:23:23
1	Tl 190.801†	-28.9	-5.9	-2.3517 ug/L	-2.3517 ppb	17:23:43
1	U 409.014†	-2167.3	-151.3	-4.5324 ug/L	-4.5324 ppb	17:23:23
1	V 292.402†	-1228.5	-11.3	-0.1029 ug/L	-0.1029 ppb	17:23:23
1	Zn 213.857†	501.8	1.1	0.0019 ug/L	0.0019 ppb	17:23:43
1	SiO2†	513.0	-4.9	-0.4224 ug/L	-0.4224 ppb	17:24:54
2	Sc Radial	3192.8	3192.8	94.9 %		17:22:51
2	Y RADIAL	2645.3	2645.3	94.86 %		17:22:51
2	Al 396.153Radial†	-75.4	-10.1	-21.353 ug/L	-21.353 ppb	17:22:51
2	Ca 317.933Radial†	9.3	-1.2	-4.6061 ug/L	-4.6061 ppb	17:22:51
2	Fe 238.204 Radial†	9.4	2.6	72.526 ug/L	72.526 ppb	17:22:51
2	K 766.490 Radial†	2180.8	141.4	64.412 ug/L	64.412 ppb	17:22:31
2	Mg 279.077 IEC†	1.4	-0.1	-7.6611 ug/L	-7.6611 ppb	17:22:51
2	Na 589.592 Radial†	-777.3	-48.0	-15.916 ug/L	-15.916 ppb	17:22:31
2	Sr 421.552†	24.5	1.3	0.0120 ug/L	0.0120 ppb	17:22:31
2	Sc 361.383	818874.8	818874.8	100.54 %		17:23:48
2	Y 371.029	702164.0	702164.0	100.23 %		17:23:48
2	Ag 328.068†	57.0	-153.2	-0.7717 ug/L	-0.7717 ppb	17:23:48
2	As 188.979†	-16.8	0.7	0.4466 ug/L	0.4466 ppb	17:24:08
2	B 249.677†	-250.0	-56.0	-1.6088 ug/L	-1.6088 ppb	17:24:08
2	Ba 233.527†	-9.8	-12.0	-0.1125 ug/L	-0.1125 ppb	17:24:08
2	Be 313.107†	-3502.2	-9.6	-0.0041 ug/L	-0.0041 ppb	17:23:48
2	Cd 226.502†	-163.4	-0.7	-0.0189 ug/L	-0.0189 ppb	17:24:08
2	Co 228.616†	-32.2	10.6	0.2829 ug/L	0.2829 ppb	17:24:08
2	Cr 267.716†	82.1	5.9	0.0839 ug/L	0.0839 ppb	17:24:08
2	Cu 324.752†	5924.3	-87.2	-0.2820 ug/L	-0.2820 ppb	17:23:48
2	Mn 257.610†	411.7	11.8	0.0234 ug/L	0.0234 ppb	17:24:08
2	Mo 202.031†	4.4	-2.8	-0.2457 ug/L	-0.2457 ppb	17:24:08
2	Ni 231.604†	50.5	-19.4	-0.6346 ug/L	-0.6346 ppb	17:24:08



2	P 214.914†	172.9	-5.6	-4.4421 ug/L	-4.4421 ppb	17:24:08
2	Pb 220.353†	-36.3	6.9	1.0936 ug/L	1.0936 ppb	17:24:08
2	S 181.975 Axial†	26.4	-0.6	-1.1413 ug/L	-1.1413 ppb	17:24:08
2	Sb 206.836†	35.4	6.5	2.7919 ug/L	2.7919 ppb	17:24:08
2	Se 196.026†	-21.6	-2.9	-2.2713 ug/L	-2.2713 ppb	17:24:08
2	Si 251.611†	506.5	-36.0	-1.3811 ug/L	-1.3811 ppb	17:24:08
2	Sn 189.927†	12.5	5.3	1.2291 ug/L	1.2291 ppb	17:24:08
2	Ti 334.940†	-962.8	53.8	0.0954 ug/L	0.0954 ppb	17:23:48
2	Tl 190.801†	-30.2	-6.6	-2.6632 ug/L	-2.6632 ppb	17:24:08
2	U 409.014†	-2156.8	-95.3	-2.8548 ug/L	-2.8548 ppb	17:23:48
2	V 292.402†	-1221.6	21.5	0.1529 ug/L	0.1529 ppb	17:23:48
2	Zn 213.857†	521.0	9.6	0.1140 ug/L	0.1140 ppb	17:24:08
2	SiO2†	519.5	-9.3	-0.7506 ug/L	-0.7506 ppb	17:25:14
3	Sc Radial	3174.6	3174.6	94.4 %		17:23:16
3	Y RADIAL	2628.8	2628.8	94.27 %		17:23:16
3	Al 396.153Radial†	-71.6	-6.5	-13.730 ug/L	-13.730 ppb	17:23:16
3	Ca 317.933Radial†	5.1	-5.6	-22.116 ug/L	-22.116 ppb	17:23:16
3	Fe 238.204 Radial†	7.7	0.9	24.768 ug/L	24.768 ppb	17:23:16
3	K 766.490 Radial†	2172.6	145.8	66.449 ug/L	66.449 ppb	17:22:56
3	Mg 279.077 IEC†	-0.5	-2.1	-207.68 ug/L	-207.68 ppb	17:23:16
3	Na 589.592 Radial†	-784.5	-60.4	-20.000 ug/L	-20.000 ppb	17:22:56
3	Sr 421.552†	1.7	-22.7	-0.2102 ug/L	-0.2102 ppb	17:22:56
3	Sc 361.383	812880.2	812880.2	99.804 %		17:24:14
3	Y 371.029	698182.6	698182.6	99.659 %		17:24:14
3	Ag 328.068†	159.7	-49.9	-0.2507 ug/L	-0.2507 ppb	17:24:14
3	As 188.979†	-20.4	-3.0	-1.7235 ug/L	-1.7235 ppb	17:24:34
3	B 249.677†	-269.2	-77.1	-2.2013 ug/L	-2.2013 ppb	17:24:34
3	Ba 233.527†	-11.0	-13.3	-0.1259 ug/L	-0.1259 ppb	17:24:34
3	Be 313.107†	-3441.2	25.8	0.0111 ug/L	0.0111 ppb	17:24:14
3	Cd 226.502†	-146.1	15.4	0.2294 ug/L	0.2294 ppb	17:24:34
3	Co 228.616†	-42.2	0.3	0.0074 ug/L	0.0074 ppb	17:24:34
3	Cr 267.716†	65.5	-10.1	-0.1351 ug/L	-0.1351 ppb	17:24:34
3	Cu 324.752†	5876.9	-91.2	-0.2998 ug/L	-0.2998 ppb	17:24:14
3	Mn 257.610†	393.8	-3.1	0.0067 ug/L	0.0067 ppb	17:24:34
3	Mo 202.031†	4.6	-2.6	-0.2324 ug/L	-0.2324 ppb	17:24:34
3	Ni 231.604†	52.8	-16.8	-0.5470 ug/L	-0.5470 ppb	17:24:34
3	P 214.914†	184.1	6.8	5.4649 ug/L	5.4649 ppb	17:24:34
3	Pb 220.353†	-45.7	-2.8	-0.4620 ug/L	-0.4620 ppb	17:24:34
3	S 181.975 Axial†	28.0	1.2	2.1756 ug/L	2.1756 ppb	17:24:34
3	Sb 206.836†	33.5	4.9	2.1016 ug/L	2.1016 ppb	17:24:34
3	Se 196.026†	-18.4	0.2	0.2630 ug/L	0.2630 ppb	17:24:34
3	Si 251.611†	515.0	-23.8	-0.9109 ug/L	-0.9109 ppb	17:24:34
3	Sn 189.927†	12.9	5.7	1.3355 ug/L	1.3355 ppb	17:24:34
3	Ti 334.940†	-1086.6	-77.3	-0.1216 ug/L	-0.1216 ppb	17:24:14
3	Tl 190.801†	-20.6	2.8	1.1121 ug/L	1.1121 ppb	17:24:34
3	U 409.014†	-2026.4	19.6	0.5819 ug/L	0.5819 ppb	17:24:14
3	V 292.402†	-1185.3	48.9	0.3837 ug/L	0.3837 ppb	17:24:14
3	Zn 213.857†	503.5	-4.1	-0.0514 ug/L	-0.0514 ppb	17:24:34
3	SiO2†	524.3	-0.6	-0.0412 ug/L	-0.0412 ppb	17:25:34

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	811220.7	99.600 %	1.0565			1.06%
Sc Radial	3190.9	94.9 %	0.46			0.48%
Y 371.029	695977.7	99.344 %	1.0755			1.08%
Y RADIAL	2642.8	94.77 %	0.463			0.49%
Ag 328.068†	-78.7	-0.3865 ug/L	0.33838	-0.3865 ppb	0.33838	87.54%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.6	-11.957 ug/L	10.3960	-11.957 ppb	10.3960	86.94%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.7	0.4274 ug/L	2.14134	0.4274 ppb	2.14134	501.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-66.7	-1.9127 ug/L	0.29654	-1.9127 ppb	0.29654	15.50%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-14.2	-0.1342 ug/L	0.02692	-0.1342 ppb	0.02692	20.05%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.2	-0.0072 ug/L	0.02014	-0.0072 ppb	0.02014	278.56%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.2	-8.8022 ug/L	11.78955	-8.8022 ppb	11.78955	133.94%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	6.4	0.0891 ug/L	0.12729	0.0891 ppb	0.12729	142.89%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.1	0.0555 ug/L	0.20763	0.0555 ppb	0.20763	374.26%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.8	-0.0478 ug/L	0.11605	-0.0478 ppb	0.11605	242.99%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-29.9	-0.0939 ug/L	0.34124	-0.0939 ppb	0.34124	363.33%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.4	66.666 ug/L	39.2966	66.666 ppb	39.2966	58.95%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	139.7	63.632 ug/L	3.2779	63.632 ppb	3.2779	5.15%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.6	-55.853 ug/L	134.3756	-55.853 ppb	134.3756	240.59%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	8.5	0.0203 ug/L	0.01234	0.0203 ppb	0.01234	60.73%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.0	0.0940 ug/L	0.57688	0.0940 ppb	0.57688	613.57%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-39.6	-13.132 ug/L	8.6050	-13.132 ppb	8.6050	65.53%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-17.5	-0.5724 ug/L	0.05420	-0.5724 ppb	0.05420	9.47%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	2.7	2.1008 ug/L	5.66705	2.1008 ppb	5.66705	269.76%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	1.7	0.2618 ug/L	0.78338	0.2618 ppb	0.78338	299.22%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.6	6.5246 ug/L	10.53653	6.5246 ppb	10.53653	161.49%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.6	1.5896 ug/L	1.52415	1.5896 ppb	1.52415	95.88%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.3	-0.0606 ug/L	2.06793	-0.0606 ppb	2.06793	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-23.1	-0.8877 ug/L	0.50543	-0.8877 ppb	0.50543	56.94%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	6.2	1.4475 ug/L	0.29101	1.4475 ppb	0.29101	20.10%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-14.0	-0.1295 ug/L	0.12295	-0.1295 ppb	0.12295	94.91%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-16.9	-0.0252 ug/L	0.11050	-0.0252 ppb	0.11050	438.34%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-3.2	-1.3009 ug/L	2.09558	-1.3009 ppb	2.09558	161.08%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-75.7	-2.2684 ug/L	2.60706	-2.2684 ppb	2.60706	114.93%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	19.7	0.1446 ug/L	0.24337	0.1446 ppb	0.24337	168.34%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2.2	0.0215 ug/L	0.08441	0.0215 ppb	0.08441	392.42%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-4.9	-0.4048 ug/L	0.35503	-0.4048 ppb	0.35503	87.71%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 19  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 3/8/2010 18:24:01  
 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	3208.8	3208.8	95.4 %		18:26:14
1	Y RADIAL	2643.9	2643.9	94.81 %		18:26:14
1	Al 396.153Radial†	2270.3	2449.1	5175.0 ug/L	5175.0 ppb	18:25:54
1	Ca 317.933Radial†	1279.3	1330.0	5229.8 ug/L	5229.8 ppb	18:26:14
1	Fe 238.204 Radial†	186.1	187.8	5290.1 ug/L	5290.1 ppb	18:26:14
1	K 766.490 Radial†	13105.3	11581.0	5269.0 ug/L	5269.0 ppb	18:25:54
1	Mg 279.077 IEC†	52.3	53.3	5208.4 ug/L	5208.4 ppb	18:26:14
1	Na 589.592 Radial†	28447.8	30589.8	10133 ug/L	10133 ppb	18:25:54
1	Sr 421.552†	50996.8	53430.3	495.45 ug/L	495.45 ppb	18:25:54
1	Sc 361.383	816613.7	816613.7	100.26 %		18:27:11
1	Y 371.029	691514.1	691514.1	98.707 %		18:27:11
1	Ag 328.068†	98718.0	98250.2	514.50 ug/L	514.50 ppb	18:27:16
1	As 188.979†	874.1	889.3	517.60 ug/L	517.60 ppb	18:27:36
1	B 249.677†	17324.0	17471.4	495.75 ug/L	495.75 ppb	18:27:16
1	Ba 233.527†	53502.4	53360.4	514.53 ug/L	514.53 ppb	18:27:16
1	Be 313.107†	1149038.5	1149510.1	510.53 ug/L	510.53 ppb	18:27:11
1	Cd 226.502†	34295.1	34367.3	516.58 ug/L	516.58 ppb	18:27:16
1	Co 228.616†	19550.7	19542.2	524.18 ug/L	524.18 ppb	18:27:16
1	Cr 267.716†	38290.6	38114.9	514.73 ug/L	514.73 ppb	18:27:16
1	Cu 324.752†	161753.4	155351.0	512.14 ug/L	512.14 ppb	18:27:16
1	Mn 257.610†	381363.5	379969.4	514.01 ug/L	514.01 ppb	18:27:11
1	Mo 202.031†	5696.3	5674.2	507.60 ug/L	507.60 ppb	18:27:36
1	Ni 231.604†	16111.6	15999.8	522.11 ug/L	522.11 ppb	18:27:16
1	P 214.914†	3421.9	3235.4	2461.1 ug/L	2461.1 ppb	18:27:36
1	Pb 220.353†	3159.7	3194.4	514.07 ug/L	514.07 ppb	18:27:36
1	S 181.975 Axial†	578.4	550.0	1009.1 ug/L	1009.1 ppb	18:27:36
1	Sb 206.836†	1200.1	1168.2	520.02 ug/L	520.02 ppb	18:27:36
1	Se 196.026†	592.6	609.7	534.77 ug/L	534.77 ppb	18:27:36
1	Si 251.611†	66735.2	66021.1	2530.7 ug/L	2530.7 ppb	18:27:16
1	Sn 189.927†	2152.5	2139.7	502.97 ug/L	502.97 ppb	18:27:36
1	Ti 334.940†	285099.3	285365.9	499.48 ug/L	499.48 ppb	18:27:16
1	Tl 190.801†	1259.2	1279.3	516.73 ug/L	516.73 ppb	18:27:36
1	U 409.014†	15772.8	17781.5	529.43 ug/L	529.43 ppb	18:27:16
1	V 292.402†	62566.0	63639.0	518.92 ug/L	518.92 ppb	18:27:16
1	Zn 213.857†	41822.8	41205.0	511.44 ug/L	511.44 ppb	18:27:16
1	SiO2†	66473.7	65774.1	5366.7 ug/L	5366.7 ppb	18:28:44
2	Sc Radial	3214.8	3214.8	95.6 %		18:26:39
2	Y RADIAL	2638.5	2638.5	94.61 %		18:26:39
2	Al 396.153Radial†	2297.3	2473.0	5225.5 ug/L	5225.5 ppb	18:26:19
2	Ca 317.933Radial†	1273.2	1321.1	5194.9 ug/L	5194.9 ppb	18:26:39
2	Fe 238.204 Radial†	183.8	185.0	5214.0 ug/L	5214.0 ppb	18:26:39
2	K 766.490 Radial†	13258.4	11715.9	5330.4 ug/L	5330.4 ppb	18:26:19
2	Mg 279.077 IEC†	51.4	52.3	5107.6 ug/L	5107.6 ppb	18:26:39
2	Na 589.592 Radial†	28699.0	30797.7	10201 ug/L	10201 ppb	18:26:19
2	Sr 421.552†	51484.3	53842.1	499.27 ug/L	499.27 ppb	18:26:19
2	Sc 361.383	813894.5	813894.5	99.928 %		18:27:42
2	Y 371.029	689544.9	689544.9	98.426 %		18:27:42
2	Ag 328.068†	98534.7	98395.7	515.24 ug/L	515.24 ppb	18:27:47
2	As 188.979†	887.8	905.9	527.16 ug/L	527.16 ppb	18:28:07
2	B 249.677†	17323.5	17528.6	497.38 ug/L	497.38 ppb	18:27:47
2	Ba 233.527†	53511.6	53547.9	516.34 ug/L	516.34 ppb	18:27:47
2	Be 313.107†	1144442.4	1148739.7	510.19 ug/L	510.19 ppb	18:27:42
2	Cd 226.502†	34265.0	34451.5	517.86 ug/L	517.86 ppb	18:27:47
2	Co 228.616†	19642.7	19699.5	528.40 ug/L	528.40 ppb	18:27:47
2	Cr 267.716†	38329.2	38281.0	516.97 ug/L	516.97 ppb	18:27:47
2	Cu 324.752†	161258.6	155395.0	512.28 ug/L	512.28 ppb	18:27:47
2	Mn 257.610†	379065.5	378940.6	512.62 ug/L	512.62 ppb	18:27:42
2	Mo 202.031†	5708.6	5705.5	510.39 ug/L	510.39 ppb	18:28:07
2	Ni 231.604†	16107.7	16049.6	523.73 ug/L	523.73 ppb	18:27:47

2	P 214.914†	3445.1	3269.9	2488.5 ug/L	2488.5 ppb	18:28:07
2	Pb 220.353†	3175.9	3221.2	518.39 ug/L	518.39 ppb	18:28:07
2	S 181.975 Axial†	583.9	557.4	1022.7 ug/L	1022.7 ppb	18:28:07
2	Sb 206.836†	1216.9	1189.1	529.08 ug/L	529.08 ppb	18:28:07
2	Se 196.026†	601.8	620.9	544.03 ug/L	544.03 ppb	18:28:07
2	Si 251.611†	66550.5	66058.6	2532.1 ug/L	2532.1 ppb	18:27:47
2	Sn 189.927†	2160.6	2154.9	506.54 ug/L	506.54 ppb	18:28:07
2	Ti 334.940†	284939.1	286155.6	500.87 ug/L	500.87 ppb	18:27:47
2	Tl 190.801†	1266.0	1290.3	521.13 ug/L	521.13 ppb	18:28:07
2	U 409.014†	15688.5	17749.7	528.48 ug/L	528.48 ppb	18:27:47
2	V 292.402†	62594.7	63876.3	520.88 ug/L	520.88 ppb	18:27:47
2	Zn 213.857†	41772.8	41294.3	512.56 ug/L	512.56 ppb	18:27:47
2	SiO2†	66747.4	66269.6	5407.2 ug/L	5407.2 ppb	18:28:49
3	Sc Radial	3217.8	3217.8	95.7 %		18:27:04
3	Y RADIAL	2642.0	2642.0	94.74 %		18:27:04
3	Al 396.153Radial†	2208.1	2377.5	5022.7 ug/L	5022.7 ppb	18:26:44
3	Ca 317.933Radial†	1264.1	1310.4	5152.8 ug/L	5152.8 ppb	18:27:04
3	Fe 238.204 Radial†	184.7	185.7	5233.8 ug/L	5233.8 ppb	18:27:04
3	K 766.490 Radial†	13047.8	11482.8	5224.3 ug/L	5224.3 ppb	18:26:44
3	Mg 279.077 IEC†	50.7	51.5	5032.5 ug/L	5032.5 ppb	18:27:04
3	Na 589.592 Radial†	28044.4	30085.4	9965.5 ug/L	9965.5 ppb	18:26:44
3	Sr 421.552†	49981.2	52220.5	484.23 ug/L	484.23 ppb	18:26:44
3	Sc 361.383	812932.7	812932.7	99.810 %		18:28:13
3	Y 371.029	687730.3	687730.3	98.167 %		18:28:13
3	Ag 328.068†	99086.2	99064.9	518.74 ug/L	518.74 ppb	18:28:18
3	As 188.979†	871.1	890.2	518.15 ug/L	518.15 ppb	18:28:38
3	B 249.677†	17610.2	17836.4	506.14 ug/L	506.14 ppb	18:28:18
3	Ba 233.527†	54009.9	54110.5	521.76 ug/L	521.76 ppb	18:28:18
3	Be 313.107†	1137559.3	1143198.5	507.75 ug/L	507.75 ppb	18:28:13
3	Cd 226.502†	34710.2	34938.1	525.17 ug/L	525.17 ppb	18:28:18
3	Co 228.616†	19813.0	19893.4	533.60 ug/L	533.60 ppb	18:28:18
3	Cr 267.716†	38610.4	38608.2	521.38 ug/L	521.38 ppb	18:28:18
3	Cu 324.752†	162135.5	156464.5	515.80 ug/L	515.80 ppb	18:28:18
3	Mn 257.610†	378088.0	378410.0	511.90 ug/L	511.90 ppb	18:28:13
3	Mo 202.031†	5707.4	5711.1	510.89 ug/L	510.89 ppb	18:28:38
3	Ni 231.604†	16264.2	16225.5	529.47 ug/L	529.47 ppb	18:28:18
3	P 214.914†	3425.3	3254.1	2475.3 ug/L	2475.3 ppb	18:28:38
3	Pb 220.353†	3183.7	3232.7	520.20 ug/L	520.20 ppb	18:28:38
3	S 181.975 Axial†	581.6	555.9	1019.9 ug/L	1019.9 ppb	18:28:38
3	Sb 206.836†	1211.0	1184.6	527.16 ug/L	527.16 ppb	18:28:38
3	Se 196.026†	590.2	609.9	534.74 ug/L	534.74 ppb	18:28:38
3	Si 251.611†	67217.9	66806.1	2560.8 ug/L	2560.8 ppb	18:28:18
3	Sn 189.927†	2153.9	2150.8	505.58 ug/L	505.58 ppb	18:28:38
3	Ti 334.940†	286766.6	288323.9	504.67 ug/L	504.67 ppb	18:28:18
3	Tl 190.801†	1277.2	1303.0	526.23 ug/L	526.23 ppb	18:28:38
3	U 409.014†	15655.6	17735.3	528.04 ug/L	528.04 ppb	18:28:18
3	V 292.402†	62951.3	64307.6	524.34 ug/L	524.34 ppb	18:28:18
3	Zn 213.857†	42040.0	41611.5	516.49 ug/L	516.49 ppb	18:28:18
3	SiO2†	66071.4	65671.2	5358.2 ug/L	5358.2 ppb	18:28:54

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814480.3	100.00 %	0.234			0.23%
Sc Radial	3213.8	95.5 %	0.13			0.14%
Y 371.029	689596.4	98.433 %	0.2701			0.27%
Y RADIAL	2641.5	94.72 %	0.100			0.11%
Ag 328.068†	98570.3	516.16 ug/L	2.268	516.16 ppb	2.268	0.44%
QC value within limits for Ag 328.068 Recovery = 103.23%						
Al 396.153Radial†	2433.2	5141.1 ug/L	105.55	5141.1 ppb	105.55	2.05%
QC value within limits for Al 396.153Radial Recovery = 102.82%						
As 188.979†	895.1	520.97 ug/L	5.369	520.97 ppb	5.369	1.03%
QC value within limits for As 188.979 Recovery = 104.19%						
B 249.677†	17612.1	499.76 ug/L	5.587	499.76 ppb	5.587	1.12%
QC value within limits for B 249.677 Recovery = 99.95%						
Ba 233.527†	53672.9	517.54 ug/L	3.760	517.54 ppb	3.760	0.73%
QC value within limits for Ba 233.527 Recovery = 103.51%						
Be 313.107†	1147149.4	509.49 ug/L	1.520	509.49 ppb	1.520	0.30%
QC value within limits for Be 313.107 Recovery = 101.90%						
Ca 317.933Radial†	1320.5	5192.5 ug/L	38.56	5192.5 ppb	38.56	0.74%

QC value within limits for Ca 317.933 Radial Recovery = 103.85%							
Cd	226.502†	34585.6	519.87 ug/L	4.637	519.87 ppb	4.637	0.89%
QC value within limits for Cd 226.502 Recovery = 103.97%							
Co	228.616†	19711.7	528.73 ug/L	4.716	528.73 ppb	4.716	0.89%
QC value within limits for Co 228.616 Recovery = 105.75%							
Cr	267.716†	38334.7	517.69 ug/L	3.388	517.69 ppb	3.388	0.65%
QC value within limits for Cr 267.716 Recovery = 103.54%							
Cu	324.752†	155736.8	513.41 ug/L	2.078	513.41 ppb	2.078	0.40%
QC value within limits for Cu 324.752 Recovery = 102.68%							
Fe	238.204 Radial†	186.2	5246.0 ug/L	39.50	5246.0 ppb	39.50	0.75%
QC value within limits for Fe 238.204 Radial Recovery = 104.92%							
K	766.490 Radial†	11593.2	5274.6 ug/L	53.27	5274.6 ppb	53.27	1.01%
QC value within limits for K 766.490 Radial Recovery = 105.49%							
Mg	279.077 IEC†	52.3	5116.2 ug/L	88.28	5116.2 ppb	88.28	1.73%
QC value within limits for Mg 279.077 IEC Recovery = 102.32%							
Mn	257.610†	379106.7	512.84 ug/L	1.072	512.84 ppb	1.072	0.21%
QC value within limits for Mn 257.610 Recovery = 102.57%							
Mo	202.031†	5696.9	509.63 ug/L	1.774	509.63 ppb	1.774	0.35%
QC value within limits for Mo 202.031 Recovery = 101.93%							
Na	589.592 Radial†	30491.0	10100 ug/L	121.3	10100 ppb	121.3	1.20%
QC value within limits for Na 589.592 Radial Recovery = 101.00%							
Ni	231.604†	16091.6	525.10 ug/L	3.868	525.10 ppb	3.868	0.74%
QC value within limits for Ni 231.604 Recovery = 105.02%							
P	214.914†	3253.1	2475.0 ug/L	13.72	2475.0 ppb	13.72	0.55%
QC value within limits for P 214.914 Recovery = 99.00%							
Pb	220.353†	3216.1	517.56 ug/L	3.148	517.56 ppb	3.148	0.61%
QC value within limits for Pb 220.353 Recovery = 103.51%							
S	181.975 Axial†	554.4	1017.3 ug/L	7.20	1017.3 ppb	7.20	0.71%
QC value within limits for S 181.975 Axial Recovery = 101.73%							
Sb	206.836†	1180.6	525.42 ug/L	4.776	525.42 ppb	4.776	0.91%
QC value within limits for Sb 206.836 Recovery = 105.08%							
Se	196.026†	613.5	537.85 ug/L	5.356	537.85 ppb	5.356	1.00%
QC value within limits for Se 196.026 Recovery = 107.57%							
Si	251.611†	66295.3	2541.2 ug/L	17.00	2541.2 ppb	17.00	0.67%
QC value within limits for Si 251.611 Recovery = 101.65%							
Sn	189.927†	2148.5	505.03 ug/L	1.844	505.03 ppb	1.844	0.37%
QC value within limits for Sn 189.927 Recovery = 101.01%							
Sr	421.552†	53164.3	492.98 ug/L	7.817	492.98 ppb	7.817	1.59%
QC value within limits for Sr 421.552 Recovery = 98.60%							
Ti	334.940†	286615.1	501.67 ug/L	2.682	501.67 ppb	2.682	0.53%
QC value within limits for Ti 334.940 Recovery = 100.33%							
Tl	190.801†	1290.9	521.36 ug/L	4.751	521.36 ppb	4.751	0.91%
QC value within limits for Tl 190.801 Recovery = 104.27%							
U	409.014†	17755.5	528.65 ug/L	0.710	528.65 ppb	0.710	0.13%
QC value within limits for U 409.014 Recovery = 105.73%							
V	292.402†	63941.0	521.38 ug/L	2.745	521.38 ppb	2.745	0.53%
QC value within limits for V 292.402 Recovery = 104.28%							
Zn	213.857†	41370.3	513.49 ug/L	2.652	513.49 ppb	2.652	0.52%
QC value within limits for Zn 213.857 Recovery = 102.70%							
SiO2†		65905.0	5377.4 ug/L	26.16	5377.4 ppb	26.16	0.49%
QC value within limits for SiO2 Recovery = 100.56%							
All analyte(s) passed QC.							

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/8/2010 18:31:05

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	3247.6	3247.6	96.6 %		18:33:17
1	Y RADIAL	2691.5	2691.5	96.51 %		18:33:17
1	Al 396.153Radial†	-66.5	0.5	1.0677 ug/L	1.0677 ppb	18:33:17
1	Ca 317.933Radial†	4.8	-6.0	-23.763 ug/L	-23.763 ppb	18:33:17
1	Fe 238.204 Radial†	6.6	-0.4	-12.372 ug/L	-12.372 ppb	18:33:17
1	K 766.490 Radial†	2178.9	100.6	45.840 ug/L	45.840 ppb	18:32:57
1	Mg 279.077 IEC†	2.3	0.8	78.420 ug/L	78.420 ppb	18:33:17
1	Na 589.592 Radial†	-751.2	-7.2	-2.3728 ug/L	-2.3728 ppb	18:32:57
1	Sr 421.552†	8.0	-16.3	-0.1508 ug/L	-0.1508 ppb	18:32:57
1	Sc 361.383	795135.5	795135.5	97.625 %		18:34:14
1	Y 371.029	681642.9	681642.9	97.298 %		18:34:14
1	Ag 328.068†	200.7	-4.3	-0.0223 ug/L	-0.0223 ppb	18:34:14
1	As 188.979†	-15.8	1.3	0.7333 ug/L	0.7333 ppb	18:34:34
1	B 249.677†	-318.1	-133.2	-3.7937 ug/L	-3.7937 ppb	18:34:34
1	Ba 233.527†	-11.3	-13.8	-0.1331 ug/L	-0.1331 ppb	18:34:34
1	Be 313.107†	-3423.6	-33.1	-0.0146 ug/L	-0.0146 ppb	18:34:14
1	Cd 226.502†	-161.5	-3.6	-0.0533 ug/L	-0.0533 ppb	18:34:34
1	Co 228.616†	-57.9	-16.7	-0.4470 ug/L	-0.4470 ppb	18:34:34
1	Cr 267.716†	69.8	-4.2	-0.0557 ug/L	-0.0557 ppb	18:34:34
1	Cu 324.752†	5867.4	30.5	0.1026 ug/L	0.1026 ppb	18:34:14
1	Mn 257.610†	410.5	22.8	0.0264 ug/L	0.0264 ppb	18:34:34
1	Mo 202.031†	7.9	0.9	0.0749 ug/L	0.0749 ppb	18:34:34
1	Ni 231.604†	68.9	0.9	0.0289 ug/L	0.0289 ppb	18:34:34
1	P 214.914†	159.9	-13.9	-10.977 ug/L	-10.977 ppb	18:34:34
1	Pb 220.353†	-39.2	2.8	0.4585 ug/L	0.4585 ppb	18:34:34
1	S 181.975 Axial†	27.2	1.1	1.9363 ug/L	1.9363 ppb	18:34:34
1	Sb 206.836†	28.8	0.8	0.3486 ug/L	0.3486 ppb	18:34:34
1	Se 196.026†	-23.0	-5.0	-4.2337 ug/L	-4.2337 ppb	18:34:34
1	Si 251.611†	491.0	-36.8	-1.4150 ug/L	-1.4150 ppb	18:34:34
1	Sn 189.927†	8.5	1.5	0.3600 ug/L	0.3600 ppb	18:34:34
1	Ti 334.940†	-965.4	22.6	0.0321 ug/L	0.0321 ppb	18:34:14
1	Tl 190.801†	-24.5	-1.7	-0.6652 ug/L	-0.6652 ppb	18:34:34
1	U 409.014†	-2165.0	-167.8	-5.0104 ug/L	-5.0104 ppb	18:34:14
1	V 292.402†	-1218.8	-12.0	-0.1015 ug/L	-0.1015 ppb	18:34:14
1	Zn 213.857†	531.6	36.0	0.4525 ug/L	0.4525 ppb	18:34:34
1	SiO2†	498.6	-15.2	-1.2477 ug/L	-1.2477 ppb	18:35:45
2	Sc Radial	3230.3	3230.3	96.0 %		18:33:42
2	Y RADIAL	2675.8	2675.8	95.95 %		18:33:42
2	Al 396.153Radial†	-67.7	-1.1	-2.2912 ug/L	-2.2912 ppb	18:33:42
2	Ca 317.933Radial†	6.1	-4.6	-18.001 ug/L	-18.001 ppb	18:33:42
2	Fe 238.204 Radial†	9.3	2.4	67.673 ug/L	67.673 ppb	18:33:42
2	K 766.490 Radial†	2185.1	119.2	54.324 ug/L	54.324 ppb	18:33:22
2	Mg 279.077 IEC†	2.0	0.5	49.345 ug/L	49.345 ppb	18:33:42
2	Na 589.592 Radial†	-717.1	24.1	7.9887 ug/L	7.9887 ppb	18:33:22
2	Sr 421.552†	2.9	-21.5	-0.1996 ug/L	-0.1996 ppb	18:33:22
2	Sc 361.383	811276.7	811276.7	99.607 %		18:34:39
2	Y 371.029	696223.2	696223.2	99.379 %		18:34:39
2	Ag 328.068†	165.8	-43.5	-0.2059 ug/L	-0.2059 ppb	18:34:39
2	As 188.979†	-14.6	2.8	1.6327 ug/L	1.6327 ppb	18:34:59
2	B 249.677†	-325.8	-134.4	-3.8437 ug/L	-3.8437 ppb	18:34:59
2	Ba 233.527†	-21.6	-23.9	-0.2270 ug/L	-0.2270 ppb	18:34:59
2	Be 313.107†	-3475.6	-15.5	-0.0066 ug/L	-0.0066 ppb	18:34:39
2	Cd 226.502†	-160.5	0.7	0.0044 ug/L	0.0044 ppb	18:34:59
2	Co 228.616†	-45.8	-3.3	-0.0908 ug/L	-0.0908 ppb	18:34:59
2	Cr 267.716†	66.6	-8.9	-0.1178 ug/L	-0.1178 ppb	18:34:59
2	Cu 324.752†	5857.9	-98.7	-0.3232 ug/L	-0.3232 ppb	18:34:39
2	Mn 257.610†	393.4	-2.8	0.0009 ug/L	0.0009 ppb	18:34:59
2	Mo 202.031†	5.7	-1.4	-0.1231 ug/L	-0.1231 ppb	18:34:59
2	Ni 231.604†	58.3	-11.2	-0.3644 ug/L	-0.3644 ppb	18:34:59

2	P 214.914†	168.3	-8.6	-6.8289 ug/L	-6.8289 ppb	18:34:59
2	Pb 220.353†	-48.8	-5.9	-0.9653 ug/L	-0.9653 ppb	18:34:59
2	S 181.975 Axial†	32.2	5.5	10.047 ug/L	10.047 ppb	18:34:59
2	Sb 206.836†	23.0	-5.7	-2.4336 ug/L	-2.4336 ppb	18:34:59
2	Se 196.026†	-16.2	2.4	2.2191 ug/L	2.2191 ppb	18:34:59
2	Si 251.611†	494.6	-43.2	-1.6584 ug/L	-1.6584 ppb	18:34:59
2	Sn 189.927†	7.5	0.3	0.0705 ug/L	0.0705 ppb	18:34:59
2	Ti 334.940†	-943.6	64.1	0.1046 ug/L	0.1046 ppb	18:34:39
2	Tl 190.801†	-22.9	0.5	0.2012 ug/L	0.2012 ppb	18:34:59
2	U 409.014†	-1952.3	89.9	2.6788 ug/L	2.6788 ppb	18:34:39
2	V 292.402†	-1186.9	44.9	0.3556 ug/L	0.3556 ppb	18:34:39
2	Zn 213.857†	521.6	15.0	0.1811 ug/L	0.1811 ppb	18:34:59
2	SiO2†	493.5	-30.5	-2.4888 ug/L	-2.4888 ppb	18:36:05
3	Sc Radial	3240.4	3240.4	96.3 %		18:34:07
3	Y RADIAL	2670.0	2670.0	95.75 %		18:34:07
3	Al 396.153Radial†	-65.2	1.7	3.5255 ug/L	3.5255 ppb	18:34:07
3	Ca 317.933Radial†	10.7	0.1	0.3220 ug/L	0.3220 ppb	18:34:07
3	Fe 238.204 Radial†	10.0	3.1	87.731 ug/L	87.731 ppb	18:34:07
3	K 766.490 Radial†	2178.3	105.0	47.853 ug/L	47.853 ppb	18:33:47
3	Mg 279.077 IEC†	2.9	1.4	138.64 ug/L	138.64 ppb	18:34:07
3	Na 589.592 Radial†	-785.9	-45.0	-14.891 ug/L	-14.891 ppb	18:33:47
3	Sr 421.552†	22.0	-1.7	-0.0154 ug/L	-0.0154 ppb	18:33:47
3	Sc 361.383	818961.9	818961.9	100.55 %		18:35:05
3	Y 371.029	701004.2	701004.2	100.06 %		18:35:05
3	Ag 328.068†	97.8	-112.6	-0.5558 ug/L	-0.5558 ppb	18:35:05
3	As 188.979†	-20.8	-3.2	-1.8395 ug/L	-1.8395 ppb	18:35:25
3	B 249.677†	-316.2	-121.9	-3.4892 ug/L	-3.4892 ppb	18:35:25
3	Ba 233.527†	-4.7	-6.9	-0.0619 ug/L	-0.0619 ppb	18:35:25
3	Be 313.107†	-3541.8	-48.6	-0.0211 ug/L	-0.0211 ppb	18:35:05
3	Cd 226.502†	-165.5	-2.8	-0.0512 ug/L	-0.0512 ppb	18:35:25
3	Co 228.616†	-39.4	3.5	0.0926 ug/L	0.0926 ppb	18:35:25
3	Cr 267.716†	53.3	-22.7	-0.3014 ug/L	-0.3014 ppb	18:35:25
3	Cu 324.752†	5915.5	-96.5	-0.3140 ug/L	-0.3140 ppb	18:35:05
3	Mn 257.610†	391.6	-8.3	-0.0082 ug/L	-0.0082 ppb	18:35:25
3	Mo 202.031†	10.2	3.0	0.2711 ug/L	0.2711 ppb	18:35:25
3	Ni 231.604†	45.7	-24.2	-0.7918 ug/L	-0.7918 ppb	18:35:25
3	P 214.914†	171.3	-7.2	-5.7351 ug/L	-5.7351 ppb	18:35:25
3	Pb 220.353†	-30.8	12.4	1.9784 ug/L	1.9784 ppb	18:35:25
3	S 181.975 Axial†	29.4	2.4	4.4443 ug/L	4.4443 ppb	18:35:25
3	Sb 206.836†	24.8	-4.1	-1.7456 ug/L	-1.7456 ppb	18:35:25
3	Se 196.026†	-25.5	-6.7	-5.4747 ug/L	-5.4747 ppb	18:35:25
3	Si 251.611†	502.2	-40.4	-1.5538 ug/L	-1.5538 ppb	18:35:25
3	Sn 189.927†	11.5	4.2	0.9877 ug/L	0.9877 ppb	18:35:25
3	Ti 334.940†	-906.0	110.4	0.1817 ug/L	0.1817 ppb	18:35:05
3	Tl 190.801†	-22.8	0.7	0.2989 ug/L	0.2989 ppb	18:35:25
3	U 409.014†	-2033.6	27.5	0.8115 ug/L	0.8115 ppb	18:35:05
3	V 292.402†	-1130.6	112.0	0.8965 ug/L	0.8965 ppb	18:35:05
3	Zn 213.857†	509.2	-2.2	-0.0347 ug/L	-0.0347 ppb	18:35:25
3	SiO2†	481.1	-47.4	-3.8870 ug/L	-3.8870 ppb	18:36:25

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808458.0	99.261 %	1.4931			1.50%
Sc Radial	3239.4	96.3 %	0.26			0.27%
Y 371.029	692956.8	98.913 %	1.4396			1.46%
Y RADIAL	2679.1	96.07 %	0.398			0.41%
Ag 328.068†	-53.5	-0.2613 ug/L	0.27107	-0.2613 ppb	0.27107	103.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.4	0.7673 ug/L	2.91995	0.7673 ppb	2.91995	380.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.3	0.1755 ug/L	1.80205	0.1755 ppb	1.80205	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-129.8	-3.7089 ug/L	0.19188	-3.7089 ppb	0.19188	5.17%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-14.9	-0.1406 ug/L	0.08279	-0.1406 ppb	0.08279	58.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-32.4	-0.0141 ug/L	0.00726	-0.0141 ppb	0.00726	51.49%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.5	-13.814 ug/L	12.5766	-13.814 ppb	12.5766	91.04%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-1.9	-0.0334 ug/L	0.03268	-0.0334 ppb	0.03268	97.99%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.5	-0.1484 ug/L	0.27438	-0.1484 ppb	0.27438	184.92%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-11.9	-0.1583 ug/L	0.12775	-0.1583 ppb	0.12775	80.71%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-54.9	-0.1782 ug/L	0.24322	-0.1782 ppb	0.24322	136.49%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.7	47.677 ug/L	52.9627	47.677 ppb	52.9627	111.09%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	108.3	49.339 ug/L	4.4329	49.339 ppb	4.4329	8.98%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.9	88.801 ug/L	45.5421	88.801 ppb	45.5421	51.29%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	3.9	0.0064 ug/L	0.01792	0.0064 ppb	0.01792	281.40%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	0.8	0.0743 ug/L	0.19711	0.0743 ppb	0.19711	265.25%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-9.3	-3.0917 ug/L	11.45680	-3.0917 ppb	11.45680	370.56%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-11.5	-0.3757 ug/L	0.41048	-0.3757 ppb	0.41048	109.25%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-9.9	-7.8471 ug/L	2.76542	-7.8471 ppb	2.76542	35.24%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.1	0.4905 ug/L	1.47208	0.4905 ppb	1.47208	300.10%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.0	5.4760 ug/L	4.15282	5.4760 ppb	4.15282	75.84%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-3.0	-1.2769 ug/L	1.44913	-1.2769 ppb	1.44913	113.49%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.1	-2.4964 ug/L	4.13064	-2.4964 ppb	4.13064	165.46%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-40.1	-1.5424 ug/L	0.12213	-1.5424 ppb	0.12213	7.92%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.0	0.4727 ug/L	0.46886	0.4727 ppb	0.46886	99.18%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-13.2	-0.1219 ug/L	0.09544	-0.1219 ppb	0.09544	78.28%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	65.7	0.1062 ug/L	0.07482	0.1062 ppb	0.07482	70.47%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.1	-0.0551 ug/L	0.53066	-0.0551 ppb	0.53066	963.74%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-16.8	-0.5067 ug/L	4.01050	-0.5067 ppb	4.01050	791.46%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	48.3	0.3835 ug/L	0.49959	0.3835 ppb	0.49959	130.26%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	16.3	0.1997 ug/L	0.24413	0.1997 ppb	0.24413	122.27%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-31.0	-2.5412 ug/L	1.32038	-2.5412 ppb	1.32038	51.96%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.



Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/8/2010 19:38:55

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	3306.4	3306.4	98.3 %		19:41:07
1	Y RADIAL	2725.5	2725.5	97.73 %		19:41:07
1	Al 396.153Radial†	2324.6	2434.2	5143.0 ug/L	5143.0 ppb	19:40:47
1	Ca 317.933Radial†	1300.0	1311.5	5157.0 ug/L	5157.0 ppb	19:41:07
1	Fe 238.204 Radial†	187.5	183.4	5168.8 ug/L	5168.8 ppb	19:41:07
1	K 766.490 Radial†	13261.1	11334.4	5156.7 ug/L	5156.7 ppb	19:40:47
1	Mg 279.077 IEC†	54.7	54.1	5288.9 ug/L	5288.9 ppb	19:41:07
1	Na 589.592 Radial†	28970.5	30242.2	10017 ug/L	10017 ppb	19:40:47
1	Sr 421.552†	52130.4	53007.1	491.53 ug/L	491.53 ppb	19:40:47
1	Sc 361.383	821071.3	821071.3	100.81 %		19:42:04
1	Y 371.029	694040.8	694040.8	99.068 %		19:42:04
1	Ag 328.068†	99728.8	98718.3	516.92 ug/L	516.92 ppb	19:42:09
1	As 188.979†	884.5	894.8	520.77 ug/L	520.77 ppb	19:42:29
1	B 249.677†	17677.1	17727.8	503.06 ug/L	503.06 ppb	19:42:09
1	Ba 233.527†	54387.9	53949.2	520.20 ug/L	520.20 ppb	19:42:09
1	Be 313.107†	1158709.7	1152882.0	512.03 ug/L	512.03 ppb	19:42:04
1	Cd 226.502†	34648.8	34532.4	519.08 ug/L	519.08 ppb	19:42:09
1	Co 228.616†	19881.6	19764.6	530.16 ug/L	530.16 ppb	19:42:09
1	Cr 267.716†	38704.0	38317.6	517.46 ug/L	517.46 ppb	19:42:09
1	Cu 324.752†	163586.0	156293.2	515.24 ug/L	515.24 ppb	19:42:09
1	Mn 257.610†	384577.3	381092.4	515.51 ug/L	515.51 ppb	19:42:04
1	Mo 202.031†	5806.8	5753.0	514.63 ug/L	514.63 ppb	19:42:29
1	Ni 231.604†	16336.0	16135.2	526.52 ug/L	526.52 ppb	19:42:09
1	P 214.914†	3469.7	3264.2	2483.5 ug/L	2483.5 ppb	19:42:29
1	Pb 220.353†	3229.2	3246.3	522.42 ug/L	522.42 ppb	19:42:29
1	S 181.975 Axial†	582.7	551.2	1011.3 ug/L	1011.3 ppb	19:42:29
1	Sb 206.836†	1230.1	1191.5	530.25 ug/L	530.25 ppb	19:42:29
1	Se 196.026†	605.7	619.4	542.69 ug/L	542.69 ppb	19:42:29
1	Si 251.611†	67462.9	66381.6	2544.4 ug/L	2544.4 ppb	19:42:09
1	Sn 189.927†	2185.3	2160.6	507.86 ug/L	507.86 ppb	19:42:29
1	Ti 334.940†	289040.0	287731.2	503.61 ug/L	503.61 ppb	19:42:09
1	Tl 190.801†	1280.8	1294.0	522.61 ug/L	522.61 ppb	19:42:29
1	U 409.014†	15850.7	17773.4	529.19 ug/L	529.19 ppb	19:42:09
1	V 292.402†	63420.0	64147.4	523.13 ug/L	523.13 ppb	19:42:09
1	Zn 213.857†	42362.6	41514.0	515.29 ug/L	515.29 ppb	19:42:09
1	SiO2†	67603.9	66535.3	5428.8 ug/L	5428.8 ppb	19:43:37
2	Sc Radial	3308.4	3308.4	98.4 %		19:41:32
2	Y RADIAL	2727.0	2727.0	97.79 %		19:41:32
2	Al 396.153Radial†	2341.9	2450.3	5177.4 ug/L	5177.4 ppb	19:41:12
2	Ca 317.933Radial†	1302.2	1312.9	5162.7 ug/L	5162.7 ppb	19:41:32
2	Fe 238.204 Radial†	189.6	185.5	5226.2 ug/L	5226.2 ppb	19:41:32
2	K 766.490 Radial†	13493.4	11562.1	5260.4 ug/L	5260.4 ppb	19:41:12
2	Mg 279.077 IEC†	52.7	52.0	5081.9 ug/L	5081.9 ppb	19:41:32
2	Na 589.592 Radial†	29249.8	30507.8	10105 ug/L	10105 ppb	19:41:12
2	Sr 421.552†	52560.2	53411.2	495.27 ug/L	495.27 ppb	19:41:12
2	Sc 361.383	830431.4	830431.4	101.96 %		19:42:35
2	Y 371.029	702623.4	702623.4	100.29 %		19:42:35
2	Ag 328.068†	101488.2	99328.9	520.11 ug/L	520.11 ppb	19:42:40
2	As 188.979†	893.3	893.6	520.13 ug/L	520.13 ppb	19:43:00
2	B 249.677†	17963.5	17811.1	505.42 ug/L	505.42 ppb	19:42:40
2	Ba 233.527†	55031.6	53972.3	520.43 ug/L	520.43 ppb	19:42:40
2	Be 313.107†	1175281.8	1156180.3	513.50 ug/L	513.50 ppb	19:42:35
2	Cd 226.502†	35225.2	34710.4	521.75 ug/L	521.75 ppb	19:42:40
2	Co 228.616†	20188.3	19843.1	532.24 ug/L	532.24 ppb	19:42:40
2	Cr 267.716†	39373.5	38541.5	520.48 ug/L	520.48 ppb	19:42:40
2	Cu 324.752†	166912.2	157726.4	519.96 ug/L	519.96 ppb	19:42:40
2	Mn 257.610†	388721.4	380857.0	515.21 ug/L	515.21 ppb	19:42:35
2	Mo 202.031†	5796.1	5677.5	507.89 ug/L	507.89 ppb	19:43:00
2	Ni 231.604†	16544.7	16157.2	527.24 ug/L	527.24 ppb	19:42:40

2	P 214.914†	3489.1	3244.5	2466.8 ug/L	2466.8 ppb	19:43:00
2	Pb 220.353†	3234.1	3215.0	517.38 ug/L	517.38 ppb	19:43:00
2	S 181.975 Axial†	590.3	552.1	1013.0 ug/L	1013.0 ppb	19:43:00
2	Sb 206.836†	1229.5	1177.1	523.84 ug/L	523.84 ppb	19:43:00
2	Se 196.026†	591.7	599.0	525.51 ug/L	525.51 ppb	19:43:00
2	Si 251.611†	68592.8	66735.5	2558.1 ug/L	2558.1 ppb	19:42:40
2	Sn 189.927†	2187.1	2137.9	502.53 ug/L	502.53 ppb	19:43:00
2	Ti 334.940†	293696.3	289066.3	505.96 ug/L	505.96 ppb	19:42:40
2	Tl 190.801†	1290.2	1288.9	520.57 ug/L	520.57 ppb	19:43:00
2	U 409.014†	16440.8	18174.9	541.17 ug/L	541.17 ppb	19:42:40
2	V 292.402†	64442.0	64440.6	525.40 ug/L	525.40 ppb	19:42:40
2	Zn 213.857†	42919.8	41586.8	516.19 ug/L	516.19 ppb	19:42:40
2	SiO2†	67934.9	66104.0	5393.7 ug/L	5393.7 ppb	19:43:42
3	Sc Radial	3329.3	3329.3	99.0 %		19:41:57
3	Y RADIAL	2743.4	2743.4	98.37 %		19:41:57
3	Al 396.153Radial†	2300.3	2393.4	5056.6 ug/L	5056.6 ppb	19:41:37
3	Ca 317.933Radial†	1310.3	1312.8	5162.0 ug/L	5162.0 ppb	19:41:57
3	Fe 238.204 Radial†	190.2	184.8	5208.5 ug/L	5208.5 ppb	19:41:57
3	K 766.490 Radial†	13311.2	11292.0	5137.5 ug/L	5137.5 ppb	19:41:37
3	Mg 279.077 IEC†	55.9	54.9	5369.0 ug/L	5369.0 ppb	19:41:57
3	Na 589.592 Radial†	28706.2	29772.1	9861.7 ug/L	9861.7 ppb	19:41:37
3	Sr 421.552†	51592.3	52098.2	483.10 ug/L	483.10 ppb	19:41:37
3	Sc 361.383	831946.7	831946.7	102.14 %		19:43:06
3	Y 371.029	702924.0	702924.0	100.34 %		19:43:06
3	Ag 328.068†	100364.1	98047.0	513.42 ug/L	513.42 ppb	19:43:11
3	As 188.979†	902.6	901.1	524.41 ug/L	524.41 ppb	19:43:31
3	B 249.677†	17784.0	17603.3	499.52 ug/L	499.52 ppb	19:43:11
3	Ba 233.527†	54648.0	53498.4	515.86 ug/L	515.86 ppb	19:43:11
3	Be 313.107†	1179593.4	1158301.7	514.43 ug/L	514.43 ppb	19:43:06
3	Cd 226.502†	34951.5	34379.5	516.78 ug/L	516.78 ppb	19:43:11
3	Co 228.616†	20010.4	19632.9	526.61 ug/L	526.61 ppb	19:43:11
3	Cr 267.716†	39036.4	38141.1	515.08 ug/L	515.08 ppb	19:43:11
3	Cu 324.752†	165080.4	155634.9	513.07 ug/L	513.07 ppb	19:43:11
3	Mn 257.610†	391375.4	382760.8	517.77 ug/L	517.77 ppb	19:43:06
3	Mo 202.031†	5803.6	5674.6	507.63 ug/L	507.63 ppb	19:43:31
3	Ni 231.604†	16499.9	16083.8	524.85 ug/L	524.85 ppb	19:43:11
3	P 214.914†	3491.5	3240.6	2465.1 ug/L	2465.1 ppb	19:43:31
3	Pb 220.353†	3229.7	3204.9	515.73 ug/L	515.73 ppb	19:43:31
3	S 181.975 Axial†	583.0	544.0	998.01 ug/L	998.01 ppb	19:43:31
3	Sb 206.836†	1231.4	1176.8	523.69 ug/L	523.69 ppb	19:43:31
3	Se 196.026†	595.3	601.5	527.52 ug/L	527.52 ppb	19:43:31
3	Si 251.611†	68043.7	66075.4	2532.8 ug/L	2532.8 ppb	19:43:11
3	Sn 189.927†	2189.1	2136.0	502.08 ug/L	502.08 ppb	19:43:31
3	Ti 334.940†	291339.8	286234.6	500.98 ug/L	500.98 ppb	19:43:11
3	Tl 190.801†	1279.6	1276.2	515.49 ug/L	515.49 ppb	19:43:31
3	U 409.014†	16086.8	17799.0	529.96 ug/L	529.96 ppb	19:43:11
3	V 292.402†	63821.8	63718.4	519.58 ug/L	519.58 ppb	19:43:11
3	Zn 213.857†	42687.5	41282.7	512.41 ug/L	512.41 ppb	19:43:11
3	SiO2†	69027.9	67052.7	5471.3 ug/L	5471.3 ppb	19:43:47

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	827816.5	101.64 %	0.723			0.71%
Sc Radial	3314.7	98.5 %	0.38			0.38%
Y 371.029	699862.7	99.899 %	0.7200			0.72%
Y RADIAL	2731.9	97.97 %	0.356			0.36%
Ag 328.068†	98698.1	516.81 ug/L	3.346	516.81 ppb	3.346	0.65%
QC value within limits for Ag 328.068 Recovery = 103.36%						
Al 396.153Radial†	2425.9	5125.7 ug/L	62.23	5125.7 ppb	62.23	1.21%
QC value within limits for Al 396.153Radial Recovery = 102.51%						
As 188.979†	896.5	521.77 ug/L	2.308	521.77 ppb	2.308	0.44%
QC value within limits for As 188.979 Recovery = 104.35%						
B 249.677†	17714.1	502.67 ug/L	2.973	502.67 ppb	2.973	0.59%
QC value within limits for B 249.677 Recovery = 100.53%						
Ba 233.527†	53806.6	518.83 ug/L	2.576	518.83 ppb	2.576	0.50%
QC value within limits for Ba 233.527 Recovery = 103.77%						
Be 313.107†	1155788.0	513.32 ug/L	1.208	513.32 ppb	1.208	0.24%
QC value within limits for Be 313.107 Recovery = 102.66%						
Ca 317.933Radial†	1312.4	5160.6 ug/L	3.13	5160.6 ppb	3.13	0.06%

QC value within limits for Ca 317.933 Radial Recovery = 103.21%							
Cd	226.502†	34540.8	519.20 ug/L	2.491	519.20 ppb	2.491	0.48%
QC value within limits for Cd 226.502 Recovery = 103.84%							
Co	228.616†	19746.9	529.67 ug/L	2.845	529.67 ppb	2.845	0.54%
QC value within limits for Co 228.616 Recovery = 105.93%							
Cr	267.716†	38333.4	517.67 ug/L	2.708	517.67 ppb	2.708	0.52%
QC value within limits for Cr 267.716 Recovery = 103.53%							
Cu	324.752†	156551.5	516.09 ug/L	3.523	516.09 ppb	3.523	0.68%
QC value within limits for Cu 324.752 Recovery = 103.22%							
Fe	238.204 Radial†	184.6	5201.2 ug/L	29.40	5201.2 ppb	29.40	0.57%
QC value within limits for Fe 238.204 Radial Recovery = 104.02%							
K	766.490 Radial†	11396.2	5184.9 ug/L	66.15	5184.9 ppb	66.15	1.28%
QC value within limits for K 766.490 Radial Recovery = 103.70%							
Mg	279.077 IEC†	53.7	5246.6 ug/L	148.18	5246.6 ppb	148.18	2.82%
QC value within limits for Mg 279.077 IEC Recovery = 104.93%							
Mn	257.610†	381570.1	516.17 ug/L	1.399	516.17 ppb	1.399	0.27%
QC value within limits for Mn 257.610 Recovery = 103.23%							
Mo	202.031†	5701.7	510.05 ug/L	3.971	510.05 ppb	3.971	0.78%
QC value within limits for Mo 202.031 Recovery = 102.01%							
Na	589.592 Radial†	30174.0	9994.9 ug/L	123.40	9994.9 ppb	123.40	1.23%
QC value within limits for Na 589.592 Radial Recovery = 99.95%							
Ni	231.604†	16125.4	526.21 ug/L	1.228	526.21 ppb	1.228	0.23%
QC value within limits for Ni 231.604 Recovery = 105.24%							
P	214.914†	3249.8	2471.8 ug/L	10.16	2471.8 ppb	10.16	0.41%
QC value within limits for P 214.914 Recovery = 98.87%							
Pb	220.353†	3222.0	518.51 ug/L	3.482	518.51 ppb	3.482	0.67%
QC value within limits for Pb 220.353 Recovery = 103.70%							
S	181.975 Axial†	549.1	1007.4 ug/L	8.21	1007.4 ppb	8.21	0.81%
QC value within limits for S 181.975 Axial Recovery = 100.74%							
Sb	206.836†	1181.8	525.93 ug/L	3.748	525.93 ppb	3.748	0.71%
QC value within limits for Sb 206.836 Recovery = 105.19%							
Se	196.026†	606.6	531.91 ug/L	9.394	531.91 ppb	9.394	1.77%
QC value within limits for Se 196.026 Recovery = 106.38%							
Si	251.611†	66397.5	2545.1 ug/L	12.70	2545.1 ppb	12.70	0.50%
QC value within limits for Si 251.611 Recovery = 101.80%							
Sn	189.927†	2144.8	504.16 ug/L	3.215	504.16 ppb	3.215	0.64%
QC value within limits for Sn 189.927 Recovery = 100.83%							
Sr	421.552†	52838.8	489.97 ug/L	6.236	489.97 ppb	6.236	1.27%
QC value within limits for Sr 421.552 Recovery = 97.99%							
Ti	334.940†	287677.4	503.52 ug/L	2.489	503.52 ppb	2.489	0.49%
QC value within limits for Ti 334.940 Recovery = 100.70%							
Tl	190.801†	1286.3	519.56 ug/L	3.665	519.56 ppb	3.665	0.71%
QC value within limits for Tl 190.801 Recovery = 103.91%							
U	409.014†	17915.7	533.44 ug/L	6.706	533.44 ppb	6.706	1.26%
QC value within limits for U 409.014 Recovery = 106.69%							
V	292.402†	64102.1	522.70 ug/L	2.934	522.70 ppb	2.934	0.56%
QC value within limits for V 292.402 Recovery = 104.54%							
Zn	213.857†	41461.2	514.63 ug/L	1.977	514.63 ppb	1.977	0.38%
QC value within limits for Zn 213.857 Recovery = 102.93%							
SiO2†		66564.0	5431.3 ug/L	38.87	5431.3 ppb	38.87	0.72%
QC value within limits for SiO2 Recovery = 101.57%							

All analyte(s) passed QC.

Sequence No.: 10  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 6  
 Date Collected: 3/8/2010 19:45:56  
 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	3322.7	3322.7	98.8 %		19:48:08
1	Y RADIAL	2760.8	2760.8	99.00 %		19:48:08
1	Al 396.153Radial†	-63.9	4.6	9.7878 ug/L	9.7878 ppb	19:48:08
1	Ca 317.933Radial†	14.1	3.3	12.857 ug/L	12.857 ppb	19:48:08
1	Fe 238.204 Radial†	10.7	3.6	100.16 ug/L	100.16 ppb	19:48:08
1	K 766.490 Radial†	2165.6	36.2	16.465 ug/L	16.465 ppb	19:47:48
1	Mg 279.077 IEC†	3.8	2.3	227.26 ug/L	227.26 ppb	19:48:08
1	Na 589.592 Radial†	-711.9	50.1	16.611 ug/L	16.611 ppb	19:47:48
1	Sr 421.552†	29.9	5.7	0.0528 ug/L	0.0528 ppb	19:47:48
1	Sc 361.383	827308.0	827308.0	101.57 %		19:49:05
1	Y 371.029	708669.8	708669.8	101.16 %		19:49:05
1	Ag 328.068†	221.2	7.8	0.0694 ug/L	0.0694 ppb	19:49:05
1	As 188.979†	-18.4	-0.6	-0.3500 ug/L	-0.3500 ppb	19:49:25
1	B 249.677†	-282.5	-85.5	-2.4529 ug/L	-2.4529 ppb	19:49:25
1	Ba 233.527†	-10.2	-12.2	-0.1133 ug/L	-0.1133 ppb	19:49:25
1	Be 313.107†	-3489.3	38.6	0.0170 ug/L	0.0170 ppb	19:49:05
1	Cd 226.502†	-156.6	7.6	0.1053 ug/L	0.1053 ppb	19:49:25
1	Co 228.616†	-44.4	-1.0	-0.0265 ug/L	-0.0265 ppb	19:49:25
1	Cr 267.716†	78.2	1.3	0.0200 ug/L	0.0200 ppb	19:49:25
1	Cu 324.752†	5921.7	-149.8	-0.4914 ug/L	-0.4914 ppb	19:49:05
1	Mn 257.610†	394.2	-9.6	-0.0123 ug/L	-0.0123 ppb	19:49:25
1	Mo 202.031†	22.1	14.6	1.3112 ug/L	1.3112 ppb	19:49:25
1	Ni 231.604†	64.0	-6.7	-0.2180 ug/L	-0.2180 ppb	19:49:25
1	P 214.914†	176.3	-4.1	-3.2027 ug/L	-3.2027 ppb	19:49:25
1	Pb 220.353†	-38.7	4.9	0.7840 ug/L	0.7840 ppb	19:49:25
1	S 181.975 Axial†	28.2	0.9	1.6280 ug/L	1.6280 ppb	19:49:25
1	Sb 206.836†	29.9	0.7	0.3171 ug/L	0.3171 ppb	19:49:25
1	Se 196.026†	-19.5	-0.5	-0.1809 ug/L	-0.1809 ppb	19:49:25
1	Si 251.611†	504.9	-42.7	-1.6574 ug/L	-1.6574 ppb	19:49:25
1	Sn 189.927†	3.8	-3.5	-0.8218 ug/L	-0.8218 ppb	19:49:25
1	Ti 334.940†	-1051.4	-23.6	-0.0606 ug/L	-0.0606 ppb	19:49:05
1	Tl 190.801†	-25.0	-1.2	-0.4798 ug/L	-0.4798 ppb	19:49:25
1	U 409.014†	-1895.6	183.7	5.4754 ug/L	5.4754 ppb	19:49:05
1	V 292.402†	-1181.2	73.6	0.6110 ug/L	0.6110 ppb	19:49:05
1	Zn 213.857†	526.1	9.4	0.1050 ug/L	0.1050 ppb	19:49:25
1	SiO2†	506.4	-27.4	-2.2780 ug/L	-2.2780 ppb	19:50:36
2	Sc Radial	3263.1	3263.1	97.0 %		19:48:33
2	Y RADIAL	2710.8	2710.8	97.21 %		19:48:33
2	Al 396.153Radial†	-73.3	-6.2	-13.115 ug/L	-13.115 ppb	19:48:33
2	Ca 317.933Radial†	9.9	-0.8	-3.1082 ug/L	-3.1082 ppb	19:48:33
2	Fe 238.204 Radial†	9.0	2.0	55.938 ug/L	55.938 ppb	19:48:33
2	K 766.490 Radial†	2139.3	49.1	22.342 ug/L	22.342 ppb	19:48:13
2	Mg 279.077 IEC†	-1.5	-3.1	-299.83 ug/L	-299.83 ppb	19:48:33
2	Na 589.592 Radial†	-727.5	21.0	6.9443 ug/L	6.9443 ppb	19:48:13
2	Sr 421.552†	29.6	6.0	0.0552 ug/L	0.0552 ppb	19:48:13
2	Sc 361.383	842932.5	842932.5	103.49 %		19:49:30
2	Y 371.029	722693.1	722693.1	103.16 %		19:49:30
2	Ag 328.068†	108.9	-104.7	-0.5281 ug/L	-0.5281 ppb	19:49:30
2	As 188.979†	-24.2	-5.9	-3.3980 ug/L	-3.3980 ppb	19:49:50
2	B 249.677†	-279.4	-77.4	-2.2147 ug/L	-2.2147 ppb	19:49:50
2	Ba 233.527†	-20.3	-21.9	-0.2074 ug/L	-0.2074 ppb	19:49:50
2	Be 313.107†	-3500.2	91.7	0.0409 ug/L	0.0409 ppb	19:49:30
2	Cd 226.502†	-154.0	13.0	0.1899 ug/L	0.1899 ppb	19:49:50
2	Co 228.616†	-48.5	-4.3	-0.1135 ug/L	-0.1135 ppb	19:49:50
2	Cr 267.716†	71.5	-6.6	-0.0872 ug/L	-0.0872 ppb	19:49:50
2	Cu 324.752†	5922.0	-257.5	-0.8478 ug/L	-0.8478 ppb	19:49:30
2	Mn 257.610†	390.6	-20.3	-0.0097 ug/L	-0.0097 ppb	19:49:50
2	Mo 202.031†	16.5	8.8	0.7895 ug/L	0.7895 ppb	19:49:50
2	Ni 231.604†	60.5	-11.3	-0.3678 ug/L	-0.3678 ppb	19:49:50

2	P 214.914†	183.7	-0.1	0.0558 ug/L	0.0558 ppb	19:49:50
2	Pb 220.353†	-44.4	0.1	0.0073 ug/L	0.0073 ppb	19:49:50
2	S 181.975 Axial†	33.5	5.6	10.204 ug/L	10.204 ppb	19:49:50
2	Sb 206.836†	36.3	6.3	2.7390 ug/L	2.7390 ppb	19:49:50
2	Se 196.026†	-20.9	-1.6	-1.1838 ug/L	-1.1838 ppb	19:49:50
2	Si 251.611†	474.1	-81.6	-3.1469 ug/L	-3.1469 ppb	19:49:50
2	Sn 189.927†	12.2	4.6	1.0720 ug/L	1.0720 ppb	19:49:50
2	Ti 334.940†	-990.8	54.1	0.1174 ug/L	0.1174 ppb	19:49:30
2	Tl 190.801†	-26.3	-1.9	-0.7802 ug/L	-0.7802 ppb	19:49:50
2	U 409.014†	-2012.7	105.1	3.1345 ug/L	3.1345 ppb	19:49:30
2	V 292.402†	-1214.6	62.8	0.5087 ug/L	0.5087 ppb	19:49:30
2	Zn 213.857†	527.2	0.9	0.0060 ug/L	0.0060 ppb	19:49:50
2	SiO2†	487.3	-55.1	-4.5294 ug/L	-4.5294 ppb	19:50:56
3	Sc Radial	3321.9	3321.9	98.8 %		19:48:58
3	Y RADIAL	2756.4	2756.4	98.84 %		19:48:58
3	Al 396.153Radial†	-63.2	5.4	11.461 ug/L	11.461 ppb	19:48:58
3	Ca 317.933Radial†	13.7	2.9	11.404 ug/L	11.404 ppb	19:48:58
3	Fe 238.204 Radial†	11.1	4.0	111.41 ug/L	111.41 ppb	19:48:58
3	K 766.490 Radial†	2113.7	-15.9	-7.2353 ug/L	-7.2353 ppb	19:48:38
3	Mg 279.077 IEC†	1.6	0.1	9.1699 ug/L	9.1699 ppb	19:48:58
3	Na 589.592 Radial†	-723.1	38.6	12.793 ug/L	12.793 ppb	19:48:38
3	Sr 421.552†	15.0	-9.3	-0.0868 ug/L	-0.0868 ppb	19:48:38
3	Sc 361.383	839428.3	839428.3	103.06 %		19:49:55
3	Y 371.029	720349.8	720349.8	102.82 %		19:49:55
3	Ag 328.068†	145.3	-68.9	-0.3241 ug/L	-0.3241 ppb	19:49:55
3	As 188.979†	-20.8	-2.8	-1.5633 ug/L	-1.5633 ppb	19:50:15
3	B 249.677†	-308.2	-106.4	-3.0541 ug/L	-3.0541 ppb	19:50:15
3	Ba 233.527†	-20.1	-21.7	-0.2040 ug/L	-0.2040 ppb	19:50:15
3	Be 313.107†	-3463.5	113.3	0.0502 ug/L	0.0502 ppb	19:49:55
3	Cd 226.502†	-158.9	7.7	0.1042 ug/L	0.1042 ppb	19:50:15
3	Co 228.616†	-27.1	16.3	0.4380 ug/L	0.4380 ppb	19:50:15
3	Cr 267.716†	78.6	0.6	0.0118 ug/L	0.0118 ppb	19:50:15
3	Cu 324.752†	5920.3	-235.4	-0.7720 ug/L	-0.7720 ppb	19:49:55
3	Mn 257.610†	398.5	-11.0	-0.0043 ug/L	-0.0043 ppb	19:50:15
3	Mo 202.031†	13.9	6.3	0.5748 ug/L	0.5748 ppb	19:50:15
3	Ni 231.604†	57.4	-14.0	-0.4577 ug/L	-0.4577 ppb	19:50:15
3	P 214.914†	181.6	-1.4	-1.0484 ug/L	-1.0484 ppb	19:50:15
3	Pb 220.353†	-27.3	16.5	2.6332 ug/L	2.6332 ppb	19:50:15
3	S 181.975 Axial†	25.1	-2.4	-4.4908 ug/L	-4.4908 ppb	19:50:15
3	Sb 206.836†	28.0	-1.5	-0.6612 ug/L	-0.6612 ppb	19:50:15
3	Se 196.026†	-17.2	2.0	1.9749 ug/L	1.9749 ppb	19:50:15
3	Si 251.611†	491.9	-62.5	-2.4085 ug/L	-2.4085 ppb	19:50:15
3	Sn 189.927†	4.7	-2.7	-0.6325 ug/L	-0.6325 ppb	19:50:15
3	Ti 334.940†	-1029.7	12.4	0.0210 ug/L	0.0210 ppb	19:49:55
3	Tl 190.801†	-20.2	3.9	1.5485 ug/L	1.5485 ppb	19:50:15
3	U 409.014†	-1993.4	115.7	3.4448 ug/L	3.4448 ppb	19:49:55
3	V 292.402†	-1180.0	91.5	0.7349 ug/L	0.7349 ppb	19:49:55
3	Zn 213.857†	533.5	9.1	0.1010 ug/L	0.1010 ppb	19:50:15
3	SiO2†	486.8	-53.6	-4.3962 ug/L	-4.3962 ppb	19:51:16

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836556.3	102.71 %		1.007			0.98%
Sc Radial	3302.6	98.2 %		1.02			1.04%
Y 371.029	717237.6	102.38 %		1.072			1.05%
Y RADIAL	2742.6	98.35 %		0.993			1.01%
Ag 328.068†	-55.3	-0.2609 ug/L		0.30375	-0.2609 ppb	0.30375	116.41%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.3	2.7114 ug/L		13.73116	2.7114 ppb	13.73116	506.43%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.1	-1.7704 ug/L		1.53452	-1.7704 ppb	1.53452	86.68%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-89.8	-2.5739 ug/L		0.43261	-2.5739 ppb	0.43261	16.81%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-18.6	-0.1749 ug/L		0.05336	-0.1749 ppb	0.05336	30.50%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	81.2	0.0360 ug/L		0.01713	0.0360 ppb	0.01713	47.52%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	1.8	7.0510 ug/L		8.82810	7.0510 ppb	8.82810	125.20%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	9.4	0.1331 ug/L	0.04914	0.1331 ppb	0.04914	36.91%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	3.7	0.0993 ug/L	0.29649	0.0993 ppb	0.29649	298.53%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.6	-0.0185 ug/L	0.05971	-0.0185 ppb	0.05971	323.46%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-214.2	-0.7037 ug/L	0.18773	-0.7037 ppb	0.18773	26.68%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3.2	89.170 ug/L	29.3242	89.170 ppb	29.3242	32.89%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	23.1	10.524 ug/L	15.6582	10.524 ppb	15.6582	148.79%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.2	-21.132 ug/L	264.8482	-21.132 ppb	264.8482	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-13.6	-0.0088 ug/L	0.00410	-0.0088 ppb	0.00410	46.73%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.9	0.8918 ug/L	0.37869	0.8918 ppb	0.37869	42.46%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	36.6	12.116 ug/L	4.8685	12.116 ppb	4.8685	40.18%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-10.7	-0.3478 ug/L	0.12108	-0.3478 ppb	0.12108	34.81%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-1.9	-1.3984 ug/L	1.65719	-1.3984 ppb	1.65719	118.50%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	7.2	1.1415 ug/L	1.34892	1.1415 ppb	1.34892	118.17%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.3	2.4472 ug/L	7.38176	2.4472 ppb	7.38176	301.64%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.8	0.7983 ug/L	1.75044	0.7983 ppb	1.75044	219.27%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.1	0.2034 ug/L	1.61406	0.2034 ppb	1.61406	793.62%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-62.3	-2.4043 ug/L	0.74477	-2.4043 ppb	0.74477	30.98%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.5	-0.1275 ug/L	1.04305	-0.1275 ppb	1.04305	818.36%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	0.8	0.0071 ug/L	0.08128	0.0071 ppb	0.08128	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	14.3	0.0259 ug/L	0.08909	0.0259 ppb	0.08909	343.55%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.2	0.0962 ug/L	1.26670	0.0962 ppb	1.26670	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	134.9	4.0182 ug/L	1.27145	4.0182 ppb	1.27145	31.64%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	76.0	0.6182 ug/L	0.11329	0.6182 ppb	0.11329	18.32%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	6.5	0.0707 ug/L	0.05607	0.0707 ppb	0.05607	79.34%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-45.4	-3.7345 ug/L	1.26312	-3.7345 ppb	1.26312	33.82%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/8/2010 20:41:24

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	3366.5	3366.5	100 %		20:43:36
1	Y RADIAL	2770.7	2770.7	99.35 %		20:43:36
1	Al 396.153Radial†	2275.8	2343.2	4949.8 ug/L	4949.8 ppb	20:43:16
1	Ca 317.933Radial†	1299.4	1287.3	5061.7 ug/L	5061.7 ppb	20:43:36
1	Fe 238.204 Radial†	184.6	177.2	4993.5 ug/L	4993.5 ppb	20:43:36
1	K 766.490 Radial†	13244.6	11076.9	5039.6 ug/L	5039.6 ppb	20:43:16
1	Mg 279.077 IEC†	54.9	53.3	5209.1 ug/L	5209.1 ppb	20:43:36
1	Na 589.592 Radial†	28268.4	29014.2	9610.7 ug/L	9610.7 ppb	20:43:16
1	Sr 421.552†	51045.8	50976.3	472.69 ug/L	472.69 ppb	20:43:16
1	Sc 361.383	823207.4	823207.4	101.07 %		20:44:33
1	Y 371.029	697240.9	697240.9	99.524 %		20:44:33
1	Ag 328.068†	99499.0	98234.3	514.33 ug/L	514.33 ppb	20:44:38
1	As 188.979†	884.7	892.7	519.50 ug/L	519.50 ppb	20:44:58
1	B 249.677†	17619.0	17624.8	500.16 ug/L	500.16 ppb	20:44:38
1	Ba 233.527†	54098.4	53522.7	516.08 ug/L	516.08 ppb	20:44:38
1	Be 313.107†	1164277.3	1155408.0	513.14 ug/L	513.14 ppb	20:44:33
1	Cd 226.502†	34663.1	34457.5	517.97 ug/L	517.97 ppb	20:44:38
1	Co 228.616†	19830.7	19663.1	527.44 ug/L	527.44 ppb	20:44:38
1	Cr 267.716†	38637.7	38152.4	515.22 ug/L	515.22 ppb	20:44:38
1	Cu 324.752†	162831.1	155125.2	511.38 ug/L	511.38 ppb	20:44:38
1	Mn 257.610†	378852.3	374438.2	506.50 ug/L	506.50 ppb	20:44:38
1	Mo 202.031†	5801.3	5732.6	512.79 ug/L	512.79 ppb	20:44:58
1	Ni 231.604†	16269.1	16026.9	522.99 ug/L	522.99 ppb	20:44:38
1	P 214.914†	3466.2	3251.8	2474.4 ug/L	2474.4 ppb	20:44:58
1	Pb 220.353†	3232.2	3240.9	521.54 ug/L	521.54 ppb	20:44:58
1	S 181.975 Axial†	588.2	555.2	1018.6 ug/L	1018.6 ppb	20:44:58
1	Sb 206.836†	1219.7	1178.0	524.38 ug/L	524.38 ppb	20:44:58
1	Se 196.026†	579.7	592.2	519.02 ug/L	519.02 ppb	20:44:58
1	Si 251.611†	67216.2	65963.9	2528.4 ug/L	2528.4 ppb	20:44:38
1	Sn 189.927†	2180.5	2150.1	505.41 ug/L	505.41 ppb	20:44:58
1	Ti 334.940†	287543.8	285506.8	499.71 ug/L	499.71 ppb	20:44:38
1	Tl 190.801†	1288.2	1298.0	524.17 ug/L	524.17 ppb	20:44:58
1	U 409.014†	15751.9	17634.8	525.08 ug/L	525.08 ppb	20:44:38
1	V 292.402†	63216.2	63782.5	520.19 ug/L	520.19 ppb	20:44:38
1	Zn 213.857†	42210.7	41254.7	512.10 ug/L	512.10 ppb	20:44:38
1	SiO2†	67857.4	66612.1	5435.1 ug/L	5435.1 ppb	20:46:05
2	Sc Radial	3320.2	3320.2	98.7 %		20:44:01
2	Y RADIAL	2742.2	2742.2	98.33 %		20:44:01
2	Al 396.153Radial†	2316.1	2415.6	5103.9 ug/L	5103.9 ppb	20:43:41
2	Ca 317.933Radial†	1296.3	1302.2	5120.4 ug/L	5120.4 ppb	20:44:01
2	Fe 238.204 Radial†	184.2	179.4	5054.4 ug/L	5054.4 ppb	20:44:01
2	K 766.490 Radial†	13374.6	11392.9	5183.5 ug/L	5183.5 ppb	20:43:41
2	Mg 279.077 IEC†	54.3	53.5	5230.6 ug/L	5230.6 ppb	20:44:01
2	Na 589.592 Radial†	28127.8	29265.3	9693.9 ug/L	9693.9 ppb	20:43:41
2	Sr 421.552†	51165.9	51808.4	480.41 ug/L	480.41 ppb	20:43:41
2	Sc 361.383	832842.0	832842.0	102.25 %		20:45:04
2	Y 371.029	705572.8	705572.8	100.71 %		20:45:04
2	Ag 328.068†	99869.8	97458.0	510.30 ug/L	510.30 ppb	20:45:09
2	As 188.979†	884.6	882.5	513.60 ug/L	513.60 ppb	20:45:29
2	B 249.677†	17749.1	17550.4	498.05 ug/L	498.05 ppb	20:45:09
2	Ba 233.527†	54102.1	52907.1	510.16 ug/L	510.16 ppb	20:45:09
2	Be 313.107†	1160319.2	1138211.1	505.51 ug/L	505.51 ppb	20:45:04
2	Cd 226.502†	34597.4	33996.5	511.03 ug/L	511.03 ppb	20:45:09
2	Co 228.616†	19795.1	19401.3	520.41 ug/L	520.41 ppb	20:45:09
2	Cr 267.716†	38732.7	37803.0	510.51 ug/L	510.51 ppb	20:45:09
2	Cu 324.752†	163618.4	154031.3	507.78 ug/L	507.78 ppb	20:45:09
2	Mn 257.610†	378952.6	370200.0	500.78 ug/L	500.78 ppb	20:45:09
2	Mo 202.031†	5811.5	5676.1	507.75 ug/L	507.75 ppb	20:45:29
2	Ni 231.604†	16351.4	15921.2	519.54 ug/L	519.54 ppb	20:45:09

2	P 214.914†	3456.8	3203.0	2436.5 ug/L	2436.5 ppb	20:45:29
2	Pb 220.353†	3218.2	3190.2	513.42 ug/L	513.42 ppb	20:45:29
2	S 181.975 Axial†	588.4	548.6	1006.5 ug/L	1006.5 ppb	20:45:29
2	Sb 206.836†	1232.1	1176.2	523.42 ug/L	523.42 ppb	20:45:29
2	Se 196.026†	602.2	607.6	532.28 ug/L	532.28 ppb	20:45:29
2	Si 251.611†	67535.3	65506.6	2510.9 ug/L	2510.9 ppb	20:45:09
2	Sn 189.927†	2181.4	2126.1	499.78 ug/L	499.78 ppb	20:45:29
2	Ti 334.940†	288374.8	283028.4	495.38 ug/L	495.38 ppb	20:45:09
2	Tl 190.801†	1287.1	1282.1	517.78 ug/L	517.78 ppb	20:45:29
2	U 409.014†	15912.5	17611.6	524.39 ug/L	524.39 ppb	20:45:09
2	V 292.402†	63528.9	63364.7	516.75 ug/L	516.75 ppb	20:45:09
2	Zn 213.857†	42294.9	40853.8	507.10 ug/L	507.10 ppb	20:45:09
2	SiO2†	67452.0	65439.0	5339.3 ug/L	5339.3 ppb	20:46:10
3	Sc Radial	3335.1	3335.1	99.2 %		20:44:26
3	Y RADIAL	2754.6	2754.6	98.78 %		20:44:26
3	Al 396.153Radial†	2277.5	2366.2	4997.7 ug/L	4997.7 ppb	20:44:06
3	Ca 317.933Radial†	1303.1	1303.2	5124.3 ug/L	5124.3 ppb	20:44:26
3	Fe 238.204 Radial†	187.4	181.7	5120.6 ug/L	5120.6 ppb	20:44:26
3	K 766.490 Radial†	13285.8	11242.8	5115.1 ug/L	5115.1 ppb	20:44:06
3	Mg 279.077 IEC†	52.0	50.8	4970.4 ug/L	4970.4 ppb	20:44:26
3	Na 589.592 Radial†	27975.8	28984.6	9600.9 ug/L	9600.9 ppb	20:44:06
3	Sr 421.552†	50845.0	51253.0	475.26 ug/L	475.26 ppb	20:44:06
3	Sc 361.383	786711.6	786711.6	96.591 %		20:45:34
3	Y 371.029	666353.6	666353.6	95.116 %		20:45:34
3	Ag 328.068†	101065.1	104422.4	546.69 ug/L	546.69 ppb	20:45:40
3	As 188.979†	879.9	928.4	540.39 ug/L	540.39 ppb	20:46:00
3	B 249.677†	17970.2	18797.1	533.47 ug/L	533.47 ppb	20:45:40
3	Ba 233.527†	55093.5	57035.9	549.96 ug/L	549.96 ppb	20:45:40
3	Be 313.107†	1199231.1	1245034.2	552.94 ug/L	552.94 ppb	20:45:34
3	Cd 226.502†	35340.4	36749.7	552.45 ug/L	552.45 ppb	20:45:40
3	Co 228.616†	20155.4	20909.5	560.84 ug/L	560.84 ppb	20:45:40
3	Cr 267.716†	39504.3	40823.0	551.28 ug/L	551.28 ppb	20:45:40
3	Cu 324.752†	165782.7	165654.7	546.08 ug/L	546.08 ppb	20:45:40
3	Mn 257.610†	386163.9	399396.7	540.27 ug/L	540.27 ppb	20:45:40
3	Mo 202.031†	5784.5	5981.5	535.04 ug/L	535.04 ppb	20:46:00
3	Ni 231.604†	16600.6	17116.9	558.56 ug/L	558.56 ppb	20:45:40
3	P 214.914†	3468.4	3413.2	2595.5 ug/L	2595.5 ppb	20:46:00
3	Pb 220.353†	3217.7	3374.2	542.96 ug/L	542.96 ppb	20:46:00
3	S 181.975 Axial†	585.2	579.0	1062.4 ug/L	1062.4 ppb	20:46:00
3	Sb 206.836†	1242.7	1257.8	559.54 ug/L	559.54 ppb	20:46:00
3	Se 196.026†	599.2	638.9	559.12 ug/L	559.12 ppb	20:46:00
3	Si 251.611†	68320.2	70191.9	2690.6 ug/L	2690.6 ppb	20:45:40
3	Sn 189.927†	2194.4	2264.6	532.28 ug/L	532.28 ppb	20:46:00
3	Ti 334.940†	293530.4	304902.7	533.67 ug/L	533.67 ppb	20:45:40
3	Tl 190.801†	1289.5	1358.4	548.64 ug/L	548.64 ppb	20:46:00
3	U 409.014†	16005.9	18620.8	554.44 ug/L	554.44 ppb	20:45:40
3	V 292.402†	64532.8	68047.1	554.80 ug/L	554.80 ppb	20:45:40
3	Zn 213.857†	42926.6	43933.2	545.37 ug/L	545.37 ppb	20:45:40
3	SiO2†	67799.0	69666.1	5684.3 ug/L	5684.3 ppb	20:46:15

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814253.6	99.972 %	2.9876			2.99%
Sc Radial	3340.6	99.3 %	0.70			0.71%
Y 371.029	689722.4	98.451 %	2.9494			3.00%
Y RADIAL	2755.8	98.82 %	0.512			0.52%
Ag 328.068†	100038.2	523.78 ug/L	19.948	523.78 ppb	19.948	3.81%
QC value within limits for Ag 328.068 Recovery = 104.76%						
Al 396.153Radial†	2375.0	5017.1 ug/L	78.87	5017.1 ppb	78.87	1.57%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	901.2	524.49 ug/L	14.075	524.49 ppb	14.075	2.68%
QC value within limits for As 188.979 Recovery = 104.90%						
B 249.677†	17990.8	510.56 ug/L	19.866	510.56 ppb	19.866	3.89%
QC value within limits for B 249.677 Recovery = 102.11%						
Ba 233.527†	54488.6	525.40 ug/L	21.472	525.40 ppb	21.472	4.09%
QC value within limits for Ba 233.527 Recovery = 105.08%						
Be 313.107†	1179551.1	523.87 ug/L	25.465	523.87 ppb	25.465	4.86%
QC value within limits for Be 313.107 Recovery = 104.77%						
Ca 317.933Radial†	1297.5	5102.2 ug/L	35.05	5102.2 ppb	35.05	0.69%



QC value within limits for Ca 317.933Radial Recovery = 102.04%							
Cd 226.502†	35067.9	527.15 ug/L	22.182	527.15 ppb	22.182	4.21%	
QC value within limits for Cd 226.502 Recovery = 105.43%							
Co 228.616†	19991.3	536.23 ug/L	21.602	536.23 ppb	21.602	4.03%	
QC value within limits for Co 228.616 Recovery = 107.25%							
Cr 267.716†	38926.1	525.67 ug/L	22.303	525.67 ppb	22.303	4.24%	
QC value within limits for Cr 267.716 Recovery = 105.13%							
Cu 324.752†	158270.4	521.75 ug/L	21.153	521.75 ppb	21.153	4.05%	
QC value within limits for Cu 324.752 Recovery = 104.35%							
Fe 238.204 Radial†	179.4	5056.2 ug/L	63.56	5056.2 ppb	63.56	1.26%	
QC value within limits for Fe 238.204 Radial Recovery = 101.12%							
K 766.490 Radial†	11237.5	5112.7 ug/L	71.98	5112.7 ppb	71.98	1.41%	
QC value within limits for K 766.490 Radial Recovery = 102.25%							
Mg 279.077 IEC†	52.6	5136.7 ug/L	144.42	5136.7 ppb	144.42	2.81%	
QC value within limits for Mg 279.077 IEC Recovery = 102.73%							
Mn 257.610†	381344.9	515.85 ug/L	21.340	515.85 ppb	21.340	4.14%	
QC value within limits for Mn 257.610 Recovery = 103.17%							
Mo 202.031†	5796.7	518.53 ug/L	14.522	518.53 ppb	14.522	2.80%	
QC value within limits for Mo 202.031 Recovery = 103.71%							
Na 589.592 Radial†	29088.0	9635.2 ug/L	51.08	9635.2 ppb	51.08	0.53%	
QC value within limits for Na 589.592 Radial Recovery = 96.35%							
Ni 231.604†	16355.0	533.70 ug/L	21.600	533.70 ppb	21.600	4.05%	
QC value within limits for Ni 231.604 Recovery = 106.74%							
P 214.914†	3289.3	2502.1 ug/L	83.05	2502.1 ppb	83.05	3.32%	
QC value within limits for P 214.914 Recovery = 100.09%							
Pb 220.353†	3268.5	525.97 ug/L	15.264	525.97 ppb	15.264	2.90%	
QC value within limits for Pb 220.353 Recovery = 105.19%							
S 181.975 Axial†	560.9	1029.2 ug/L	29.44	1029.2 ppb	29.44	2.86%	
QC value within limits for S 181.975 Axial Recovery = 102.92%							
Sb 206.836†	1204.0	535.78 ug/L	20.584	535.78 ppb	20.584	3.84%	
QC value within limits for Sb 206.836 Recovery = 107.16%							
Se 196.026†	612.9	536.80 ug/L	20.427	536.80 ppb	20.427	3.81%	
QC value within limits for Se 196.026 Recovery = 107.36%							
Si 251.611†	67220.8	2576.6 ug/L	99.08	2576.6 ppb	99.08	3.85%	
QC value within limits for Si 251.611 Recovery = 103.07%							
Sn 189.927†	2180.3	512.49 ug/L	17.371	512.49 ppb	17.371	3.39%	
QC value within limits for Sn 189.927 Recovery = 102.50%							
Sr 421.552†	51345.9	476.12 ug/L	3.929	476.12 ppb	3.929	0.83%	
QC value within limits for Sr 421.552 Recovery = 95.22%							
Ti 334.940†	291146.0	509.59 ug/L	20.970	509.59 ppb	20.970	4.12%	
QC value within limits for Ti 334.940 Recovery = 101.92%							
Tl 190.801†	1312.9	530.20 ug/L	16.291	530.20 ppb	16.291	3.07%	
QC value within limits for Tl 190.801 Recovery = 106.04%							
U 409.014†	17955.7	534.63 ug/L	17.153	534.63 ppb	17.153	3.21%	
QC value within limits for U 409.014 Recovery = 106.93%							
V 292.402†	65064.8	530.58 ug/L	21.049	530.58 ppb	21.049	3.97%	
QC value within limits for V 292.402 Recovery = 106.12%							
Zn 213.857†	42013.9	521.52 ug/L	20.802	521.52 ppb	20.802	3.99%	
QC value within limits for Zn 213.857 Recovery = 104.30%							
SiO2†	67239.1	5486.2 ug/L	178.12	5486.2 ppb	178.12	3.25%	
QC value within limits for SiO2 Recovery = 102.59%							
All analyte(s) passed QC.							

Sequence No.: 19  
 Sample ID: CCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 6  
 Date Collected: 3/8/2010 20:48:25  
 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	3319.5	3319.5	98.7 %		20:50:37
1	Y RADIAL	2778.5	2778.5	99.63 %		20:50:37
1	Al 396.153Radial†	-64.6	3.9	8.2691 ug/L	8.2691 ppb	20:50:37
1	Ca 317.933Radial†	10.8	-0.1	-0.2218 ug/L	-0.2218 ppb	20:50:37
1	Fe 238.204 Radial†	6.6	-0.6	-16.468 ug/L	-16.468 ppb	20:50:37
1	K 766.490 Radial†	2115.4	-12.6	-5.7595 ug/L	-5.7595 ppb	20:50:17
1	Mg 279.077 IEC†	1.8	0.3	25.959 ug/L	25.959 ppb	20:50:37
1	Na 589.592 Radial†	-739.6	21.4	7.1005 ug/L	7.1005 ppb	20:50:17
1	Sr 421.552†	19.9	-4.3	-0.0403 ug/L	-0.0403 ppb	20:50:17
1	Sc 361.383	813874.8	813874.8	99.926 %		20:51:34
1	Y 371.029	697986.3	697986.3	99.631 %		20:51:34
1	Ag 328.068†	162.0	-47.7	-0.2549 ug/L	-0.2549 ppb	20:51:34
1	As 188.979†	-14.1	3.3	1.8875 ug/L	1.8875 ppb	20:51:54
1	B 249.677†	-236.9	-44.4	-1.2636 ug/L	-1.2636 ppb	20:51:54
1	Ba 233.527†	-9.2	-11.4	-0.1099 ug/L	-0.1099 ppb	20:51:54
1	Be 313.107†	-3479.7	-8.5	-0.0037 ug/L	-0.0037 ppb	20:51:34
1	Cd 226.502†	-163.0	-1.3	-0.0167 ug/L	-0.0167 ppb	20:51:54
1	Co 228.616†	-40.6	2.0	0.0547 ug/L	0.0547 ppb	20:51:54
1	Cr 267.716†	68.0	-7.7	-0.1053 ug/L	-0.1053 ppb	20:51:54
1	Cu 324.752†	5905.7	-69.6	-0.2319 ug/L	-0.2319 ppb	20:51:34
1	Mn 257.610†	401.1	3.7	0.0023 ug/L	0.0023 ppb	20:51:54
1	Mo 202.031†	9.4	2.2	0.1975 ug/L	0.1975 ppb	20:51:54
1	Ni 231.604†	66.9	-2.8	-0.0909 ug/L	-0.0909 ppb	20:51:54
1	P 214.914†	183.0	5.5	4.4085 ug/L	4.4085 ppb	20:51:54
1	Pb 220.353†	-43.5	-0.5	-0.0784 ug/L	-0.0784 ppb	20:51:54
1	S 181.975 Axial†	27.2	0.4	0.6494 ug/L	0.6494 ppb	20:51:54
1	Sb 206.836†	28.5	-0.2	-0.0875 ug/L	-0.0875 ppb	20:51:54
1	Se 196.026†	-24.2	-5.6	-4.8282 ug/L	-4.8282 ppb	20:51:54
1	Si 251.611†	509.9	-29.5	-1.1366 ug/L	-1.1366 ppb	20:51:54
1	Sn 189.927†	9.5	2.3	0.5325 ug/L	0.5325 ppb	20:51:54
1	Ti 334.940†	-988.8	21.9	0.0349 ug/L	0.0349 ppb	20:51:34
1	Tl 190.801†	-32.5	-9.1	-3.6474 ug/L	-3.6474 ppb	20:51:54
1	U 409.014†	-1944.3	104.2	3.1139 ug/L	3.1139 ppb	20:51:34
1	V 292.402†	-1200.1	35.5	0.2974 ug/L	0.2974 ppb	20:51:34
1	Zn 213.857†	542.6	34.5	0.4350 ug/L	0.4350 ppb	20:51:54
1	SiO2†	531.0	5.5	0.4432 ug/L	0.4432 ppb	20:53:05
2	Sc Radial	3371.6	3371.6	100 %		20:51:02
2	Y RADIAL	2802.9	2802.9	100.5 %		20:51:02
2	Al 396.153Radial†	-75.3	-5.7	-12.240 ug/L	-12.240 ppb	20:51:02
2	Ca 317.933Radial†	7.9	-3.1	-12.288 ug/L	-12.288 ppb	20:51:02
2	Fe 238.204 Radial†	9.6	2.3	64.083 ug/L	64.083 ppb	20:51:02
2	K 766.490 Radial†	2212.0	50.7	23.112 ug/L	23.112 ppb	20:50:42
2	Mg 279.077 IEC†	2.2	0.6	59.846 ug/L	59.846 ppb	20:51:02
2	Na 589.592 Radial†	-814.0	-41.3	-13.676 ug/L	-13.676 ppb	20:50:42
2	Sr 421.552†	18.3	-6.3	-0.0584 ug/L	-0.0584 ppb	20:50:42
2	Sc 361.383	821913.7	821913.7	100.91 %		20:51:59
2	Y 371.029	705146.7	705146.7	100.65 %		20:51:59
2	Ag 328.068†	174.3	-37.2	-0.1749 ug/L	-0.1749 ppb	20:51:59
2	As 188.979†	-24.8	-7.2	-4.1210 ug/L	-4.1210 ppb	20:52:19
2	B 249.677†	-247.3	-52.5	-1.5063 ug/L	-1.5063 ppb	20:52:19
2	Ba 233.527†	-11.4	-13.5	-0.1271 ug/L	-0.1271 ppb	20:52:19
2	Be 313.107†	-3418.5	86.2	0.0385 ug/L	0.0385 ppb	20:51:59
2	Cd 226.502†	-166.7	-3.4	-0.0572 ug/L	-0.0572 ppb	20:52:19
2	Co 228.616†	-35.5	7.4	0.1996 ug/L	0.1996 ppb	20:52:19
2	Cr 267.716†	62.5	-13.8	-0.1839 ug/L	-0.1839 ppb	20:52:19
2	Cu 324.752†	5852.3	-180.3	-0.5927 ug/L	-0.5927 ppb	20:51:59
2	Mn 257.610†	399.1	-2.2	0.0009 ug/L	0.0009 ppb	20:52:19
2	Mo 202.031†	17.9	10.6	0.9481 ug/L	0.9481 ppb	20:52:19
2	Ni 231.604†	53.8	-16.4	-0.5342 ug/L	-0.5342 ppb	20:52:19

2	P 214.914†	162.9	-16.2	-12.744 ug/L	-12.744 ppb	20:52:19
2	Pb 220.353†	-42.3	1.1	0.1621 ug/L	0.1621 ppb	20:52:19
2	S 181.975 Axial†	23.1	-4.0	-7.3260 ug/L	-7.3260 ppb	20:52:19
2	Sb 206.836†	31.5	2.5	1.1086 ug/L	1.1086 ppb	20:52:19
2	Se 196.026†	-18.1	0.7	0.7720 ug/L	0.7720 ppb	20:52:19
2	Si 251.611†	506.6	-37.8	-1.4636 ug/L	-1.4636 ppb	20:52:19
2	Sn 189.927†	9.7	2.4	0.5647 ug/L	0.5647 ppb	20:52:19
2	Ti 334.940†	-955.1	65.0	0.1058 ug/L	0.1058 ppb	20:51:59
2	Tl 190.801†	-24.5	-0.8	-0.3369 ug/L	-0.3369 ppb	20:52:19
2	U 409.014†	-1958.4	109.2	3.2558 ug/L	3.2558 ppb	20:51:59
2	V 292.402†	-1208.3	39.1	0.3261 ug/L	0.3261 ppb	20:51:59
2	Zn 213.857†	531.0	17.6	0.2157 ug/L	0.2157 ppb	20:52:19
2	SiO2†	538.4	7.6	0.5929 ug/L	0.5929 ppb	20:53:25
3	Sc Radial	3348.0	3348.0	99.5 %		20:51:27
3	Y RADIAL	2784.1	2784.1	99.84 %		20:51:27
3	Al 396.153Radial†	-57.2	11.9	25.305 ug/L	25.305 ppb	20:51:27
3	Ca 317.933Radial†	9.9	-1.1	-4.2272 ug/L	-4.2272 ppb	20:51:27
3	Fe 238.204 Radial†	10.9	3.7	103.39 ug/L	103.39 ppb	20:51:27
3	K 766.490 Radial†	2120.6	-25.5	-11.639 ug/L	-11.639 ppb	20:51:07
3	Mg 279.077 IEC†	1.4	-0.1	-12.912 ug/L	-12.912 ppb	20:51:27
3	Na 589.592 Radial†	-735.8	31.6	10.461 ug/L	10.461 ppb	20:51:07
3	Sr 421.552†	15.2	-9.2	-0.0855 ug/L	-0.0855 ppb	20:51:07
3	Sc 361.383	816192.0	816192.0	100.21 %		20:52:25
3	Y 371.029	700527.0	700527.0	99.993 %		20:52:25
3	Ag 328.068†	157.1	-53.1	-0.2414 ug/L	-0.2414 ppb	20:52:25
3	As 188.979†	-13.9	3.5	2.0535 ug/L	2.0535 ppb	20:52:45
3	B 249.677†	-231.5	-38.4	-1.1107 ug/L	-1.1107 ppb	20:52:45
3	Ba 233.527†	-2.2	-4.4	-0.0376 ug/L	-0.0376 ppb	20:52:45
3	Be 313.107†	-3401.9	79.1	0.0353 ug/L	0.0353 ppb	20:52:25
3	Cd 226.502†	-154.8	7.4	0.1005 ug/L	0.1005 ppb	20:52:45
3	Co 228.616†	-39.4	3.3	0.0854 ug/L	0.0854 ppb	20:52:45
3	Cr 267.716†	78.1	2.2	0.0354 ug/L	0.0354 ppb	20:52:45
3	Cu 324.752†	5735.7	-256.0	-0.8385 ug/L	-0.8385 ppb	20:52:25
3	Mn 257.610†	384.0	-14.5	-0.0089 ug/L	-0.0089 ppb	20:52:45
3	Mo 202.031†	2.8	-4.4	-0.3852 ug/L	-0.3852 ppb	20:52:45
3	Ni 231.604†	71.6	1.8	0.0579 ug/L	0.0579 ppb	20:52:45
3	P 214.914†	171.3	-6.7	-5.2057 ug/L	-5.2057 ppb	20:52:45
3	Pb 220.353†	-36.7	6.4	1.0167 ug/L	1.0167 ppb	20:52:45
3	S 181.975 Axial†	29.5	2.6	4.8245 ug/L	4.8245 ppb	20:52:45
3	Sb 206.836†	25.9	-2.8	-1.2337 ug/L	-1.2337 ppb	20:52:45
3	Se 196.026†	-21.1	-2.4	-1.7779 ug/L	-1.7779 ppb	20:52:45
3	Si 251.611†	529.5	-11.4	-0.4324 ug/L	-0.4324 ppb	20:52:45
3	Sn 189.927†	5.1	-2.1	-0.4995 ug/L	-0.4995 ppb	20:52:45
3	Ti 334.940†	-943.4	70.0	0.1232 ug/L	0.1232 ppb	20:52:25
3	Tl 190.801†	-25.1	-1.6	-0.6551 ug/L	-0.6551 ppb	20:52:45
3	U 409.014†	-2060.3	-6.1	-0.1935 ug/L	-0.1935 ppb	20:52:25
3	V 292.402†	-1154.8	84.1	0.6553 ug/L	0.6553 ppb	20:52:25
3	Zn 213.857†	540.1	30.4	0.3659 ug/L	0.3659 ppb	20:52:45
3	SiO2†	532.0	4.9	0.4128 ug/L	0.4128 ppb	20:53:45

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817326.8	100.35 %	0.508			0.51%
Sc Radial	3346.3	99.5 %	0.78			0.78%
Y 371.029	701220.0	100.09 %	0.518			0.52%
Y RADIAL	2788.5	99.99 %	0.459			0.46%
Ag 328.068†	-46.0	-0.2237 ug/L	0.04283	-0.2237 ppb	0.04283	19.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.4	7.1112 ug/L	18.79933	7.1112 ppb	18.79933	264.36%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.0600 ug/L	3.51791	-0.0600 ppb	3.51791	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-45.1	-1.2936 ug/L	0.19949	-1.2936 ppb	0.19949	15.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-9.8	-0.0915 ug/L	0.04751	-0.0915 ppb	0.04751	51.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	52.3	0.0234 ug/L	0.02347	0.0234 ppb	0.02347	100.41%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.4	-5.5790 ug/L	6.14572	-5.5790 ppb	6.14572	110.16%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated  
Cd 226.502† 0.9 0.0089 ug/L 0.08188 0.0089 ppb 0.08188 923.19%  
QC value within limits for Cd 226.502 Recovery = Not calculated  
Co 228.616† 4.2 0.1132 ug/L 0.07638 0.1132 ppb 0.07638 67.46%  
QC value within limits for Co 228.616 Recovery = Not calculated  
Cr 267.716† -6.4 -0.0846 ug/L 0.11109 -0.0846 ppb 0.11109 131.34%  
QC value within limits for Cr 267.716 Recovery = Not calculated  
Cu 324.752† -168.6 -0.5544 ug/L 0.30509 -0.5544 ppb 0.30509 55.03%  
QC value within limits for Cu 324.752 Recovery = Not calculated  
Fe 238.204 Radial† 1.8 50.334 ug/L 61.0993 50.334 ppb 61.0993 121.39%  
QC value within limits for Fe 238.204 Radial Recovery = Not calculated  
K 766.490 Radial† 4.2 1.9045 ug/L 18.60043 1.9045 ppb 18.60043 976.64%  
QC value within limits for K 766.490 Radial Recovery = Not calculated  
Mg 279.077 IEC† 0.2 24.298 ug/L 36.4074 24.298 ppb 36.4074 149.84%  
QC value within limits for Mg 279.077 IEC Recovery = Not calculated  
Mn 257.610† -4.3 -0.0019 ug/L 0.00609 -0.0019 ppb 0.00609 322.54%  
QC value within limits for Mn 257.610 Recovery = Not calculated  
Mo 202.031† 2.8 0.2535 ug/L 0.66841 0.2535 ppb 0.66841 263.70%  
QC value within limits for Mo 202.031 Recovery = Not calculated  
Na 589.592 Radial† 3.9 1.2951 ug/L 13.07358 1.2951 ppb 13.07358 >999.9%  
QC value within limits for Na 589.592 Radial Recovery = Not calculated  
Ni 231.604† -5.8 -0.1891 ug/L 0.30804 -0.1891 ppb 0.30804 162.92%  
QC value within limits for Ni 231.604 Recovery = Not calculated  
P 214.914† -5.8 -4.5136 ug/L 8.59706 -4.5136 ppb 8.59706 190.47%  
QC value within limits for P 214.914 Recovery = Not calculated  
Pb 220.353† 2.3 0.3668 ug/L 0.57552 0.3668 ppb 0.57552 156.90%  
QC value within limits for Pb 220.353 Recovery = Not calculated  
S 181.975 Axial† -0.3 -0.6173 ug/L 6.17353 -0.6173 ppb 6.17353 >999.9%  
QC value within limits for S 181.975 Axial Recovery = Not calculated  
Sb 206.836† -0.2 -0.0709 ug/L 1.17124 -0.0709 ppb 1.17124 >999.9%  
QC value within limits for Sb 206.836 Recovery = Not calculated  
Se 196.026† -2.5 -1.9447 ug/L 2.80382 -1.9447 ppb 2.80382 144.18%  
QC value within limits for Se 196.026 Recovery = Not calculated  
Si 251.611† -26.2 -1.0109 ug/L 0.52699 -1.0109 ppb 0.52699 52.13%  
QC value within limits for Si 251.611 Recovery = Not calculated  
Sn 189.927† 0.9 0.1992 ug/L 0.60531 0.1992 ppb 0.60531 303.85%  
QC value within limits for Sn 189.927 Recovery = Not calculated  
Sr 421.552† -6.6 -0.0614 ug/L 0.02274 -0.0614 ppb 0.02274 37.03%  
QC value within limits for Sr 421.552 Recovery = Not calculated  
Ti 334.940† 52.3 0.0880 ug/L 0.04674 0.0880 ppb 0.04674 53.13%  
QC value within limits for Ti 334.940 Recovery = Not calculated  
Tl 190.801† -3.9 -1.5465 ug/L 1.82640 -1.5465 ppb 1.82640 118.10%  
QC value within limits for Tl 190.801 Recovery = Not calculated  
U 409.014† 69.1 2.0587 ug/L 1.95177 2.0587 ppb 1.95177 94.80%  
QC value within limits for U 409.014 Recovery = Not calculated  
V 292.402† 52.9 0.4263 ug/L 0.19889 0.4263 ppb 0.19889 46.66%  
QC value within limits for V 292.402 Recovery = Not calculated  
Zn 213.857† 27.5 0.3389 ug/L 0.11212 0.3389 ppb 0.11212 33.09%  
QC value within limits for Zn 213.857 Recovery = Not calculated  
SiO2† 6.0 0.4829 ug/L 0.09640 0.4829 ppb 0.09640 19.96%  
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: 3/8/2010 21:44:46  
 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	3351.0	3351.0	99.6 %		21:46:58
1	Y RADIAL	2771.7	2771.7	99.39 %		21:46:58
1	Al 396.153Radial†	2298.1	2376.0	5019.9 ug/L	5019.9 ppb	21:46:38
1	Ca 317.933Radial†	1279.1	1272.9	5005.4 ug/L	5005.4 ppb	21:46:58
1	Fe 238.204 Radial†	186.7	180.2	5076.6 ug/L	5076.6 ppb	21:46:58
1	K 766.490 Radial†	13281.0	11174.5	5084.0 ug/L	5084.0 ppb	21:46:38
1	Mg 279.077 IEC†	52.0	50.7	4954.4 ug/L	4954.4 ppb	21:46:58
1	Na 589.592 Radial†	28889.1	29767.7	9860.3 ug/L	9860.3 ppb	21:46:38
1	Sr 421.552†	52194.8	52365.1	485.57 ug/L	485.57 ppb	21:46:38
1	Sc 361.383	834653.7	834653.7	102.48 %		21:47:55
1	Y 371.029	705993.1	705993.1	100.77 %		21:47:55
1	Ag 328.068†	100087.5	97458.5	510.31 ug/L	510.31 ppb	21:48:00
1	As 188.979†	891.4	887.3	516.34 ug/L	516.34 ppb	21:48:20
1	B 249.677†	17609.3	17376.3	493.08 ug/L	493.08 ppb	21:48:00
1	Ba 233.527†	54412.7	53095.4	511.97 ug/L	511.97 ppb	21:48:00
1	Be 313.107†	1178085.0	1153084.4	512.10 ug/L	512.10 ppb	21:47:55
1	Cd 226.502†	34798.4	34119.1	512.87 ug/L	512.87 ppb	21:48:00
1	Co 228.616†	19842.1	19405.2	520.51 ug/L	520.51 ppb	21:48:00
1	Cr 267.716†	38858.0	37843.1	511.05 ug/L	511.05 ppb	21:48:00
1	Cu 324.752†	163687.8	153751.8	506.86 ug/L	506.86 ppb	21:48:00
1	Mn 257.610†	389397.9	379588.4	513.49 ug/L	513.49 ppb	21:47:55
1	Mo 202.031†	5804.6	5657.1	506.05 ug/L	506.05 ppb	21:48:20
1	Ni 231.604†	16364.2	15898.9	518.82 ug/L	518.82 ppb	21:48:00
1	P 214.914†	3495.0	3232.9	2460.3 ug/L	2460.3 ppb	21:48:20
1	Pb 220.353†	3212.5	3177.8	511.40 ug/L	511.40 ppb	21:48:20
1	S 181.975 Axial†	585.6	544.6	999.20 ug/L	999.20 ppb	21:48:20
1	Sb 206.836†	1226.9	1168.5	520.04 ug/L	520.04 ppb	21:48:20
1	Se 196.026†	592.3	596.6	523.00 ug/L	523.00 ppb	21:48:20
1	Si 251.611†	67601.3	65427.6	2507.9 ug/L	2507.9 ppb	21:48:00
1	Sn 189.927†	2181.6	2121.7	498.72 ug/L	498.72 ppb	21:48:20
1	Ti 334.940†	288693.7	282727.4	494.86 ug/L	494.86 ppb	21:48:00
1	Tl 190.801†	1288.0	1280.3	517.12 ug/L	517.12 ppb	21:48:20
1	U 409.014†	15818.7	17486.3	520.64 ug/L	520.64 ppb	21:48:00
1	V 292.402†	63593.1	63292.5	516.13 ug/L	516.13 ppb	21:48:00
1	Zn 213.857†	42368.3	40835.7	506.87 ug/L	506.87 ppb	21:48:00
1	SiO2†	68041.8	65871.3	5374.7 ug/L	5374.7 ppb	21:49:28
2	Sc Radial	3330.0	3330.0	99.0 %		21:47:23
2	Y RADIAL	2735.8	2735.8	98.10 %		21:47:23
2	Al 396.153Radial†	2320.5	2413.2	5098.9 ug/L	5098.9 ppb	21:47:03
2	Ca 317.933Radial†	1308.3	1310.4	5152.9 ug/L	5152.9 ppb	21:47:23
2	Fe 238.204 Radial†	190.4	185.0	5213.6 ug/L	5213.6 ppb	21:47:23
2	K 766.490 Radial†	13474.5	11454.1	5211.3 ug/L	5211.3 ppb	21:47:03
2	Mg 279.077 IEC†	56.2	55.2	5395.0 ug/L	5395.0 ppb	21:47:23
2	Na 589.592 Radial†	28756.8	29817.1	9876.7 ug/L	9876.7 ppb	21:47:03
2	Sr 421.552†	51621.0	52116.2	483.26 ug/L	483.26 ppb	21:47:03
2	Sc 361.383	834594.8	834594.8	102.47 %		21:48:26
2	Y 371.029	705991.5	705991.5	100.77 %		21:48:26
2	Ag 328.068†	101268.1	98617.6	516.40 ug/L	516.40 ppb	21:48:31
2	As 188.979†	883.1	879.3	511.82 ug/L	511.82 ppb	21:48:51
2	B 249.677†	17946.1	17706.2	502.44 ug/L	502.44 ppb	21:48:31
2	Ba 233.527†	55129.5	53798.6	518.75 ug/L	518.75 ppb	21:48:31
2	Be 313.107†	1181276.2	1156279.9	513.54 ug/L	513.54 ppb	21:48:26
2	Cd 226.502†	35276.1	34587.7	519.91 ug/L	519.91 ppb	21:48:31
2	Co 228.616†	20191.5	19747.5	529.67 ug/L	529.67 ppb	21:48:31
2	Cr 267.716†	39442.2	38415.8	518.79 ug/L	518.79 ppb	21:48:31
2	Cu 324.752†	165824.6	155848.4	513.77 ug/L	513.77 ppb	21:48:31
2	Mn 257.610†	390749.0	380933.8	515.30 ug/L	515.30 ppb	21:48:26
2	Mo 202.031†	5779.1	5632.6	503.87 ug/L	503.87 ppb	21:48:51
2	Ni 231.604†	16633.1	16162.5	527.42 ug/L	527.42 ppb	21:48:31

2	P 214.914†	3480.1	3218.6	2447.4 ug/L	2447.4 ppb	21:48:51
2	Pb 220.353†	3214.4	3180.0	511.74 ug/L	511.74 ppb	21:48:51
2	S 181.975 Axial†	584.6	543.6	997.43 ug/L	997.43 ppb	21:48:51
2	Sb 206.836†	1223.3	1165.1	518.46 ug/L	518.46 ppb	21:48:51
2	Se 196.026†	589.7	594.1	521.32 ug/L	521.32 ppb	21:48:51
2	Si 251.611†	68496.2	66305.7	2541.7 ug/L	2541.7 ppb	21:48:31
2	Sn 189.927†	2162.3	2102.9	494.33 ug/L	494.33 ppb	21:48:51
2	Ti 334.940†	293035.6	286984.6	502.29 ug/L	502.29 ppb	21:48:31
2	Tl 190.801†	1294.0	1286.3	519.52 ug/L	519.52 ppb	21:48:51
2	U 409.014†	16070.5	17733.0	527.98 ug/L	527.98 ppb	21:48:31
2	V 292.402†	64377.1	64062.0	522.28 ug/L	522.28 ppb	21:48:31
2	Zn 213.857†	42917.8	41374.9	513.54 ug/L	513.54 ppb	21:48:31
2	SiO2†	68122.6	65954.8	5381.6 ug/L	5381.6 ppb	21:49:33
3	Sc Radial	3295.4	3295.4	98.0 %		21:47:48
3	Y RADIAL	2723.6	2723.6	97.66 %		21:47:48
3	Al 396.153Radial†	2318.0	2435.3	5145.4 ug/L	5145.4 ppb	21:47:28
3	Ca 317.933Radial†	1302.2	1318.1	5182.9 ug/L	5182.9 ppb	21:47:48
3	Fe 238.204 Radial†	185.1	181.7	5119.7 ug/L	5119.7 ppb	21:47:48
3	K 766.490 Radial†	13436.9	11558.5	5258.8 ug/L	5258.8 ppb	21:47:28
3	Mg 279.077 IEC†	55.0	54.6	5338.9 ug/L	5338.9 ppb	21:47:48
3	Na 589.592 Radial†	28768.5	30133.7	9981.5 ug/L	9981.5 ppb	21:47:28
3	Sr 421.552†	52044.1	53094.9	492.34 ug/L	492.34 ppb	21:47:28
3	Sc 361.383	825719.7	825719.7	101.38 %		21:48:57
3	Y 371.029	698027.3	698027.3	99.637 %		21:48:57
3	Ag 328.068†	100087.5	98515.3	515.85 ug/L	515.85 ppb	21:49:02
3	As 188.979†	890.1	895.4	521.08 ug/L	521.08 ppb	21:49:22
3	B 249.677†	17674.1	17626.1	500.18 ug/L	500.18 ppb	21:49:02
3	Ba 233.527†	54387.6	53645.1	517.27 ug/L	517.27 ppb	21:49:02
3	Be 313.107†	1166707.9	1154300.6	512.66 ug/L	512.66 ppb	21:48:57
3	Cd 226.502†	34866.2	34553.5	519.40 ug/L	519.40 ppb	21:49:02
3	Co 228.616†	19948.2	19719.3	528.94 ug/L	528.94 ppb	21:49:02
3	Cr 267.716†	38904.5	38299.2	517.21 ug/L	517.21 ppb	21:49:02
3	Cu 324.752†	163391.0	155187.2	511.59 ug/L	511.59 ppb	21:49:02
3	Mn 257.610†	386769.4	381107.0	515.53 ug/L	515.53 ppb	21:48:57
3	Mo 202.031†	5815.8	5729.5	512.52 ug/L	512.52 ppb	21:49:22
3	Ni 231.604†	16376.0	16083.4	524.83 ug/L	524.83 ppb	21:49:02
3	P 214.914†	3462.7	3238.0	2463.4 ug/L	2463.4 ppb	21:49:22
3	Pb 220.353†	3225.1	3224.2	518.89 ug/L	518.89 ppb	21:49:22
3	S 181.975 Axial†	596.6	561.6	1030.5 ug/L	1030.5 ppb	21:49:22
3	Sb 206.836†	1226.4	1181.0	525.61 ug/L	525.61 ppb	21:49:22
3	Se 196.026†	605.3	615.7	539.41 ug/L	539.41 ppb	21:49:22
3	Si 251.611†	67626.2	66165.9	2536.2 ug/L	2536.2 ppb	21:49:02
3	Sn 189.927†	2175.1	2138.3	502.65 ug/L	502.65 ppb	21:49:22
3	Ti 334.940†	288949.2	286027.5	500.63 ug/L	500.63 ppb	21:49:02
3	Tl 190.801†	1283.7	1289.7	520.88 ug/L	520.88 ppb	21:49:22
3	U 409.014†	15706.3	17542.4	522.30 ug/L	522.30 ppb	21:49:02
3	V 292.402†	63695.4	64064.9	522.43 ug/L	522.43 ppb	21:49:02
3	Zn 213.857†	42450.3	41363.9	513.44 ug/L	513.44 ppb	21:49:02
3	SiO2†	67275.2	65833.6	5371.4 ug/L	5371.4 ppb	21:49:38

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	831656.1	102.11 %	0.631			0.62%
Sc Radial	3325.5	98.9 %	0.83			0.84%
Y 371.029	703337.3	100.39 %	0.656			0.65%
Y RADIAL	2743.7	98.39 %	0.897			0.91%
Ag 328.068†	98197.1	514.19 ug/L	3.367	514.19 ppb	3.367	0.65%
QC value within limits for Ag 328.068 Recovery = 102.84%						
Al 396.153Radial†	2408.2	5088.1 ug/L	63.47	5088.1 ppb	63.47	1.25%
QC value within limits for Al 396.153Radial Recovery = 101.76%						
As 188.979†	887.3	516.42 ug/L	4.630	516.42 ppb	4.630	0.90%
QC value within limits for As 188.979 Recovery = 103.28%						
B 249.677†	17569.5	498.57 ug/L	4.882	498.57 ppb	4.882	0.98%
QC value within limits for B 249.677 Recovery = 99.71%						
Ba 233.527†	53513.0	516.00 ug/L	3.566	516.00 ppb	3.566	0.69%
QC value within limits for Ba 233.527 Recovery = 103.20%						
Be 313.107†	1154554.9	512.77 ug/L	0.723	512.77 ppb	0.723	0.14%
QC value within limits for Be 313.107 Recovery = 102.55%						
Ca 317.933Radial†	1300.5	5113.8 ug/L	95.02	5113.8 ppb	95.02	1.86%

QC value within limits for Ca 317.933 Radial Recovery = 102.28%

Cd 226.502†	34420.1	517.39 ug/L	3.924	517.39 ppb	3.924	0.76%
QC value within limits for Cd 226.502 Recovery = 103.48%						
Co 228.616†	19624.0	526.38 ug/L	5.090	526.38 ppb	5.090	0.97%
QC value within limits for Co 228.616 Recovery = 105.28%						
Cr 267.716†	38186.0	515.68 ug/L	4.088	515.68 ppb	4.088	0.79%
QC value within limits for Cr 267.716 Recovery = 103.14%						
Cu 324.752†	154929.1	510.74 ug/L	3.535	510.74 ppb	3.535	0.69%
QC value within limits for Cu 324.752 Recovery = 102.15%						
Fe 238.204 Radial†	182.3	5136.6 ug/L	70.05	5136.6 ppb	70.05	1.36%
QC value within limits for Fe 238.204 Radial Recovery = 102.73%						
K 766.490 Radial†	11395.7	5184.7 ug/L	90.38	5184.7 ppb	90.38	1.74%
QC value within limits for K 766.490 Radial Recovery = 103.69%						
Mg 279.077 IEC†	53.5	5229.5 ug/L	239.81	5229.5 ppb	239.81	4.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.59%						
Mn 257.610†	380543.1	514.77 ug/L	1.119	514.77 ppb	1.119	0.22%
QC value within limits for Mn 257.610 Recovery = 102.95%						
Mo 202.031†	5673.0	507.48 ug/L	4.500	507.48 ppb	4.500	0.89%
QC value within limits for Mo 202.031 Recovery = 101.50%						
Na 589.592 Radial†	29906.2	9906.2 ug/L	65.78	9906.2 ppb	65.78	0.66%
QC value within limits for Na 589.592 Radial Recovery = 99.06%						
Ni 231.604†	16048.3	523.69 ug/L	4.413	523.69 ppb	4.413	0.84%
QC value within limits for Ni 231.604 Recovery = 104.74%						
P 214.914†	3229.8	2457.0 ug/L	8.46	2457.0 ppb	8.46	0.34%
QC value within limits for P 214.914 Recovery = 98.28%						
Pb 220.353†	3194.0	514.01 ug/L	4.226	514.01 ppb	4.226	0.82%
QC value within limits for Pb 220.353 Recovery = 102.80%						
S 181.975 Axial†	550.0	1009.0 ug/L	18.58	1009.0 ppb	18.58	1.84%
QC value within limits for S 181.975 Axial Recovery = 100.90%						
Sb 206.836†	1171.5	521.37 ug/L	3.754	521.37 ppb	3.754	0.72%
QC value within limits for Sb 206.836 Recovery = 104.27%						
Se 196.026†	602.2	527.91 ug/L	9.992	527.91 ppb	9.992	1.89%
QC value within limits for Se 196.026 Recovery = 105.58%						
Si 251.611†	65966.4	2528.6 ug/L	18.12	2528.6 ppb	18.12	0.72%
QC value within limits for Si 251.611 Recovery = 101.14%						
Sn 189.927†	2121.0	498.56 ug/L	4.160	498.56 ppb	4.160	0.83%
QC value within limits for Sn 189.927 Recovery = 99.71%						
Sr 421.552†	52525.4	487.06 ug/L	4.717	487.06 ppb	4.717	0.97%
QC value within limits for Sr 421.552 Recovery = 97.41%						
Ti 334.940†	285246.5	499.26 ug/L	3.900	499.26 ppb	3.900	0.78%
QC value within limits for Ti 334.940 Recovery = 99.85%						
Tl 190.801†	1285.4	519.17 ug/L	1.905	519.17 ppb	1.905	0.37%
QC value within limits for Tl 190.801 Recovery = 103.83%						
U 409.014†	17587.3	523.64 ug/L	3.848	523.64 ppb	3.848	0.73%
QC value within limits for U 409.014 Recovery = 104.73%						
V 292.402†	63806.5	520.28 ug/L	3.597	520.28 ppb	3.597	0.69%
QC value within limits for V 292.402 Recovery = 104.06%						
Zn 213.857†	41191.5	511.28 ug/L	3.822	511.28 ppb	3.822	0.75%
QC value within limits for Zn 213.857 Recovery = 102.26%						
SiO2†	65886.5	5375.9 ug/L	5.18	5375.9 ppb	5.18	0.10%
QC value within limits for SiO2 Recovery = 100.53%						

All analyte(s) passed QC.

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

Autosampler Location: 6  
 Date Collected: 3/8/2010 21:51:48  
 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	3295.9	3295.9	98.0 %		21:54:00
1	Y RADIAL	2751.6	2751.6	98.67 %		21:54:00
1	Al 396.153Radial†	-74.1	-6.2	-13.290 ug/L	-13.290 ppb	21:54:00
1	Ca 317.933Radial†	12.5	1.8	6.8901 ug/L	6.8901 ppb	21:54:00
1	Fe 238.204 Radial†	9.0	1.9	54.441 ug/L	54.441 ppb	21:54:00
1	K 766.490 Radial†	2174.0	62.6	28.502 ug/L	28.502 ppb	21:53:40
1	Mg 279.077 IEC†	-1.3	-2.8	-277.02 ug/L	-277.02 ppb	21:54:00
1	Na 589.592 Radial†	-758.5	-3.3	-1.0859 ug/L	-1.0859 ppb	21:53:40
1	Sr 421.552†	32.1	8.3	0.0766 ug/L	0.0766 ppb	21:53:40
1	Sc 361.383	799265.8	799265.8	98.132 %		21:54:57
1	Y 371.029	685791.7	685791.7	97.890 %		21:54:57
1	Ag 328.068†	131.6	-75.8	-0.3734 ug/L	-0.3734 ppb	21:54:57
1	As 188.979†	-17.1	-0.0	0.0048 ug/L	0.0048 ppb	21:55:17
1	B 249.677†	-314.5	-127.8	-3.6538 ug/L	-3.6538 ppb	21:55:17
1	Ba 233.527†	2.0	-0.2	0.0005 ug/L	0.0005 ppb	21:55:17
1	Be 313.107†	-3446.4	-38.3	-0.0171 ug/L	-0.0171 ppb	21:54:57
1	Cd 226.502†	-160.1	-1.4	-0.0266 ug/L	-0.0266 ppb	21:55:17
1	Co 228.616†	-35.2	6.7	0.1808 ug/L	0.1808 ppb	21:55:17
1	Cr 267.716†	69.2	-5.2	-0.0665 ug/L	-0.0665 ppb	21:55:17
1	Cu 324.752†	5898.8	31.4	0.1085 ug/L	0.1085 ppb	21:54:57
1	Mn 257.610†	509.3	121.3	0.1807 ug/L	0.1807 ppb	21:55:17
1	Mo 202.031†	12.1	5.1	0.4646 ug/L	0.4646 ppb	21:55:17
1	Ni 231.604†	70.4	2.0	0.0655 ug/L	0.0655 ppb	21:55:17
1	P 214.914†	175.1	0.8	0.5764 ug/L	0.5764 ppb	21:55:17
1	Pb 220.353†	-39.0	3.2	0.5098 ug/L	0.5098 ppb	21:55:17
1	S 181.975 Axial†	32.1	5.9	10.768 ug/L	10.768 ppb	21:55:17
1	Sb 206.836†	32.1	3.9	1.6859 ug/L	1.6859 ppb	21:55:17
1	Se 196.026†	-11.8	6.6	5.7383 ug/L	5.7383 ppb	21:55:17
1	Si 251.611†	490.4	-40.0	-1.5422 ug/L	-1.5422 ppb	21:55:17
1	Sn 189.927†	3.1	-4.1	-0.9536 ug/L	-0.9536 ppb	21:55:17
1	Ti 334.940†	-1029.0	-37.2	-0.0399 ug/L	-0.0399 ppb	21:54:57
1	Tl 190.801†	-18.8	4.3	1.7383 ug/L	1.7383 ppb	21:55:17
1	U 409.014†	-2132.0	-122.7	-3.6718 ug/L	-3.6718 ppb	21:54:57
1	V 292.402†	-1169.9	44.4	0.3432 ug/L	0.3432 ppb	21:54:57
1	Zn 213.857†	529.6	31.1	0.3811 ug/L	0.3811 ppb	21:55:17
1	SiO2†	511.2	-5.0	-0.4182 ug/L	-0.4182 ppb	21:56:28
2	Sc Radial	3326.8	3326.8	98.9 %		21:54:25
2	Y RADIAL	2784.1	2784.1	99.84 %		21:54:25
2	Al 396.153Radial†	-75.1	-6.6	-13.939 ug/L	-13.939 ppb	21:54:25
2	Ca 317.933Radial†	13.8	3.0	11.617 ug/L	11.617 ppb	21:54:25
2	Fe 238.204 Radial†	9.9	2.7	77.048 ug/L	77.048 ppb	21:54:25
2	K 766.490 Radial†	2292.2	161.4	73.519 ug/L	73.519 ppb	21:54:05
2	Mg 279.077 IEC†	1.1	-0.5	-44.628 ug/L	-44.628 ppb	21:54:25
2	Na 589.592 Radial†	-813.9	-52.1	-17.250 ug/L	-17.250 ppb	21:54:05
2	Sr 421.552†	44.1	20.0	0.1855 ug/L	0.1855 ppb	21:54:05
2	Sc 361.383	822719.4	822719.4	101.01 %		21:55:22
2	Y 371.029	705086.6	705086.6	100.64 %		21:55:22
2	Ag 328.068†	215.5	3.4	0.0347 ug/L	0.0347 ppb	21:55:22
2	As 188.979†	-15.3	2.2	1.3125 ug/L	1.3125 ppb	21:55:42
2	B 249.677†	-287.2	-91.6	-2.6248 ug/L	-2.6248 ppb	21:55:42
2	Ba 233.527†	26.0	23.6	0.2287 ug/L	0.2287 ppb	21:55:42
2	Be 313.107†	-3470.1	38.5	0.0172 ug/L	0.0172 ppb	21:55:22
2	Cd 226.502†	-171.2	-7.6	-0.1210 ug/L	-0.1210 ppb	21:55:42
2	Co 228.616†	-50.6	-7.4	-0.2003 ug/L	-0.2003 ppb	21:55:42
2	Cr 267.716†	86.6	10.1	0.1356 ug/L	0.1356 ppb	21:55:42
2	Cu 324.752†	5893.0	-145.7	-0.4804 ug/L	-0.4804 ppb	21:55:22
2	Mn 257.610†	483.3	80.8	0.1186 ug/L	0.1186 ppb	21:55:42
2	Mo 202.031†	10.3	3.1	0.2792 ug/L	0.2792 ppb	21:55:42
2	Ni 231.604†	73.7	3.3	0.1072 ug/L	0.1072 ppb	21:55:42



2	P 214.914†	168.6	-10.7	-8.4474 ug/L	-8.4474 ppb	21:55:42
2	Pb 220.353†	-44.7	-1.2	-0.2112 ug/L	-0.2112 ppb	21:55:42
2	S 181.975 Axial†	29.2	2.1	3.8001 ug/L	3.8001 ppb	21:55:42
2	Sb 206.836†	26.5	-2.5	-1.0841 ug/L	-1.0841 ppb	21:55:42
2	Se 196.026†	-17.1	1.6	1.6050 ug/L	1.6050 ppb	21:55:42
2	Si 251.611†	495.6	-49.1	-1.8915 ug/L	-1.8915 ppb	21:55:42
2	Sn 189.927†	5.5	-1.8	-0.4161 ug/L	-0.4161 ppb	21:55:42
2	Ti 334.940†	-976.2	45.1	0.0807 ug/L	0.0807 ppb	21:55:22
2	Tl 190.801†	-30.3	-6.6	-2.6460 ug/L	-2.6460 ppb	21:55:42
2	U 409.014†	-1808.0	260.0	7.7574 ug/L	7.7574 ppb	21:55:22
2	V 292.402†	-1263.4	-14.3	-0.1082 ug/L	-0.1082 ppb	21:55:22
2	Zn 213.857†	530.5	16.6	0.1966 ug/L	0.1966 ppb	21:55:42
2	SiO2†	502.1	-28.9	-2.3707 ug/L	-2.3707 ppb	21:56:48
3	Sc Radial	3324.4	3324.4	98.8 %		21:54:50
3	Y RADIAL	2774.8	2774.8	99.50 %		21:54:50
3	Al 396.153Radial†	-59.5	9.2	19.439 ug/L	19.439 ppb	21:54:50
3	Ca 317.933Radial†	12.1	1.3	5.0552 ug/L	5.0552 ppb	21:54:50
3	Fe 238.204 Radial†	8.3	1.1	30.200 ug/L	30.200 ppb	21:54:50
3	K 766.490 Radial†	2084.4	-47.0	-21.425 ug/L	-21.425 ppb	21:54:30
3	Mg 279.077 IEC†	3.1	1.6	154.54 ug/L	154.54 ppb	21:54:50
3	Na 589.592 Radial†	-797.2	-35.8	-11.848 ug/L	-11.848 ppb	21:54:30
3	Sr 421.552†	28.3	4.1	0.0380 ug/L	0.0380 ppb	21:54:30
3	Sc 361.383	799021.8	799021.8	98.102 %		21:55:47
3	Y 371.029	684462.5	684462.5	97.700 %		21:55:47
3	Ag 328.068†	113.9	-93.8	-0.4742 ug/L	-0.4742 ppb	21:55:47
3	As 188.979†	-11.7	5.5	3.1655 ug/L	3.1655 ppb	21:56:08
3	B 249.677†	-295.8	-108.9	-3.1102 ug/L	-3.1102 ppb	21:56:08
3	Ba 233.527†	-11.5	-14.0	-0.1332 ug/L	-0.1332 ppb	21:56:08
3	Be 313.107†	-3413.1	-5.3	-0.0022 ug/L	-0.0022 ppb	21:55:47
3	Cd 226.502†	-149.8	9.1	0.1323 ug/L	0.1323 ppb	21:56:08
3	Co 228.616†	-42.6	-0.8	-0.0204 ug/L	-0.0204 ppb	21:56:08
3	Cr 267.716†	79.5	5.4	0.0757 ug/L	0.0757 ppb	21:56:08
3	Cu 324.752†	5815.9	-51.3	-0.1646 ug/L	-0.1646 ppb	21:55:47
3	Mn 257.610†	483.7	95.3	0.1256 ug/L	0.1256 ppb	21:56:08
3	Mo 202.031†	13.0	6.0	0.5431 ug/L	0.5431 ppb	21:56:08
3	Ni 231.604†	62.3	-6.2	-0.2028 ug/L	-0.2028 ppb	21:56:08
3	P 214.914†	170.9	-3.4	-2.6912 ug/L	-2.6912 ppb	21:56:08
3	Pb 220.353†	-28.6	13.8	2.2194 ug/L	2.2194 ppb	21:56:08
3	S 181.975 Axial†	21.6	-4.8	-8.7955 ug/L	-8.7955 ppb	21:56:08
3	Sb 206.836†	27.8	-0.4	-0.1486 ug/L	-0.1486 ppb	21:56:08
3	Se 196.026†	-16.5	1.8	1.6088 ug/L	1.6088 ppb	21:56:08
3	Si 251.611†	494.8	-35.4	-1.3666 ug/L	-1.3666 ppb	21:56:08
3	Sn 189.927†	7.3	0.2	0.0543 ug/L	0.0543 ppb	21:56:08
3	Ti 334.940†	-964.3	28.6	0.0403 ug/L	0.0403 ppb	21:55:47
3	Tl 190.801†	-22.5	0.5	0.1924 ug/L	0.1924 ppb	21:56:08
3	U 409.014†	-2182.2	-174.5	-5.2168 ug/L	-5.2168 ppb	21:55:47
3	V 292.402†	-1202.2	11.0	0.0844 ug/L	0.0844 ppb	21:55:47
3	Zn 213.857†	538.5	40.4	0.5027 ug/L	0.5027 ppb	21:56:08
3	SiO2†	496.9	-19.4	-1.6036 ug/L	-1.6036 ppb	21:57:08

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807002.4	99.082 %	1.6712			1.69%
Sc Radial	3315.7	98.6 %	0.51			0.52%
Y 371.029	691780.3	98.745 %	1.6476			1.67%
Y RADIAL	2770.2	99.34 %	0.601			0.61%
Ag 328.068†	-55.4	-0.2710 ug/L	0.26945	-0.2710 ppb	0.26945	99.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.2	-2.5967 ug/L	19.08649	-2.5967 ppb	19.08649	735.04%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.6	1.4943 ug/L	1.58816	1.4943 ppb	1.58816	106.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-109.5	-3.1296 ug/L	0.51477	-3.1296 ppb	0.51477	16.45%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.1	0.0320 ug/L	0.18300	0.0320 ppb	0.18300	571.65%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1.7	-0.0007 ug/L	0.01722	-0.0007 ppb	0.01722	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	2.0	7.8540 ug/L	3.38527	7.8540 ppb	3.38527	43.10%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	0.0	-0.0051 ug/L	0.12803	-0.0051 ppb	0.12803	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.5	-0.0133 ug/L	0.19066	-0.0133 ppb	0.19066	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.4	0.0483 ug/L	0.10380	0.0483 ppb	0.10380	215.00%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-55.2	-0.1788 ug/L	0.29473	-0.1788 ppb	0.29473	164.80%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.9	53.896 ug/L	23.4285	53.896 ppb	23.4285	43.47%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	59.0	26.865 ug/L	47.4934	26.865 ppb	47.4934	176.78%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.6	-55.703 ug/L	215.9891	-55.703 ppb	215.9891	387.75%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	99.1	0.1416 ug/L	0.03401	0.1416 ppb	0.03401	24.01%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.8	0.4290 ug/L	0.13548	0.4290 ppb	0.13548	31.58%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-30.4	-10.062 ug/L	8.2290	-10.062 ppb	8.2290	81.79%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-0.3	-0.0100 ug/L	0.16822	-0.0100 ppb	0.16822	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.4	-3.5207 ug/L	4.56873	-3.5207 ppb	4.56873	129.77%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	5.3	0.8393 ug/L	1.24836	0.8393 ppb	1.24836	148.74%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.0	1.9241 ug/L	9.91570	1.9241 ppb	9.91570	515.33%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	0.3	0.1511 ug/L	1.40911	0.1511 ppb	1.40911	932.60%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.3	2.9840 ug/L	2.38528	2.9840 ppb	2.38528	79.93%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-41.5	-1.6001 ug/L	0.26718	-1.6001 ppb	0.26718	16.70%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.9	-0.4385 ug/L	0.50431	-0.4385 ppb	0.50431	115.02%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	10.8	0.1000 ug/L	0.07650	0.1000 ppb	0.07650	76.47%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	12.2	0.0270 ug/L	0.06135	0.0270 ppb	0.06135	226.97%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.6	-0.2384 ug/L	2.22369	-0.2384 ppb	2.22369	932.72%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-12.4	-0.3771 ug/L	7.08690	-0.3771 ppb	7.08690	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	13.7	0.1065 ug/L	0.22653	0.1065 ppb	0.22653	212.77%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	29.4	0.3601 ug/L	0.15416	0.3601 ppb	0.15416	42.81%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-17.8	-1.4642 ug/L	0.98372	-1.4642 ppb	0.98372	67.19%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/8/2010 22:46:56

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	3242.6	3242.6	96.4 %		22:49:08
1	Y RADIAL	2677.5	2677.5	96.01 %		22:49:08
1	Al 396.153Radial†	2366.8	2524.4	5334.7 ug/L	5334.7 ppb	22:48:48
1	Ca 317.933Radial†	1284.5	1321.4	5196.2 ug/L	5196.2 ppb	22:49:08
1	Fe 238.204 Radial†	189.3	189.1	5327.7 ug/L	5327.7 ppb	22:49:08
1	K 766.490 Radial†	13067.1	11398.2	5185.5 ug/L	5185.5 ppb	22:48:48
1	Mg 279.077 IEC†	50.6	51.0	4984.1 ug/L	4984.1 ppb	22:49:08
1	Na 589.592 Radial†	30346.6	32248.9	10682 ug/L	10682 ppb	22:48:48
1	Sr 421.552†	53799.7	55781.0	517.25 ug/L	517.25 ppb	22:48:48
1	Sc 361.383	828936.7	828936.7	101.77 %		22:50:05
1	Y 371.029	701120.4	701120.4	100.08 %		22:50:05
1	Ag 328.068†	100218.8	98261.1	514.58 ug/L	514.58 ppb	22:50:11
1	As 188.979†	886.5	888.5	517.14 ug/L	517.14 ppb	22:50:31
1	B 249.677†	17638.8	17523.8	497.23 ug/L	497.23 ppb	22:50:11
1	Ba 233.527†	54504.9	53552.2	516.38 ug/L	516.38 ppb	22:50:11
1	Be 313.107†	1179570.5	1162472.6	516.28 ug/L	516.28 ppb	22:50:05
1	Cd 226.502†	34910.6	34463.6	518.03 ug/L	518.03 ppb	22:50:11
1	Co 228.616†	19957.2	19651.7	527.12 ug/L	527.12 ppb	22:50:11
1	Cr 267.716†	38990.4	38234.7	516.35 ug/L	516.35 ppb	22:50:11
1	Cu 324.752†	164030.3	155189.9	511.61 ug/L	511.61 ppb	22:50:11
1	Mn 257.610†	390319.5	383114.7	518.28 ug/L	518.28 ppb	22:50:05
1	Mo 202.031†	5793.1	5684.9	508.55 ug/L	508.55 ppb	22:50:31
1	Ni 231.604†	16435.5	16079.2	524.70 ug/L	524.70 ppb	22:50:11
1	P 214.914†	3487.6	3249.1	2472.1 ug/L	2472.1 ppb	22:50:31
1	Pb 220.353†	3220.0	3206.8	516.10 ug/L	516.10 ppb	22:50:31
1	S 181.975 Axial†	580.8	543.9	997.83 ug/L	997.83 ppb	22:50:31
1	Sb 206.836†	1219.2	1169.2	520.42 ug/L	520.42 ppb	22:50:31
1	Se 196.026†	598.9	607.1	532.67 ug/L	532.67 ppb	22:50:31
1	Si 251.611†	67720.4	65999.6	2529.8 ug/L	2529.8 ppb	22:50:11
1	Sn 189.927†	2168.7	2123.7	499.21 ug/L	499.21 ppb	22:50:31
1	Ti 334.940†	289583.2	285544.4	499.82 ug/L	499.82 ppb	22:50:11
1	Tl 190.801†	1280.4	1281.5	517.62 ug/L	517.62 ppb	22:50:31
1	U 409.014†	15651.3	17428.3	518.87 ug/L	518.87 ppb	22:50:11
1	V 292.402†	63780.3	63904.5	521.04 ug/L	521.04 ppb	22:50:11
1	Zn 213.857†	42553.0	41302.3	512.64 ug/L	512.64 ppb	22:50:11
1	SiO2†	67948.2	66237.3	5404.6 ug/L	5404.6 ppb	22:51:38
2	Sc Radial	3282.8	3282.8	97.6 %		22:49:33
2	Y RADIAL	2707.4	2707.4	97.08 %		22:49:33
2	Al 396.153Radial†	2309.8	2436.0	5146.9 ug/L	5146.9 ppb	22:49:13
2	Ca 317.933Radial†	1310.4	1331.7	5236.4 ug/L	5236.4 ppb	22:49:33
2	Fe 238.204 Radial†	186.3	183.6	5172.4 ug/L	5172.4 ppb	22:49:33
2	K 766.490 Radial†	13096.3	11262.2	5123.7 ug/L	5123.7 ppb	22:49:13
2	Mg 279.077 IEC†	55.7	55.5	5427.7 ug/L	5427.7 ppb	22:49:33
2	Na 589.592 Radial†	29771.0	31273.7	10359 ug/L	10359 ppb	22:49:13
2	Sr 421.552†	52783.0	54056.0	501.25 ug/L	501.25 ppb	22:49:13
2	Sc 361.383	823715.9	823715.9	101.13 %		22:50:36
2	Y 371.029	696841.1	696841.1	99.467 %		22:50:36
2	Ag 328.068†	99950.7	98620.1	516.41 ug/L	516.41 ppb	22:50:42
2	As 188.979†	882.3	889.9	517.93 ug/L	517.93 ppb	22:51:02
2	B 249.677†	17538.1	17534.1	497.55 ug/L	497.55 ppb	22:50:42
2	Ba 233.527†	54181.1	53571.4	516.56 ug/L	516.56 ppb	22:50:42
2	Be 313.107†	1177918.6	1168185.1	518.81 ug/L	518.81 ppb	22:50:36
2	Cd 226.502†	34778.5	34550.4	519.35 ug/L	519.35 ppb	22:50:42
2	Co 228.616†	19854.6	19674.6	527.73 ug/L	527.73 ppb	22:50:42
2	Cr 267.716†	38976.9	38464.1	519.44 ug/L	519.44 ppb	22:50:42
2	Cu 324.752†	163533.0	155719.8	513.35 ug/L	513.35 ppb	22:50:42
2	Mn 257.610†	389188.1	384426.7	520.02 ug/L	520.02 ppb	22:50:36
2	Mo 202.031†	5784.3	5712.3	510.99 ug/L	510.99 ppb	22:51:02
2	Ni 231.604†	16366.7	16113.5	525.82 ug/L	525.82 ppb	22:50:42

2	P 214.914†	3472.3	3255.8	2477.1 ug/L	2477.1 ppb	22:51:02
2	Pb 220.353†	3220.5	3227.4	519.39 ug/L	519.39 ppb	22:51:02
2	S 181.975 Axial†	586.1	552.7	1014.1 ug/L	1014.1 ppb	22:51:02
2	Sb 206.836†	1222.6	1180.2	525.27 ug/L	525.27 ppb	22:51:02
2	Se 196.026†	601.7	613.5	537.70 ug/L	537.70 ppb	22:51:02
2	Si 251.611†	67394.2	66098.8	2533.6 ug/L	2533.6 ppb	22:50:42
2	Sn 189.927†	2181.1	2149.5	505.27 ug/L	505.27 ppb	22:51:02
2	Ti 334.940†	288790.4	286563.8	501.57 ug/L	501.57 ppb	22:50:42
2	Tl 190.801†	1280.4	1289.5	520.84 ug/L	520.84 ppb	22:51:02
2	U 409.014†	15721.2	17594.9	523.86 ug/L	523.86 ppb	22:50:42
2	V 292.402†	63568.2	64092.0	522.62 ug/L	522.62 ppb	22:50:42
2	Zn 213.857†	42360.7	41377.2	513.59 ug/L	513.59 ppb	22:50:42
2	SiO2†	68073.8	66784.6	5449.3 ug/L	5449.3 ppb	22:51:43
3	Sc Radial	3260.8	3260.8	96.9 %		22:49:58
3	Y RADIAL	2686.1	2686.1	96.32 %		22:49:58
3	Al 396.153Radial†	2345.6	2488.9	5259.1 ug/L	5259.1 ppb	22:49:38
3	Ca 317.933Radial†	1305.4	1335.5	5251.5 ug/L	5251.5 ppb	22:49:58
3	Fe 238.204 Radial†	189.3	188.0	5298.2 ug/L	5298.2 ppb	22:49:58
3	K 766.490 Radial†	13300.7	11563.7	5260.9 ug/L	5260.9 ppb	22:49:38
3	Mg 279.077 IEC†	51.0	51.1	4995.8 ug/L	4995.8 ppb	22:49:58
3	Na 589.592 Radial†	30282.0	32006.8	10602 ug/L	10602 ppb	22:49:38
3	Sr 421.552†	53442.1	55101.1	510.94 ug/L	510.94 ppb	22:49:38
3	Sc 361.383	825384.9	825384.9	101.34 %		22:51:07
3	Y 371.029	697980.2	697980.2	99.630 %		22:51:07
3	Ag 328.068†	100884.7	99341.9	520.21 ug/L	520.21 ppb	22:51:13
3	As 188.979†	895.7	901.3	524.56 ug/L	524.56 ppb	22:51:33
3	B 249.677†	17788.6	17746.3	503.56 ug/L	503.56 ppb	22:51:13
3	Ba 233.527†	54869.5	54142.4	522.07 ug/L	522.07 ppb	22:51:13
3	Be 313.107†	1183415.5	1171254.3	520.18 ug/L	520.18 ppb	22:51:07
3	Cd 226.502†	35136.6	34834.2	523.61 ug/L	523.61 ppb	22:51:13
3	Co 228.616†	20075.8	19853.2	532.52 ug/L	532.52 ppb	22:51:13
3	Cr 267.716†	39340.7	38745.2	523.24 ug/L	523.24 ppb	22:51:13
3	Cu 324.752†	165147.5	156986.0	517.53 ug/L	517.53 ppb	22:51:13
3	Mn 257.610†	391384.1	385815.6	521.92 ug/L	521.92 ppb	22:51:07
3	Mo 202.031†	5816.0	5732.0	512.77 ug/L	512.77 ppb	22:51:33
3	Ni 231.604†	16535.5	16247.4	530.18 ug/L	530.18 ppb	22:51:13
3	P 214.914†	3495.5	3271.7	2488.8 ug/L	2488.8 ppb	22:51:33
3	Pb 220.353†	3256.5	3256.4	524.06 ug/L	524.06 ppb	22:51:33
3	S 181.975 Axial†	586.9	552.3	1013.4 ug/L	1013.4 ppb	22:51:33
3	Sb 206.836†	1233.2	1188.2	528.75 ug/L	528.75 ppb	22:51:33
3	Se 196.026†	600.9	611.6	536.39 ug/L	536.39 ppb	22:51:33
3	Si 251.611†	68164.6	66724.3	2557.6 ug/L	2557.6 ppb	22:51:13
3	Sn 189.927†	2191.5	2155.3	506.64 ug/L	506.64 ppb	22:51:33
3	Ti 334.940†	291239.3	288403.0	504.82 ug/L	504.82 ppb	22:51:13
3	Tl 190.801†	1295.3	1301.6	525.71 ug/L	525.71 ppb	22:51:33
3	U 409.014†	15864.3	17704.6	527.11 ug/L	527.11 ppb	22:51:13
3	V 292.402†	64170.1	64558.7	526.38 ug/L	526.38 ppb	22:51:13
3	Zn 213.857†	42847.2	41772.5	518.49 ug/L	518.49 ppb	22:51:13
3	SiO2†	67729.6	66308.9	5410.3 ug/L	5410.3 ppb	22:51:48

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	826012.5	101.42 %	0.327			0.32%
Sc Radial	3262.1	97.0 %	0.60			0.62%
Y 371.029	698647.2	99.725 %	0.3164			0.32%
Y RADIAL	2690.3	96.47 %	0.552			0.57%
Ag 328.068†	98741.0	517.07 ug/L	2.873	517.07 ppb	2.873	0.56%
QC value within limits for Ag 328.068 Recovery = 103.41%						
Al 396.153Radial†	2483.1	5246.9 ug/L	94.51	5246.9 ppb	94.51	1.80%
QC value within limits for Al 396.153Radial Recovery = 104.94%						
As 188.979†	893.2	519.87 ug/L	4.076	519.87 ppb	4.076	0.78%
QC value within limits for As 188.979 Recovery = 103.97%						
B 249.677†	17601.4	499.45 ug/L	3.567	499.45 ppb	3.567	0.71%
QC value within limits for B 249.677 Recovery = 99.89%						
Ba 233.527†	53755.3	518.34 ug/L	3.232	518.34 ppb	3.232	0.62%
QC value within limits for Ba 233.527 Recovery = 103.67%						
Be 313.107†	1167304.0	518.42 ug/L	1.980	518.42 ppb	1.980	0.38%
QC value within limits for Be 313.107 Recovery = 103.68%						
Ca 317.933Radial†	1329.6	5228.0 ug/L	28.61	5228.0 ppb	28.61	0.55%

QC value within limits for Ca 317.933 Radial Recovery = 104.56%

Cd	226.502†	34616.1	520.33 ug/L	2.915	520.33 ppb	2.915	0.56%
QC value within limits for Cd 226.502 Recovery = 104.07%							
Co	228.616†	19726.5	529.12 ug/L	2.957	529.12 ppb	2.957	0.56%
QC value within limits for Co 228.616 Recovery = 105.82%							
Cr	267.716†	38481.3	519.68 ug/L	3.449	519.68 ppb	3.449	0.66%
QC value within limits for Cr 267.716 Recovery = 103.94%							
Cu	324.752†	155965.2	514.16 ug/L	3.040	514.16 ppb	3.040	0.59%
QC value within limits for Cu 324.752 Recovery = 102.83%							
Fe	238.204 Radial†	186.9	5266.1 ug/L	82.50	5266.1 ppb	82.50	1.57%
QC value within limits for Fe 238.204 Radial Recovery = 105.32%							
K	766.490 Radial†	11408.0	5190.0 ug/L	68.74	5190.0 ppb	68.74	1.32%
QC value within limits for K 766.490 Radial Recovery = 103.80%							
Mg	279.077 IEC†	52.5	5135.9 ug/L	252.81	5135.9 ppb	252.81	4.92%
QC value within limits for Mg 279.077 IEC Recovery = 102.72%							
Mn	257.610†	384452.3	520.07 ug/L	1.825	520.07 ppb	1.825	0.35%
QC value within limits for Mn 257.610 Recovery = 104.01%							
Mo	202.031†	5709.7	510.77 ug/L	2.115	510.77 ppb	2.115	0.41%
QC value within limits for Mo 202.031 Recovery = 102.15%							
Na	589.592 Radial†	31843.1	10548 ug/L	168.2	10548 ppb	168.2	1.59%
QC value within limits for Na 589.592 Radial Recovery = 105.48%							
Ni	231.604†	16146.7	526.90 ug/L	2.899	526.90 ppb	2.899	0.55%
QC value within limits for Ni 231.604 Recovery = 105.38%							
P	214.914†	3258.9	2479.3 ug/L	8.60	2479.3 ppb	8.60	0.35%
QC value within limits for P 214.914 Recovery = 99.17%							
Pb	220.353†	3230.2	519.85 ug/L	3.999	519.85 ppb	3.999	0.77%
QC value within limits for Pb 220.353 Recovery = 103.97%							
S	181.975 Axial†	549.7	1008.4 ug/L	9.20	1008.4 ppb	9.20	0.91%
QC value within limits for S 181.975 Axial Recovery = 100.84%							
Sb	206.836†	1179.2	524.82 ug/L	4.186	524.82 ppb	4.186	0.80%
QC value within limits for Sb 206.836 Recovery = 104.96%							
Se	196.026†	610.7	535.58 ug/L	2.608	535.58 ppb	2.608	0.49%
QC value within limits for Se 196.026 Recovery = 107.12%							
Si	251.611†	66274.2	2540.4 ug/L	15.07	2540.4 ppb	15.07	0.59%
QC value within limits for Si 251.611 Recovery = 101.61%							
Sn	189.927†	2142.8	503.71 ug/L	3.954	503.71 ppb	3.954	0.78%
QC value within limits for Sn 189.927 Recovery = 100.74%							
Sr	421.552†	54979.4	509.82 ug/L	8.058	509.82 ppb	8.058	1.58%
QC value within limits for Sr 421.552 Recovery = 101.96%							
Ti	334.940†	286837.1	502.07 ug/L	2.540	502.07 ppb	2.540	0.51%
QC value within limits for Ti 334.940 Recovery = 100.41%							
Tl	190.801†	1290.9	521.39 ug/L	4.071	521.39 ppb	4.071	0.78%
QC value within limits for Tl 190.801 Recovery = 104.28%							
U	409.014†	17575.9	523.28 ug/L	4.152	523.28 ppb	4.152	0.79%
QC value within limits for U 409.014 Recovery = 104.66%							
V	292.402†	64185.1	523.35 ug/L	2.741	523.35 ppb	2.741	0.52%
QC value within limits for V 292.402 Recovery = 104.67%							
Zn	213.857†	41484.0	514.90 ug/L	3.141	514.90 ppb	3.141	0.61%
QC value within limits for Zn 213.857 Recovery = 102.98%							
SiO2†		66443.6	5421.4 ug/L	24.32	5421.4 ppb	24.32	0.45%
QC value within limits for SiO2 Recovery = 101.38%							

All analyte(s) passed QC.

Sequence No.: 37

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/8/2010 22:53:59

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	3257.3	3257.3	96.8 %		22:56:10
1	Y RADIAL	2708.2	2708.2	97.12 %		22:56:10
1	Al 396.153Radial†	-72.1	-5.1	-10.877 ug/L	-10.877 ppb	22:56:10
1	Ca 317.933Radial†	11.6	1.0	3.7798 ug/L	3.7798 ppb	22:56:10
1	Fe 238.204 Radial†	7.4	0.4	10.145 ug/L	10.145 ppb	22:56:10
1	K 766.490 Radial†	2035.0	-54.7	-24.896 ug/L	-24.896 ppb	22:55:50
1	Mg 279.077 IEC†	-0.1	-1.6	-156.16 ug/L	-156.16 ppb	22:56:10
1	Na 589.592 Radial†	-794.5	-49.6	-16.424 ug/L	-16.424 ppb	22:55:50
1	Sr 421.552†	2.9	-21.5	-0.1993 ug/L	-0.1993 ppb	22:55:50
1	Sc 361.383	817346.2	817346.2	100.35 %		22:57:07
1	Y 371.029	700958.2	700958.2	100.06 %		22:57:07
1	Ag 328.068†	138.2	-72.2	-0.3746 ug/L	-0.3746 ppb	22:57:07
1	As 188.979†	-19.5	-2.0	-1.1337 ug/L	-1.1337 ppb	22:57:27
1	B 249.677†	-314.3	-120.6	-3.4390 ug/L	-3.4390 ppb	22:57:27
1	Ba 233.527†	13.7	11.5	0.1116 ug/L	0.1116 ppb	22:57:27
1	Be 313.107†	-3453.9	32.0	0.0142 ug/L	0.0142 ppb	22:57:07
1	Cd 226.502†	-148.5	13.8	0.2070 ug/L	0.2070 ppb	22:57:27
1	Co 228.616†	-44.1	-1.3	-0.0344 ug/L	-0.0344 ppb	22:57:27
1	Cr 267.716†	58.1	-17.8	-0.2404 ug/L	-0.2404 ppb	22:57:27
1	Cu 324.752†	5914.6	-85.8	-0.2844 ug/L	-0.2844 ppb	22:57:07
1	Mn 257.610†	450.5	51.3	0.0767 ug/L	0.0767 ppb	22:57:27
1	Mo 202.031†	12.9	5.6	0.5034 ug/L	0.5034 ppb	22:57:27
1	Ni 231.604†	50.5	-19.4	-0.6323 ug/L	-0.6323 ppb	22:57:27
1	P 214.914†	176.3	-1.9	-1.4610 ug/L	-1.4610 ppb	22:57:27
1	Pb 220.353†	-43.1	0.1	0.0108 ug/L	0.0108 ppb	22:57:27
1	S 181.975 Axial†	29.5	2.5	4.6537 ug/L	4.6537 ppb	22:57:27
1	Sb 206.836†	33.6	4.8	2.0877 ug/L	2.0877 ppb	22:57:27
1	Se 196.026†	-23.5	-4.8	-4.0420 ug/L	-4.0420 ppb	22:57:27
1	Si 251.611†	488.8	-52.6	-2.0288 ug/L	-2.0288 ppb	22:57:27
1	Sn 189.927†	13.3	6.0	1.4168 ug/L	1.4168 ppb	22:57:27
1	Ti 334.940†	-1006.8	8.2	0.0260 ug/L	0.0260 ppb	22:57:07
1	Tl 190.801†	-25.6	-2.0	-0.8175 ug/L	-0.8175 ppb	22:57:27
1	U 409.014†	-1923.7	132.9	3.9704 ug/L	3.9704 ppb	22:57:07
1	V 292.402†	-1197.6	43.0	0.3567 ug/L	0.3567 ppb	22:57:07
1	Zn 213.857†	537.4	26.9	0.3404 ug/L	0.3404 ppb	22:57:27
1	SiO2†	487.2	-40.5	-3.3226 ug/L	-3.3226 ppb	22:58:38
2	Sc Radial	3290.0	3290.0	97.8 %		22:56:36
2	Y RADIAL	2735.2	2735.2	98.08 %		22:56:36
2	Al 396.153Radial†	-69.3	-1.5	-3.1782 ug/L	-3.1782 ppb	22:56:36
2	Ca 317.933Radial†	6.1	-4.7	-18.510 ug/L	-18.510 ppb	22:56:36
2	Fe 238.204 Radial†	10.1	3.0	84.502 ug/L	84.502 ppb	22:56:36
2	K 766.490 Radial†	2220.9	114.5	52.159 ug/L	52.159 ppb	22:56:16
2	Mg 279.077 IEC†	1.4	-0.1	-10.807 ug/L	-10.807 ppb	22:56:36
2	Na 589.592 Radial†	-833.7	-81.5	-26.992 ug/L	-26.992 ppb	22:56:16
2	Sr 421.552†	29.6	5.7	0.0528 ug/L	0.0528 ppb	22:56:16
2	Sc 361.383	824594.6	824594.6	101.24 %		22:57:33
2	Y 371.029	707992.5	707992.5	101.06 %		22:57:33
2	Ag 328.068†	212.2	-0.3	0.0227 ug/L	0.0227 ppb	22:57:33
2	As 188.979†	-23.2	-5.5	-3.1429 ug/L	-3.1429 ppb	22:57:53
2	B 249.677†	-308.2	-111.8	-3.2019 ug/L	-3.2019 ppb	22:57:53
2	Ba 233.527†	2.4	0.2	0.0046 ug/L	0.0046 ppb	22:57:53
2	Be 313.107†	-3467.6	48.7	0.0218 ug/L	0.0218 ppb	22:57:33
2	Cd 226.502†	-155.0	8.7	0.1224 ug/L	0.1224 ppb	22:57:53
2	Co 228.616†	-37.5	5.6	0.1507 ug/L	0.1507 ppb	22:57:53
2	Cr 267.716†	73.4	-3.2	-0.0409 ug/L	-0.0409 ppb	22:57:53
2	Cu 324.752†	5929.7	-122.7	-0.4016 ug/L	-0.4016 ppb	22:57:33
2	Mn 257.610†	437.8	34.7	0.0557 ug/L	0.0557 ppb	22:57:53
2	Mo 202.031†	17.6	10.2	0.9161 ug/L	0.9161 ppb	22:57:53
2	Ni 231.604†	58.3	-12.1	-0.3961 ug/L	-0.3961 ppb	22:57:53

2	P 214.914†	187.3	7.3	5.8087 ug/L	5.8087 ppb	22:57:53
2	Pb 220.353†	-46.2	-2.6	-0.4357 ug/L	-0.4357 ppb	22:57:53
2	S 181.975 Axial†	35.6	8.4	15.367 ug/L	15.367 ppb	22:57:53
2	Sb 206.836†	21.1	-7.9	-3.3798 ug/L	-3.3798 ppb	22:57:53
2	Se 196.026†	-14.7	4.1	3.7413 ug/L	3.7413 ppb	22:57:53
2	Si 251.611†	512.8	-33.2	-1.2887 ug/L	-1.2887 ppb	22:57:53
2	Sn 189.927†	1.5	-5.7	-1.3494 ug/L	-1.3494 ppb	22:57:53
2	Ti 334.940†	-976.6	46.8	0.0792 ug/L	0.0792 ppb	22:57:33
2	Tl 190.801†	-30.2	-6.3	-2.5437 ug/L	-2.5437 ppb	22:57:53
2	U 409.014†	-1982.0	92.2	2.7438 ug/L	2.7438 ppb	22:57:33
2	V 292.402†	-1245.0	6.7	0.0594 ug/L	0.0594 ppb	22:57:33
2	Zn 213.857†	532.2	17.1	0.2049 ug/L	0.2049 ppb	22:57:53
2	SiO2†	495.7	-36.3	-2.9934 ug/L	-2.9934 ppb	22:58:58
3	Sc Radial	3279.6	3279.6	97.5 %		22:57:01
3	Y RADIAL	2721.0	2721.0	97.57 %		22:57:01
3	Al 396.153Radial†	-67.4	0.2	0.4785 ug/L	0.4785 ppb	22:57:01
3	Ca 317.933Radial†	12.2	1.6	6.2228 ug/L	6.2228 ppb	22:57:01
3	Fe 238.204 Radial†	8.5	1.4	39.409 ug/L	39.409 ppb	22:57:01
3	K 766.490 Radial†	2121.6	19.9	9.0471 ug/L	9.0471 ppb	22:56:41
3	Mg 279.077 IEC†	2.4	0.9	90.980 ug/L	90.980 ppb	22:57:01
3	Na 589.592 Radial†	-772.0	-20.9	-6.9299 ug/L	-6.9299 ppb	22:56:41
3	Sr 421.552†	10.8	-13.4	-0.1244 ug/L	-0.1244 ppb	22:56:41
3	Sc 361.383	816261.6	816261.6	100.22 %		22:57:58
3	Y 371.029	699565.4	699565.4	99.856 %		22:57:58
3	Ag 328.068†	159.3	-51.0	-0.2516 ug/L	-0.2516 ppb	22:57:58
3	As 188.979†	-19.7	-2.2	-1.2515 ug/L	-1.2515 ppb	22:58:18
3	B 249.677†	-308.0	-114.7	-3.2765 ug/L	-3.2765 ppb	22:58:18
3	Ba 233.527†	5.6	3.3	0.0334 ug/L	0.0334 ppb	22:58:18
3	Be 313.107†	-3495.8	-14.4	-0.0065 ug/L	-0.0065 ppb	22:57:58
3	Cd 226.502†	-165.5	-3.3	-0.0539 ug/L	-0.0539 ppb	22:58:18
3	Co 228.616†	-49.4	-6.6	-0.1800 ug/L	-0.1800 ppb	22:58:18
3	Cr 267.716†	76.7	0.8	0.0136 ug/L	0.0136 ppb	22:58:18
3	Cu 324.752†	5924.0	-68.6	-0.2230 ug/L	-0.2230 ppb	22:57:58
3	Mn 257.610†	440.0	41.4	0.0561 ug/L	0.0561 ppb	22:58:18
3	Mo 202.031†	1.4	-5.8	-0.5171 ug/L	-0.5171 ppb	22:58:18
3	Ni 231.604†	76.6	6.7	0.2199 ug/L	0.2199 ppb	22:58:18
3	P 214.914†	184.7	6.7	5.3143 ug/L	5.3143 ppb	22:58:18
3	Pb 220.353†	-32.8	10.2	1.6347 ug/L	1.6347 ppb	22:58:18
3	S 181.975 Axial†	27.3	0.4	0.7089 ug/L	0.7089 ppb	22:58:18
3	Sb 206.836†	25.4	-3.3	-1.4555 ug/L	-1.4555 ppb	22:58:18
3	Se 196.026†	-16.4	2.3	2.0535 ug/L	2.0535 ppb	22:58:18
3	Si 251.611†	488.2	-52.6	-2.0145 ug/L	-2.0145 ppb	22:58:18
3	Sn 189.927†	5.3	-1.9	-0.4552 ug/L	-0.4552 ppb	22:58:18
3	Ti 334.940†	-1039.5	-25.8	-0.0510 ug/L	-0.0510 ppb	22:57:58
3	Tl 190.801†	-28.7	-5.2	-2.0955 ug/L	-2.0955 ppb	22:58:18
3	U 409.014†	-2116.3	-61.7	-1.8486 ug/L	-1.8486 ppb	22:57:58
3	V 292.402†	-1236.5	2.7	0.0067 ug/L	0.0067 ppb	22:57:58
3	Zn 213.857†	537.9	28.2	0.3458 ug/L	0.3458 ppb	22:58:18
3	SiO2†	500.4	-26.7	-2.1667 ug/L	-2.1667 ppb	22:59:18

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819400.8	100.60 %	0.556			0.55%
Sc Radial	3275.6	97.4 %	0.50			0.51%
Y 371.029	702838.7	100.32 %	0.645			0.64%
Y RADIAL	2721.5	97.59 %	0.483			0.50%
Ag 328.068†	-41.2	-0.2012 ug/L	0.20340	-0.2012 ppb	0.20340	101.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.1	-4.5255 ug/L	5.79636	-4.5255 ppb	5.79636	128.08%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.2	-1.8427 ug/L	1.12755	-1.8427 ppb	1.12755	61.19%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-115.7	-3.3058 ug/L	0.12125	-3.3058 ppb	0.12125	3.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.0	0.0499 ug/L	0.05535	0.0499 ppb	0.05535	111.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	22.1	0.0098 ug/L	0.01462	0.0098 ppb	0.01462	148.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.7	-2.8357 ug/L	13.62900	-2.8357 ppb	13.62900	480.62%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	6.4	0.0918 ug/L	0.13312	0.0918 ppb	0.13312	144.93%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.8	-0.0212 ug/L	0.16575	-0.0212 ppb	0.16575	781.44%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-6.7	-0.0892 ug/L	0.13373	-0.0892 ppb	0.13373	149.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-92.4	-0.3030 ug/L	0.09071	-0.3030 ppb	0.09071	29.94%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.6	44.686 ug/L	37.4580	44.686 ppb	37.4580	83.83%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	26.6	12.104 ug/L	38.6184	12.104 ppb	38.6184	319.07%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.3	-25.329 ug/L	124.2087	-25.329 ppb	124.2087	490.38%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	42.4	0.0628 ug/L	0.01202	0.0628 ppb	0.01202	19.13%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.3	0.3008 ug/L	0.73777	0.3008 ppb	0.73777	245.29%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-50.7	-16.782 ug/L	10.0361	-16.782 ppb	10.0361	59.80%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-8.3	-0.2695 ug/L	0.43998	-0.2695 ppb	0.43998	163.27%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.0	3.2207 ug/L	4.06194	3.2207 ppb	4.06194	126.12%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	2.6	0.4033 ug/L	1.08953	0.4033 ppb	1.08953	270.17%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.8	6.9099 ug/L	7.58514	6.9099 ppb	7.58514	109.77%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-2.1	-0.9158 ug/L	2.77341	-0.9158 ppb	2.77341	302.83%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.5	0.5843 ug/L	4.09437	0.5843 ppb	4.09437	700.73%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-46.2	-1.7774 ug/L	0.42326	-1.7774 ppb	0.42326	23.81%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.5	-0.1293 ug/L	1.41163	-0.1293 ppb	1.41163	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-9.7	-0.0903 ug/L	0.12949	-0.0903 ppb	0.12949	143.38%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	9.8	0.0181 ug/L	0.06545	0.0181 ppb	0.06545	361.59%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-4.5	-1.8189 ug/L	0.89573	-1.8189 ppb	0.89573	49.25%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	54.5	1.6219 ug/L	3.06740	1.6219 ppb	3.06740	189.13%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	17.5	0.1409 ug/L	0.18868	0.1409 ppb	0.18868	133.87%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	24.1	0.2970 ug/L	0.07983	0.2970 ppb	0.07983	26.87%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-34.5	-2.8276 ug/L	0.59553	-2.8276 ppb	0.59553	21.06%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						



Sequence No.: 45  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 3/8/2010 23:50:18  
 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	3293.8	3293.8	97.9 %		23:52:30
1	Y RADIAL	2718.1	2718.1	97.47 %		23:52:30
1	Al 396.153Radial†	2359.1	2478.3	5236.7 ug/L	5236.7 ppb	23:52:10
1	Ca 317.933Radial†	1316.6	1333.4	5243.3 ug/L	5243.3 ppb	23:52:30
1	Fe 238.204 Radial†	195.9	192.8	5430.9 ug/L	5430.9 ppb	23:52:30
1	K 766.490 Radial†	13402.6	11530.2	5245.7 ug/L	5245.7 ppb	23:52:10
1	Mg 279.077 IEC†	54.9	54.6	5332.7 ug/L	5332.7 ppb	23:52:30
1	Na 589.592 Radial†	30087.6	31494.9	10432 ug/L	10432 ppb	23:52:10
1	Sr 421.552†	53240.3	54342.1	503.91 ug/L	503.91 ppb	23:52:10
1	Sc 361.383	823350.1	823350.1	101.09 %		23:53:27
1	Y 371.029	695944.2	695944.2	99.339 %		23:53:27
1	Ag 328.068†	100799.0	99503.2	521.10 ug/L	521.10 ppb	23:53:33
1	As 188.979†	894.7	902.5	525.32 ug/L	525.32 ppb	23:53:53
1	B 249.677†	17845.7	17846.1	506.38 ug/L	506.38 ppb	23:53:33
1	Ba 233.527†	54970.4	54376.0	524.32 ug/L	524.32 ppb	23:53:33
1	Be 313.107†	1177369.2	1168159.1	518.81 ug/L	518.81 ppb	23:53:27
1	Cd 226.502†	35193.0	34975.7	525.72 ug/L	525.72 ppb	23:53:33
1	Co 228.616†	20153.5	19979.0	535.89 ug/L	535.89 ppb	23:53:33
1	Cr 267.716†	39373.8	38873.9	524.98 ug/L	524.98 ppb	23:53:33
1	Cu 324.752†	165241.1	157481.3	519.17 ug/L	519.17 ppb	23:53:33
1	Mn 257.610†	390042.0	385442.3	521.42 ug/L	521.42 ppb	23:53:27
1	Mo 202.031†	5820.6	5750.7	514.45 ug/L	514.45 ppb	23:53:53
1	Ni 231.604†	16537.9	16290.1	531.58 ug/L	531.58 ppb	23:53:33
1	P 214.914†	3490.2	3275.0	2491.0 ug/L	2491.0 ppb	23:53:53
1	Pb 220.353†	3258.1	3266.0	525.56 ug/L	525.56 ppb	23:53:53
1	S 181.975 Axial†	581.0	547.9	1005.3 ug/L	1005.3 ppb	23:53:53
1	Sb 206.836†	1224.5	1182.6	526.41 ug/L	526.41 ppb	23:53:53
1	Se 196.026†	595.5	607.7	533.46 ug/L	533.46 ppb	23:53:53
1	Si 251.611†	68846.1	67564.7	2589.9 ug/L	2589.9 ppb	23:53:33
1	Sn 189.927†	2191.1	2160.3	507.80 ug/L	507.80 ppb	23:53:53
1	Ti 334.940†	292089.0	289953.7	507.50 ug/L	507.50 ppb	23:53:33
1	Tl 190.801†	1281.7	1291.4	521.59 ug/L	521.59 ppb	23:53:53
1	U 409.014†	15927.9	17806.2	530.13 ug/L	530.13 ppb	23:53:33
1	V 292.402†	64264.4	64808.6	528.40 ug/L	528.40 ppb	23:53:33
1	Zn 213.857†	42892.5	41921.9	520.33 ug/L	520.33 ppb	23:53:33
1	SiO2†	68180.1	66919.6	5460.2 ug/L	5460.2 ppb	23:55:00
2	Sc Radial	3261.2	3261.2	97.0 %		23:52:55
2	Y RADIAL	2702.5	2702.5	96.91 %		23:52:55
2	Al 396.153Radial†	2369.5	2513.1	5310.2 ug/L	5310.2 ppb	23:52:35
2	Ca 317.933Radial†	1307.5	1337.5	5259.5 ug/L	5259.5 ppb	23:52:55
2	Fe 238.204 Radial†	191.4	190.1	5357.2 ug/L	5357.2 ppb	23:52:55
2	K 766.490 Radial†	13359.8	11622.7	5287.8 ug/L	5287.8 ppb	23:52:35
2	Mg 279.077 IEC†	54.7	54.9	5361.6 ug/L	5361.6 ppb	23:52:55
2	Na 589.592 Radial†	30187.6	31905.1	10568 ug/L	10568 ppb	23:52:35
2	Sr 421.552†	53735.7	55396.3	513.68 ug/L	513.68 ppb	23:52:35
2	Sc 361.383	813497.9	813497.9	99.879 %		23:53:58
2	Y 371.029	687577.7	687577.7	98.145 %		23:53:58
2	Ag 328.068†	100822.6	100734.5	527.51 ug/L	527.51 ppb	23:54:04
2	As 188.979†	898.2	916.7	533.52 ug/L	533.52 ppb	23:54:24
2	B 249.677†	17917.6	18131.9	514.51 ug/L	514.51 ppb	23:54:04
2	Ba 233.527†	55115.8	55180.1	532.07 ug/L	532.07 ppb	23:54:04
2	Be 313.107†	1164408.4	1169288.1	519.33 ug/L	519.33 ppb	23:53:58
2	Cd 226.502†	35368.7	35573.2	534.72 ug/L	534.72 ppb	23:54:04
2	Co 228.616†	20199.0	20266.1	543.60 ug/L	543.60 ppb	23:54:04
2	Cr 267.716†	39337.7	39309.5	530.86 ug/L	530.86 ppb	23:54:04
2	Cu 324.752†	164573.3	158792.3	523.48 ug/L	523.48 ppb	23:54:04
2	Mn 257.610†	385381.6	385449.2	521.42 ug/L	521.42 ppb	23:53:58
2	Mo 202.031†	5845.2	5845.1	522.88 ug/L	522.88 ppb	23:54:24
2	Ni 231.604†	16596.9	16547.2	539.97 ug/L	539.97 ppb	23:54:04

2	P 214.914†	3506.8	3333.4	2536.6 ug/L	2536.6 ppb	23:54:24
2	Pb 220.353†	3238.8	3285.7	528.78 ug/L	528.78 ppb	23:54:24
2	S 181.975 Axial†	582.4	556.3	1020.7 ug/L	1020.7 ppb	23:54:24
2	Sb 206.836†	1234.5	1207.3	537.35 ug/L	537.35 ppb	23:54:24
2	Se 196.026†	608.1	627.5	550.11 ug/L	550.11 ppb	23:54:24
2	Si 251.611†	68605.8	68148.9	2612.3 ug/L	2612.3 ppb	23:54:04
2	Sn 189.927†	2204.6	2200.0	517.14 ug/L	517.14 ppb	23:54:24
2	Ti 334.940†	292007.5	293371.6	513.49 ug/L	513.49 ppb	23:54:04
2	Tl 190.801†	1278.4	1303.4	526.42 ug/L	526.42 ppb	23:54:24
2	U 409.014†	15776.1	17845.1	531.28 ug/L	531.28 ppb	23:54:04
2	V 292.402†	64294.8	65608.9	534.97 ug/L	534.97 ppb	23:54:04
2	Zn 213.857†	42970.1	42513.4	527.69 ug/L	527.69 ppb	23:54:04
2	SiO2†	68376.9	67933.6	5542.9 ug/L	5542.9 ppb	23:55:05
3	Sc Radial	3231.5	3231.5	96.1 %		23:53:20
3	Y RADIAL	2666.5	2666.5	95.62 %		23:53:20
3	Al 396.153Radial†	2396.9	2564.2	5418.7 ug/L	5418.7 ppb	23:53:00
3	Ca 317.933Radial†	1292.9	1334.7	5248.5 ug/L	5248.5 ppb	23:53:20
3	Fe 238.204 Radial†	188.4	188.8	5321.1 ug/L	5321.1 ppb	23:53:20
3	K 766.490 Radial†	13574.9	11973.5	5447.5 ug/L	5447.5 ppb	23:53:00
3	Mg 279.077 IEC†	53.6	54.3	5304.7 ug/L	5304.7 ppb	23:53:20
3	Na 589.592 Radial†	30300.2	32308.9	10702 ug/L	10702 ppb	23:53:00
3	Sr 421.552†	54069.3	56253.8	521.63 ug/L	521.63 ppb	23:53:00
3	Sc 361.383	815187.4	815187.4	100.09 %		23:54:29
3	Y 371.029	689026.9	689026.9	98.352 %		23:54:29
3	Ag 328.068†	101100.5	100802.9	527.86 ug/L	527.86 ppb	23:54:35
3	As 188.979†	896.0	912.7	531.20 ug/L	531.20 ppb	23:54:55
3	B 249.677†	18011.2	18188.2	516.13 ug/L	516.13 ppb	23:54:35
3	Ba 233.527†	55228.3	55178.2	532.05 ug/L	532.05 ppb	23:54:35
3	Be 313.107†	1170984.4	1173442.2	521.17 ug/L	521.17 ppb	23:54:29
3	Cd 226.502†	35389.8	35520.9	533.94 ug/L	533.94 ppb	23:54:35
3	Co 228.616†	20168.5	20193.7	541.65 ug/L	541.65 ppb	23:54:35
3	Cr 267.716†	39440.6	39330.7	531.15 ug/L	531.15 ppb	23:54:35
3	Cu 324.752†	165632.3	159508.9	525.84 ug/L	525.84 ppb	23:54:35
3	Mn 257.610†	387542.0	386808.1	523.26 ug/L	523.26 ppb	23:54:29
3	Mo 202.031†	5839.1	5826.9	521.24 ug/L	521.24 ppb	23:54:55
3	Ni 231.604†	16605.4	16521.3	539.12 ug/L	539.12 ppb	23:54:35
3	P 214.914†	3511.6	3330.9	2534.1 ug/L	2534.1 ppb	23:54:55
3	Pb 220.353†	3268.8	3309.0	532.54 ug/L	532.54 ppb	23:54:55
3	S 181.975 Axial†	587.6	560.3	1027.9 ug/L	1027.9 ppb	23:54:55
3	Sb 206.836†	1241.2	1211.4	539.02 ug/L	539.02 ppb	23:54:55
3	Se 196.026†	615.3	633.4	555.04 ug/L	555.04 ppb	23:54:55
3	Si 251.611†	68974.4	68374.8	2621.0 ug/L	2621.0 ppb	23:54:35
3	Sn 189.927†	2200.2	2191.1	515.05 ug/L	515.05 ppb	23:54:55
3	Ti 334.940†	293232.2	293989.2	514.57 ug/L	514.57 ppb	23:54:35
3	Tl 190.801†	1298.5	1320.9	533.46 ug/L	533.46 ppb	23:54:55
3	U 409.014†	15860.0	17896.2	532.81 ug/L	532.81 ppb	23:54:35
3	V 292.402†	64490.7	65671.2	535.45 ug/L	535.45 ppb	23:54:35
3	Zn 213.857†	43034.4	42488.5	527.39 ug/L	527.39 ppb	23:54:35
3	SiO2†	67617.6	67033.0	5469.3 ug/L	5469.3 ppb	23:55:10

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817345.1	100.35 %	0.647			0.64%
Sc Radial	3262.2	97.0 %	0.93			0.96%
Y 371.029	690849.6	98.612 %	0.6382			0.65%
Y RADIAL	2695.7	96.67 %	0.950			0.98%
Ag 328.068†	100346.8	525.49 ug/L	3.804	525.49 ppb	3.804	0.72%
QC value within limits for Ag 328.068 Recovery = 105.10%						
Al 396.153Radial†	2518.6	5321.9 ug/L	91.59	5321.9 ppb	91.59	1.72%
QC value within limits for Al 396.153Radial Recovery = 106.44%						
As 188.979†	910.6	530.01 ug/L	4.230	530.01 ppb	4.230	0.80%
QC value within limits for As 188.979 Recovery = 106.00%						
B 249.677†	18055.4	512.34 ug/L	5.228	512.34 ppb	5.228	1.02%
QC value within limits for B 249.677 Recovery = 102.47%						
Ba 233.527†	54911.4	529.48 ug/L	4.467	529.48 ppb	4.467	0.84%
QC value within limits for Ba 233.527 Recovery = 105.90%						
Be 313.107†	1170296.5	519.77 ug/L	1.239	519.77 ppb	1.239	0.24%
QC value within limits for Be 313.107 Recovery = 103.95%						
Ca 317.933Radial†	1335.2	5250.4 ug/L	8.26	5250.4 ppb	8.26	0.16%

QC value within limits for Ca 317.933 Radial Recovery = 105.01%							
Cd 226.502†	35356.6	531.46 ug/L	4.984	531.46 ppb	4.984	0.94%	
QC value within limits for Cd 226.502 Recovery = 106.29%							
Co 228.616†	20146.2	540.38 ug/L	4.008	540.38 ppb	4.008	0.74%	
QC value within limits for Co 228.616 Recovery = 108.08%							
Cr 267.716†	39171.4	529.00 ug/L	3.480	529.00 ppb	3.480	0.66%	
QC value within limits for Cr 267.716 Recovery = 105.80%							
Cu 324.752†	158594.2	522.83 ug/L	3.386	522.83 ppb	3.386	0.65%	
QC value within limits for Cu 324.752 Recovery = 104.57%							
Fe 238.204 Radial†	190.6	5369.8 ug/L	55.96	5369.8 ppb	55.96	1.04%	
QC value within limits for Fe 238.204 Radial Recovery = 107.40%							
K 766.490 Radial†	11708.8	5327.0 ug/L	106.47	5327.0 ppb	106.47	2.00%	
QC value within limits for K 766.490 Radial Recovery = 106.54%							
Mg 279.077 IEC†	54.6	5333.0 ug/L	28.44	5333.0 ppb	28.44	0.53%	
QC value within limits for Mg 279.077 IEC Recovery = 106.66%							
Mn 257.610†	385899.8	522.03 ug/L	1.060	522.03 ppb	1.060	0.20%	
QC value within limits for Mn 257.610 Recovery = 104.41%							
Mo 202.031†	5807.5	519.52 ug/L	4.471	519.52 ppb	4.471	0.86%	
QC value within limits for Mo 202.031 Recovery = 103.90%							
Na 589.592 Radial†	31903.0	10568 ug/L	134.8	10568 ppb	134.8	1.28%	
QC value within limits for Na 589.592 Radial Recovery = 105.68%							
Ni 231.604†	16452.9	536.89 ug/L	4.621	536.89 ppb	4.621	0.86%	
QC value within limits for Ni 231.604 Recovery = 107.38%							
P 214.914†	3313.1	2520.6 ug/L	25.63	2520.6 ppb	25.63	1.02%	
QC value within limits for P 214.914 Recovery = 100.82%							
Pb 220.353†	3286.9	528.96 ug/L	3.492	528.96 ppb	3.492	0.66%	
QC value within limits for Pb 220.353 Recovery = 105.79%							
S 181.975 Axial†	554.8	1018.0 ug/L	11.57	1018.0 ppb	11.57	1.14%	
QC value within limits for S 181.975 Axial Recovery = 101.80%							
Sb 206.836†	1200.4	534.26 ug/L	6.850	534.26 ppb	6.850	1.28%	
QC value within limits for Sb 206.836 Recovery = 106.85%							
Se 196.026†	622.8	546.20 ug/L	11.308	546.20 ppb	11.308	2.07%	
QC value within limits for Se 196.026 Recovery = 109.24%							
Si 251.611†	68029.4	2607.7 ug/L	16.01	2607.7 ppb	16.01	0.61%	
QC value within limits for Si 251.611 Recovery = 104.31%							
Sn 189.927†	2183.8	513.33 ug/L	4.900	513.33 ppb	4.900	0.95%	
QC value within limits for Sn 189.927 Recovery = 102.67%							
Sr 421.552†	55330.7	513.07 ug/L	8.880	513.07 ppb	8.880	1.73%	
QC value within limits for Sr 421.552 Recovery = 102.61%							
Ti 334.940†	292438.2	511.85 ug/L	3.805	511.85 ppb	3.805	0.74%	
QC value within limits for Ti 334.940 Recovery = 102.37%							
Tl 190.801†	1305.2	527.15 ug/L	5.968	527.15 ppb	5.968	1.13%	
QC value within limits for Tl 190.801 Recovery = 105.43%							
U 409.014†	17849.1	531.41 ug/L	1.347	531.41 ppb	1.347	0.25%	
QC value within limits for U 409.014 Recovery = 106.28%							
V 292.402†	65362.9	532.94 ug/L	3.937	532.94 ppb	3.937	0.74%	
QC value within limits for V 292.402 Recovery = 106.59%							
Zn 213.857†	42307.9	525.14 ug/L	4.166	525.14 ppb	4.166	0.79%	
QC value within limits for Zn 213.857 Recovery = 105.03%							
SiO2†	67295.4	5490.8 ug/L	45.36	5490.8 ppb	45.36	0.83%	
QC value within limits for SiO2 Recovery = 102.68%							
All analyte(s) passed QC.							

Sequence No.: 46

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/8/2010 23:57:20

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	3241.0	3241.0	96.4 %		23:59:32
1	Y RADIAL	2670.5	2670.5	95.76 %		23:59:32
1	Al 396.153Radial†	-73.1	-6.5	-13.830 ug/L	-13.830 ppb	23:59:32
1	Ca 317.933Radial†	9.7	-1.0	-3.7586 ug/L	-3.7586 ppb	23:59:32
1	Fe 238.204 Radial†	9.4	2.4	68.294 ug/L	68.294 ppb	23:59:32
1	K 766.490 Radial†	2189.9	116.7	53.155 ug/L	53.155 ppb	23:59:12
1	Mg 279.077 IEC†	1.9	0.4	38.358 ug/L	38.358 ppb	23:59:32
1	Na 589.592 Radial†	-697.4	47.1	15.590 ug/L	15.590 ppb	23:59:12
1	Sr 421.552†	33.9	10.7	0.0989 ug/L	0.0989 ppb	23:59:12
1	Sc 361.383	812524.2	812524.2	99.760 %		00:00:29
1	Y 371.029	696984.0	696984.0	99.488 %		00:00:29
1	Ag 328.068†	70.6	-139.1	-0.7033 ug/L	-0.7033 ppb	00:00:29
1	As 188.979†	-20.0	-2.6	-1.4996 ug/L	-1.4996 ppb	00:00:49
1	B 249.677†	-208.2	-16.1	-0.4700 ug/L	-0.4700 ppb	00:00:49
1	Ba 233.527†	9.5	7.3	0.0725 ug/L	0.0725 ppb	00:00:49
1	Be 313.107†	-3517.3	-52.0	-0.0226 ug/L	-0.0226 ppb	00:00:29
1	Cd 226.502†	-161.7	-0.3	-0.0112 ug/L	-0.0112 ppb	00:00:49
1	Co 228.616†	-41.2	1.3	0.0336 ug/L	0.0336 ppb	00:00:49
1	Cr 267.716†	86.1	10.6	0.1453 ug/L	0.1453 ppb	00:00:49
1	Cu 324.752†	5905.3	-60.2	-0.1956 ug/L	-0.1956 ppb	00:00:29
1	Mn 257.610†	426.1	29.4	0.0449 ug/L	0.0449 ppb	00:00:49
1	Mo 202.031†	10.2	3.1	0.2797 ug/L	0.2797 ppb	00:00:49
1	Ni 231.604†	54.6	-15.0	-0.4897 ug/L	-0.4897 ppb	00:00:49
1	P 214.914†	172.7	-4.5	-3.5924 ug/L	-3.5924 ppb	00:00:49
1	Pb 220.353†	-44.0	-1.1	-0.1917 ug/L	-0.1917 ppb	00:00:49
1	S 181.975 Axial†	29.7	2.9	5.3856 ug/L	5.3856 ppb	00:00:49
1	Sb 206.836†	27.3	-1.4	-0.5841 ug/L	-0.5841 ppb	00:00:49
1	Se 196.026†	-19.3	-0.8	-0.4610 ug/L	-0.4610 ppb	00:00:49
1	Si 251.611†	780.7	242.8	9.3255 ug/L	9.3255 ppb	00:00:49
1	Sn 189.927†	6.0	-1.2	-0.2858 ug/L	-0.2858 ppb	00:00:49
1	Ti 334.940†	-907.5	101.8	0.1739 ug/L	0.1739 ppb	00:00:29
1	Tl 190.801†	-22.3	1.1	0.4255 ug/L	0.4255 ppb	00:00:49
1	U 409.014†	-1995.9	49.2	1.4609 ug/L	1.4609 ppb	00:00:29
1	V 292.402†	-1208.2	25.3	0.2010 ug/L	0.2010 ppb	00:00:29
1	Zn 213.857†	533.7	26.4	0.3241 ug/L	0.3241 ppb	00:00:49
1	SiO2†	1554.2	1032.0	84.412 ug/L	84.412 ppb	00:02:00
2	Sc Radial	3275.2	3275.2	97.4 %		23:59:57
2	Y RADIAL	2704.8	2704.8	96.99 %		23:59:57
2	Al 396.153Radial†	-72.3	-4.9	-10.364 ug/L	-10.364 ppb	23:59:57
2	Ca 317.933Radial†	9.9	-0.8	-3.0923 ug/L	-3.0923 ppb	23:59:57
2	Fe 238.204 Radial†	7.9	0.8	22.197 ug/L	22.197 ppb	23:59:57
2	K 766.490 Radial†	2306.1	212.2	96.677 ug/L	96.677 ppb	23:59:37
2	Mg 279.077 IEC†	1.5	0.0	0.6172 ug/L	0.6172 ppb	23:59:57
2	Na 589.592 Radial†	-733.8	17.3	5.7158 ug/L	5.7158 ppb	23:59:37
2	Sr 421.552†	30.0	6.3	0.0585 ug/L	0.0585 ppb	23:59:37
2	Sc 361.383	804973.2	804973.2	98.833 %		00:00:54
2	Y 371.029	689706.6	689706.6	98.449 %		00:00:54
2	Ag 328.068†	169.5	-38.4	-0.1909 ug/L	-0.1909 ppb	00:00:54
2	As 188.979†	-21.8	-4.6	-2.6370 ug/L	-2.6370 ppb	00:01:14
2	B 249.677†	-231.7	-41.8	-1.1959 ug/L	-1.1959 ppb	00:01:14
2	Ba 233.527†	5.0	2.9	0.0295 ug/L	0.0295 ppb	00:01:14
2	Be 313.107†	-3454.5	-21.5	-0.0094 ug/L	-0.0094 ppb	00:00:54
2	Cd 226.502†	-166.0	-6.1	-0.0946 ug/L	-0.0946 ppb	00:01:14
2	Co 228.616†	-37.2	5.0	0.1357 ug/L	0.1357 ppb	00:01:14
2	Cr 267.716†	77.9	3.1	0.0432 ug/L	0.0432 ppb	00:01:14
2	Cu 324.752†	5845.9	-64.7	-0.2123 ug/L	-0.2123 ppb	00:00:54
2	Mn 257.610†	403.8	10.9	0.0169 ug/L	0.0169 ppb	00:01:14
2	Mo 202.031†	15.6	8.6	0.7744 ug/L	0.7744 ppb	00:01:14
2	Ni 231.604†	61.9	-7.0	-0.2291 ug/L	-0.2291 ppb	00:01:14

2	P 214.914†	168.7	-7.0	-5.4919 ug/L	-5.4919 ppb	00:01:14
2	Pb 220.353†	-35.2	7.4	1.1796 ug/L	1.1796 ppb	00:01:14
2	S 181.975 Axial†	27.4	0.9	1.6134 ug/L	1.6134 ppb	00:01:14
2	Sb 206.836†	23.8	-4.6	-1.9658 ug/L	-1.9658 ppb	00:01:14
2	Se 196.026†	-16.9	1.5	1.3497 ug/L	1.3497 ppb	00:01:14
2	Si 251.611†	743.6	212.7	8.1621 ug/L	8.1621 ppb	00:01:14
2	Sn 189.927†	8.2	1.1	0.2453 ug/L	0.2453 ppb	00:01:14
2	Ti 334.940†	-969.3	30.7	0.0532 ug/L	0.0532 ppb	00:00:54
2	Tl 190.801†	-12.9	10.4	4.1886 ug/L	4.1886 ppb	00:01:14
2	U 409.014†	-2022.9	3.1	0.0897 ug/L	0.0897 ppb	00:00:54
2	V 292.402†	-1162.1	60.6	0.4955 ug/L	0.4955 ppb	00:00:54
2	Zn 213.857†	535.3	33.1	0.4128 ug/L	0.4128 ppb	00:01:14
2	SiO2†	826.1	309.9	25.330 ug/L	25.330 ppb	00:02:20
3	Sc Radial	3252.0	3252.0	96.7 %		00:00:22
3	Y RADIAL	2687.4	2687.4	96.37 %		00:00:22
3	Al 396.153Radial†	-69.7	-2.7	-5.8740 ug/L	-5.8740 ppb	00:00:22
3	Ca 317.933Radial†	6.9	-3.8	-15.082 ug/L	-15.082 ppb	00:00:22
3	Fe 238.204 Radial†	8.4	1.4	39.684 ug/L	39.684 ppb	00:00:22
3	K 766.490 Radial†	2295.9	218.6	99.614 ug/L	99.614 ppb	00:00:02
3	Mg 279.077 IEC†	1.8	0.3	31.159 ug/L	31.159 ppb	00:00:22
3	Na 589.592 Radial†	-820.1	-77.4	-25.649 ug/L	-25.649 ppb	00:00:02
3	Sr 421.552†	14.4	-9.6	-0.0892 ug/L	-0.0892 ppb	00:00:02
3	Sc 361.383	811079.7	811079.7	99.583 %		00:01:19
3	Y 371.029	694208.6	694208.6	99.092 %		00:01:19
3	Ag 328.068†	172.7	-36.5	-0.1778 ug/L	-0.1778 ppb	00:01:19
3	As 188.979†	-18.9	-1.6	-0.8985 ug/L	-0.8985 ppb	00:01:40
3	B 249.677†	-226.5	-34.8	-0.9977 ug/L	-0.9977 ppb	00:01:40
3	Ba 233.527†	-0.4	-2.6	-0.0233 ug/L	-0.0233 ppb	00:01:40
3	Be 313.107†	-3402.3	57.2	0.0256 ug/L	0.0256 ppb	00:01:19
3	Cd 226.502†	-156.0	5.2	0.0739 ug/L	0.0739 ppb	00:01:40
3	Co 228.616†	-43.1	-0.7	-0.0170 ug/L	-0.0170 ppb	00:01:40
3	Cr 267.716†	67.5	-8.0	-0.1065 ug/L	-0.1065 ppb	00:01:40
3	Cu 324.752†	5811.3	-144.0	-0.4741 ug/L	-0.4741 ppb	00:01:19
3	Mn 257.610†	488.6	93.0	0.1283 ug/L	0.1283 ppb	00:01:40
3	Mo 202.031†	16.3	9.2	0.8277 ug/L	0.8277 ppb	00:01:40
3	Ni 231.604†	69.3	-0.1	-0.0042 ug/L	-0.0042 ppb	00:01:40
3	P 214.914†	169.6	-7.4	-5.7562 ug/L	-5.7562 ppb	00:01:40
3	Pb 220.353†	-48.1	-5.3	-0.8510 ug/L	-0.8510 ppb	00:01:40
3	S 181.975 Axial†	29.4	2.7	4.9511 ug/L	4.9511 ppb	00:01:40
3	Sb 206.836†	25.8	-2.8	-1.1738 ug/L	-1.1738 ppb	00:01:40
3	Se 196.026†	-13.5	5.1	4.4407 ug/L	4.4407 ppb	00:01:40
3	Si 251.611†	774.0	237.5	9.1148 ug/L	9.1148 ppb	00:01:40
3	Sn 189.927†	8.3	1.2	0.2700 ug/L	0.2700 ppb	00:01:40
3	Ti 334.940†	-954.0	53.5	0.0879 ug/L	0.0879 ppb	00:01:19
3	Tl 190.801†	-24.8	-1.5	-0.5935 ug/L	-0.5935 ppb	00:01:40
3	U 409.014†	-1952.4	89.3	2.6646 ug/L	2.6646 ppb	00:01:19
3	V 292.402†	-1176.7	54.8	0.4527 ug/L	0.4527 ppb	00:01:19
3	Zn 213.857†	542.1	35.8	0.4435 ug/L	0.4435 ppb	00:01:40
3	SiO2†	784.0	261.4	21.358 ug/L	21.358 ppb	00:02:40

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809525.7	99.392 %	0.4921			0.50%
Sc Radial	3256.1	96.8 %	0.52			0.54%
Y 371.029	693633.1	99.009 %	0.5242			0.53%
Y RADIAL	2687.6	96.37 %	0.616			0.64%
Ag 328.068†	-71.3	-0.3573 ug/L	0.29972	-0.3573 ppb	0.29972	83.88%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.7	-10.023 ug/L	3.9890	-10.023 ppb	3.9890	39.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.9	-1.6784 ug/L	0.88296	-1.6784 ppb	0.88296	52.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-30.9	-0.8879 ug/L	0.37524	-0.8879 ppb	0.37524	42.26%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.5	0.0262 ug/L	0.04800	0.0262 ppb	0.04800	182.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-5.4	-0.0022 ug/L	0.02490	-0.0022 ppb	0.02490	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.9	-7.3109 ug/L	6.73796	-7.3109 ppb	6.73796	92.16%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-0.4	-0.0106 ug/L	0.08427	-0.0106 ppb	0.08427	793.32%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.9	0.0508 ug/L	0.07778	0.0508 ppb	0.07778	153.09%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	1.9	0.0273 ug/L	0.12663	0.0273 ppb	0.12663	463.15%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-89.6	-0.2940 ug/L	0.15623	-0.2940 ppb	0.15623	53.14%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.5	43.392 ug/L	23.2710	43.392 ppb	23.2710	53.63%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	182.5	83.148 ug/L	26.0169	83.148 ppb	26.0169	31.29%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.2	23.378 ug/L	20.0374	23.378 ppb	20.0374	85.71%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	44.4	0.0634 ug/L	0.05795	0.0634 ppb	0.05795	91.40%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.0	0.6272 ug/L	0.30220	0.6272 ppb	0.30220	48.18%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-4.4	-1.4476 ug/L	21.53233	-1.4476 ppb	21.53233	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-7.4	-0.2410 ug/L	0.24295	-0.2410 ppb	0.24295	100.81%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-6.3	-4.9469 ug/L	1.18039	-4.9469 ppb	1.18039	23.86%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.3	0.0456 ug/L	1.03590	0.0456 ppb	1.03590	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.2	3.9834 ug/L	2.06393	3.9834 ppb	2.06393	51.81%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-2.9	-1.2412 ug/L	0.69330	-1.2412 ppb	0.69330	55.86%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.0	1.7765 ug/L	2.47855	1.7765 ppb	2.47855	139.52%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	231.0	8.8675 ug/L	0.61993	8.8675 ppb	0.61993	6.99%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.3	0.0765 ug/L	0.31400	0.0765 ppb	0.31400	410.55%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	2.4	0.0227 ug/L	0.09905	0.0227 ppb	0.09905	435.79%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	62.0	0.1050 ug/L	0.06212	0.1050 ppb	0.06212	59.17%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.3	1.3402 ug/L	2.51887	1.3402 ppb	2.51887	187.95%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	47.2	1.4050 ug/L	1.28837	1.4050 ppb	1.28837	91.70%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	46.9	0.3831 ug/L	0.15914	0.3831 ppb	0.15914	41.54%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	31.8	0.3935 ug/L	0.06204	0.3935 ppb	0.06204	15.77%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	534.4	43.700 ug/L	35.3134	43.700 ppb	35.3134	80.81%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 54

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 00:52:29

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	3220.0	3220.0	95.7 %		00:54:41
1	Y RADIAL	2643.8	2643.8	94.81 %		00:54:41
1	Al 396.153Radial†	2316.6	2489.2	5259.4 ug/L	5259.4 ppb	00:54:21
1	Ca 317.933Radial†	1323.3	1371.3	5392.2 ug/L	5392.2 ppb	00:54:41
1	Fe 238.204 Radial†	192.9	194.2	5472.1 ug/L	5472.1 ppb	00:54:41
1	K 766.490 Radial†	13498.5	11944.1	5434.2 ug/L	5434.2 ppb	00:54:21
1	Mg 279.077 IEC†	52.3	53.1	5193.4 ug/L	5193.4 ppb	00:54:41
1	Na 589.592 Radial†	29444.0	31527.1	10443 ug/L	10443 ppb	00:54:21
1	Sr 421.552†	52287.7	54593.5	506.24 ug/L	506.24 ppb	00:54:21
1	Sc 361.383	828989.8	828989.8	101.78 %		00:55:38
1	Y 371.029	701838.4	701838.4	100.18 %		00:55:38
1	Ag 328.068†	101817.2	99825.2	522.79 ug/L	522.79 ppb	00:55:44
1	As 188.979†	909.6	911.1	530.27 ug/L	530.27 ppb	00:56:04
1	B 249.677†	17851.0	17731.2	503.10 ug/L	503.10 ppb	00:55:44
1	Ba 233.527†	55384.5	54413.0	524.68 ug/L	524.68 ppb	00:55:44
1	Be 313.107†	1212984.2	1195227.3	530.81 ug/L	530.81 ppb	00:55:38
1	Cd 226.502†	35437.9	34979.4	525.77 ug/L	525.77 ppb	00:55:44
1	Co 228.616†	20251.3	19939.5	534.85 ug/L	534.85 ppb	00:55:44
1	Cr 267.716†	39693.9	38923.5	525.65 ug/L	525.65 ppb	00:55:44
1	Cu 324.752†	166259.0	157369.3	518.80 ug/L	518.80 ppb	00:55:44
1	Mn 257.610†	387419.9	380241.2	514.40 ug/L	514.40 ppb	00:55:44
1	Mo 202.031†	5936.6	5825.5	521.14 ug/L	521.14 ppb	00:56:04
1	Ni 231.604†	16618.6	16258.0	530.53 ug/L	530.53 ppb	00:55:44
1	P 214.914†	3559.0	3319.1	2526.0 ug/L	2526.0 ppb	00:56:04
1	Pb 220.353†	3302.9	3288.1	529.13 ug/L	529.13 ppb	00:56:04
1	S 181.975 Axial†	595.1	557.8	1023.4 ug/L	1023.4 ppb	00:56:04
1	Sb 206.836†	1259.7	1208.9	537.94 ug/L	537.94 ppb	00:56:04
1	Se 196.026†	622.2	629.9	552.47 ug/L	552.47 ppb	00:56:04
1	Si 251.611†	68924.9	67178.7	2575.0 ug/L	2575.0 ppb	00:55:44
1	Sn 189.927†	2228.9	2182.7	513.07 ug/L	513.07 ppb	00:56:04
1	Ti 334.940†	293642.2	289514.1	506.77 ug/L	506.77 ppb	00:55:44
1	Tl 190.801†	1309.6	1310.1	529.07 ug/L	529.07 ppb	00:56:04
1	U 409.014†	16115.5	17883.4	532.43 ug/L	532.43 ppb	00:55:44
1	V 292.402†	64794.4	64896.8	529.20 ug/L	529.20 ppb	00:55:44
1	Zn 213.857†	43133.0	41869.5	519.67 ug/L	519.67 ppb	00:55:44
1	SiO2†	69234.5	67496.8	5507.3 ug/L	5507.3 ppb	00:57:11
2	Sc Radial	3245.1	3245.1	96.5 %		00:55:06
2	Y RADIAL	2660.9	2660.9	95.42 %		00:55:06
2	Al 396.153Radial†	2298.7	2452.0	5180.2 ug/L	5180.2 ppb	00:54:46
2	Ca 317.933Radial†	1334.4	1372.1	5395.4 ug/L	5395.4 ppb	00:55:06
2	Fe 238.204 Radial†	193.9	193.7	5459.2 ug/L	5459.2 ppb	00:55:06
2	K 766.490 Radial†	13514.2	11851.4	5392.0 ug/L	5392.0 ppb	00:54:46
2	Mg 279.077 IEC†	55.6	56.1	5481.9 ug/L	5481.9 ppb	00:55:06
2	Na 589.592 Radial†	29302.1	31142.4	10316 ug/L	10316 ppb	00:54:46
2	Sr 421.552†	52020.9	53895.1	499.76 ug/L	499.76 ppb	00:54:46
2	Sc 361.383	814356.5	814356.5	99.985 %		00:56:09
2	Y 371.029	688170.5	688170.5	98.230 %		00:56:09
2	Ag 328.068†	103401.9	103207.7	540.44 ug/L	540.44 ppb	00:56:14
2	As 188.979†	896.6	914.2	532.20 ug/L	532.20 ppb	00:56:34
2	B 249.677†	18328.5	18523.9	525.64 ug/L	525.64 ppb	00:56:14
2	Ba 233.527†	56364.6	56371.0	543.55 ug/L	543.55 ppb	00:56:14
2	Be 313.107†	1191021.8	1194676.4	530.60 ug/L	530.60 ppb	00:56:09
2	Cd 226.502†	36191.0	36358.3	546.52 ug/L	546.52 ppb	00:56:14
2	Co 228.616†	20654.2	20700.0	555.22 ug/L	555.22 ppb	00:56:14
2	Cr 267.716†	40317.8	40248.2	543.53 ug/L	543.53 ppb	00:56:14
2	Cu 324.752†	168951.3	162997.2	537.34 ug/L	537.34 ppb	00:56:14
2	Mn 257.610†	394723.2	394385.4	533.51 ug/L	533.51 ppb	00:56:14
2	Mo 202.031†	5885.4	5879.1	525.93 ug/L	525.93 ppb	00:56:34
2	Ni 231.604†	16946.2	16879.1	550.80 ug/L	550.80 ppb	00:56:14

2	P 214.914†	3529.7	3352.6	2548.9 ug/L	2548.9 ppb	00:56:34
2	Pb 220.353†	3288.1	3331.6	536.11 ug/L	536.11 ppb	00:56:34
2	S 181.975 Axial†	589.4	562.6	1032.3 ug/L	1032.3 ppb	00:56:34
2	Sb 206.836†	1258.8	1230.3	547.34 ug/L	547.34 ppb	00:56:34
2	Se 196.026†	619.5	638.2	559.44 ug/L	559.44 ppb	00:56:34
2	Si 251.611†	70218.2	69689.1	2671.4 ug/L	2671.4 ppb	00:56:14
2	Sn 189.927†	2219.4	2212.5	520.09 ug/L	520.09 ppb	00:56:34
2	Ti 334.940†	298921.7	299978.6	525.05 ug/L	525.05 ppb	00:56:14
2	Tl 190.801†	1308.2	1331.9	537.93 ug/L	537.93 ppb	00:56:34
2	U 409.014†	16644.5	18696.9	556.69 ug/L	556.69 ppb	00:56:14
2	V 292.402†	65774.9	67021.4	546.40 ug/L	546.40 ppb	00:56:14
2	Zn 213.857†	44025.4	43523.5	540.24 ug/L	540.24 ppb	00:56:14
2	SiO2†	69161.1	68645.6	5601.1 ug/L	5601.1 ppb	00:57:16
3	Sc Radial	3236.4	3236.4	96.2 %		00:55:31
3	Y RADIAL	2643.6	2643.6	94.80 %		00:55:31
3	Al 396.153Radial†	2266.3	2424.6	5121.8 ug/L	5121.8 ppb	00:55:11
3	Ca 317.933Radial†	1319.8	1360.7	5350.5 ug/L	5350.5 ppb	00:55:31
3	Fe 238.204 Radial†	192.5	192.7	5431.1 ug/L	5431.1 ppb	00:55:31
3	K 766.490 Radial†	13422.9	11794.1	5366.0 ug/L	5366.0 ppb	00:55:11
3	Mg 279.077 IEC†	54.8	55.4	5412.8 ug/L	5412.8 ppb	00:55:31
3	Na 589.592 Radial†	28862.0	30766.3	10191 ug/L	10191 ppb	00:55:11
3	Sr 421.552†	51542.0	53541.6	496.48 ug/L	496.48 ppb	00:55:11
3	Sc 361.383	803451.1	803451.1	98.646 %		00:56:40
3	Y 371.029	679019.7	679019.7	96.924 %		00:56:40
3	Ag 328.068†	101648.5	102833.9	538.48 ug/L	538.48 ppb	00:56:45
3	As 188.979†	890.4	920.0	535.50 ug/L	535.50 ppb	00:57:05
3	B 249.677†	17887.0	18325.2	519.99 ug/L	519.99 ppb	00:56:45
3	Ba 233.527†	55316.6	56073.7	540.69 ug/L	540.69 ppb	00:56:45
3	Be 313.107†	1172605.7	1192175.9	529.49 ug/L	529.49 ppb	00:56:40
3	Cd 226.502†	35456.8	36105.3	542.72 ug/L	542.72 ppb	00:56:45
3	Co 228.616†	20231.5	20551.8	551.27 ug/L	551.27 ppb	00:56:45
3	Cr 267.716†	39581.6	40049.2	540.84 ug/L	540.84 ppb	00:56:45
3	Cu 324.752†	165946.9	162245.2	534.86 ug/L	534.86 ppb	00:56:45
3	Mn 257.610†	386945.8	391859.8	530.09 ug/L	530.09 ppb	00:56:45
3	Mo 202.031†	5887.7	5961.3	533.27 ug/L	533.27 ppb	00:57:05
3	Ni 231.604†	16680.7	16840.0	549.52 ug/L	549.52 ppb	00:56:45
3	P 214.914†	3519.7	3390.4	2579.4 ug/L	2579.4 ppb	00:57:05
3	Pb 220.353†	3286.4	3374.5	542.99 ug/L	542.99 ppb	00:57:05
3	S 181.975 Axial†	583.2	564.4	1035.5 ug/L	1035.5 ppb	00:57:05
3	Sb 206.836†	1239.5	1227.8	546.50 ug/L	546.50 ppb	00:57:05
3	Se 196.026†	611.6	638.6	559.73 ug/L	559.73 ppb	00:57:05
3	Si 251.611†	68744.5	69148.4	2650.5 ug/L	2650.5 ppb	00:56:45
3	Sn 189.927†	2211.9	2235.1	525.38 ug/L	525.38 ppb	00:57:05
3	Ti 334.940†	293072.3	298106.8	521.77 ug/L	521.77 ppb	00:56:45
3	Tl 190.801†	1314.1	1355.6	547.43 ug/L	547.43 ppb	00:57:05
3	U 409.014†	16236.1	18508.9	551.08 ug/L	551.08 ppb	00:56:45
3	V 292.402†	64619.8	66743.3	544.26 ug/L	544.26 ppb	00:56:45
3	Zn 213.857†	43148.6	43232.3	536.61 ug/L	536.61 ppb	00:56:45
3	SiO2†	68012.3	68420.0	5582.4 ug/L	5582.4 ppb	00:57:21

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815599.1	100.14 %	1.573			1.57%
Sc Radial	3233.8	96.1 %	0.38			0.39%
Y 371.029	689676.2	98.445 %	1.6392			1.67%
Y RADIAL	2649.5	95.01 %	0.356			0.37%
Ag 328.068†	101955.6	533.90 ug/L	9.674	533.90 ppb	9.674	1.81%
QC value within limits for Ag 328.068 Recovery = 106.78%						
Al 396.153Radial†	2455.3	5187.1 ug/L	69.06	5187.1 ppb	69.06	1.33%
QC value within limits for Al 396.153Radial Recovery = 103.74%						
As 188.979†	915.1	532.66 ug/L	2.647	532.66 ppb	2.647	0.50%
QC value within limits for As 188.979 Recovery = 106.53%						
B 249.677†	18193.4	516.24 ug/L	11.729	516.24 ppb	11.729	2.27%
QC value within limits for B 249.677 Recovery = 103.25%						
Ba 233.527†	55619.2	536.31 ug/L	10.169	536.31 ppb	10.169	1.90%
QC value within limits for Ba 233.527 Recovery = 107.26%						
Be 313.107†	1194026.5	530.30 ug/L	0.710	530.30 ppb	0.710	0.13%
QC value within limits for Be 313.107 Recovery = 106.06%						
Ca 317.933Radial†	1368.0	5379.4 ug/L	25.05	5379.4 ppb	25.05	0.47%



QC value within limits for Ca 317.933 Radial Recovery = 107.59%							
Cd	226.502†	35814.4	538.34 ug/L	11.047	538.34 ppb	11.047	2.05%
QC value within limits for Cd 226.502 Recovery = 107.67%							
Co	228.616†	20397.1	547.11 ug/L	10.802	547.11 ppb	10.802	1.97%
QC value within limits for Co 228.616 Recovery = 109.42%							
Cr	267.716†	39740.3	536.67 ug/L	9.641	536.67 ppb	9.641	1.80%
QC value within limits for Cr 267.716 Recovery = 107.33%							
Cu	324.752†	160870.6	530.33 ug/L	10.065	530.33 ppb	10.065	1.90%
QC value within limits for Cu 324.752 Recovery = 106.07%							
Fe	238.204 Radial†	193.6	5454.1 ug/L	20.96	5454.1 ppb	20.96	0.38%
QC value within limits for Fe 238.204 Radial Recovery = 109.08%							
K	766.490 Radial†	11863.2	5397.4 ug/L	34.45	5397.4 ppb	34.45	0.64%
QC value within limits for K 766.490 Radial Recovery = 107.95%							
Mg	279.077 IEC†	54.9	5362.7 ug/L	150.61	5362.7 ppb	150.61	2.81%
QC value within limits for Mg 279.077 IEC Recovery = 107.25%							
Mn	257.610†	388828.8	526.00 ug/L	10.191	526.00 ppb	10.191	1.94%
QC value within limits for Mn 257.610 Recovery = 105.20%							
Mo	202.031†	5888.6	526.78 ug/L	6.112	526.78 ppb	6.112	1.16%
QC value within limits for Mo 202.031 Recovery = 105.36%							
Na	589.592 Radial†	31145.3	10317 ug/L	126.0	10317 ppb	126.0	1.22%
QC value within limits for Na 589.592 Radial Recovery = 103.17%							
Ni	231.604†	16659.0	543.62 ug/L	11.351	543.62 ppb	11.351	2.09%
QC value within limits for Ni 231.604 Recovery = 108.72%							
P	214.914†	3354.0	2551.4 ug/L	26.78	2551.4 ppb	26.78	1.05%
QC value within limits for P 214.914 Recovery = 102.06%							
Pb	220.353†	3331.4	536.08 ug/L	6.933	536.08 ppb	6.933	1.29%
QC value within limits for Pb 220.353 Recovery = 107.22%							
S	181.975 Axial†	561.6	1030.4 ug/L	6.27	1030.4 ppb	6.27	0.61%
QC value within limits for S 181.975 Axial Recovery = 103.04%							
Sb	206.836†	1222.3	543.93 ug/L	5.203	543.93 ppb	5.203	0.96%
QC value within limits for Sb 206.836 Recovery = 108.79%							
Se	196.026†	635.6	557.22 ug/L	4.109	557.22 ppb	4.109	0.74%
QC value greater than the upper limit for Se 196.026 Recovery = 111.44%							
Si	251.611†	68672.1	2632.3 ug/L	50.72	2632.3 ppb	50.72	1.93%
QC value within limits for Si 251.611 Recovery = 105.29%							
Sn	189.927†	2210.1	519.51 ug/L	6.172	519.51 ppb	6.172	1.19%
QC value within limits for Sn 189.927 Recovery = 103.90%							
Sr	421.552†	54010.1	500.83 ug/L	4.964	500.83 ppb	4.964	0.99%
QC value within limits for Sr 421.552 Recovery = 100.17%							
Ti	334.940†	295866.5	517.86 ug/L	9.748	517.86 ppb	9.748	1.88%
QC value within limits for Ti 334.940 Recovery = 103.57%							
Tl	190.801†	1332.5	538.14 ug/L	9.180	538.14 ppb	9.180	1.71%
QC value within limits for Tl 190.801 Recovery = 107.63%							
U	409.014†	18363.1	546.73 ug/L	12.704	546.73 ppb	12.704	2.32%
QC value within limits for U 409.014 Recovery = 109.35%							
V	292.402†	66220.5	539.95 ug/L	9.370	539.95 ppb	9.370	1.74%
QC value within limits for V 292.402 Recovery = 107.99%							
Zn	213.857†	42875.1	532.18 ug/L	10.979	532.18 ppb	10.979	2.06%
QC value within limits for Zn 213.857 Recovery = 106.44%							
SiO2†		68187.5	5563.6 ug/L	49.68	5563.6 ppb	49.68	0.89%
QC value within limits for SiO2 Recovery = 104.04%							
QC Failed. Continue with analysis.							

Sequence No.: 55

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 00:59:32

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	3234.5	3234.5	96.2 %		01:01:45
1	Y RADIAL	2686.0	2686.0	96.32 %		01:01:45
1	Al 396.153Radial†	-70.1	-3.5	-7.4906 ug/L	-7.4906 ppb	01:01:45
1	Ca 317.933Radial†	7.4	-3.3	-12.856 ug/L	-12.856 ppb	01:01:45
1	Fe 238.204 Radial†	9.4	2.5	70.160 ug/L	70.160 ppb	01:01:45
1	K 766.490 Radial†	2272.5	207.1	94.369 ug/L	94.369 ppb	01:01:25
1	Mg 279.077 IEC†	2.1	0.6	63.259 ug/L	63.259 ppb	01:01:45
1	Na 589.592 Radial†	-800.0	-61.1	-20.243 ug/L	-20.243 ppb	01:01:25
1	Sr 421.552†	-4.9	-29.7	-0.2751 ug/L	-0.2751 ppb	01:01:25
1	Sc 361.383	807118.0	807118.0	99.096 %		01:02:41
1	Y 371.029	693070.2	693070.2	98.929 %		01:02:41
1	Ag 328.068†	206.4	-1.7	0.0139 ug/L	0.0139 ppb	01:02:41
1	As 188.979†	-22.1	-4.9	-2.7875 ug/L	-2.7875 ppb	01:03:01
1	B 249.677†	-276.3	-86.2	-2.4686 ug/L	-2.4686 ppb	01:03:01
1	Ba 233.527†	5.7	3.5	0.0361 ug/L	0.0361 ppb	01:03:01
1	Be 313.107†	-3377.5	65.5	0.0293 ug/L	0.0293 ppb	01:02:41
1	Cd 226.502†	-153.7	6.8	0.0939 ug/L	0.0939 ppb	01:03:01
1	Co 228.616†	-31.9	10.4	0.2792 ug/L	0.2792 ppb	01:03:01
1	Cr 267.716†	81.3	6.4	0.0889 ug/L	0.0889 ppb	01:03:01
1	Cu 324.752†	5977.6	52.5	0.1768 ug/L	0.1768 ppb	01:02:41
1	Mn 257.610†	401.7	7.7	0.0147 ug/L	0.0147 ppb	01:03:01
1	Mo 202.031†	12.4	5.3	0.4784 ug/L	0.4784 ppb	01:03:01
1	Ni 231.604†	50.0	-19.3	-0.6292 ug/L	-0.6292 ppb	01:03:01
1	P 214.914†	180.5	4.5	3.4767 ug/L	3.4767 ppb	01:03:01
1	Pb 220.353†	-35.3	7.4	1.1744 ug/L	1.1744 ppb	01:03:01
1	S 181.975 Axial†	27.2	0.6	1.0787 ug/L	1.0787 ppb	01:03:01
1	Sb 206.836†	19.6	-8.9	-3.8326 ug/L	-3.8326 ppb	01:03:01
1	Se 196.026†	-16.8	1.6	1.5731 ug/L	1.5731 ppb	01:03:01
1	Si 251.611†	536.2	1.4	0.0470 ug/L	0.0470 ppb	01:03:01
1	Sn 189.927†	3.5	-3.7	-0.8786 ug/L	-0.8786 ppb	01:03:01
1	Ti 334.940†	-933.8	69.2	0.1143 ug/L	0.1143 ppb	01:02:41
1	Tl 190.801†	-14.4	8.9	3.5710 ug/L	3.5710 ppb	01:03:01
1	U 409.014†	-2043.8	-12.6	-0.3832 ug/L	-0.3832 ppb	01:02:41
1	V 292.402†	-1215.3	10.1	0.0780 ug/L	0.0780 ppb	01:02:41
1	Zn 213.857†	534.1	30.4	0.3744 ug/L	0.3744 ppb	01:03:01
1	SiO2†	543.4	22.4	1.8230 ug/L	1.8230 ppb	01:04:12
2	Sc Radial	3266.9	3266.9	97.1 %		01:02:10
2	Y RADIAL	2699.4	2699.4	96.80 %		01:02:10
2	Al 396.153Radial†	-73.6	-6.4	-13.583 ug/L	-13.583 ppb	01:02:10
2	Ca 317.933Radial†	6.0	-4.8	-18.979 ug/L	-18.979 ppb	01:02:10
2	Fe 238.204 Radial†	9.1	2.1	57.977 ug/L	57.977 ppb	01:02:10
2	K 766.490 Radial†	2274.0	185.2	84.354 ug/L	84.354 ppb	01:01:50
2	Mg 279.077 IEC†	0.1	-1.5	-143.42 ug/L	-143.42 ppb	01:02:10
2	Na 589.592 Radial†	-763.0	-14.8	-4.9016 ug/L	-4.9016 ppb	01:01:50
2	Sr 421.552†	43.2	19.9	0.1848 ug/L	0.1848 ppb	01:01:50
2	Sc 361.383	807892.0	807892.0	99.191 %		01:03:07
2	Y 371.029	692541.9	692541.9	98.854 %		01:03:07
2	Ag 328.068†	91.4	-117.8	-0.5963 ug/L	-0.5963 ppb	01:03:07
2	As 188.979†	-24.0	-6.8	-3.9048 ug/L	-3.9048 ppb	01:03:27
2	B 249.677†	-297.4	-107.2	-3.0664 ug/L	-3.0664 ppb	01:03:27
2	Ba 233.527†	0.2	-2.0	-0.0177 ug/L	-0.0177 ppb	01:03:27
2	Be 313.107†	-3504.8	-59.6	-0.0262 ug/L	-0.0262 ppb	01:03:07
2	Cd 226.502†	-149.2	11.4	0.1653 ug/L	0.1653 ppb	01:03:27
2	Co 228.616†	-33.6	8.7	0.2343 ug/L	0.2343 ppb	01:03:27
2	Cr 267.716†	73.6	-1.6	-0.0194 ug/L	-0.0194 ppb	01:03:27
2	Cu 324.752†	5947.0	15.8	0.0542 ug/L	0.0542 ppb	01:03:07
2	Mn 257.610†	398.9	4.5	0.0177 ug/L	0.0177 ppb	01:03:27
2	Mo 202.031†	13.8	6.7	0.6017 ug/L	0.6017 ppb	01:03:27
2	Ni 231.604†	50.9	-18.4	-0.6014 ug/L	-0.6014 ppb	01:03:27

2	P 214.914†	180.6	4.5	3.4813 ug/L	3.4813 ppb	01:03:27
2	Pb 220.353†	-34.2	8.5	1.3532 ug/L	1.3532 ppb	01:03:27
2	S 181.975 Axial†	29.8	3.2	5.9626 ug/L	5.9626 ppb	01:03:27
2	Sb 206.836†	27.4	-1.1	-0.4498 ug/L	-0.4498 ppb	01:03:27
2	Se 196.026†	-16.5	2.0	1.8305 ug/L	1.8305 ppb	01:03:27
2	Si 251.611†	535.0	-0.4	-0.0230 ug/L	-0.0230 ppb	01:03:27
2	Sn 189.927†	9.4	2.2	0.5177 ug/L	0.5177 ppb	01:03:27
2	Ti 334.940†	-953.6	50.1	0.0960 ug/L	0.0960 ppb	01:03:07
2	Tl 190.801†	-29.6	-6.4	-2.5496 ug/L	-2.5496 ppb	01:03:27
2	U 409.014†	-1967.1	66.8	1.9890 ug/L	1.9890 ppb	01:03:07
2	V 292.402†	-1225.1	1.4	0.0124 ug/L	0.0124 ppb	01:03:07
2	Zn 213.857†	518.7	14.3	0.1748 ug/L	0.1748 ppb	01:03:27
2	SiO2†	536.3	14.7	1.1859 ug/L	1.1859 ppb	01:04:32
3	Sc Radial	3262.7	3262.7	97.0 %		01:02:35
3	Y RADIAL	2699.5	2699.5	96.80 %		01:02:35
3	Al 396.153Radial†	-72.1	-5.0	-10.642 ug/L	-10.642 ppb	01:02:35
3	Ca 317.933Radial†	12.6	2.0	7.9509 ug/L	7.9509 ppb	01:02:35
3	Fe 238.204 Radial†	9.7	2.7	75.357 ug/L	75.357 ppb	01:02:35
3	K 766.490 Radial†	2175.2	86.4	39.381 ug/L	39.381 ppb	01:02:15
3	Mg 279.077 IEC†	0.7	-0.9	-85.184 ug/L	-85.184 ppb	01:02:35
3	Na 589.592 Radial†	-782.6	-36.0	-11.909 ug/L	-11.909 ppb	01:02:15
3	Sr 421.552†	2.1	-22.4	-0.2079 ug/L	-0.2079 ppb	01:02:15
3	Sc 361.383	803848.5	803848.5	98.695 %		01:03:32
3	Y 371.029	688680.8	688680.8	98.303 %		01:03:32
3	Ag 328.068†	205.4	-1.8	0.0146 ug/L	0.0146 ppb	01:03:32
3	As 188.979†	-17.9	-0.7	-0.3726 ug/L	-0.3726 ppb	01:03:52
3	B 249.677†	-302.1	-113.5	-3.2474 ug/L	-3.2474 ppb	01:03:52
3	Ba 233.527†	-4.9	-7.1	-0.0648 ug/L	-0.0648 ppb	01:03:52
3	Be 313.107†	-3493.3	-65.7	-0.0290 ug/L	-0.0290 ppb	01:03:32
3	Cd 226.502†	-160.3	-0.6	-0.0164 ug/L	-0.0164 ppb	01:03:52
3	Co 228.616†	-45.8	-3.8	-0.1044 ug/L	-0.1044 ppb	01:03:52
3	Cr 267.716†	59.3	-15.7	-0.2081 ug/L	-0.2081 ppb	01:03:52
3	Cu 324.752†	5924.4	23.1	0.0789 ug/L	0.0789 ppb	01:03:32
3	Mn 257.610†	401.0	8.6	0.0225 ug/L	0.0225 ppb	01:03:52
3	Mo 202.031†	4.1	-3.0	-0.2609 ug/L	-0.2609 ppb	01:03:52
3	Ni 231.604†	66.3	-2.5	-0.0820 ug/L	-0.0820 ppb	01:03:52
3	P 214.914†	179.9	4.6	3.5966 ug/L	3.5966 ppb	01:03:52
3	Pb 220.353†	-34.8	7.8	1.2355 ug/L	1.2355 ppb	01:03:52
3	S 181.975 Axial†	27.6	1.2	2.1599 ug/L	2.1599 ppb	01:03:52
3	Sb 206.836†	33.5	5.2	2.2311 ug/L	2.2311 ppb	01:03:52
3	Se 196.026†	-13.4	5.0	4.4606 ug/L	4.4606 ppb	01:03:52
3	Si 251.611†	525.1	-7.7	-0.2919 ug/L	-0.2919 ppb	01:03:52
3	Sn 189.927†	5.2	-1.9	-0.4585 ug/L	-0.4585 ppb	01:03:52
3	Ti 334.940†	-966.4	32.3	0.0637 ug/L	0.0637 ppb	01:03:32
3	Tl 190.801†	-26.0	-2.9	-1.1454 ug/L	-1.1454 ppb	01:03:52
3	U 409.014†	-1954.8	69.2	2.0605 ug/L	2.0605 ppb	01:03:32
3	V 292.402†	-1141.6	79.8	0.6298 ug/L	0.6298 ppb	01:03:32
3	Zn 213.857†	527.5	25.9	0.3134 ug/L	0.3134 ppb	01:03:52
3	SiO2†	558.8	40.3	3.3011 ug/L	3.3011 ppb	01:04:53

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806286.2	98.994 %	0.2635			0.27%
Sc Radial	3254.7	96.8 %	0.52			0.54%
Y 371.029	691431.0	98.695 %	0.3421			0.35%
Y RADIAL	2695.0	96.64 %	0.278			0.29%
Ag 328.068†	-40.4	-0.1893 ug/L	0.35253	-0.1893 ppb	0.35253	186.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.0	-10.572 ug/L	3.0466	-10.572 ppb	3.0466	28.82%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.1	-2.3550 ug/L	1.80538	-2.3550 ppb	1.80538	76.66%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-102.3	-2.9274 ug/L	0.40758	-2.9274 ppb	0.40758	13.92%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.9	-0.0155 ug/L	0.05049	-0.0155 ppb	0.05049	326.03%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-20.0	-0.0086 ug/L	0.03287	-0.0086 ppb	0.03287	380.38%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.0	-7.9615 ug/L	14.11655	-7.9615 ppb	14.11655	177.31%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	5.9	0.0809 ug/L	0.09156	0.0809 ppb	0.09156	113.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.1	0.1364 ug/L	0.20970	0.1364 ppb	0.20970	153.79%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-3.6	-0.0462 ug/L	0.15031	-0.0462 ppb	0.15031	325.38%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	30.5	0.1033 ug/L	0.06488	0.1033 ppb	0.06488	62.80%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.4	67.831 ug/L	8.9212	67.831 ppb	8.9212	13.15%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	159.6	72.702 ug/L	29.2876	72.702 ppb	29.2876	40.28%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.6	-55.115 ug/L	106.5700	-55.115 ppb	106.5700	193.36%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	6.9	0.0183 ug/L	0.00395	0.0183 ppb	0.00395	21.59%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.0	0.2730 ug/L	0.46654	0.2730 ppb	0.46654	170.86%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-37.3	-12.351 ug/L	7.6803	-12.351 ppb	7.6803	62.18%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-13.4	-0.4375 ug/L	0.30823	-0.4375 ppb	0.30823	70.45%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.5	3.5182 ug/L	0.06795	3.5182 ppb	0.06795	1.93%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	7.9	1.2544 ug/L	0.09090	1.2544 ppb	0.09090	7.25%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.7	3.0671 ug/L	2.56519	3.0671 ppb	2.56519	83.64%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.6	-0.6838 ug/L	3.03863	-0.6838 ppb	3.03863	444.39%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.9	2.6214 ug/L	1.59800	2.6214 ppb	1.59800	60.96%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-2.2	-0.0893 ug/L	0.17892	-0.0893 ppb	0.17892	200.41%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.1	-0.2731 ug/L	0.71637	-0.2731 ppb	0.71637	262.29%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-10.7	-0.0994 ug/L	0.24840	-0.0994 ppb	0.24840	249.92%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	50.5	0.0914 ug/L	0.02561	0.0914 ppb	0.02561	28.03%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-0.1	-0.0413 ug/L	3.20618	-0.0413 ppb	3.20618	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	41.2	1.2221 ug/L	1.39071	1.2221 ppb	1.39071	113.80%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	30.4	0.2400 ug/L	0.33911	0.2400 ppb	0.33911	141.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	23.5	0.2875 ug/L	0.10225	0.2875 ppb	0.10225	35.56%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	25.8	2.1034 ug/L	1.08509	2.1034 ppb	1.08509	51.59%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

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

Autosampler Location: 7  
 Date Collected: 3/9/2010 01:47:52  
 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	3306.3	3306.3	98.3 %		01:50:04
1	Y RADIAL	2701.8	2701.8	96.88 %		01:50:04
1	Al 396.153Radial†	2409.6	2520.7	5326.2 ug/L	5326.2 ppb	01:49:44
1	Ca 317.933Radial†	1340.3	1352.5	5318.3 ug/L	5318.3 ppb	01:50:04
1	Fe 238.204 Radial†	197.0	193.2	5442.9 ug/L	5442.9 ppb	01:50:04
1	K 766.490 Radial†	13645.6	11725.8	5334.7 ug/L	5334.7 ppb	01:49:44
1	Mg 279.077 IEC†	56.9	56.4	5511.1 ug/L	5511.1 ppb	01:50:04
1	Na 589.592 Radial†	30981.8	32288.9	10695 ug/L	10695 ppb	01:49:44
1	Sr 421.552†	54733.6	55656.5	516.09 ug/L	516.09 ppb	01:49:44
1	Sc 361.383	827706.5	827706.5	101.62 %		01:51:02
1	Y 371.029	700691.5	700691.5	100.02 %		01:51:02
1	Ag 328.068†	103113.3	101255.7	530.25 ug/L	530.25 ppb	01:51:07
1	As 188.979†	917.0	919.8	535.33 ug/L	535.33 ppb	01:51:27
1	B 249.677†	18106.6	18009.9	511.03 ug/L	511.03 ppb	01:51:07
1	Ba 233.527†	56038.6	55140.9	531.70 ug/L	531.70 ppb	01:51:07
1	Be 313.107†	1204455.5	1188682.7	527.92 ug/L	527.92 ppb	01:51:02
1	Cd 226.502†	36097.1	35682.1	536.35 ug/L	536.35 ppb	01:51:07
1	Co 228.616†	20501.2	20216.2	542.26 ug/L	542.26 ppb	01:51:07
1	Cr 267.716†	40301.8	39582.1	534.54 ug/L	534.54 ppb	01:51:07
1	Cu 324.752†	168274.9	159606.3	526.16 ug/L	526.16 ppb	01:51:07
1	Mn 257.610†	397564.0	390813.5	528.67 ug/L	528.67 ppb	01:51:02
1	Mo 202.031†	5952.5	5850.2	523.34 ug/L	523.34 ppb	01:51:27
1	Ni 231.604†	16916.5	16576.5	540.93 ug/L	540.93 ppb	01:51:07
1	P 214.914†	3557.2	3322.8	2527.5 ug/L	2527.5 ppb	01:51:27
1	Pb 220.353†	3314.3	3304.4	531.77 ug/L	531.77 ppb	01:51:27
1	S 181.975 Axial†	592.8	556.4	1020.9 ug/L	1020.9 ppb	01:51:27
1	Sb 206.836†	1265.0	1216.0	541.05 ug/L	541.05 ppb	01:51:27
1	Se 196.026†	608.8	617.7	542.04 ug/L	542.04 ppb	01:51:27
1	Si 251.611†	69812.4	68157.1	2612.6 ug/L	2612.6 ppb	01:51:07
1	Sn 189.927†	2225.5	2182.7	513.08 ug/L	513.08 ppb	01:51:27
1	Ti 334.940†	297500.9	293758.4	514.15 ug/L	514.15 ppb	01:51:07
1	Tl 190.801†	1313.8	1316.3	531.63 ug/L	531.63 ppb	01:51:27
1	U 409.014†	16523.3	18309.1	545.13 ug/L	545.13 ppb	01:51:07
1	V 292.402†	65735.0	65921.1	537.50 ug/L	537.50 ppb	01:51:07
1	Zn 213.857†	43660.7	42454.5	526.93 ug/L	526.93 ppb	01:51:07
1	SiO2†	69503.4	67866.9	5537.5 ug/L	5537.5 ppb	01:52:34
2	Sc Radial	3261.2	3261.2	97.0 %		01:50:29
2	Y RADIAL	2672.9	2672.9	95.85 %		01:50:29
2	Al 396.153Radial†	2383.8	2527.9	5341.5 ug/L	5341.5 ppb	01:50:09
2	Ca 317.933Radial†	1316.5	1346.9	5296.1 ug/L	5296.1 ppb	01:50:29
2	Fe 238.204 Radial†	192.1	190.8	5376.4 ug/L	5376.4 ppb	01:50:29
2	K 766.490 Radial†	13561.1	11830.5	5382.3 ug/L	5382.3 ppb	01:50:09
2	Mg 279.077 IEC†	56.2	56.4	5510.5 ug/L	5510.5 ppb	01:50:29
2	Na 589.592 Radial†	31306.2	33059.2	10951 ug/L	10951 ppb	01:50:09
2	Sr 421.552†	54827.6	56523.1	524.13 ug/L	524.13 ppb	01:50:09
2	Sc 361.383	822613.1	822613.1	101.00 %		01:51:33
2	Y 371.029	696978.2	696978.2	99.487 %		01:51:33
2	Ag 328.068†	102636.2	101411.6	531.05 ug/L	531.05 ppb	01:51:38
2	As 188.979†	907.4	915.9	533.05 ug/L	533.05 ppb	01:51:58
2	B 249.677†	18062.2	18076.3	512.92 ug/L	512.92 ppb	01:51:38
2	Ba 233.527†	55881.8	55327.1	533.49 ug/L	533.49 ppb	01:51:38
2	Be 313.107†	1203875.8	1195447.2	530.92 ug/L	530.92 ppb	01:51:33
2	Cd 226.502†	35983.1	35789.2	537.97 ug/L	537.97 ppb	01:51:38
2	Co 228.616†	20485.9	20325.9	545.20 ug/L	545.20 ppb	01:51:38
2	Cr 267.716†	40137.2	39664.6	535.65 ug/L	535.65 ppb	01:51:38
2	Cu 324.752†	167241.4	159608.3	526.17 ug/L	526.17 ppb	01:51:38
2	Mn 257.610†	397195.3	392870.6	531.45 ug/L	531.45 ppb	01:51:33
2	Mo 202.031†	5926.6	5860.8	524.29 ug/L	524.29 ppb	01:51:58
2	Ni 231.604†	16899.8	16663.0	543.75 ug/L	543.75 ppb	01:51:38

2	P 214.914†	3571.6	3358.6	2556.0 ug/L	2556.0 ppb	01:51:58
2	Pb 220.353†	3311.5	3321.8	534.57 ug/L	534.57 ppb	01:51:58
2	S 181.975 Axial†	598.5	565.8	1038.1 ug/L	1038.1 ppb	01:51:58
2	Sb 206.836†	1245.2	1204.1	536.05 ug/L	536.05 ppb	01:51:58
2	Se 196.026†	616.4	628.9	551.41 ug/L	551.41 ppb	01:51:58
2	Si 251.611†	69406.3	68180.3	2613.4 ug/L	2613.4 ppb	01:51:38
2	Sn 189.927†	2238.9	2209.6	519.38 ug/L	519.38 ppb	01:51:58
2	Ti 334.940†	296310.6	294392.5	515.26 ug/L	515.26 ppb	01:51:38
2	Tl 190.801†	1310.2	1320.7	533.41 ug/L	533.41 ppb	01:51:58
2	U 409.014†	16242.0	18131.3	539.82 ug/L	539.82 ppb	01:51:38
2	V 292.402†	65496.9	66085.8	538.84 ug/L	538.84 ppb	01:51:38
2	Zn 213.857†	43712.7	42771.9	530.90 ug/L	530.90 ppb	01:51:38
2	SiO2†	69064.4	67855.6	5536.5 ug/L	5536.5 ppb	01:52:39
3	Sc Radial	3267.7	3267.7	97.2 %		01:50:55
3	Y RADIAL	2696.1	2696.1	96.68 %		01:50:55
3	Al 396.153Radial†	2398.7	2538.4	5363.6 ug/L	5363.6 ppb	01:50:34
3	Ca 317.933Radial†	1322.7	1350.5	5310.4 ug/L	5310.4 ppb	01:50:55
3	Fe 238.204 Radial†	193.6	192.0	5411.2 ug/L	5411.2 ppb	01:50:55
3	K 766.490 Radial†	13644.2	11888.2	5408.6 ug/L	5408.6 ppb	01:50:34
3	Mg 279.077 IEC†	55.4	55.5	5422.7 ug/L	5422.7 ppb	01:50:55
3	Na 589.592 Radial†	31306.4	32995.1	10929 ug/L	10929 ppb	01:50:34
3	Sr 421.552†	54919.6	56505.3	523.97 ug/L	523.97 ppb	01:50:34
3	Sc 361.383	812072.6	812072.6	99.704 %		01:52:04
3	Y 371.029	686635.5	686635.5	98.011 %		01:52:04
3	Ag 328.068†	103902.7	104000.9	544.56 ug/L	544.56 ppb	01:52:09
3	As 188.979†	901.9	922.0	536.72 ug/L	536.72 ppb	01:52:29
3	B 249.677†	18399.6	18646.8	529.15 ug/L	529.15 ppb	01:52:09
3	Ba 233.527†	56393.5	56558.5	545.36 ug/L	545.36 ppb	01:52:09
3	Be 313.107†	1185653.4	1192642.2	529.71 ug/L	529.71 ppb	01:52:04
3	Cd 226.502†	36208.7	36477.8	548.33 ug/L	548.33 ppb	01:52:09
3	Co 228.616†	20639.5	20743.3	556.38 ug/L	556.38 ppb	01:52:09
3	Cr 267.716†	40343.2	40387.1	545.41 ug/L	545.41 ppb	01:52:09
3	Cu 324.752†	169672.4	164195.7	541.29 ug/L	541.29 ppb	01:52:09
3	Mn 257.610†	392858.7	393625.6	532.48 ug/L	532.48 ppb	01:52:04
3	Mo 202.031†	5896.4	5906.7	528.39 ug/L	528.39 ppb	01:52:29
3	Ni 231.604†	16958.9	16939.5	552.77 ug/L	552.77 ppb	01:52:09
3	P 214.914†	3527.4	3360.2	2554.3 ug/L	2554.3 ppb	01:52:29
3	Pb 220.353†	3295.9	3348.7	538.89 ug/L	538.89 ppb	01:52:29
3	S 181.975 Axial†	597.0	572.0	1049.4 ug/L	1049.4 ppb	01:52:29
3	Sb 206.836†	1237.3	1212.2	539.63 ug/L	539.63 ppb	01:52:29
3	Se 196.026†	619.1	639.6	560.55 ug/L	560.55 ppb	01:52:29
3	Si 251.611†	70371.9	70040.8	2684.9 ug/L	2684.9 ppb	01:52:09
3	Sn 189.927†	2211.5	2210.8	519.67 ug/L	519.67 ppb	01:52:29
3	Ti 334.940†	299385.0	301284.0	527.33 ug/L	527.33 ppb	01:52:09
3	Tl 190.801†	1306.0	1333.3	538.50 ug/L	538.50 ppb	01:52:29
3	U 409.014†	16566.7	18665.7	555.76 ug/L	555.76 ppb	01:52:09
3	V 292.402†	65996.2	67428.3	549.71 ug/L	549.71 ppb	01:52:09
3	Zn 213.857†	44082.2	43704.3	542.50 ug/L	542.50 ppb	01:52:09
3	SiO2†	68705.9	68383.6	5579.6 ug/L	5579.6 ppb	01:52:44

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820797.4	100.78 %	0.979			0.97%
Sc Radial	3278.4	97.5 %	0.72			0.74%
Y 371.029	694768.4	99.171 %	1.0397			1.05%
Y RADIAL	2690.3	96.47 %	0.549			0.57%
Ag 328.068†	102222.7	535.29 ug/L	8.045	535.29 ppb	8.045	1.50%
QC value within limits for Ag 328.068 Recovery = 107.06%						
Al 396.153Radial†	2529.0	5343.8 ug/L	18.79	5343.8 ppb	18.79	0.35%
QC value within limits for Al 396.153Radial Recovery = 106.88%						
As 188.979†	919.2	535.03 ug/L	1.853	535.03 ppb	1.853	0.35%
QC value within limits for As 188.979 Recovery = 107.01%						
B 249.677†	18244.3	517.70 ug/L	9.962	517.70 ppb	9.962	1.92%
QC value within limits for B 249.677 Recovery = 103.54%						
Ba 233.527†	55675.5	536.85 ug/L	7.424	536.85 ppb	7.424	1.38%
QC value within limits for Ba 233.527 Recovery = 107.37%						
Be 313.107†	1192257.3	529.52 ug/L	1.509	529.52 ppb	1.509	0.28%
QC value within limits for Be 313.107 Recovery = 105.90%						
Ca 317.933Radial†	1350.0	5308.3 ug/L	11.23	5308.3 ppb	11.23	0.21%

QC value within limits for Ca 317.933Radial Recovery = 106.17%							
Cd 226.502†	35983.0	540.88 ug/L	6.498	540.88 ppb	6.498	1.20%	
QC value within limits for Cd 226.502 Recovery = 108.18%							
Co 228.616†	20428.5	547.95 ug/L	7.451	547.95 ppb	7.451	1.36%	
QC value within limits for Co 228.616 Recovery = 109.59%							
Cr 267.716†	39877.9	538.53 ug/L	5.979	538.53 ppb	5.979	1.11%	
QC value within limits for Cr 267.716 Recovery = 107.71%							
Cu 324.752†	161136.8	531.21 ug/L	8.729	531.21 ppb	8.729	1.64%	
QC value within limits for Cu 324.752 Recovery = 106.24%							
Fe 238.204 Radial†	192.0	5410.2 ug/L	33.28	5410.2 ppb	33.28	0.62%	
QC value within limits for Fe 238.204 Radial Recovery = 108.20%							
K 766.490 Radial†	11814.8	5375.2 ug/L	37.46	5375.2 ppb	37.46	0.70%	
QC value within limits for K 766.490 Radial Recovery = 107.50%							
Mg 279.077 IEC†	56.1	5481.4 ug/L	50.89	5481.4 ppb	50.89	0.93%	
QC value within limits for Mg 279.077 IEC Recovery = 109.63%							
Mn 257.610†	392436.6	530.87 ug/L	1.967	530.87 ppb	1.967	0.37%	
QC value within limits for Mn 257.610 Recovery = 106.17%							
Mo 202.031†	5872.6	525.34 ug/L	2.685	525.34 ppb	2.685	0.51%	
QC value within limits for Mo 202.031 Recovery = 105.07%							
Na 589.592 Radial†	32781.1	10858 ug/L	141.6	10858 ppb	141.6	1.30%	
QC value within limits for Na 589.592 Radial Recovery = 108.58%							
Ni 231.604†	16726.4	545.82 ug/L	6.186	545.82 ppb	6.186	1.13%	
QC value within limits for Ni 231.604 Recovery = 109.16%							
P 214.914†	3347.2	2545.9 ug/L	15.98	2545.9 ppb	15.98	0.63%	
QC value within limits for P 214.914 Recovery = 101.84%							
Pb 220.353†	3324.9	535.07 ug/L	3.589	535.07 ppb	3.589	0.67%	
QC value within limits for Pb 220.353 Recovery = 107.01%							
S 181.975 Axial†	564.7	1036.1 ug/L	14.34	1036.1 ppb	14.34	1.38%	
QC value within limits for S 181.975 Axial Recovery = 103.61%							
Sb 206.836†	1210.8	538.91 ug/L	2.574	538.91 ppb	2.574	0.48%	
QC value within limits for Sb 206.836 Recovery = 107.78%							
Se 196.026†	628.7	551.33 ug/L	9.254	551.33 ppb	9.254	1.68%	
QC value greater than the upper limit for Se 196.026 Recovery = 110.27%							
Si 251.611†	68792.7	2637.0 ug/L	41.50	2637.0 ppb	41.50	1.57%	
QC value within limits for Si 251.611 Recovery = 105.48%							
Sn 189.927†	2201.0	517.38 ug/L	3.727	517.38 ppb	3.727	0.72%	
QC value within limits for Sn 189.927 Recovery = 103.48%							
Sr 421.552†	56228.3	521.40 ug/L	4.593	521.40 ppb	4.593	0.88%	
QC value within limits for Sr 421.552 Recovery = 104.28%							
Ti 334.940†	296478.3	518.91 ug/L	7.307	518.91 ppb	7.307	1.41%	
QC value within limits for Ti 334.940 Recovery = 103.78%							
Tl 190.801†	1323.4	534.51 ug/L	3.568	534.51 ppb	3.568	0.67%	
QC value within limits for Tl 190.801 Recovery = 106.90%							
U 409.014†	18368.7	546.90 ug/L	8.116	546.90 ppb	8.116	1.48%	
QC value within limits for U 409.014 Recovery = 109.38%							
V 292.402†	66478.4	542.02 ug/L	6.695	542.02 ppb	6.695	1.24%	
QC value within limits for V 292.402 Recovery = 108.40%							
Zn 213.857†	42976.9	533.44 ug/L	8.089	533.44 ppb	8.089	1.52%	
QC value within limits for Zn 213.857 Recovery = 106.69%							
SiO2†	68035.4	5551.2 ug/L	24.60	5551.2 ppb	24.60	0.44%	
QC value within limits for SiO2 Recovery = 103.81%							
QC Failed. Continue with analysis.							

Sequence No.: 63

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 01:54:55

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	3248.1	3248.1	96.6 %		01:57:07
1	Y RADIAL	2666.9	2666.9	95.63 %		01:57:07
1	Al 396.153Radial†	-72.6	-5.8	-12.295 ug/L	-12.295 ppb	01:57:07
1	Ca 317.933Radial†	13.3	2.8	10.968 ug/L	10.968 ppb	01:57:07
1	Fe 238.204 Radial†	9.4	2.5	69.002 ug/L	69.002 ppb	01:57:07
1	K 766.490 Radial†	2383.2	311.9	142.06 ug/L	142.06 ppb	01:56:47
1	Mg 279.077 IEC†	2.5	1.0	98.153 ug/L	98.153 ppb	01:57:07
1	Na 589.592 Radial†	-791.0	-48.3	-15.991 ug/L	-15.991 ppb	01:56:47
1	Sr 421.552†	45.5	22.6	0.2096 ug/L	0.2096 ppb	01:56:47
1	Sc 361.383	809193.9	809193.9	99.351 %		01:58:04
1	Y 371.029	694147.2	694147.2	99.083 %		01:58:04
1	Ag 328.068†	127.0	-82.1	-0.4050 ug/L	-0.4050 ppb	01:58:04
1	As 188.979†	-14.5	2.8	1.6263 ug/L	1.6263 ppb	01:58:24
1	B 249.677†	-293.4	-102.7	-2.9398 ug/L	-2.9398 ppb	01:58:24
1	Ba 233.527†	2.9	0.7	0.0095 ug/L	0.0095 ppb	01:58:24
1	Be 313.107†	-3439.3	12.0	0.0052 ug/L	0.0052 ppb	01:58:04
1	Cd 226.502†	-159.6	1.2	0.0108 ug/L	0.0108 ppb	01:58:24
1	Co 228.616†	-44.4	-2.0	-0.0539 ug/L	-0.0539 ppb	01:58:24
1	Cr 267.716†	55.9	-19.4	-0.2588 ug/L	-0.2588 ppb	01:58:24
1	Cu 324.752†	5932.6	-8.4	-0.0242 ug/L	-0.0242 ppb	01:58:04
1	Mn 257.610†	373.7	-21.5	-0.0263 ug/L	-0.0263 ppb	01:58:24
1	Mo 202.031†	12.0	4.9	0.4419 ug/L	0.4419 ppb	01:58:24
1	Ni 231.604†	51.8	-17.5	-0.5729 ug/L	-0.5729 ppb	01:58:24
1	P 214.914†	174.6	-1.9	-1.5289 ug/L	-1.5289 ppb	01:58:24
1	Pb 220.353†	-50.0	-7.3	-1.1890 ug/L	-1.1890 ppb	01:58:24
1	S 181.975 Axial†	29.3	2.6	4.8117 ug/L	4.8117 ppb	01:58:24
1	Sb 206.836†	31.0	2.5	1.0944 ug/L	1.0944 ppb	01:58:24
1	Se 196.026†	-19.1	-0.6	-0.2857 ug/L	-0.2857 ppb	01:58:24
1	Si 251.611†	527.3	-9.0	-0.3512 ug/L	-0.3512 ppb	01:58:24
1	Sn 189.927†	10.5	3.3	0.7787 ug/L	0.7787 ppb	01:58:24
1	Ti 334.940†	-1033.6	-28.9	-0.0572 ug/L	-0.0572 ppb	01:58:04
1	Tl 190.801†	-20.0	3.3	1.3123 ug/L	1.3123 ppb	01:58:24
1	U 409.014†	-2019.0	17.7	0.5229 ug/L	0.5229 ppb	01:58:04
1	V 292.402†	-1187.3	41.5	0.3328 ug/L	0.3328 ppb	01:58:04
1	Zn 213.857†	535.3	30.3	0.3725 ug/L	0.3725 ppb	01:58:24
1	SiO2†	521.1	-1.4	-0.1300 ug/L	-0.1300 ppb	01:59:35
2	Sc Radial	3267.9	3267.9	97.2 %		01:57:32
2	Y RADIAL	2696.7	2696.7	96.70 %		01:57:32
2	Al 396.153Radial†	-62.8	4.7	9.9914 ug/L	9.9914 ppb	01:57:32
2	Ca 317.933Radial†	10.8	0.1	0.4994 ug/L	0.4994 ppb	01:57:32
2	Fe 238.204 Radial†	9.4	2.4	68.731 ug/L	68.731 ppb	01:57:32
2	K 766.490 Radial†	2235.3	144.7	65.901 ug/L	65.901 ppb	01:57:12
2	Mg 279.077 IEC†	1.6	0.1	10.083 ug/L	10.083 ppb	01:57:32
2	Na 589.592 Radial†	-781.2	-33.3	-11.027 ug/L	-11.027 ppb	01:57:12
2	Sr 421.552†	41.0	17.6	0.1634 ug/L	0.1634 ppb	01:57:12
2	Sc 361.383	818189.0	818189.0	100.46 %		01:58:29
2	Y 371.029	701333.7	701333.7	100.11 %		01:58:29
2	Ag 328.068†	95.0	-115.4	-0.5782 ug/L	-0.5782 ppb	01:58:29
2	As 188.979†	-21.4	-3.9	-2.2456 ug/L	-2.2456 ppb	01:58:49
2	B 249.677†	-279.2	-85.3	-2.4431 ug/L	-2.4431 ppb	01:58:49
2	Ba 233.527†	7.7	5.5	0.0552 ug/L	0.0552 ppb	01:58:49
2	Be 313.107†	-3480.6	8.9	0.0044 ug/L	0.0044 ppb	01:58:29
2	Cd 226.502†	-149.2	13.3	0.1934 ug/L	0.1934 ppb	01:58:49
2	Co 228.616†	-55.2	-12.3	-0.3290 ug/L	-0.3290 ppb	01:58:49
2	Cr 267.716†	62.7	-13.3	-0.1766 ug/L	-0.1766 ppb	01:58:49
2	Cu 324.752†	5988.5	-18.3	-0.0569 ug/L	-0.0569 ppb	01:58:29
2	Mn 257.610†	392.1	-7.4	-0.0036 ug/L	-0.0036 ppb	01:58:49
2	Mo 202.031†	15.1	7.8	0.7037 ug/L	0.7037 ppb	01:58:49
2	Ni 231.604†	63.9	-6.0	-0.1973 ug/L	-0.1973 ppb	01:58:49



2	P 214.914†	172.7	-5.7	-4.5588 ug/L	-4.5588 ppb	01:58:49
2	Pb 220.353†	-40.7	2.5	0.3979 ug/L	0.3979 ppb	01:58:49
2	S 181.975 Axial†	28.4	1.5	2.7132 ug/L	2.7132 ppb	01:58:49
2	Sb 206.836†	24.6	-4.3	-1.8129 ug/L	-1.8129 ppb	01:58:49
2	Se 196.026†	-17.9	0.8	0.8639 ug/L	0.8639 ppb	01:58:49
2	Si 251.611†	538.7	-3.5	-0.1427 ug/L	-0.1427 ppb	01:58:49
2	Sn 189.927†	8.5	1.2	0.2830 ug/L	0.2830 ppb	01:58:49
2	Ti 334.940†	-900.7	114.8	0.2002 ug/L	0.2002 ppb	01:58:29
2	Tl 190.801†	-34.2	-10.6	-4.2441 ug/L	-4.2441 ppb	01:58:49
2	U 409.014†	-2047.9	11.3	0.3298 ug/L	0.3298 ppb	01:58:29
2	V 292.402†	-1207.3	34.6	0.2793 ug/L	0.2793 ppb	01:58:29
2	Zn 213.857†	531.8	20.8	0.2521 ug/L	0.2521 ppb	01:58:49
2	SiO2†	514.3	-13.9	-1.1569 ug/L	-1.1569 ppb	01:59:55
3	Sc Radial	3275.2	3275.2	97.4 %		01:57:57
3	Y RADIAL	2701.6	2701.6	96.88 %		01:57:57
3	Al 396.153Radial†	-72.4	-5.0	-10.697 ug/L	-10.697 ppb	01:57:57
3	Ca 317.933Radial†	12.0	1.4	5.4140 ug/L	5.4140 ppb	01:57:57
3	Fe 238.204 Radial†	8.5	1.5	41.957 ug/L	41.957 ppb	01:57:57
3	K 766.490 Radial†	2266.4	171.5	78.147 ug/L	78.147 ppb	01:57:37
3	Mg 279.077 IEC†	2.2	0.7	68.176 ug/L	68.176 ppb	01:57:57
3	Na 589.592 Radial†	-818.4	-69.7	-23.077 ug/L	-23.077 ppb	01:57:37
3	Sr 421.552†	2.5	-22.0	-0.2038 ug/L	-0.2038 ppb	01:57:37
3	Sc 361.383	812077.1	812077.1	99.705 %		01:58:55
3	Y 371.029	695687.3	695687.3	99.303 %		01:58:55
3	Ag 328.068†	117.6	-92.0	-0.4662 ug/L	-0.4662 ppb	01:58:55
3	As 188.979†	-19.1	-1.7	-0.9637 ug/L	-0.9637 ppb	01:59:15
3	B 249.677†	-337.3	-145.7	-4.1595 ug/L	-4.1595 ppb	01:59:15
3	Ba 233.527†	8.6	6.4	0.0623 ug/L	0.0623 ppb	01:59:15
3	Be 313.107†	-3557.6	-94.4	-0.0416 ug/L	-0.0416 ppb	01:58:55
3	Cd 226.502†	-162.1	-0.7	-0.0157 ug/L	-0.0157 ppb	01:59:15
3	Co 228.616†	-43.5	-1.0	-0.0264 ug/L	-0.0264 ppb	01:59:15
3	Cr 267.716†	40.5	-35.1	-0.4716 ug/L	-0.4716 ppb	01:59:15
3	Cu 324.752†	5951.6	-10.5	-0.0323 ug/L	-0.0323 ppb	01:58:55
3	Mn 257.610†	400.1	3.6	0.0063 ug/L	0.0063 ppb	01:59:15
3	Mo 202.031†	12.2	5.1	0.4576 ug/L	0.4576 ppb	01:59:15
3	Ni 231.604†	68.5	-1.0	-0.0335 ug/L	-0.0335 ppb	01:59:15
3	P 214.914†	174.6	-2.5	-1.9929 ug/L	-1.9929 ppb	01:59:15
3	Pb 220.353†	-35.8	7.1	1.1365 ug/L	1.1365 ppb	01:59:15
3	S 181.975 Axial†	21.4	-5.4	-9.9282 ug/L	-9.9282 ppb	01:59:15
3	Sb 206.836†	25.5	-3.2	-1.3476 ug/L	-1.3476 ppb	01:59:15
3	Se 196.026†	-14.2	4.4	3.8141 ug/L	3.8141 ppb	01:59:15
3	Si 251.611†	516.3	-21.9	-0.8470 ug/L	-0.8470 ppb	01:59:15
3	Sn 189.927†	6.6	-0.6	-0.1491 ug/L	-0.1491 ppb	01:59:15
3	Ti 334.940†	-948.6	60.1	0.1006 ug/L	0.1006 ppb	01:58:55
3	Tl 190.801†	-31.8	-8.5	-3.3965 ug/L	-3.3965 ppb	01:59:15
3	U 409.014†	-2051.3	-7.5	-0.2279 ug/L	-0.2279 ppb	01:58:55
3	V 292.402†	-1251.8	-19.0	-0.1520 ug/L	-0.1520 ppb	01:58:55
3	Zn 213.857†	551.6	44.7	0.5535 ug/L	0.5535 ppb	01:59:15
3	SiO2†	520.0	-4.4	-0.3754 ug/L	-0.3754 ppb	02:00:15

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813153.3	99.837 %	0.5639			0.56%
Sc Radial	3263.7	97.0 %	0.42			0.43%
Y 371.029	697056.1	99.498 %	0.5401			0.54%
Y RADIAL	2688.4	96.40 %	0.673			0.70%
Ag 328.068†	-96.5	-0.4831 ug/L	0.08784	-0.4831 ppb	0.08784	18.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.0	-4.3335 ug/L	12.43135	-4.3335 ppb	12.43135	286.87%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-0.5277 ug/L	1.97241	-0.5277 ppb	1.97241	373.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-111.2	-3.1808 ug/L	0.88323	-3.1808 ppb	0.88323	27.77%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.2	0.0424 ug/L	0.02868	0.0424 ppb	0.02868	67.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-24.5	-0.0107 ug/L	0.02679	-0.0107 ppb	0.02679	251.48%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.4	5.6270 ug/L	5.23735	5.6270 ppb	5.23735	93.07%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	4.6	0.0628 ug/L	0.11383	0.0628 ppb	0.11383	181.16%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.1	-0.1364 ug/L	0.16735	-0.1364 ppb	0.16735	122.68%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-22.6	-0.3023 ug/L	0.15224	-0.3023 ppb	0.15224	50.35%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-12.4	-0.0378 ug/L	0.01704	-0.0378 ppb	0.01704	45.04%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.1	59.896 ug/L	15.5368	59.896 ppb	15.5368	25.94%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	209.3	95.369 ug/L	40.8959	95.369 ppb	40.8959	42.88%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.6	58.804 ug/L	44.7767	58.804 ppb	44.7767	76.15%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-8.4	-0.0079 ug/L	0.01669	-0.0079 ppb	0.01669	211.78%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.9	0.5344 ug/L	0.14682	0.5344 ppb	0.14682	27.47%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-50.4	-16.699 ug/L	6.0561	-16.699 ppb	6.0561	36.27%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-8.2	-0.2679 ug/L	0.27651	-0.2679 ppb	0.27651	103.22%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-3.4	-2.6935 ug/L	1.63192	-2.6935 ppb	1.63192	60.59%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	0.8	0.1151 ug/L	1.18824	0.1151 ppb	1.18824	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.4	-0.8011 ug/L	7.97363	-0.8011 ppb	7.97363	995.33%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.6	-0.6887 ug/L	1.56164	-0.6887 ppb	1.56164	226.76%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.5	1.4641 ug/L	2.11481	1.4641 ppb	2.11481	144.44%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-11.5	-0.4469 ug/L	0.36181	-0.4469 ppb	0.36181	80.95%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.3	0.3042 ug/L	0.46427	0.3042 ppb	0.46427	152.61%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	6.1	0.0564 ug/L	0.22649	0.0564 ppb	0.22649	401.49%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	48.7	0.0812 ug/L	0.12980	0.0812 ppb	0.12980	159.89%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-5.3	-2.1094 ug/L	2.99345	-2.1094 ppb	2.99345	141.91%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	7.2	0.2083 ug/L	0.38988	0.2083 ppb	0.38988	187.22%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	19.0	0.1534 ug/L	0.26577	0.1534 ppb	0.26577	173.28%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	31.9	0.3927 ug/L	0.15172	0.3927 ppb	0.15172	38.63%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-6.6	-0.5541 ug/L	0.53628	-0.5541 ppb	0.53628	96.78%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 73

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 03:05:10

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	3276.2	3276.2	97.4 %		03:07:22
1	Y RADIAL	2696.3	2696.3	96.69 %		03:07:22
1	Al 396.153Radial†	2375.4	2508.0	5299.1 ug/L	5299.1 ppb	03:07:01
1	Ca 317.933Radial†	1353.6	1378.7	5421.5 ug/L	5421.5 ppb	03:07:22
1	Fe 238.204 Radial†	195.3	193.2	5443.4 ug/L	5443.4 ppb	03:07:22
1	K 766.490 Radial†	13870.8	12084.5	5498.2 ug/L	5498.2 ppb	03:07:01
1	Mg 279.077 IEC†	53.2	53.0	5183.0 ug/L	5183.0 ppb	03:07:22
1	Na 589.592 Radial†	29230.0	30779.9	10196 ug/L	10196 ppb	03:07:01
1	Sr 421.552†	52731.9	54112.9	501.78 ug/L	501.78 ppb	03:07:01
1	Sc 361.383	835736.9	835736.9	102.61 %		03:08:19
1	Y 371.029	705360.6	705360.6	100.68 %		03:08:19
1	Ag 328.068†	103101.4	100269.2	525.10 ug/L	525.10 ppb	03:08:24
1	As 188.979†	937.1	930.7	541.57 ug/L	541.57 ppb	03:08:44
1	B 249.677†	18047.8	17781.4	504.51 ug/L	504.51 ppb	03:08:24
1	Ba 233.527†	56383.3	54947.0	529.83 ug/L	529.83 ppb	03:08:24
1	Be 313.107†	1227970.4	1200211.1	533.02 ug/L	533.02 ppb	03:08:19
1	Cd 226.502†	36341.5	35579.0	534.79 ug/L	534.79 ppb	03:08:24
1	Co 228.616†	20684.7	20201.2	541.88 ug/L	541.88 ppb	03:08:24
1	Cr 267.716†	40282.6	39182.3	529.14 ug/L	529.14 ppb	03:08:24
1	Cu 324.752†	168034.7	157781.1	520.15 ug/L	520.15 ppb	03:08:24
1	Mn 257.610†	407602.4	396837.4	536.83 ug/L	536.83 ppb	03:08:19
1	Mo 202.031†	6070.5	5908.9	528.59 ug/L	528.59 ppb	03:08:44
1	Ni 231.604†	16973.9	16472.5	537.53 ug/L	537.53 ppb	03:08:24
1	P 214.914†	3666.0	3395.1	2586.1 ug/L	2586.1 ppb	03:08:44
1	Pb 220.353†	3388.5	3345.3	538.34 ug/L	538.34 ppb	03:08:44
1	S 181.975 Axial†	617.9	575.3	1055.6 ug/L	1055.6 ppb	03:08:44
1	Sb 206.836†	1286.1	1224.7	545.04 ug/L	545.04 ppb	03:08:44
1	Se 196.026†	616.4	619.3	543.43 ug/L	543.43 ppb	03:08:44
1	Si 251.611†	69988.2	67668.3	2593.7 ug/L	2593.7 ppb	03:08:24
1	Sn 189.927†	2298.9	2233.2	524.95 ug/L	524.95 ppb	03:08:44
1	Ti 334.940†	298674.9	292089.6	511.28 ug/L	511.28 ppb	03:08:24
1	Tl 190.801†	1333.7	1323.2	534.44 ug/L	534.44 ppb	03:08:44
1	U 409.014†	16360.6	17994.4	535.74 ug/L	535.74 ppb	03:08:24
1	V 292.402†	65793.9	65356.9	533.02 ug/L	533.02 ppb	03:08:24
1	Zn 213.857†	43847.2	42223.3	524.06 ug/L	524.06 ppb	03:08:24
1	SiO2†	71360.3	69019.4	5631.6 ug/L	5631.6 ppb	03:09:51
2	Sc Radial	3296.1	3296.1	98.0 %		03:07:47
2	Y RADIAL	2704.6	2704.6	96.99 %		03:07:47
2	Al 396.153Radial†	2364.4	2482.1	5244.1 ug/L	5244.1 ppb	03:07:27
2	Ca 317.933Radial†	1361.4	1378.2	5419.4 ug/L	5419.4 ppb	03:07:47
2	Fe 238.204 Radial†	195.2	191.9	5407.6 ug/L	5407.6 ppb	03:07:47
2	K 766.490 Radial†	13752.6	11877.8	5404.2 ug/L	5404.2 ppb	03:07:27
2	Mg 279.077 IEC†	57.1	56.7	5543.8 ug/L	5543.8 ppb	03:07:47
2	Na 589.592 Radial†	28708.3	30066.3	9959.2 ug/L	9959.2 ppb	03:07:27
2	Sr 421.552†	51944.5	52982.4	491.30 ug/L	491.30 ppb	03:07:27
2	Sc 361.383	835966.0	835966.0	102.64 %		03:08:50
2	Y 371.029	706510.5	706510.5	100.85 %		03:08:50
2	Ag 328.068†	103279.9	100415.5	525.86 ug/L	525.86 ppb	03:08:55
2	As 188.979†	929.3	922.8	537.05 ug/L	537.05 ppb	03:09:15
2	B 249.677†	18337.9	18059.2	512.43 ug/L	512.43 ppb	03:08:55
2	Ba 233.527†	56640.1	55182.1	532.09 ug/L	532.09 ppb	03:08:55
2	Be 313.107†	1230046.7	1201905.9	533.78 ug/L	533.78 ppb	03:08:50
2	Cd 226.502†	36437.4	35662.7	536.06 ug/L	536.06 ppb	03:08:55
2	Co 228.616†	20811.5	20319.2	545.03 ug/L	545.03 ppb	03:08:55
2	Cr 267.716†	40499.1	39382.5	531.85 ug/L	531.85 ppb	03:08:55
2	Cu 324.752†	168591.1	158278.3	521.79 ug/L	521.79 ppb	03:08:55
2	Mn 257.610†	407628.5	396754.0	536.70 ug/L	536.70 ppb	03:08:50
2	Mo 202.031†	6043.2	5880.7	526.07 ug/L	526.07 ppb	03:09:15
2	Ni 231.604†	17071.6	16563.2	540.49 ug/L	540.49 ppb	03:08:55

2	P 214.914†	3652.5	3381.0	2574.5 ug/L	2574.5 ppb	03:09:15
2	Pb 220.353†	3367.8	3324.2	534.95 ug/L	534.95 ppb	03:09:15
2	S 181.975 Axial†	614.0	571.4	1048.3 ug/L	1048.3 ppb	03:09:15
2	Sb 206.836†	1283.4	1221.7	543.62 ug/L	543.62 ppb	03:09:15
2	Se 196.026†	621.4	624.1	547.37 ug/L	547.37 ppb	03:09:15
2	Si 251.611†	70153.0	67810.2	2599.2 ug/L	2599.2 ppb	03:08:55
2	Sn 189.927†	2277.3	2211.5	519.86 ug/L	519.86 ppb	03:09:15
2	Ti 334.940†	299786.3	293092.7	513.00 ug/L	513.00 ppb	03:08:55
2	Tl 190.801†	1337.0	1326.0	535.57 ug/L	535.57 ppb	03:09:15
2	U 409.014†	16176.6	17810.7	530.25 ug/L	530.25 ppb	03:08:55
2	V 292.402†	66081.2	65619.2	535.09 ug/L	535.09 ppb	03:08:55
2	Zn 213.857†	44068.0	42426.8	526.60 ug/L	526.60 ppb	03:08:55
2	SiO2†	70400.7	68065.3	5553.6 ug/L	5553.6 ppb	03:09:57
3	Sc Radial	3289.7	3289.7	97.8 %		03:08:12
3	Y RADIAL	2695.7	2695.7	96.67 %		03:08:12
3	Al 396.153Radial†	2396.0	2519.1	5322.7 ug/L	5322.7 ppb	03:07:52
3	Ca 317.933Radial†	1363.7	1383.3	5439.5 ug/L	5439.5 ppb	03:08:12
3	Fe 238.204 Radial†	196.1	193.2	5445.0 ug/L	5445.0 ppb	03:08:12
3	K 766.490 Radial†	13948.0	12104.8	5507.4 ug/L	5507.4 ppb	03:07:52
3	Mg 279.077 IEC†	55.5	55.2	5391.0 ug/L	5391.0 ppb	03:08:12
3	Na 589.592 Radial†	29790.3	31229.3	10344 ug/L	10344 ppb	03:07:52
3	Sr 421.552†	53626.7	54805.0	508.20 ug/L	508.20 ppb	03:07:52
3	Sc 361.383	832398.6	832398.6	102.20 %		03:09:21
3	Y 371.029	703343.4	703343.4	100.40 %		03:09:21
3	Ag 328.068†	104418.3	101960.6	533.93 ug/L	533.93 ppb	03:09:26
3	As 188.979†	922.0	919.6	535.25 ug/L	535.25 ppb	03:09:46
3	B 249.677†	18539.8	18333.4	520.22 ug/L	520.22 ppb	03:09:26
3	Ba 233.527†	57032.7	55802.8	538.08 ug/L	538.08 ppb	03:09:26
3	Be 313.107†	1230266.0	1207256.6	536.17 ug/L	536.17 ppb	03:09:21
3	Cd 226.502†	36773.1	36143.3	543.29 ug/L	543.29 ppb	03:09:26
3	Co 228.616†	20946.2	20538.0	550.88 ug/L	550.88 ppb	03:09:26
3	Cr 267.716†	40884.0	39928.2	539.21 ug/L	539.21 ppb	03:09:26
3	Cu 324.752†	170578.0	160926.4	530.52 ug/L	530.52 ppb	03:09:26
3	Mn 257.610†	407811.5	398635.1	539.25 ug/L	539.25 ppb	03:09:21
3	Mo 202.031†	6021.4	5884.6	526.42 ug/L	526.42 ppb	03:09:46
3	Ni 231.604†	17218.4	16778.0	547.50 ug/L	547.50 ppb	03:09:26
3	P 214.914†	3645.9	3389.8	2579.8 ug/L	2579.8 ppb	03:09:46
3	Pb 220.353†	3379.1	3349.3	538.98 ug/L	538.98 ppb	03:09:46
3	S 181.975 Axial†	612.4	572.4	1050.2 ug/L	1050.2 ppb	03:09:46
3	Sb 206.836†	1281.2	1224.9	545.08 ug/L	545.08 ppb	03:09:46
3	Se 196.026†	620.7	626.0	549.08 ug/L	549.08 ppb	03:09:46
3	Si 251.611†	70981.6	68913.9	2641.6 ug/L	2641.6 ppb	03:09:26
3	Sn 189.927†	2284.2	2227.8	523.69 ug/L	523.69 ppb	03:09:46
3	Ti 334.940†	302739.6	297234.2	520.26 ug/L	520.26 ppb	03:09:26
3	Tl 190.801†	1332.1	1326.9	535.93 ug/L	535.93 ppb	03:09:46
3	U 409.014†	16690.9	18381.5	547.28 ug/L	547.28 ppb	03:09:26
3	V 292.402†	66685.1	66486.1	542.08 ug/L	542.08 ppb	03:09:26
3	Zn 213.857†	44539.9	43072.5	534.63 ug/L	534.63 ppb	03:09:26
3	SiO2†	69514.8	67492.5	5506.8 ug/L	5506.8 ppb	03:10:02

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834700.5	102.48 %	0.245			0.24%
Sc Radial	3287.3	97.7 %	0.30			0.31%
Y 371.029	705071.5	100.64 %	0.229			0.23%
Y RADIAL	2698.9	96.78 %	0.179			0.18%
Ag 328.068†	100881.8	528.30 ug/L	4.892	528.30 ppb	4.892	0.93%
QC value within limits for Ag 328.068 Recovery = 105.66%						
Al 396.153Radial†	2503.1	5288.6 ug/L	40.31	5288.6 ppb	40.31	0.76%
QC value within limits for Al 396.153Radial Recovery = 105.77%						
As 188.979†	924.4	537.96 ug/L	3.255	537.96 ppb	3.255	0.61%
QC value within limits for As 188.979 Recovery = 107.59%						
B 249.677†	18058.0	512.39 ug/L	7.856	512.39 ppb	7.856	1.53%
QC value within limits for B 249.677 Recovery = 102.48%						
Ba 233.527†	55310.6	533.33 ug/L	4.264	533.33 ppb	4.264	0.80%
QC value within limits for Ba 233.527 Recovery = 106.67%						
Be 313.107†	1203124.5	534.32 ug/L	1.640	534.32 ppb	1.640	0.31%
QC value within limits for Be 313.107 Recovery = 106.86%						
Ca 317.933Radial†	1380.1	5426.8 ug/L	11.04	5426.8 ppb	11.04	0.20%

QC value within limits for Ca 317.933Radial Recovery = 108.54%							
Cd 226.502†	35795.0	538.05 ug/L	4.582	538.05 ppb	4.582	0.85%	
QC value within limits for Cd 226.502 Recovery = 107.61%							
Co 228.616†	20352.8	545.93 ug/L	4.570	545.93 ppb	4.570	0.84%	
QC value within limits for Co 228.616 Recovery = 109.19%							
Cr 267.716†	39497.7	533.40 ug/L	5.211	533.40 ppb	5.211	0.98%	
QC value within limits for Cr 267.716 Recovery = 106.68%							
Cu 324.752†	158995.3	524.15 ug/L	5.570	524.15 ppb	5.570	1.06%	
QC value within limits for Cu 324.752 Recovery = 104.83%							
Fe 238.204 Radial†	192.8	5432.0 ug/L	21.11	5432.0 ppb	21.11	0.39%	
QC value within limits for Fe 238.204 Radial Recovery = 108.64%							
K 766.490 Radial†	12022.4	5469.9 ug/L	57.14	5469.9 ppb	57.14	1.04%	
QC value within limits for K 766.490 Radial Recovery = 109.40%							
Mg 279.077 IEC†	55.0	5372.6 ug/L	181.07	5372.6 ppb	181.07	3.37%	
QC value within limits for Mg 279.077 IEC Recovery = 107.45%							
Mn 257.610†	397408.8	537.60 ug/L	1.438	537.60 ppb	1.438	0.27%	
QC value within limits for Mn 257.610 Recovery = 107.52%							
Mo 202.031†	5891.4	527.03 ug/L	1.366	527.03 ppb	1.366	0.26%	
QC value within limits for Mo 202.031 Recovery = 105.41%							
Na 589.592 Radial†	30691.8	10166 ug/L	194.3	10166 ppb	194.3	1.91%	
QC value within limits for Na 589.592 Radial Recovery = 101.66%							
Ni 231.604†	16604.6	541.84 ug/L	5.121	541.84 ppb	5.121	0.95%	
QC value within limits for Ni 231.604 Recovery = 108.37%							
P 214.914†	3388.6	2580.1 ug/L	5.77	2580.1 ppb	5.77	0.22%	
QC value within limits for P 214.914 Recovery = 103.21%							
Pb 220.353†	3339.6	537.42 ug/L	2.170	537.42 ppb	2.170	0.40%	
QC value within limits for Pb 220.353 Recovery = 107.48%							
S 181.975 Axial†	573.0	1051.3 ug/L	3.78	1051.3 ppb	3.78	0.36%	
QC value within limits for S 181.975 Axial Recovery = 105.13%							
Sb 206.836†	1223.7	544.58 ug/L	0.834	544.58 ppb	0.834	0.15%	
QC value within limits for Sb 206.836 Recovery = 108.92%							
Se 196.026†	623.1	546.62 ug/L	2.897	546.62 ppb	2.897	0.53%	
QC value within limits for Se 196.026 Recovery = 109.32%							
Si 251.611†	68130.8	2611.5 ug/L	26.21	2611.5 ppb	26.21	1.00%	
QC value within limits for Si 251.611 Recovery = 104.46%							
Sn 189.927†	2224.2	522.83 ug/L	2.654	522.83 ppb	2.654	0.51%	
QC value within limits for Sn 189.927 Recovery = 104.57%							
Sr 421.552†	53966.8	500.42 ug/L	8.532	500.42 ppb	8.532	1.70%	
QC value within limits for Sr 421.552 Recovery = 100.08%							
Ti 334.940†	294138.8	514.85 ug/L	4.767	514.85 ppb	4.767	0.93%	
QC value within limits for Ti 334.940 Recovery = 102.97%							
Tl 190.801†	1325.4	535.31 ug/L	0.780	535.31 ppb	0.780	0.15%	
QC value within limits for Tl 190.801 Recovery = 107.06%							
U 409.014†	18062.2	537.75 ug/L	8.693	537.75 ppb	8.693	1.62%	
QC value within limits for U 409.014 Recovery = 107.55%							
V 292.402†	65820.7	536.73 ug/L	4.752	536.73 ppb	4.752	0.89%	
QC value within limits for V 292.402 Recovery = 107.35%							
Zn 213.857†	42574.2	528.43 ug/L	5.514	528.43 ppb	5.514	1.04%	
QC value within limits for Zn 213.857 Recovery = 105.69%							
SiO2†	68192.4	5564.0 ug/L	63.06	5564.0 ppb	63.06	1.13%	
QC value within limits for SiO2 Recovery = 104.05%							
All analyte(s) passed QC.							

Sequence No.: 74

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 03:12:11

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	3308.2	3308.2	98.4 %		03:14:24
1	Y RADIAL	2728.5	2728.5	97.84 %		03:14:24
1	Al 396.153Radial†	-64.9	3.4	7.1788 ug/L	7.1788 ppb	03:14:24
1	Ca 317.933Radial†	10.9	0.1	0.2822 ug/L	0.2822 ppb	03:14:24
1	Fe 238.204 Radial†	8.5	1.4	39.049 ug/L	39.049 ppb	03:14:24
1	K 766.490 Radial†	2086.5	-34.7	-15.795 ug/L	-15.795 ppb	03:14:04
1	Mg 279.077 IEC†	1.2	-0.3	-30.985 ug/L	-30.985 ppb	03:14:24
1	Na 589.592 Radial†	-746.8	11.6	3.8298 ug/L	3.8298 ppb	03:14:04
1	Sr 421.552†	30.8	6.8	0.0631 ug/L	0.0631 ppb	03:14:04
1	Sc 361.383	818237.1	818237.1	100.46 %		03:15:21
1	Y 371.029	700216.9	700216.9	99.949 %		03:15:21
1	Ag 328.068†	154.4	-56.2	-0.2788 ug/L	-0.2788 ppb	03:15:21
1	As 188.979†	-9.6	7.9	4.5591 ug/L	4.5591 ppb	03:15:41
1	B 249.677†	-300.7	-106.7	-3.0499 ug/L	-3.0499 ppb	03:15:41
1	Ba 233.527†	1.4	-0.8	-0.0054 ug/L	-0.0054 ppb	03:15:41
1	Be 313.107†	-3575.8	-85.6	-0.0377 ug/L	-0.0377 ppb	03:15:21
1	Cd 226.502†	-156.9	5.6	0.0798 ug/L	0.0798 ppb	03:15:41
1	Co 228.616†	-33.3	9.4	0.2542 ug/L	0.2542 ppb	03:15:41
1	Cr 267.716†	96.2	20.0	0.2718 ug/L	0.2718 ppb	03:15:41
1	Cu 324.752†	5978.3	-28.8	-0.0933 ug/L	-0.0933 ppb	03:15:21
1	Mn 257.610†	380.9	-18.6	-0.0200 ug/L	-0.0200 ppb	03:15:41
1	Mo 202.031†	16.8	9.5	0.8524 ug/L	0.8524 ppb	03:15:41
1	Ni 231.604†	39.7	-30.1	-0.9841 ug/L	-0.9841 ppb	03:15:41
1	P 214.914†	178.8	0.3	0.2267 ug/L	0.2267 ppb	03:15:41
1	Pb 220.353†	-48.8	-5.6	-0.8970 ug/L	-0.8970 ppb	03:15:41
1	S 181.975 Axial†	29.1	2.2	3.9484 ug/L	3.9484 ppb	03:15:41
1	Sb 206.836†	30.4	1.6	0.6820 ug/L	0.6820 ppb	03:15:41
1	Se 196.026†	-17.0	1.7	1.5871 ug/L	1.5871 ppb	03:15:41
1	Si 251.611†	480.9	-61.1	-2.3568 ug/L	-2.3568 ppb	03:15:41
1	Sn 189.927†	3.9	-3.3	-0.7818 ug/L	-0.7818 ppb	03:15:41
1	Ti 334.940†	-963.1	52.8	0.0947 ug/L	0.0947 ppb	03:15:21
1	Tl 190.801†	-29.2	-5.6	-2.2685 ug/L	-2.2685 ppb	03:15:41
1	U 409.014†	-2039.5	19.7	0.5845 ug/L	0.5845 ppb	03:15:21
1	V 292.402†	-1174.2	67.6	0.5509 ug/L	0.5509 ppb	03:15:21
1	Zn 213.857†	534.9	23.9	0.2996 ug/L	0.2996 ppb	03:15:41
1	SiO2†	491.5	-36.7	-3.0251 ug/L	-3.0251 ppb	03:16:52
2	Sc Radial	3309.2	3309.2	98.4 %		03:14:49
2	Y RADIAL	2729.3	2729.3	97.87 %		03:14:49
2	Al 396.153Radial†	-70.8	-2.6	-5.5980 ug/L	-5.5980 ppb	03:14:49
2	Ca 317.933Radial†	8.5	-2.3	-9.0318 ug/L	-9.0318 ppb	03:14:49
2	Fe 238.204 Radial†	10.7	3.6	102.07 ug/L	102.07 ppb	03:14:49
2	K 766.490 Radial†	2170.5	50.1	22.843 ug/L	22.843 ppb	03:14:29
2	Mg 279.077 IEC†	1.7	0.2	16.246 ug/L	16.246 ppb	03:14:49
2	Na 589.592 Radial†	-768.4	-10.3	-3.3962 ug/L	-3.3962 ppb	03:14:29
2	Sr 421.552†	7.8	-16.6	-0.1536 ug/L	-0.1536 ppb	03:14:29
2	Sc 361.383	825009.7	825009.7	101.29 %		03:15:46
2	Y 371.029	707427.3	707427.3	100.98 %		03:15:46
2	Ag 328.068†	148.0	-63.8	-0.3003 ug/L	-0.3003 ppb	03:15:46
2	As 188.979†	-21.5	-3.8	-2.1758 ug/L	-2.1758 ppb	03:16:06
2	B 249.677†	-284.7	-88.5	-2.5381 ug/L	-2.5381 ppb	03:16:06
2	Ba 233.527†	-3.1	-5.3	-0.0467 ug/L	-0.0467 ppb	03:16:06
2	Be 313.107†	-3606.3	-86.5	-0.0383 ug/L	-0.0383 ppb	03:15:46
2	Cd 226.502†	-153.4	10.4	0.1464 ug/L	0.1464 ppb	03:16:06
2	Co 228.616†	-55.1	-11.8	-0.3158 ug/L	-0.3158 ppb	03:16:06
2	Cr 267.716†	98.0	21.0	0.2869 ug/L	0.2869 ppb	03:16:06
2	Cu 324.752†	5923.7	-131.6	-0.4297 ug/L	-0.4297 ppb	03:15:46
2	Mn 257.610†	407.2	4.3	0.0152 ug/L	0.0152 ppb	03:16:06
2	Mo 202.031†	12.7	5.3	0.4846 ug/L	0.4846 ppb	03:16:06
2	Ni 231.604†	68.4	-2.1	-0.0688 ug/L	-0.0688 ppb	03:16:06

2	P 214.914†	171.2	-8.7	-6.8604 ug/L	-6.8604 ppb	03:16:06
2	Pb 220.353†	-67.3	-23.5	-3.7790 ug/L	-3.7790 ppb	03:16:06
2	S 181.975 Axial†	28.8	1.6	2.9502 ug/L	2.9502 ppb	03:16:06
2	Sb 206.836†	23.1	-6.0	-2.5687 ug/L	-2.5687 ppb	03:16:06
2	Se 196.026†	-20.9	-2.0	-1.4034 ug/L	-1.4034 ppb	03:16:06
2	Si 251.611†	500.5	-45.6	-1.7598 ug/L	-1.7598 ppb	03:16:06
2	Sn 189.927†	1.3	-5.9	-1.3984 ug/L	-1.3984 ppb	03:16:06
2	Ti 334.940†	-1027.2	-2.6	-0.0083 ug/L	-0.0083 ppb	03:15:46
2	Tl 190.801†	-25.7	-1.9	-0.7803 ug/L	-0.7803 ppb	03:16:06
2	U 409.014†	-1990.2	85.1	2.5304 ug/L	2.5304 ppb	03:15:46
2	V 292.402†	-1192.2	59.5	0.4757 ug/L	0.4757 ppb	03:15:46
2	Zn 213.857†	528.6	13.3	0.1519 ug/L	0.1519 ppb	03:16:06
2	SiO2†	483.5	-48.6	-3.9912 ug/L	-3.9912 ppb	03:17:12
3	Sc Radial	3328.7	3328.7	99.0 %		03:15:14
3	Y RADIAL	2741.2	2741.2	98.30 %		03:15:14
3	Al 396.153Radial†	-66.0	2.7	5.6900 ug/L	5.6900 ppb	03:15:14
3	Ca 317.933Radial†	6.2	-4.7	-18.538 ug/L	-18.538 ppb	03:15:14
3	Fe 238.204 Radial†	8.6	1.4	39.374 ug/L	39.374 ppb	03:15:14
3	K 766.490 Radial†	2037.7	-97.1	-44.208 ug/L	-44.208 ppb	03:14:54
3	Mg 279.077 IEC†	2.1	0.6	57.288 ug/L	57.288 ppb	03:15:14
3	Na 589.592 Radial†	-783.6	-21.0	-6.9513 ug/L	-6.9513 ppb	03:14:54
3	Sr 421.552†	11.4	-13.1	-0.1210 ug/L	-0.1210 ppb	03:14:54
3	Sc 361.383	809983.9	809983.9	99.448 %		03:16:11
3	Y 371.029	694396.4	694396.4	99.118 %		03:16:11
3	Ag 328.068†	119.9	-89.4	-0.4533 ug/L	-0.4533 ppb	03:16:11
3	As 188.979†	-23.3	-6.0	-3.4293 ug/L	-3.4293 ppb	03:16:31
3	B 249.677†	-304.4	-113.5	-3.2422 ug/L	-3.2422 ppb	03:16:31
3	Ba 233.527†	9.5	7.3	0.0734 ug/L	0.0734 ppb	03:16:31
3	Be 313.107†	-3518.1	-63.9	-0.0281 ug/L	-0.0281 ppb	03:16:11
3	Cd 226.502†	-162.4	-1.4	-0.0251 ug/L	-0.0251 ppb	03:16:31
3	Co 228.616†	-41.0	1.4	0.0351 ug/L	0.0351 ppb	03:16:31
3	Cr 267.716†	90.8	15.6	0.2108 ug/L	0.2108 ppb	03:16:31
3	Cu 324.752†	5860.9	-86.2	-0.2846 ug/L	-0.2846 ppb	03:16:11
3	Mn 257.610†	402.9	7.4	0.0116 ug/L	0.0116 ppb	03:16:31
3	Mo 202.031†	6.0	-1.2	-0.1026 ug/L	-0.1026 ppb	03:16:31
3	Ni 231.604†	55.8	-13.6	-0.4434 ug/L	-0.4434 ppb	03:16:31
3	P 214.914†	178.6	1.9	1.5576 ug/L	1.5576 ppb	03:16:31
3	Pb 220.353†	-54.3	-11.6	-1.8709 ug/L	-1.8709 ppb	03:16:31
3	S 181.975 Axial†	25.2	-1.5	-2.6931 ug/L	-2.6931 ppb	03:16:31
3	Sb 206.836†	31.9	3.4	1.4612 ug/L	1.4612 ppb	03:16:31
3	Se 196.026†	-24.2	-5.7	-4.7445 ug/L	-4.7445 ppb	03:16:31
3	Si 251.611†	494.2	-42.8	-1.6435 ug/L	-1.6435 ppb	03:16:31
3	Sn 189.927†	11.7	4.6	1.0749 ug/L	1.0749 ppb	03:16:31
3	Ti 334.940†	-945.6	60.6	0.0970 ug/L	0.0970 ppb	03:16:11
3	Tl 190.801†	-30.2	-6.9	-2.7663 ug/L	-2.7663 ppb	03:16:31
3	U 409.014†	-1894.0	145.4	4.3375 ug/L	4.3375 ppb	03:16:11
3	V 292.402†	-1139.9	90.3	0.7285 ug/L	0.7285 ppb	03:16:11
3	Zn 213.857†	536.2	30.6	0.3811 ug/L	0.3811 ppb	03:16:31
3	SiO2†	494.0	-29.2	-2.3860 ug/L	-2.3860 ppb	03:17:32

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817743.6	100.40 %		0.924			0.92%
Sc Radial	3315.4	98.6 %		0.34			0.35%
Y 371.029	700680.2	100.02 %		0.932			0.93%
Y RADIAL	2733.0	98.00 %		0.256			0.26%
Ag 328.068†	-69.8	-0.3442 ug/L		0.09515	-0.3442 ppb	0.09515	27.65%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.2	2.4236 ug/L		6.98665	2.4236 ppb	6.98665	288.28%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.6	-0.3487 ug/L		4.29622	-0.3487 ppb	4.29622	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-102.9	-2.9434 ug/L		0.36393	-2.9434 ppb	0.36393	12.36%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.4	0.0071 ug/L		0.06104	0.0071 ppb	0.06104	856.20%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-78.6	-0.0347 ug/L		0.00575	-0.0347 ppb	0.00575	16.58%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-2.3	-9.0958 ug/L		9.41009	-9.0958 ppb	9.41009	103.46%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	4.9	0.0670 ug/L	0.08646	0.0670 ppb	0.08646	128.98%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.3	-0.0088 ug/L	0.28753	-0.0088 ppb	0.28753	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	18.8	0.2565 ug/L	0.04025	0.2565 ppb	0.04025	15.69%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-82.2	-0.2692 ug/L	0.16874	-0.2692 ppb	0.16874	62.68%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.1	60.165 ug/L	36.2926	60.165 ppb	36.2926	60.32%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-27.2	-12.387 ug/L	33.6554	-12.387 ppb	33.6554	271.70%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.1	14.183 ug/L	44.1726	14.183 ppb	44.1726	311.45%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-2.3	0.0023 ug/L	0.01937	0.0023 ppb	0.01937	854.31%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.6	0.4115 ug/L	0.48167	0.4115 ppb	0.48167	117.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-6.6	-2.1726 ug/L	5.49372	-2.1726 ppb	5.49372	252.87%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-15.3	-0.4988 ug/L	0.46017	-0.4988 ppb	0.46017	92.26%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.1	-1.6920 ug/L	4.52510	-1.6920 ppb	4.52510	267.43%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-13.6	-2.1823 ug/L	1.46599	-2.1823 ppb	1.46599	67.18%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.8	1.4018 ug/L	3.58126	1.4018 ppb	3.58126	255.47%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-0.3	-0.1418 ug/L	2.13753	-0.1418 ppb	2.13753	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.0	-1.5202 ug/L	3.16746	-1.5202 ppb	3.16746	208.35%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-49.8	-1.9201 ug/L	0.38270	-1.9201 ppb	0.38270	19.93%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.5	-0.3684 ug/L	1.28743	-0.3684 ppb	1.28743	349.45%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.6	-0.0705 ug/L	0.11685	-0.0705 ppb	0.11685	165.71%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	37.0	0.0611 ug/L	0.06016	0.0611 ppb	0.06016	98.42%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-4.8	-1.9384 ug/L	1.03329	-1.9384 ppb	1.03329	53.31%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	83.4	2.4841 ug/L	1.87690	2.4841 ppb	1.87690	75.56%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	72.5	0.5850 ug/L	0.12982	0.5850 ppb	0.12982	22.19%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	22.6	0.2775 ug/L	0.11618	0.2775 ppb	0.11618	41.86%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-38.2	-3.1341 ug/L	0.80813	-3.1341 ppb	0.80813	25.79%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.



Sequence No.: 84

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 04:23:27

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	3231.5	3231.5	96.1 %		04:25:39
1	Y RADIAL	2655.4	2655.4	95.22 %		04:25:39
1	Al 396.153Radial†	2209.9	2369.5	5005.1 ug/L	5005.1 ppb	04:25:19
1	Ca 317.933Radial†	1362.8	1407.5	5534.6 ug/L	5534.6 ppb	04:25:39
1	Fe 238.204 Radial†	194.4	195.0	5495.5 ug/L	5495.5 ppb	04:25:39
1	K 766.490 Radial†	13175.4	11557.5	5258.2 ug/L	5258.2 ppb	04:25:19
1	Mg 279.077 IEC†	58.1	58.9	5758.6 ug/L	5758.6 ppb	04:25:39
1	Na 589.592 Radial†	28067.4	29984.6	9932.1 ug/L	9932.1 ppb	04:25:19
1	Sr 421.552†	50004.2	52022.0	482.39 ug/L	482.39 ppb	04:25:19
1	Sc 361.383	832925.0	832925.0	102.26 %		04:26:37
1	Y 371.029	705169.3	705169.3	100.66 %		04:26:37
1	Ag 328.068†	105107.2	102569.8	537.13 ug/L	537.13 ppb	04:26:42
1	As 188.979†	922.6	919.6	535.28 ug/L	535.28 ppb	04:27:02
1	B 249.677†	18550.6	18332.4	520.19 ug/L	520.19 ppb	04:26:42
1	Ba 233.527†	57320.3	56048.8	540.45 ug/L	540.45 ppb	04:26:42
1	Be 313.107†	1232818.2	1208991.6	536.94 ug/L	536.94 ppb	04:26:37
1	Cd 226.502†	36859.5	36205.1	544.21 ug/L	544.21 ppb	04:26:42
1	Co 228.616†	20982.8	20560.8	551.49 ug/L	551.49 ppb	04:26:42
1	Cr 267.716†	41056.9	40072.0	541.16 ug/L	541.16 ppb	04:26:42
1	Cu 324.752†	171874.9	162089.1	534.35 ug/L	534.35 ppb	04:26:42
1	Mn 257.610†	406927.1	397518.2	537.73 ug/L	537.73 ppb	04:26:37
1	Mo 202.031†	6030.1	5889.3	526.85 ug/L	526.85 ppb	04:27:02
1	Ni 231.604†	17316.5	16863.3	550.29 ug/L	550.29 ppb	04:26:42
1	P 214.914†	3623.3	3365.4	2559.6 ug/L	2559.6 ppb	04:27:02
1	Pb 220.353†	3353.1	3321.9	534.50 ug/L	534.50 ppb	04:27:02
1	S 181.975 Axial†	612.7	572.3	1050.1 ug/L	1050.1 ppb	04:27:02
1	Sb 206.836†	1274.7	1217.8	541.96 ug/L	541.96 ppb	04:27:02
1	Se 196.026†	623.5	628.3	551.13 ug/L	551.13 ppb	04:27:02
1	Si 251.611†	71126.9	69012.1	2645.4 ug/L	2645.4 ppb	04:26:42
1	Sn 189.927†	2263.2	2205.9	518.56 ug/L	518.56 ppb	04:27:02
1	Ti 334.940†	304237.4	298511.6	522.48 ug/L	522.48 ppb	04:26:42
1	Tl 190.801†	1339.0	1332.8	538.31 ug/L	538.31 ppb	04:27:02
1	U 409.014†	16827.2	18504.4	550.94 ug/L	550.94 ppb	04:26:42
1	V 292.402†	67233.3	66980.9	546.08 ug/L	546.08 ppb	04:26:42
1	Zn 213.857†	44643.6	43146.4	535.52 ug/L	535.52 ppb	04:26:42
1	SiO2†	70059.9	67982.6	5546.8 ug/L	5546.8 ppb	04:28:09
2	Sc Radial	3420.2	3420.2	102 %		04:26:04
2	Y RADIAL	2800.8	2800.8	100.4 %		04:26:04
2	Al 396.153Radial†	2378.3	2408.2	5087.0 ug/L	5087.0 ppb	04:25:44
2	Ca 317.933Radial†	1355.3	1321.9	5197.8 ug/L	5197.8 ppb	04:26:04
2	Fe 238.204 Radial†	195.3	184.8	5207.2 ug/L	5207.2 ppb	04:26:04
2	K 766.490 Radial†	13770.6	11386.5	5180.3 ug/L	5180.3 ppb	04:25:44
2	Mg 279.077 IEC†	53.5	51.1	4990.4 ug/L	4990.4 ppb	04:26:04
2	Na 589.592 Radial†	30434.8	30701.4	10170 ug/L	10170 ppb	04:25:44
2	Sr 421.552†	54109.5	53188.6	493.21 ug/L	493.21 ppb	04:25:44
2	Sc 361.383	828031.5	828031.5	101.66 %		04:27:08
2	Y 371.029	701265.5	701265.5	100.10 %		04:27:08
2	Ag 328.068†	104578.6	102657.2	537.50 ug/L	537.50 ppb	04:27:13
2	As 188.979†	937.6	939.7	546.81 ug/L	546.81 ppb	04:27:33
2	B 249.677†	18494.7	18384.7	521.71 ug/L	521.71 ppb	04:27:13
2	Ba 233.527†	57193.3	56255.1	542.43 ug/L	542.43 ppb	04:27:13
2	Be 313.107†	1227440.7	1210826.5	537.76 ug/L	537.76 ppb	04:27:08
2	Cd 226.502†	36761.8	36322.0	546.00 ug/L	546.00 ppb	04:27:13
2	Co 228.616†	20982.5	20681.7	554.75 ug/L	554.75 ppb	04:27:13
2	Cr 267.716†	41006.3	40259.5	543.67 ug/L	543.67 ppb	04:27:13
2	Cu 324.752†	170841.3	162065.7	534.26 ug/L	534.26 ppb	04:27:13
2	Mn 257.610†	405619.3	398583.4	539.18 ug/L	539.18 ppb	04:27:08
2	Mo 202.031†	6057.6	5951.2	532.35 ug/L	532.35 ppb	04:27:33
2	Ni 231.604†	17257.3	16905.2	551.65 ug/L	551.65 ppb	04:27:13

2	P 214.914†	3651.8	3414.4	2598.7 ug/L	2598.7 ppb	04:27:33
2	Pb 220.353†	3380.7	3368.4	542.04 ug/L	542.04 ppb	04:27:33
2	S 181.975 Axial†	614.9	578.0	1060.5 ug/L	1060.5 ppb	04:27:33
2	Sb 206.836†	1280.4	1230.7	547.75 ug/L	547.75 ppb	04:27:33
2	Se 196.026†	637.5	645.7	565.14 ug/L	565.14 ppb	04:27:33
2	Si 251.611†	70924.9	69224.4	2653.5 ug/L	2653.5 ppb	04:27:13
2	Sn 189.927†	2282.5	2238.0	526.04 ug/L	526.04 ppb	04:27:33
2	Ti 334.940†	302733.8	298790.8	522.98 ug/L	522.98 ppb	04:27:13
2	Tl 190.801†	1340.5	1342.0	542.00 ug/L	542.00 ppb	04:27:33
2	U 409.014†	16732.0	18508.0	551.08 ug/L	551.08 ppb	04:27:13
2	V 292.402†	66905.4	67046.9	546.71 ug/L	546.71 ppb	04:27:13
2	Zn 213.857†	44635.6	43396.5	538.69 ug/L	538.69 ppb	04:27:13
2	SiO2†	70258.9	68583.1	5595.8 ug/L	5595.8 ppb	04:28:14
3	Sc Radial	3352.8	3352.8	99.7 %		04:26:29
3	Y RADIAL	2743.6	2743.6	98.38 %		04:26:29
3	Al 396.153Radial†	2428.0	2505.2	5293.1 ug/L	5293.1 ppb	04:26:09
3	Ca 317.933Radial†	1347.9	1341.2	5273.9 ug/L	5273.9 ppb	04:26:29
3	Fe 238.204 Radial†	195.8	189.1	5328.8 ug/L	5328.8 ppb	04:26:29
3	K 766.490 Radial†	13895.8	11784.3	5361.4 ug/L	5361.4 ppb	04:26:09
3	Mg 279.077 IEC†	55.1	53.8	5256.7 ug/L	5256.7 ppb	04:26:29
3	Na 589.592 Radial†	30436.6	31304.9	10369 ug/L	10369 ppb	04:26:09
3	Sr 421.552†	54367.6	54517.2	505.53 ug/L	505.53 ppb	04:26:09
3	Sc 361.383	839554.5	839554.5	103.08 %		04:27:39
3	Y 371.029	710377.8	710377.8	101.40 %		04:27:39
3	Ag 328.068†	103764.7	100455.8	526.05 ug/L	526.05 ppb	04:27:44
3	As 188.979†	939.7	929.0	540.61 ug/L	540.61 ppb	04:28:04
3	B 249.677†	18307.2	17953.0	509.42 ug/L	509.42 ppb	04:27:44
3	Ba 233.527†	56804.3	55105.6	531.35 ug/L	531.35 ppb	04:27:44
3	Be 313.107†	1243259.8	1209602.1	537.19 ug/L	537.19 ppb	04:27:39
3	Cd 226.502†	36546.7	35617.0	535.38 ug/L	535.38 ppb	04:27:44
3	Co 228.616†	20796.6	20218.1	542.32 ug/L	542.32 ppb	04:27:44
3	Cr 267.716†	40671.4	39381.0	531.82 ug/L	531.82 ppb	04:27:44
3	Cu 324.752†	169564.9	158520.9	522.59 ug/L	522.59 ppb	04:27:44
3	Mn 257.610†	410874.9	398205.9	538.67 ug/L	538.67 ppb	04:27:39
3	Mo 202.031†	6082.8	5893.9	527.24 ug/L	527.24 ppb	04:28:04
3	Ni 231.604†	17120.5	16539.5	539.72 ug/L	539.72 ppb	04:27:44
3	P 214.914†	3664.3	3377.3	2571.5 ug/L	2571.5 ppb	04:28:04
3	Pb 220.353†	3411.2	3352.3	539.48 ug/L	539.48 ppb	04:28:04
3	S 181.975 Axial†	604.1	559.2	1026.1 ug/L	1026.1 ppb	04:28:04
3	Sb 206.836†	1288.6	1221.4	543.56 ug/L	543.56 ppb	04:28:04
3	Se 196.026†	630.6	630.4	552.51 ug/L	552.51 ppb	04:28:04
3	Si 251.611†	70589.3	67941.4	2604.2 ug/L	2604.2 ppb	04:27:44
3	Sn 189.927†	2292.3	2216.6	521.03 ug/L	521.03 ppb	04:28:04
3	Ti 334.940†	300608.1	292641.5	512.22 ug/L	512.22 ppb	04:27:44
3	Tl 190.801†	1344.4	1327.7	536.26 ug/L	536.26 ppb	04:28:04
3	U 409.014†	16276.9	17840.6	531.15 ug/L	531.15 ppb	04:27:44
3	V 292.402†	66346.0	65600.9	534.97 ug/L	534.97 ppb	04:27:44
3	Zn 213.857†	44323.7	42491.3	527.42 ug/L	527.42 ppb	04:27:44
3	SiO2†	70550.5	67917.5	5541.5 ug/L	5541.5 ppb	04:28:19

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833503.6	102.34 %	0.710			0.69%
Sc Radial	3334.8	99.1 %	2.84			2.87%
Y 371.029	705604.2	100.72 %	0.653			0.65%
Y RADIAL	2733.2	98.01 %	2.627			2.68%
Ag 328.068†	101894.2	533.56 ug/L	6.506	533.56 ppb	6.506	1.22%
QC value within limits for Ag 328.068 Recovery = 106.71%						
Al 396.153Radial†	2427.6	5128.4 ug/L	148.37	5128.4 ppb	148.37	2.89%
QC value within limits for Al 396.153Radial Recovery = 102.57%						
As 188.979†	929.4	540.90 ug/L	5.768	540.90 ppb	5.768	1.07%
QC value within limits for As 188.979 Recovery = 108.18%						
B 249.677†	18223.4	517.11 ug/L	6.698	517.11 ppb	6.698	1.30%
QC value within limits for B 249.677 Recovery = 103.42%						
Ba 233.527†	55803.2	538.08 ug/L	5.909	538.08 ppb	5.909	1.10%
QC value within limits for Ba 233.527 Recovery = 107.62%						
Be 313.107†	1209806.7	537.30 ug/L	0.417	537.30 ppb	0.417	0.08%
QC value within limits for Be 313.107 Recovery = 107.46%						
Ca 317.933Radial†	1356.9	5335.4 ug/L	176.66	5335.4 ppb	176.66	3.31%

QC value within limits for Ca 317.933 Radial Recovery = 106.71%							
Cd 226.502†	36048.0	541.86 ug/L	5.688	541.86 ppb	5.688	1.05%	
QC value within limits for Cd 226.502 Recovery = 108.37%							
Co 228.616†	20486.9	549.52 ug/L	6.443	549.52 ppb	6.443	1.17%	
QC value within limits for Co 228.616 Recovery = 109.90%							
Cr 267.716†	39904.2	538.88 ug/L	6.243	538.88 ppb	6.243	1.16%	
QC value within limits for Cr 267.716 Recovery = 107.78%							
Cu 324.752†	160891.9	530.40 ug/L	6.764	530.40 ppb	6.764	1.28%	
QC value within limits for Cu 324.752 Recovery = 106.08%							
Fe 238.204 Radial†	189.6	5343.8 ug/L	144.74	5343.8 ppb	144.74	2.71%	
QC value within limits for Fe 238.204 Radial Recovery = 106.88%							
K 766.490 Radial†	11576.1	5266.7 ug/L	90.85	5266.7 ppb	90.85	1.72%	
QC value within limits for K 766.490 Radial Recovery = 105.33%							
Mg 279.077 IEC†	54.6	5335.2 ug/L	390.07	5335.2 ppb	390.07	7.31%	
QC value within limits for Mg 279.077 IEC Recovery = 106.70%							
Mn 257.610†	398102.5	538.53 ug/L	0.732	538.53 ppb	0.732	0.14%	
QC value within limits for Mn 257.610 Recovery = 107.71%							
Mo 202.031†	5911.5	528.81 ug/L	3.072	528.81 ppb	3.072	0.58%	
QC value within limits for Mo 202.031 Recovery = 105.76%							
Na 589.592 Radial†	30663.6	10157 ug/L	218.9	10157 ppb	218.9	2.16%	
QC value within limits for Na 589.592 Radial Recovery = 101.57%							
Ni 231.604†	16769.3	547.22 ug/L	6.532	547.22 ppb	6.532	1.19%	
QC value within limits for Ni 231.604 Recovery = 109.44%							
P 214.914†	3385.7	2576.6 ug/L	20.05	2576.6 ppb	20.05	0.78%	
QC value within limits for P 214.914 Recovery = 103.06%							
Pb 220.353†	3347.5	538.67 ug/L	3.833	538.67 ppb	3.833	0.71%	
QC value within limits for Pb 220.353 Recovery = 107.73%							
S 181.975 Axial†	569.8	1045.5 ug/L	17.66	1045.5 ppb	17.66	1.69%	
QC value within limits for S 181.975 Axial Recovery = 104.55%							
Sb 206.836†	1223.3	544.42 ug/L	2.990	544.42 ppb	2.990	0.55%	
QC value within limits for Sb 206.836 Recovery = 108.88%							
Se 196.026†	634.8	556.26 ug/L	7.720	556.26 ppb	7.720	1.39%	
QC value greater than the upper limit for Se 196.026 Recovery = 111.25%							
Si 251.611†	68725.9	2634.4 ug/L	26.40	2634.4 ppb	26.40	1.00%	
QC value within limits for Si 251.611 Recovery = 105.37%							
Sn 189.927†	2220.2	521.88 ug/L	3.812	521.88 ppb	3.812	0.73%	
QC value within limits for Sn 189.927 Recovery = 104.38%							
Sr 421.552†	53242.6	493.71 ug/L	11.579	493.71 ppb	11.579	2.35%	
QC value within limits for Sr 421.552 Recovery = 98.74%							
Ti 334.940†	296648.0	519.23 ug/L	6.075	519.23 ppb	6.075	1.17%	
QC value within limits for Ti 334.940 Recovery = 103.85%							
Tl 190.801†	1334.2	538.86 ug/L	2.908	538.86 ppb	2.908	0.54%	
QC value within limits for Tl 190.801 Recovery = 107.77%							
U 409.014†	18284.4	544.39 ug/L	11.465	544.39 ppb	11.465	2.11%	
QC value within limits for U 409.014 Recovery = 108.88%							
V 292.402†	66542.9	542.59 ug/L	6.605	542.59 ppb	6.605	1.22%	
QC value within limits for V 292.402 Recovery = 108.52%							
Zn 213.857†	43011.4	533.88 ug/L	5.811	533.88 ppb	5.811	1.09%	
QC value within limits for Zn 213.857 Recovery = 106.78%							
SiO2†	68161.0	5561.4 ug/L	29.94	5561.4 ppb	29.94	0.54%	
QC value within limits for SiO2 Recovery = 104.00%							
QC Failed. Continue with analysis.							

Sequence No.: 85

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 04:30:29

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	3523.5	3523.5	105 %		04:32:42
1	Y RADIAL	2910.8	2910.8	104.4 %		04:32:42
1	Al 396.153Radial†	-70.1	2.5	5.2179 ug/L	5.2179 ppb	04:32:42
1	Ca 317.933Radial†	13.9	2.3	9.0733 ug/L	9.0733 ppb	04:32:42
1	Fe 238.204 Radial†	9.4	1.7	47.417 ug/L	47.417 ppb	04:32:42
1	K 766.490 Radial†	2213.5	-43.0	-19.599 ug/L	-19.599 ppb	04:32:22
1	Mg 279.077 IEC†	1.2	-0.4	-37.794 ug/L	-37.794 ppb	04:32:42
1	Na 589.592 Radial†	-794.1	12.8	4.2396 ug/L	4.2396 ppb	04:32:22
1	Sr 421.552†	4.6	-20.1	-0.1866 ug/L	-0.1866 ppb	04:32:22
1	Sc 361.383	839396.2	839396.2	103.06 %		04:33:39
1	Y 371.029	720187.4	720187.4	102.80 %		04:33:39
1	Ag 328.068†	204.2	-11.8	-0.0452 ug/L	-0.0452 ppb	04:33:39
1	As 188.979†	-15.5	2.4	1.3706 ug/L	1.3706 ppb	04:33:59
1	B 249.677†	-275.9	-75.0	-2.1473 ug/L	-2.1473 ppb	04:33:59
1	Ba 233.527†	-4.7	-6.7	-0.0625 ug/L	-0.0625 ppb	04:33:59
1	Be 313.107†	-3497.8	79.8	0.0354 ug/L	0.0354 ppb	04:33:39
1	Cd 226.502†	-153.6	12.8	0.1874 ug/L	0.1874 ppb	04:33:59
1	Co 228.616†	-42.7	1.2	0.0325 ug/L	0.0325 ppb	04:33:59
1	Cr 267.716†	93.1	14.6	0.1992 ug/L	0.1992 ppb	04:33:59
1	Cu 324.752†	5961.3	-195.3	-0.6415 ug/L	-0.6415 ppb	04:33:39
1	Mn 257.610†	380.8	-28.2	-0.0319 ug/L	-0.0319 ppb	04:33:59
1	Mo 202.031†	9.3	1.8	0.1679 ug/L	0.1679 ppb	04:33:59
1	Ni 231.604†	60.7	-10.8	-0.3518 ug/L	-0.3518 ppb	04:33:59
1	P 214.914†	179.3	-3.6	-2.8031 ug/L	-2.8031 ppb	04:33:59
1	Pb 220.353†	-43.2	1.1	0.1664 ug/L	0.1664 ppb	04:33:59
1	S 181.975 Axial†	30.4	2.7	4.9762 ug/L	4.9762 ppb	04:33:59
1	Sb 206.836†	33.8	4.1	1.7412 ug/L	1.7412 ppb	04:33:59
1	Se 196.026†	-13.4	5.6	4.9158 ug/L	4.9158 ppb	04:33:59
1	Si 251.611†	473.5	-80.3	-3.0878 ug/L	-3.0878 ppb	04:33:59
1	Sn 189.927†	4.1	-3.3	-0.7642 ug/L	-0.7642 ppb	04:33:59
1	Ti 334.940†	-1023.2	18.7	0.0369 ug/L	0.0369 ppb	04:33:39
1	Tl 190.801†	-17.9	6.1	2.4490 ug/L	2.4490 ppb	04:33:59
1	U 409.014†	-2108.3	4.2	0.1185 ug/L	0.1185 ppb	04:33:39
1	V 292.402†	-1225.1	47.7	0.3789 ug/L	0.3789 ppb	04:33:39
1	Zn 213.857†	530.0	5.7	0.0671 ug/L	0.0671 ppb	04:33:59
1	SiO2†	480.2	-59.9	-4.9080 ug/L	-4.9080 ppb	04:35:10
2	Sc Radial	3217.7	3217.7	95.7 %		04:33:07
2	Y RADIAL	2646.5	2646.5	94.90 %		04:33:07
2	Al 396.153Radial†	-67.8	-1.5	-3.2968 ug/L	-3.2968 ppb	04:33:07
2	Ca 317.933Radial†	10.1	-0.4	-1.5191 ug/L	-1.5191 ppb	04:33:07
2	Fe 238.204 Radial†	11.8	5.0	141.74 ug/L	141.74 ppb	04:33:07
2	K 766.490 Radial†	2183.8	126.7	57.713 ug/L	57.713 ppb	04:32:47
2	Mg 279.077 IEC†	2.1	0.6	58.753 ug/L	58.753 ppb	04:33:07
2	Na 589.592 Radial†	-744.4	-7.3	-2.4303 ug/L	-2.4303 ppb	04:32:47
2	Sr 421.552†	2.1	-22.4	-0.2073 ug/L	-0.2073 ppb	04:32:47
2	Sc 361.383	773725.4	773725.4	94.996 %		04:34:04
2	Y 371.029	664290.5	664290.5	94.821 %		04:34:04
2	Ag 328.068†	104.8	-99.6	-0.4660 ug/L	-0.4660 ppb	04:34:04
2	As 188.979†	-22.5	-6.2	-3.5727 ug/L	-3.5727 ppb	04:34:24
2	B 249.677†	-318.5	-142.7	-4.0899 ug/L	-4.0899 ppb	04:34:24
2	Ba 233.527†	13.8	12.3	0.1226 ug/L	0.1226 ppb	04:34:24
2	Be 313.107†	-3454.5	-162.7	-0.0720 ug/L	-0.0720 ppb	04:34:04
2	Cd 226.502†	-147.3	6.8	0.0848 ug/L	0.0848 ppb	04:34:24
2	Co 228.616†	-51.4	-11.5	-0.3096 ug/L	-0.3096 ppb	04:34:24
2	Cr 267.716†	65.9	-6.4	-0.0759 ug/L	-0.0759 ppb	04:34:24
2	Cu 324.752†	5892.7	223.4	0.7496 ug/L	0.7496 ppb	04:34:04
2	Mn 257.610†	395.3	18.4	0.0365 ug/L	0.0365 ppb	04:34:24
2	Mo 202.031†	8.3	1.5	0.1452 ug/L	0.1452 ppb	04:34:24
2	Ni 231.604†	60.1	-6.4	-0.2098 ug/L	-0.2098 ppb	04:34:24

2	P 214.914†	175.7	7.3	5.5350 ug/L	5.5350 ppb	04:34:24
2	Pb 220.353†	-53.6	-13.4	-2.1760 ug/L	-2.1760 ppb	04:34:24
2	S 181.975 Axial†	34.2	9.2	16.844 ug/L	16.844 ppb	04:34:24
2	Sb 206.836†	30.4	3.3	1.4093 ug/L	1.4093 ppb	04:34:24
2	Se 196.026†	-21.2	-3.7	-2.7837 ug/L	-2.7837 ppb	04:34:24
2	Si 251.611†	476.2	-38.5	-1.4819 ug/L	-1.4819 ppb	04:34:24
2	Sn 189.927†	10.0	3.3	0.7645 ug/L	0.7645 ppb	04:34:24
2	Ti 334.940†	-948.9	12.6	0.0216 ug/L	0.0216 ppb	04:34:04
2	Tl 190.801†	-23.2	-1.0	-0.3928 ug/L	-0.3928 ppb	04:34:24
2	U 409.014†	-2275.3	-345.2	-10.328 ug/L	-10.328 ppb	04:34:04
2	V 292.402†	-1177.4	-2.9	-0.0609 ug/L	-0.0609 ppb	04:34:04
2	Zn 213.857†	528.0	47.3	0.5714 ug/L	0.5714 ppb	04:34:24
2	SiO2†	497.5	-2.2	-0.1832 ug/L	-0.1832 ppb	04:35:30
3	Sc Radial	3234.6	3234.6	96.2 %		04:33:32
3	Y RADIAL	2668.5	2668.5	95.69 %		04:33:32
3	Al 396.153Radial†	-74.3	-7.8	-16.688 ug/L	-16.688 ppb	04:33:32
3	Ca 317.933Radial†	7.4	-3.3	-13.077 ug/L	-13.077 ppb	04:33:32
3	Fe 238.204 Radial†	7.6	0.6	16.812 ug/L	16.812 ppb	04:33:32
3	K 766.490 Radial†	2198.1	129.6	59.070 ug/L	59.070 ppb	04:33:12
3	Mg 279.077 IEC†	2.5	1.1	105.01 ug/L	105.01 ppb	04:33:32
3	Na 589.592 Radial†	-803.4	-64.6	-21.394 ug/L	-21.394 ppb	04:33:12
3	Sr 421.552†	9.9	-14.3	-0.1323 ug/L	-0.1323 ppb	04:33:12
3	Sc 361.383	800356.9	800356.9	98.266 %		04:34:29
3	Y 371.029	686124.1	686124.1	97.938 %		04:34:29
3	Ag 328.068†	146.9	-60.4	-0.3092 ug/L	-0.3092 ppb	04:34:29
3	As 188.979†	-18.1	-1.0	-0.5790 ug/L	-0.5790 ppb	04:34:49
3	B 249.677†	-305.4	-118.1	-3.3691 ug/L	-3.3691 ppb	04:34:49
3	Ba 233.527†	-4.5	-6.8	-0.0644 ug/L	-0.0644 ppb	04:34:49
3	Be 313.107†	-3566.2	-155.4	-0.0688 ug/L	-0.0688 ppb	04:34:29
3	Cd 226.502†	-159.0	0.0	-0.0018 ug/L	-0.0018 ppb	04:34:49
3	Co 228.616†	-55.9	-14.3	-0.3826 ug/L	-0.3826 ppb	04:34:49
3	Cr 267.716†	90.0	15.9	0.2151 ug/L	0.2151 ppb	04:34:49
3	Cu 324.752†	5980.6	106.4	0.3512 ug/L	0.3512 ppb	04:34:29
3	Mn 257.610†	364.8	-26.4	-0.0383 ug/L	-0.0383 ppb	04:34:49
3	Mo 202.031†	12.3	5.3	0.4750 ug/L	0.4750 ppb	04:34:49
3	Ni 231.604†	49.4	-19.4	-0.6334 ug/L	-0.6334 ppb	04:34:49
3	P 214.914†	178.1	3.6	2.7618 ug/L	2.7618 ppb	04:34:49
3	Pb 220.353†	-46.9	-4.7	-0.7595 ug/L	-0.7595 ppb	04:34:49
3	S 181.975 Axial†	22.2	-4.2	-7.7675 ug/L	-7.7675 ppb	04:34:49
3	Sb 206.836†	33.6	5.4	2.3367 ug/L	2.3367 ppb	04:34:49
3	Se 196.026†	-8.4	10.1	8.5904 ug/L	8.5904 ppb	04:34:49
3	Si 251.611†	489.9	-41.2	-1.5908 ug/L	-1.5908 ppb	04:34:49
3	Sn 189.927†	3.8	-3.4	-0.7969 ug/L	-0.7969 ppb	04:34:49
3	Ti 334.940†	-989.3	4.7	-0.0025 ug/L	-0.0025 ppb	04:34:29
3	Tl 190.801†	-26.7	-3.8	-1.5067 ug/L	-1.5067 ppb	04:34:49
3	U 409.014†	-1988.6	26.2	0.7817 ug/L	0.7817 ppb	04:34:29
3	V 292.402†	-1207.0	8.2	0.0734 ug/L	0.0734 ppb	04:34:29
3	Zn 213.857†	528.7	29.5	0.3705 ug/L	0.3705 ppb	04:34:49
3	SiO2†	490.6	-26.7	-2.1984 ug/L	-2.1984 ppb	04:35:50

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804492.8	98.774 %	4.0554			4.11%
Sc Radial	3325.3	98.9 %	5.11			5.17%
Y 371.029	690200.7	98.519 %	4.0211			4.08%
Y RADIAL	2742.0	98.32 %	5.258			5.35%
Ag 328.068†	-57.2	-0.2735 ug/L	0.21269	-0.2735 ppb	0.21269	77.77%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.3	-4.9222 ug/L	11.04291	-4.9222 ppb	11.04291	224.35%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.6	-0.9270 ug/L	2.48997	-0.9270 ppb	2.48997	268.59%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-111.9	-3.2021 ug/L	0.98199	-3.2021 ppb	0.98199	30.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.4	-0.0014 ug/L	0.10743	-0.0014 ppb	0.10743	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-79.4	-0.0351 ug/L	0.06115	-0.0351 ppb	0.06115	174.03%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.5	-1.8411 ug/L	11.07887	-1.8411 ppb	11.07887	601.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	6.5	0.0901 ug/L	0.09472	0.0901 ppb	0.09472	105.08%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.2	-0.2199 ug/L	0.22163	-0.2199 ppb	0.22163	100.78%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	8.1	0.1128 ug/L	0.16361	0.1128 ppb	0.16361	145.00%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	44.8	0.1531 ug/L	0.71639	0.1531 ppb	0.71639	467.86%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.4	68.657 ug/L	65.1161	68.657 ppb	65.1161	94.84%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	71.1	32.395 ug/L	45.0330	32.395 ppb	45.0330	139.01%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.4	41.989 ug/L	72.8619	41.989 ppb	72.8619	173.53%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-12.1	-0.0113 ug/L	0.04148	-0.0113 ppb	0.04148	368.27%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.9	0.2627 ug/L	0.18425	0.2627 ppb	0.18425	70.14%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-19.7	-6.5284 ug/L	13.29932	-6.5284 ppb	13.29932	203.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-12.2	-0.3983 ug/L	0.21559	-0.3983 ppb	0.21559	54.12%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	2.4	1.8312 ug/L	4.24625	1.8312 ppb	4.24625	231.88%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.7	-0.9231 ug/L	1.17972	-0.9231 ppb	1.17972	127.80%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	2.6	4.6843 ug/L	12.30847	4.6843 ppb	12.30847	262.76%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.3	1.8291 ug/L	0.46988	1.8291 ppb	0.46988	25.69%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.0	3.5742 ug/L	5.80455	3.5742 ppb	5.80455	162.40%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-53.4	-2.0535 ug/L	0.89738	-2.0535 ppb	0.89738	43.70%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.1	-0.2655 ug/L	0.89221	-0.2655 ppb	0.89221	335.99%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-18.9	-0.1754 ug/L	0.03875	-0.1754 ppb	0.03875	22.10%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	12.0	0.0186 ug/L	0.01986	0.0186 ppb	0.01986	106.52%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.5	0.1832 ug/L	2.03977	0.1832 ppb	2.03977	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-104.9	-3.1426 ug/L	6.23157	-3.1426 ppb	6.23157	198.29%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	17.7	0.1305 ug/L	0.22537	0.1305 ppb	0.22537	172.73%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	27.5	0.3363 ug/L	0.25389	0.3363 ppb	0.25389	75.49%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-29.6	-2.4298 ug/L	2.37092	-2.4298 ppb	2.37092	97.57%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 93

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 05:27:57

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	3272.8	3272.8	97.3 %		05:30:09
1	Y RADIAL	2670.7	2670.7	95.77 %		05:30:09
1	Al 396.153Radial†	2368.8	2503.8	5290.1 ug/L	5290.1 ppb	05:29:49
1	Ca 317.933Radial†	1357.7	1384.3	5443.4 ug/L	5443.4 ppb	05:30:09
1	Fe 238.204 Radial†	195.5	193.7	5457.5 ug/L	5457.5 ppb	05:30:09
1	K 766.490 Radial†	13937.1	12167.4	5536.0 ug/L	5536.0 ppb	05:29:49
1	Mg 279.077 IEC†	55.2	55.2	5398.6 ug/L	5398.6 ppb	05:30:09
1	Na 589.592 Radial†	29175.1	30754.4	10187 ug/L	10187 ppb	05:29:49
1	Sr 421.552†	52797.7	54236.3	502.92 ug/L	502.92 ppb	05:29:49
1	Sc 361.383	830344.8	830344.8	101.95 %		05:31:06
1	Y 371.029	702899.6	702899.6	100.33 %		05:31:06
1	Ag 328.068†	103861.0	101666.7	532.40 ug/L	532.40 ppb	05:31:11
1	As 188.979†	926.4	926.2	539.04 ug/L	539.04 ppb	05:31:31
1	B 249.677†	18780.0	18613.8	528.23 ug/L	528.23 ppb	05:31:11
1	Ba 233.527†	56608.6	55524.9	535.40 ug/L	535.40 ppb	05:31:11
1	Be 313.107†	1232958.6	1212875.3	538.65 ug/L	538.65 ppb	05:31:06
1	Cd 226.502†	36428.9	35894.7	539.55 ug/L	539.55 ppb	05:31:11
1	Co 228.616†	20745.3	20391.6	546.97 ug/L	546.97 ppb	05:31:11
1	Cr 267.716†	40642.0	39789.7	537.34 ug/L	537.34 ppb	05:31:11
1	Cu 324.752†	169800.6	160576.7	529.36 ug/L	529.36 ppb	05:31:11
1	Mn 257.610†	406570.5	398404.9	538.94 ug/L	538.94 ppb	05:31:06
1	Mo 202.031†	6049.4	5926.7	530.18 ug/L	530.18 ppb	05:31:31
1	Ni 231.604†	17093.2	16696.9	544.85 ug/L	544.85 ppb	05:31:11
1	P 214.914†	3652.3	3404.9	2592.0 ug/L	2592.0 ppb	05:31:31
1	Pb 220.353†	3378.0	3356.5	540.13 ug/L	540.13 ppb	05:31:31
1	S 181.975 Axial†	650.6	611.4	1121.7 ug/L	1121.7 ppb	05:31:31
1	Sb 206.836†	1276.5	1223.4	544.54 ug/L	544.54 ppb	05:31:31
1	Se 196.026†	621.3	628.1	550.92 ug/L	550.92 ppb	05:31:31
1	Si 251.611†	70430.4	68545.0	2627.4 ug/L	2627.4 ppb	05:31:11
1	Sn 189.927†	2290.8	2239.8	526.50 ug/L	526.50 ppb	05:31:31
1	Ti 334.940†	300478.1	295748.6	517.66 ug/L	517.66 ppb	05:31:11
1	Tl 190.801†	1348.8	1346.5	543.80 ug/L	543.80 ppb	05:31:31
1	U 409.014†	16587.9	18320.8	545.47 ug/L	545.47 ppb	05:31:11
1	V 292.402†	66398.4	66366.3	541.17 ug/L	541.17 ppb	05:31:11
1	Zn 213.857†	44227.7	42874.1	532.16 ug/L	532.16 ppb	05:31:11
1	SiO2†	70357.9	68487.7	5588.1 ug/L	5588.1 ppb	05:32:39
2	Sc Radial	3277.0	3277.0	97.4 %		05:30:34
2	Y RADIAL	2681.0	2681.0	96.14 %		05:30:34
2	Al 396.153Radial†	2350.2	2481.6	5242.3 ug/L	5242.3 ppb	05:30:14
2	Ca 317.933Radial†	1363.4	1388.4	5459.6 ug/L	5459.6 ppb	05:30:34
2	Fe 238.204 Radial†	195.0	192.9	5434.4 ug/L	5434.4 ppb	05:30:34
2	K 766.490 Radial†	13855.0	12064.6	5489.2 ug/L	5489.2 ppb	05:30:14
2	Mg 279.077 IEC†	56.0	56.0	5470.6 ug/L	5470.6 ppb	05:30:34
2	Na 589.592 Radial†	28996.6	30532.6	10114 ug/L	10114 ppb	05:30:14
2	Sr 421.552†	52408.3	53766.9	498.57 ug/L	498.57 ppb	05:30:14
2	Sc 361.383	816004.7	816004.7	100.19 %		05:31:37
2	Y 371.029	689526.4	689526.4	98.423 %		05:31:37
2	Ag 328.068†	103488.2	103084.9	539.80 ug/L	539.80 ppb	05:31:42
2	As 188.979†	926.3	942.0	548.24 ug/L	548.24 ppb	05:32:02
2	B 249.677†	18680.1	18837.8	534.59 ug/L	534.59 ppb	05:31:42
2	Ba 233.527†	56489.4	56381.7	543.66 ug/L	543.66 ppb	05:31:42
2	Be 313.107†	1208862.0	1210077.2	537.43 ug/L	537.43 ppb	05:31:37
2	Cd 226.502†	36356.5	36450.4	547.91 ug/L	547.91 ppb	05:31:42
2	Co 228.616†	20782.7	20786.5	557.57 ug/L	557.57 ppb	05:31:42
2	Cr 267.716†	40453.9	40302.6	544.27 ug/L	544.27 ppb	05:31:42
2	Cu 324.752†	169420.3	163124.1	537.76 ug/L	537.76 ppb	05:31:42
2	Mn 257.610†	400312.5	399166.9	539.97 ug/L	539.97 ppb	05:31:37
2	Mo 202.031†	6042.4	6023.9	538.87 ug/L	538.87 ppb	05:32:02
2	Ni 231.604†	17083.7	16982.1	554.16 ug/L	554.16 ppb	05:31:42

2	P 214.914†	3623.3	3438.9	2617.3 ug/L	2617.3 ppb	05:32:02
2	Pb 220.353†	3366.5	3403.2	547.64 ug/L	547.64 ppb	05:32:02
2	S 181.975 Axial†	640.5	612.5	1123.8 ug/L	1123.8 ppb	05:32:02
2	Sb 206.836†	1279.0	1247.9	555.41 ug/L	555.41 ppb	05:32:02
2	Se 196.026†	630.0	647.4	567.25 ug/L	567.25 ppb	05:32:02
2	Si 251.611†	70307.6	69636.5	2669.2 ug/L	2669.2 ppb	05:31:42
2	Sn 189.927†	2290.5	2279.0	535.71 ug/L	535.71 ppb	05:32:02
2	Ti 334.940†	300015.6	300466.5	525.91 ug/L	525.91 ppb	05:31:42
2	Tl 190.801†	1328.7	1349.6	545.09 ug/L	545.09 ppb	05:32:02
2	U 409.014†	16411.5	18430.8	548.74 ug/L	548.74 ppb	05:31:42
2	V 292.402†	66044.0	67157.1	547.66 ug/L	547.66 ppb	05:31:42
2	Zn 213.857†	44130.4	43539.4	540.42 ug/L	540.42 ppb	05:31:42
2	SiO2†	70706.1	70048.1	5715.5 ug/L	5715.5 ppb	05:32:44
3	Sc Radial	3258.5	3258.5	96.9 %		05:30:59
3	Y RADIAL	2676.6	2676.6	95.98 %		05:30:59
3	Al 396.153Radial†	2311.1	2455.0	5186.2 ug/L	5186.2 ppb	05:30:39
3	Ca 317.933Radial†	1361.8	1394.7	5484.1 ug/L	5484.1 ppb	05:30:59
3	Fe 238.204 Radial†	193.2	192.2	5415.4 ug/L	5415.4 ppb	05:30:59
3	K 766.490 Radial†	13651.1	11935.2	5430.3 ug/L	5430.3 ppb	05:30:39
3	Mg 279.077 IEC†	54.6	54.8	5354.7 ug/L	5354.7 ppb	05:30:59
3	Na 589.592 Radial†	28339.3	30023.7	9945.1 ug/L	9945.1 ppb	05:30:39
3	Sr 421.552†	51481.2	53116.3	492.54 ug/L	492.54 ppb	05:30:39
3	Sc 361.383	824726.0	824726.0	101.26 %		05:32:08
3	Y 371.029	697053.0	697053.0	99.498 %		05:32:08
3	Ag 328.068†	103876.4	102376.0	536.09 ug/L	536.09 ppb	05:32:13
3	As 188.979†	932.2	938.0	545.88 ug/L	545.88 ppb	05:32:33
3	B 249.677†	18804.7	18763.7	532.50 ug/L	532.50 ppb	05:32:13
3	Ba 233.527†	56474.9	55771.1	537.78 ug/L	537.78 ppb	05:32:13
3	Be 313.107†	1219054.8	1207383.7	536.23 ug/L	536.23 ppb	05:32:08
3	Cd 226.502†	36302.5	36013.3	541.34 ug/L	541.34 ppb	05:32:13
3	Co 228.616†	20774.5	20559.1	551.46 ug/L	551.46 ppb	05:32:13
3	Cr 267.716†	40470.0	39891.5	538.72 ug/L	538.72 ppb	05:32:13
3	Cu 324.752†	170095.0	162002.2	534.06 ug/L	534.06 ppb	05:32:13
3	Mn 257.610†	402785.0	397383.4	537.56 ug/L	537.56 ppb	05:32:08
3	Mo 202.031†	6053.8	5971.4	534.17 ug/L	534.17 ppb	05:32:33
3	Ni 231.604†	17081.0	16799.1	548.19 ug/L	548.19 ppb	05:32:13
3	P 214.914†	3641.8	3418.9	2602.2 ug/L	2602.2 ppb	05:32:33
3	Pb 220.353†	3375.8	3376.8	543.39 ug/L	543.39 ppb	05:32:33
3	S 181.975 Axial†	649.5	614.6	1127.8 ug/L	1127.8 ppb	05:32:33
3	Sb 206.836†	1271.0	1226.5	546.01 ug/L	546.01 ppb	05:32:33
3	Se 196.026†	623.5	634.4	556.11 ug/L	556.11 ppb	05:32:33
3	Si 251.611†	70299.0	68885.9	2640.4 ug/L	2640.4 ppb	05:32:13
3	Sn 189.927†	2284.9	2249.3	528.74 ug/L	528.74 ppb	05:32:33
3	Ti 334.940†	300794.8	298069.3	521.73 ug/L	521.73 ppb	05:32:13
3	Tl 190.801†	1337.0	1343.8	542.73 ug/L	542.73 ppb	05:32:33
3	U 409.014†	16536.3	18380.8	547.26 ug/L	547.26 ppb	05:32:13
3	V 292.402†	66341.2	66753.5	544.35 ug/L	544.35 ppb	05:32:13
3	Zn 213.857†	44064.2	43008.2	533.82 ug/L	533.82 ppb	05:32:13
3	SiO2†	70523.9	69121.8	5639.8 ug/L	5639.8 ppb	05:32:49

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823691.8	101.13 %	0.887			0.88%
Sc Radial	3269.4	97.2 %	0.29			0.30%
Y 371.029	696493.0	99.418 %	0.9570			0.96%
Y RADIAL	2676.1	95.96 %	0.185			0.19%
Ag 328.068†	102375.9	536.10 ug/L	3.698	536.10 ppb	3.698	0.69%
QC value within limits for Ag 328.068 Recovery = 107.22%						
Al 396.153Radial†	2480.1	5239.5 ug/L	52.01	5239.5 ppb	52.01	0.99%
QC value within limits for Al 396.153Radial Recovery = 104.79%						
As 188.979†	935.4	544.39 ug/L	4.781	544.39 ppb	4.781	0.88%
QC value within limits for As 188.979 Recovery = 108.88%						
B 249.677†	18738.5	531.77 ug/L	3.241	531.77 ppb	3.241	0.61%
QC value within limits for B 249.677 Recovery = 106.35%						
Ba 233.527†	55892.6	538.95 ug/L	4.250	538.95 ppb	4.250	0.79%
QC value within limits for Ba 233.527 Recovery = 107.79%						
Be 313.107†	1210112.1	537.44 ug/L	1.212	537.44 ppb	1.212	0.23%
QC value within limits for Be 313.107 Recovery = 107.49%						
Ca 317.933Radial†	1389.1	5462.4 ug/L	20.53	5462.4 ppb	20.53	0.38%



QC value within limits for Ca 317.933Radial Recovery = 109.25%							
Cd 226.502†	36119.5	542.93 ug/L	4.404	542.93 ppb	4.404	0.81%	
QC value within limits for Cd 226.502 Recovery = 108.59%							
Co 228.616†	20579.0	552.00 ug/L	5.318	552.00 ppb	5.318	0.96%	
QC value greater than the upper limit for Co 228.616 Recovery = 110.40%							
Cr 267.716†	39994.6	540.11 ug/L	3.665	540.11 ppb	3.665	0.68%	
QC value within limits for Cr 267.716 Recovery = 108.02%							
Cu 324.752†	161901.0	533.73 ug/L	4.207	533.73 ppb	4.207	0.79%	
QC value within limits for Cu 324.752 Recovery = 106.75%							
Fe 238.204 Radial†	192.9	5435.8 ug/L	21.10	5435.8 ppb	21.10	0.39%	
QC value within limits for Fe 238.204 Radial Recovery = 108.72%							
K 766.490 Radial†	12055.7	5485.1 ug/L	52.96	5485.1 ppb	52.96	0.97%	
QC value within limits for K 766.490 Radial Recovery = 109.70%							
Mg 279.077 IEC†	55.3	5408.0 ug/L	58.51	5408.0 ppb	58.51	1.08%	
QC value within limits for Mg 279.077 IEC Recovery = 108.16%							
Mn 257.610†	398318.4	538.82 ug/L	1.209	538.82 ppb	1.209	0.22%	
QC value within limits for Mn 257.610 Recovery = 107.76%							
Mo 202.031†	5974.0	534.41 ug/L	4.351	534.41 ppb	4.351	0.81%	
QC value within limits for Mo 202.031 Recovery = 106.88%							
Na 589.592 Radial†	30436.9	10082 ug/L	124.1	10082 ppb	124.1	1.23%	
QC value within limits for Na 589.592 Radial Recovery = 100.82%							
Ni 231.604†	16826.0	549.07 ug/L	4.716	549.07 ppb	4.716	0.86%	
QC value within limits for Ni 231.604 Recovery = 109.81%							
P 214.914†	3420.9	2603.8 ug/L	12.76	2603.8 ppb	12.76	0.49%	
QC value within limits for P 214.914 Recovery = 104.15%							
Pb 220.353†	3378.8	543.72 ug/L	3.769	543.72 ppb	3.769	0.69%	
QC value within limits for Pb 220.353 Recovery = 108.74%							
S 181.975 Axial†	612.8	1124.5 ug/L	3.06	1124.5 ppb	3.06	0.27%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 112.45%							
Sb 206.836†	1232.6	548.65 ug/L	5.899	548.65 ppb	5.899	1.08%	
QC value within limits for Sb 206.836 Recovery = 109.73%							
Se 196.026†	636.6	558.09 ug/L	8.344	558.09 ppb	8.344	1.50%	
QC value greater than the upper limit for Se 196.026 Recovery = 111.62%							
Si 251.611†	69022.4	2645.7 ug/L	21.41	2645.7 ppb	21.41	0.81%	
QC value within limits for Si 251.611 Recovery = 105.83%							
Sn 189.927†	2256.0	530.32 ug/L	4.803	530.32 ppb	4.803	0.91%	
QC value within limits for Sn 189.927 Recovery = 106.06%							
Sr 421.552†	53706.5	498.01 ug/L	5.216	498.01 ppb	5.216	1.05%	
QC value within limits for Sr 421.552 Recovery = 99.60%							
Ti 334.940†	298094.8	521.77 ug/L	4.126	521.77 ppb	4.126	0.79%	
QC value within limits for Ti 334.940 Recovery = 104.35%							
Tl 190.801†	1346.6	543.87 ug/L	1.182	543.87 ppb	1.182	0.22%	
QC value within limits for Tl 190.801 Recovery = 108.77%							
U 409.014†	18377.5	547.16 ug/L	1.638	547.16 ppb	1.638	0.30%	
QC value within limits for U 409.014 Recovery = 109.43%							
V 292.402†	66758.9	544.39 ug/L	3.244	544.39 ppb	3.244	0.60%	
QC value within limits for V 292.402 Recovery = 108.88%							
Zn 213.857†	43140.6	535.47 ug/L	4.374	535.47 ppb	4.374	0.82%	
QC value within limits for Zn 213.857 Recovery = 107.09%							
SiO2†	69219.2	5647.8 ug/L	64.08	5647.8 ppb	64.08	1.13%	
QC value within limits for SiO2 Recovery = 105.62%							
QC Failed. Continue with analysis.							

Sequence No.: 94

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 05:34:59

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	3318.7	3318.7	98.7 %		05:37:12
1	Y RADIAL	2723.5	2723.5	97.66 %		05:37:12
1	Al 396.153Radial†	-67.5	0.9	1.9345 ug/L	1.9345 ppb	05:37:12
1	Ca 317.933Radial†	11.7	0.8	3.2866 ug/L	3.2866 ppb	05:37:12
1	Fe 238.204 Radial†	8.0	0.8	22.313 ug/L	22.313 ppb	05:37:12
1	K 766.490 Radial†	2255.1	129.5	59.004 ug/L	59.004 ppb	05:36:52
1	Mg 279.077 IEC†	1.1	-0.4	-40.896 ug/L	-40.896 ppb	05:37:12
1	Na 589.592 Radial†	-760.2	0.4	0.1264 ug/L	0.1264 ppb	05:36:52
1	Sr 421.552†	30.0	5.9	0.0547 ug/L	0.0547 ppb	05:36:52
1	Sc 361.383	815844.7	815844.7	100.17 %		05:38:09
1	Y 371.029	700291.6	700291.6	99.960 %		05:38:09
1	Ag 328.068†	217.8	7.6	0.0472 ug/L	0.0472 ppb	05:38:09
1	As 188.979†	-19.4	-2.0	-1.1279 ug/L	-1.1279 ppb	05:38:29
1	B 249.677†	50.6	243.1	6.9279 ug/L	6.9279 ppb	05:38:29
1	Ba 233.527†	-6.6	-8.8	-0.0835 ug/L	-0.0835 ppb	05:38:29
1	Be 313.107†	-3452.2	27.3	0.0121 ug/L	0.0121 ppb	05:38:09
1	Cd 226.502†	-153.2	8.9	0.1313 ug/L	0.1313 ppb	05:38:29
1	Co 228.616†	-42.4	0.3	0.0101 ug/L	0.0101 ppb	05:38:29
1	Cr 267.716†	71.9	-3.9	-0.0517 ug/L	-0.0517 ppb	05:38:29
1	Cu 324.752†	5839.3	-150.1	-0.4940 ug/L	-0.4940 ppb	05:38:09
1	Mn 257.610†	404.2	5.9	0.0118 ug/L	0.0118 ppb	05:38:29
1	Mo 202.031†	18.3	11.0	0.9892 ug/L	0.9892 ppb	05:38:29
1	Ni 231.604†	61.1	-8.7	-0.2835 ug/L	-0.2835 ppb	05:38:29
1	P 214.914†	171.5	-6.5	-5.0445 ug/L	-5.0445 ppb	05:38:29
1	Pb 220.353†	-52.8	-9.7	-1.5561 ug/L	-1.5561 ppb	05:38:29
1	S 181.975 Axial†	55.2	28.3	51.998 ug/L	51.998 ppb	05:38:29
1	Sb 206.836†	29.3	0.6	0.2302 ug/L	0.2302 ppb	05:38:29
1	Se 196.026†	-15.3	3.3	2.9034 ug/L	2.9034 ppb	05:38:29
1	Si 251.611†	527.6	-13.1	-0.5137 ug/L	-0.5137 ppb	05:38:29
1	Sn 189.927†	-0.5	-7.7	-1.8003 ug/L	-1.8003 ppb	05:38:29
1	Ti 334.940†	-1010.5	2.6	0.0082 ug/L	0.0082 ppb	05:38:09
1	Tl 190.801†	-24.3	-0.8	-0.3128 ug/L	-0.3128 ppb	05:38:29
1	U 409.014†	-2039.5	13.8	0.4110 ug/L	0.4110 ppb	05:38:09
1	V 292.402†	-1199.2	39.3	0.3270 ug/L	0.3270 ppb	05:38:09
1	Zn 213.857†	552.8	43.3	0.5418 ug/L	0.5418 ppb	05:38:29
1	SiO2†	516.8	-10.0	-0.8409 ug/L	-0.8409 ppb	05:39:40
2	Sc Radial	3308.6	3308.6	98.4 %		05:37:37
2	Y RADIAL	2705.0	2705.0	97.00 %		05:37:37
2	Al 396.153Radial†	-67.9	0.4	0.7588 ug/L	0.7588 ppb	05:37:37
2	Ca 317.933Radial†	14.6	3.9	15.289 ug/L	15.289 ppb	05:37:37
2	Fe 238.204 Radial†	8.4	1.3	36.191 ug/L	36.191 ppb	05:37:37
2	K 766.490 Radial†	2172.9	52.9	24.083 ug/L	24.083 ppb	05:37:17
2	Mg 279.077 IEC†	-1.8	-3.4	-332.02 ug/L	-332.02 ppb	05:37:37
2	Na 589.592 Radial†	-707.6	51.4	17.029 ug/L	17.029 ppb	05:37:17
2	Sr 421.552†	27.2	3.1	0.0287 ug/L	0.0287 ppb	05:37:17
2	Sc 361.383	809694.0	809694.0	99.412 %		05:38:34
2	Y 371.029	694214.2	694214.2	99.092 %		05:38:34
2	Ag 328.068†	89.2	-120.2	-0.6097 ug/L	-0.6097 ppb	05:38:34
2	As 188.979†	-23.0	-5.7	-3.2655 ug/L	-3.2655 ppb	05:38:54
2	B 249.677†	13.8	206.5	5.8806 ug/L	5.8806 ppb	05:38:54
2	Ba 233.527†	-3.1	-5.4	-0.0500 ug/L	-0.0500 ppb	05:38:54
2	Be 313.107†	-3525.5	-72.5	-0.0322 ug/L	-0.0322 ppb	05:38:34
2	Cd 226.502†	-135.7	25.3	0.3757 ug/L	0.3757 ppb	05:38:54
2	Co 228.616†	-41.7	0.7	0.0186 ug/L	0.0186 ppb	05:38:54
2	Cr 267.716†	83.3	8.0	0.1119 ug/L	0.1119 ppb	05:38:54
2	Cu 324.752†	5872.3	-72.7	-0.2350 ug/L	-0.2350 ppb	05:38:34
2	Mn 257.610†	424.8	29.6	0.0572 ug/L	0.0572 ppb	05:38:54
2	Mo 202.031†	11.6	4.5	0.4051 ug/L	0.4051 ppb	05:38:54
2	Ni 231.604†	48.1	-21.3	-0.6953 ug/L	-0.6953 ppb	05:38:54

2	P 214.914†	175.2	-1.4	-1.1149 ug/L	-1.1149 ppb	05:38:54
2	Pb 220.353†	-33.9	8.9	1.4306 ug/L	1.4306 ppb	05:38:54
2	S 181.975 Axial†	56.8	30.3	55.686 ug/L	55.686 ppb	05:38:54
2	Sb 206.836†	25.5	-3.1	-1.3352 ug/L	-1.3352 ppb	05:38:54
2	Se 196.026†	-17.2	1.4	1.2466 ug/L	1.2466 ppb	05:38:54
2	Si 251.611†	516.0	-20.7	-0.7992 ug/L	-0.7992 ppb	05:38:54
2	Sn 189.927†	5.1	-2.1	-0.4907 ug/L	-0.4907 ppb	05:38:54
2	Ti 334.940†	-1021.4	-16.0	0.0033 ug/L	0.0033 ppb	05:38:34
2	Tl 190.801†	-33.4	-10.2	-4.0906 ug/L	-4.0906 ppb	05:38:54
2	U 409.014†	-2203.0	-166.1	-4.9669 ug/L	-4.9669 ppb	05:38:34
2	V 292.402†	-1205.9	23.4	0.1732 ug/L	0.1732 ppb	05:38:34
2	Zn 213.857†	534.2	28.8	0.3601 ug/L	0.3601 ppb	05:38:54
2	SiO2†	523.4	0.6	0.0383 ug/L	0.0383 ppb	05:40:00
3	Sc Radial	3315.9	3315.9	98.6 %		05:38:02
3	Y RADIAL	2705.8	2705.8	97.03 %		05:38:02
3	Al 396.153Radial†	-67.9	0.5	1.0687 ug/L	1.0687 ppb	05:38:02
3	Ca 317.933Radial†	16.4	5.6	22.126 ug/L	22.126 ppb	05:38:02
3	Fe 238.204 Radial†	9.7	2.6	72.953 ug/L	72.953 ppb	05:38:02
3	K 766.490 Radial†	2115.4	-10.2	-4.6661 ug/L	-4.6661 ppb	05:37:42
3	Mg 279.077 IEC†	1.4	-0.1	-12.129 ug/L	-12.129 ppb	05:38:02
3	Na 589.592 Radial†	-753.5	6.5	2.1408 ug/L	2.1408 ppb	05:37:42
3	Sr 421.552†	42.5	18.5	0.1718 ug/L	0.1718 ppb	05:37:42
3	Sc 361.383	822507.2	822507.2	100.99 %		05:38:59
3	Y 371.029	704445.1	704445.1	100.55 %		05:38:59
3	Ag 328.068†	207.6	-4.3	0.0008 ug/L	0.0008 ppb	05:38:59
3	As 188.979†	-17.0	0.6	0.3494 ug/L	0.3494 ppb	05:39:19
3	B 249.677†	28.6	221.0	6.2897 ug/L	6.2897 ppb	05:39:19
3	Ba 233.527†	-12.7	-14.7	-0.1380 ug/L	-0.1380 ppb	05:39:19
3	Be 313.107†	-3546.3	-37.9	-0.0166 ug/L	-0.0166 ppb	05:38:59
3	Cd 226.502†	-156.1	7.3	0.1022 ug/L	0.1022 ppb	05:39:19
3	Co 228.616†	-55.3	-12.1	-0.3249 ug/L	-0.3249 ppb	05:39:19
3	Cr 267.716†	73.8	-2.6	-0.0321 ug/L	-0.0321 ppb	05:39:19
3	Cu 324.752†	5974.9	-63.1	-0.2055 ug/L	-0.2055 ppb	05:38:59
3	Mn 257.610†	422.7	20.9	0.0359 ug/L	0.0359 ppb	05:39:19
3	Mo 202.031†	15.3	8.0	0.7209 ug/L	0.7209 ppb	05:39:19
3	Ni 231.604†	58.5	-11.7	-0.3828 ug/L	-0.3828 ppb	05:39:19
3	P 214.914†	176.1	-3.3	-2.6044 ug/L	-2.6044 ppb	05:39:19
3	Pb 220.353†	-45.3	-1.9	-0.3127 ug/L	-0.3127 ppb	05:39:19
3	S 181.975 Axial†	55.1	27.7	50.900 ug/L	50.900 ppb	05:39:19
3	Sb 206.836†	21.1	-7.9	-3.3456 ug/L	-3.3456 ppb	05:39:19
3	Se 196.026†	-18.6	0.2	0.3943 ug/L	0.3943 ppb	05:39:19
3	Si 251.611†	502.4	-42.2	-1.6315 ug/L	-1.6315 ppb	05:39:19
3	Sn 189.927†	12.1	4.8	1.1207 ug/L	1.1207 ppb	05:39:19
3	Ti 334.940†	-959.4	61.4	0.1103 ug/L	0.1103 ppb	05:38:59
3	Tl 190.801†	-28.1	-4.3	-1.7404 ug/L	-1.7404 ppb	05:39:19
3	U 409.014†	-1978.3	90.9	2.7070 ug/L	2.7070 ppb	05:38:59
3	V 292.402†	-1153.4	94.3	0.7635 ug/L	0.7635 ppb	05:38:59
3	Zn 213.857†	529.5	15.8	0.1895 ug/L	0.1895 ppb	05:39:19
3	SiO2†	521.8	-9.2	-0.7730 ug/L	-0.7730 ppb	05:40:20

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816015.3	100.19 %	0.787			0.79%
Sc Radial	3314.4	98.5 %	0.16			0.16%
Y 371.029	699650.3	99.868 %	0.7345			0.74%
Y RADIAL	2711.4	97.23 %	0.376			0.39%
Ag 328.068†	-39.0	-0.1872 ug/L	0.36660	-0.1872 ppb	0.36660	195.82%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.6	1.2540 ug/L	0.60937	1.2540 ppb	0.60937	48.59%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.4	-1.3480 ug/L	1.81746	-1.3480 ppb	1.81746	134.83%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	223.5	6.3661 ug/L	0.52779	6.3661 ppb	0.52779	8.29%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-9.6	-0.0905 ug/L	0.04441	-0.0905 ppb	0.04441	49.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-27.7	-0.0122 ug/L	0.02248	-0.0122 ppb	0.02248	184.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.5	13.567 ug/L	9.5370	13.567 ppb	9.5370	70.29%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	13.8	0.2031 ug/L	0.15022	0.2031 ppb	0.15022	73.98%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-3.7	-0.0987 ug/L	0.19592	-0.0987 ppb	0.19592	198.45%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	0.5	0.0094 ug/L	0.08935	0.0094 ppb	0.08935	952.33%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-95.3	-0.3115 ug/L	0.15873	-0.3115 ppb	0.15873	50.96%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.6	43.819 ug/L	26.1679	43.819 ppb	26.1679	59.72%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	57.4	26.140 ug/L	31.8848	26.140 ppb	31.8848	121.98%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.3	-128.35 ug/L	176.971	-128.35 ppb	176.971	137.88%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	18.8	0.0350 ug/L	0.02272	0.0350 ppb	0.02272	64.98%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.8	0.7050 ug/L	0.29237	0.7050 ppb	0.29237	41.47%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	19.4	6.4321 ug/L	9.23235	6.4321 ppb	9.23235	143.54%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-13.9	-0.4539 ug/L	0.21490	-0.4539 ppb	0.21490	47.35%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-3.7	-2.9213 ug/L	1.98386	-2.9213 ppb	1.98386	67.91%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.9	-0.1461 ug/L	1.50031	-0.1461 ppb	1.50031	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	28.8	52.862 ug/L	2.5071	52.862 ppb	2.5071	4.74%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.5	-1.4835 ug/L	1.79254	-1.4835 ppb	1.79254	120.83%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.6	1.5148 ug/L	1.27586	1.5148 ppb	1.27586	84.23%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-25.3	-0.9815 ug/L	0.58075	-0.9815 ppb	0.58075	59.17%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.7	-0.3901 ug/L	1.46312	-0.3901 ppb	1.46312	375.07%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	9.2	0.0850 ug/L	0.07625	0.0850 ppb	0.07625	89.66%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	16.0	0.0406 ug/L	0.06040	0.0406 ppb	0.06040	148.66%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-5.1	-2.0479 ug/L	1.90756	-2.0479 ppb	1.90756	93.15%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-20.5	-0.6163 ug/L	3.93875	-0.6163 ppb	3.93875	639.11%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	52.4	0.4212 ug/L	0.30624	0.4212 ppb	0.30624	72.70%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	29.3	0.3638 ug/L	0.17618	0.3638 ppb	0.17618	48.43%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-6.2	-0.5252 ug/L	0.48919	-0.5252 ppb	0.48919	93.14%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 99

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 06:10:01

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	3341.9	3341.9	99.4 %		06:12:13
1	Y RADIAL	2723.4	2723.4	97.66 %		06:12:13
1	Al 396.153Radial†	2328.5	2412.9	5096.9 ug/L	5096.9 ppb	06:11:53
1	Ca 317.933Radial†	1384.3	1382.3	5435.4 ug/L	5435.4 ppb	06:12:13
1	Fe 238.204 Radial†	198.6	192.6	5426.5 ug/L	5426.5 ppb	06:12:13
1	K 766.490 Radial†	13866.7	11800.3	5368.8 ug/L	5368.8 ppb	06:11:53
1	Mg 279.077 IEC†	56.5	55.3	5408.5 ug/L	5408.5 ppb	06:12:13
1	Na 589.592 Radial†	29518.9	30480.5	10096 ug/L	10096 ppb	06:11:53
1	Sr 421.552†	52822.7	53139.6	492.75 ug/L	492.75 ppb	06:11:53
1	Sc 361.383	840819.0	840819.0	103.23 %		06:13:10
1	Y 371.029	710961.9	710961.9	101.48 %		06:13:10
1	Ag 328.068†	104299.8	100822.7	527.99 ug/L	527.99 ppb	06:13:15
1	As 188.979†	957.3	944.7	549.70 ug/L	549.70 ppb	06:13:35
1	B 249.677†	18451.7	18066.3	512.63 ug/L	512.63 ppb	06:13:15
1	Ba 233.527†	57096.7	55306.0	533.29 ug/L	533.29 ppb	06:13:15
1	Be 313.107†	1251864.7	1216123.5	540.08 ug/L	540.08 ppb	06:13:10
1	Cd 226.502†	36848.7	35856.2	538.97 ug/L	538.97 ppb	06:13:15
1	Co 228.616†	20889.9	20278.2	543.94 ug/L	543.94 ppb	06:13:15
1	Cr 267.716†	40964.8	39605.8	534.86 ug/L	534.86 ppb	06:13:15
1	Cu 324.752†	170132.3	158823.2	523.58 ug/L	523.58 ppb	06:13:15
1	Mn 257.610†	413246.8	399904.1	540.97 ug/L	540.97 ppb	06:13:10
1	Mo 202.031†	6160.0	5959.9	533.15 ug/L	533.15 ppb	06:13:35
1	Ni 231.604†	17225.0	16615.8	542.21 ug/L	542.21 ppb	06:13:15
1	P 214.914†	3728.0	3433.6	2615.8 ug/L	2615.8 ppb	06:13:35
1	Pb 220.353†	3451.8	3386.7	544.95 ug/L	544.95 ppb	06:13:35
1	S 181.975 Axial†	625.3	578.8	1062.1 ug/L	1062.1 ppb	06:13:35
1	Sb 206.836†	1298.9	1229.5	547.29 ug/L	547.29 ppb	06:13:35
1	Se 196.026†	653.6	651.7	570.86 ug/L	570.86 ppb	06:13:35
1	Si 251.611†	70800.0	68042.4	2608.0 ug/L	2608.0 ppb	06:13:15
1	Sn 189.927†	2333.7	2253.4	529.68 ug/L	529.68 ppb	06:13:35
1	Ti 334.940†	302287.8	293830.0	514.30 ug/L	514.30 ppb	06:13:15
1	Tl 190.801†	1366.3	1347.0	544.00 ug/L	544.00 ppb	06:13:35
1	U 409.014†	16673.4	18201.0	541.90 ug/L	541.90 ppb	06:13:15
1	V 292.402†	66828.8	65971.9	538.04 ug/L	538.04 ppb	06:13:15
1	Zn 213.857†	44602.9	42697.2	529.97 ug/L	529.97 ppb	06:13:15
1	SiO2†	72138.3	69352.6	5658.7 ug/L	5658.7 ppb	06:14:43
2	Sc Radial	3316.3	3316.3	98.6 %		06:12:38
2	Y RADIAL	2711.6	2711.6	97.24 %		06:12:38
2	Al 396.153Radial†	2370.6	2473.7	5225.8 ug/L	5225.8 ppb	06:12:18
2	Ca 317.933Radial†	1383.3	1392.0	5473.8 ug/L	5473.8 ppb	06:12:38
2	Fe 238.204 Radial†	198.6	194.2	5471.3 ug/L	5471.3 ppb	06:12:38
2	K 766.490 Radial†	13895.8	11937.7	5431.4 ug/L	5431.4 ppb	06:12:18
2	Mg 279.077 IEC†	58.5	57.8	5647.7 ug/L	5647.7 ppb	06:12:38
2	Na 589.592 Radial†	29240.2	30427.4	10079 ug/L	10079 ppb	06:12:18
2	Sr 421.552†	52676.6	53402.1	495.19 ug/L	495.19 ppb	06:12:18
2	Sc 361.383	829609.2	829609.2	101.86 %		06:13:41
2	Y 371.029	701974.6	701974.6	100.20 %		06:13:41
2	Ag 328.068†	106162.5	104016.5	544.68 ug/L	544.68 ppb	06:13:46
2	As 188.979†	952.6	952.6	554.40 ug/L	554.40 ppb	06:14:06
2	B 249.677†	18949.7	18796.8	533.40 ug/L	533.40 ppb	06:13:46
2	Ba 233.527†	57947.5	56888.5	548.55 ug/L	548.55 ppb	06:13:46
2	Be 313.107†	1238403.3	1219293.1	541.53 ug/L	541.53 ppb	06:13:41
2	Cd 226.502†	37276.1	36758.1	552.54 ug/L	552.54 ppb	06:13:46
2	Co 228.616†	21247.3	20902.5	560.66 ug/L	560.66 ppb	06:13:46
2	Cr 267.716†	41617.7	40783.1	550.75 ug/L	550.75 ppb	06:13:46
2	Cu 324.752†	173891.9	164741.1	543.09 ug/L	543.09 ppb	06:13:46
2	Mn 257.610†	408128.6	400288.2	541.48 ug/L	541.48 ppb	06:13:41
2	Mo 202.031†	6118.0	5999.2	536.67 ug/L	536.67 ppb	06:14:06
2	Ni 231.604†	17559.5	17169.6	560.28 ug/L	560.28 ppb	06:13:46

2	P 214.914†	3688.2	3443.3	2619.7 ug/L	2619.7 ppb	06:14:06
2	Pb 220.353†	3416.9	3397.6	546.73 ug/L	546.73 ppb	06:14:06
2	S 181.975 Axial†	632.5	594.1	1090.1 ug/L	1090.1 ppb	06:14:06
2	Sb 206.836†	1296.0	1243.6	553.47 ug/L	553.47 ppb	06:14:06
2	Se 196.026†	637.3	644.3	564.71 ug/L	564.71 ppb	06:14:06
2	Si 251.611†	72155.1	70299.5	2694.7 ug/L	2694.7 ppb	06:13:46
2	Sn 189.927†	2316.0	2266.6	532.79 ug/L	532.79 ppb	06:14:06
2	Ti 334.940†	307839.4	303237.0	530.74 ug/L	530.74 ppb	06:13:46
2	Tl 190.801†	1360.9	1359.5	549.08 ug/L	549.08 ppb	06:14:06
2	U 409.014†	17070.0	18808.6	560.01 ug/L	560.01 ppb	06:13:46
2	V 292.402†	68013.2	68009.4	554.50 ug/L	554.50 ppb	06:13:46
2	Zn 213.857†	45277.3	43943.0	545.43 ug/L	545.43 ppb	06:13:46
2	SiO2†	72882.7	71027.7	5795.7 ug/L	5795.7 ppb	06:14:48
3	Sc Radial	3314.6	3314.6	98.5 %		06:13:03
3	Y RADIAL	2693.8	2693.8	96.60 %		06:13:03
3	Al 396.153Radial†	2374.5	2478.9	5237.1 ug/L	5237.1 ppb	06:12:43
3	Ca 317.933Radial†	1388.0	1397.5	5495.3 ug/L	5495.3 ppb	06:13:03
3	Fe 238.204 Radial†	199.9	195.5	5509.2 ug/L	5509.2 ppb	06:13:03
3	K 766.490 Radial†	13822.3	11870.2	5400.6 ug/L	5400.6 ppb	06:12:43
3	Mg 279.077 IEC†	57.4	56.7	5543.7 ug/L	5543.7 ppb	06:13:03
3	Na 589.592 Radial†	29181.0	30382.4	10064 ug/L	10064 ppb	06:12:43
3	Sr 421.552†	52815.9	53570.8	496.75 ug/L	496.75 ppb	06:12:43
3	Sc 361.383	852668.5	852668.5	104.69 %		06:14:12
3	Y 371.029	721964.4	721964.4	103.05 %		06:14:12
3	Ag 328.068†	106972.1	101971.2	534.01 ug/L	534.01 ppb	06:14:17
3	As 188.979†	964.2	938.5	546.15 ug/L	546.15 ppb	06:14:37
3	B 249.677†	19112.2	18448.9	523.52 ug/L	523.52 ppb	06:14:17
3	Ba 233.527†	58340.6	55725.5	537.34 ug/L	537.34 ppb	06:14:17
3	Be 313.107†	1269938.2	1216535.4	540.28 ug/L	540.28 ppb	06:14:12
3	Cd 226.502†	37625.2	36101.9	542.66 ug/L	542.66 ppb	06:14:17
3	Co 228.616†	21329.5	20416.8	547.64 ug/L	547.64 ppb	06:14:17
3	Cr 267.716†	41885.5	39933.8	539.29 ug/L	539.29 ppb	06:14:17
3	Cu 324.752†	175104.9	161282.8	531.69 ug/L	531.69 ppb	06:14:17
3	Mn 257.610†	417807.4	398697.4	539.34 ug/L	539.34 ppb	06:14:12
3	Mo 202.031†	6208.3	5923.1	529.86 ug/L	529.86 ppb	06:14:37
3	Ni 231.604†	17579.1	16722.1	545.68 ug/L	545.68 ppb	06:14:17
3	P 214.914†	3739.5	3394.4	2583.1 ug/L	2583.1 ppb	06:14:37
3	Pb 220.353†	3477.6	3364.8	541.45 ug/L	541.45 ppb	06:14:37
3	S 181.975 Axial†	642.5	586.9	1076.8 ug/L	1076.8 ppb	06:14:37
3	Sb 206.836†	1320.6	1232.7	548.55 ug/L	548.55 ppb	06:14:37
3	Se 196.026†	654.9	644.1	564.66 ug/L	564.66 ppb	06:14:37
3	Si 251.611†	72615.9	68823.9	2638.1 ug/L	2638.1 ppb	06:14:17
3	Sn 189.927†	2345.4	2233.1	524.94 ug/L	524.94 ppb	06:14:37
3	Ti 334.940†	309670.2	296812.5	519.52 ug/L	519.52 ppb	06:14:17
3	Tl 190.801†	1388.1	1349.4	544.98 ug/L	544.98 ppb	06:14:37
3	U 409.014†	17175.4	18456.1	549.50 ug/L	549.50 ppb	06:14:17
3	V 292.402†	68540.1	66706.9	543.91 ug/L	543.91 ppb	06:14:17
3	Zn 213.857†	45577.9	43028.1	534.07 ug/L	534.07 ppb	06:14:17
3	SiO2†	72396.5	68628.2	5599.6 ug/L	5599.6 ppb	06:14:53

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841032.2	103.26 %	1.416			1.37%
Sc Radial	3324.3	98.8 %	0.46			0.46%
Y 371.029	711633.6	101.58 %	1.429			1.41%
Y RADIAL	2709.6	97.16 %	0.535			0.55%
Ag 328.068†	102270.2	535.56 ug/L	8.450	535.56 ppb	8.450	1.58%
QC value within limits for Ag 328.068 Recovery = 107.11%						
Al 396.153Radial†	2455.2	5186.6 ug/L	77.86	5186.6 ppb	77.86	1.50%
QC value within limits for Al 396.153Radial Recovery = 103.73%						
As 188.979†	945.3	550.08 ug/L	4.139	550.08 ppb	4.139	0.75%
QC value greater than the upper limit for As 188.979 Recovery = 110.02%						
B 249.677†	18437.3	523.18 ug/L	10.389	523.18 ppb	10.389	1.99%
QC value within limits for B 249.677 Recovery = 104.64%						
Ba 233.527†	55973.3	539.73 ug/L	7.904	539.73 ppb	7.904	1.46%
QC value within limits for Ba 233.527 Recovery = 107.95%						
Be 313.107†	1217317.3	540.63 ug/L	0.782	540.63 ppb	0.782	0.14%
QC value within limits for Be 313.107 Recovery = 108.13%						
Ca 317.933Radial†	1390.6	5468.2 ug/L	30.34	5468.2 ppb	30.34	0.55%

QC value within limits for Ca 317.933 Radial Recovery = 109.36%

Cd 226.502†	36238.7	544.72 ug/L	7.016	544.72 ppb	7.016	1.29%
QC value within limits for Cd 226.502 Recovery = 108.94%						
Co 228.616†	20532.5	550.75 ug/L	8.781	550.75 ppb	8.781	1.59%
QC value greater than the upper limit for Co 228.616 Recovery = 110.15%						
Cr 267.716†	40107.6	541.63 ug/L	8.202	541.63 ppb	8.202	1.51%
QC value within limits for Cr 267.716 Recovery = 108.33%						
Cu 324.752†	161615.7	532.79 ug/L	9.797	532.79 ppb	9.797	1.84%
QC value within limits for Cu 324.752 Recovery = 106.56%						
Fe 238.204 Radial†	194.1	5469.0 ug/L	41.39	5469.0 ppb	41.39	0.76%
QC value within limits for Fe 238.204 Radial Recovery = 109.38%						
K 766.490 Radial†	11869.4	5400.3 ug/L	31.30	5400.3 ppb	31.30	0.58%
QC value within limits for K 766.490 Radial Recovery = 108.01%						
Mg 279.077 IEC†	56.6	5533.3 ug/L	119.98	5533.3 ppb	119.98	2.17%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 110.67%						
Mn 257.610†	399629.9	540.60 ug/L	1.119	540.60 ppb	1.119	0.21%
QC value within limits for Mn 257.610 Recovery = 108.12%						
Mo 202.031†	5960.7	533.22 ug/L	3.404	533.22 ppb	3.404	0.64%
QC value within limits for Mo 202.031 Recovery = 106.64%						
Na 589.592 Radial†	30430.1	10080 ug/L	16.3	10080 ppb	16.3	0.16%
QC value within limits for Na 589.592 Radial Recovery = 100.80%						
Ni 231.604†	16835.8	549.39 ug/L	9.591	549.39 ppb	9.591	1.75%
QC value within limits for Ni 231.604 Recovery = 109.88%						
P 214.914†	3423.8	2606.2 ug/L	20.08	2606.2 ppb	20.08	0.77%
QC value within limits for P 214.914 Recovery = 104.25%						
Pb 220.353†	3383.0	544.38 ug/L	2.688	544.38 ppb	2.688	0.49%
QC value within limits for Pb 220.353 Recovery = 108.88%						
S 181.975 Axial†	586.6	1076.3 ug/L	14.04	1076.3 ppb	14.04	1.30%
QC value within limits for S 181.975 Axial Recovery = 107.63%						
Sb 206.836†	1235.3	549.77 ug/L	3.268	549.77 ppb	3.268	0.59%
QC value within limits for Sb 206.836 Recovery = 109.95%						
Se 196.026†	646.7	566.74 ug/L	3.562	566.74 ppb	3.562	0.63%
QC value greater than the upper limit for Se 196.026 Recovery = 113.35%						
Si 251.611†	69055.3	2647.0 ug/L	44.02	2647.0 ppb	44.02	1.66%
QC value within limits for Si 251.611 Recovery = 105.88%						
Sn 189.927†	2251.0	529.14 ug/L	3.952	529.14 ppb	3.952	0.75%
QC value within limits for Sn 189.927 Recovery = 105.83%						
Sr 421.552†	53370.9	494.90 ug/L	2.015	494.90 ppb	2.015	0.41%
QC value within limits for Sr 421.552 Recovery = 98.98%						
Ti 334.940†	297959.9	521.52 ug/L	8.402	521.52 ppb	8.402	1.61%
QC value within limits for Ti 334.940 Recovery = 104.30%						
Tl 190.801†	1352.0	546.02 ug/L	2.695	546.02 ppb	2.695	0.49%
QC value within limits for Tl 190.801 Recovery = 109.20%						
U 409.014†	18488.5	550.47 ug/L	9.094	550.47 ppb	9.094	1.65%
QC value greater than the upper limit for U 409.014 Recovery = 110.09%						
V 292.402†	66896.0	545.48 ug/L	8.340	545.48 ppb	8.340	1.53%
QC value within limits for V 292.402 Recovery = 109.10%						
Zn 213.857†	43222.8	536.49 ug/L	8.009	536.49 ppb	8.009	1.49%
QC value within limits for Zn 213.857 Recovery = 107.30%						
SiO2†	69669.5	5684.7 ug/L	100.59	5684.7 ppb	100.59	1.77%
QC value within limits for SiO2 Recovery = 106.30%						

QC Failed. Continue with analysis.

Sequence No.: 100

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 06:17:03

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	3360.9	3360.9	99.9 %		06:19:16
1	Y RADIAL	2765.0	2765.0	99.15 %		06:19:16
1	Al 396.153Radial†	-59.6	9.7	20.493 ug/L	20.493 ppb	06:19:16
1	Ca 317.933Radial†	13.8	2.9	11.325 ug/L	11.325 ppb	06:19:16
1	Fe 238.204 Radial†	9.1	1.8	51.707 ug/L	51.707 ppb	06:19:16
1	K 766.490 Radial†	2045.3	-109.2	-49.738 ug/L	-49.738 ppb	06:18:56
1	Mg 279.077 IEC†	0.4	-1.2	-114.02 ug/L	-114.02 ppb	06:19:16
1	Na 589.592 Radial†	-785.4	-15.2	-5.0228 ug/L	-5.0228 ppb	06:18:56
1	Sr 421.552†	17.7	-6.8	-0.0636 ug/L	-0.0636 ppb	06:18:56
1	Sc 361.383	832383.8	832383.8	102.20 %		06:20:13
1	Y 371.029	713340.5	713340.5	101.82 %		06:20:13
1	Ag 328.068†	163.3	-50.1	-0.2465 ug/L	-0.2465 ppb	06:20:13
1	As 188.979†	-17.9	-0.1	-0.0449 ug/L	-0.0449 ppb	06:20:33
1	B 249.677†	-229.2	-31.6	-0.9099 ug/L	-0.9099 ppb	06:20:33
1	Ba 233.527†	-1.4	-3.6	-0.0322 ug/L	-0.0322 ppb	06:20:33
1	Be 313.107†	-3567.2	-16.6	-0.0071 ug/L	-0.0071 ppb	06:20:13
1	Cd 226.502†	-160.5	4.8	0.0669 ug/L	0.0669 ppb	06:20:33
1	Co 228.616†	-46.0	-2.3	-0.0614 ug/L	-0.0614 ppb	06:20:33
1	Cr 267.716†	72.4	-4.9	-0.0649 ug/L	-0.0649 ppb	06:20:33
1	Cu 324.752†	5981.5	-126.9	-0.4177 ug/L	-0.4177 ppb	06:20:13
1	Mn 257.610†	420.9	14.2	0.0290 ug/L	0.0290 ppb	06:20:33
1	Mo 202.031†	19.8	12.2	1.0971 ug/L	1.0971 ppb	06:20:33
1	Ni 231.604†	49.2	-21.6	-0.7045 ug/L	-0.7045 ppb	06:20:33
1	P 214.914†	186.4	4.8	3.8588 ug/L	3.8588 ppb	06:20:33
1	Pb 220.353†	-52.0	-7.9	-1.2669 ug/L	-1.2669 ppb	06:20:33
1	S 181.975 Axial†	35.7	8.1	14.826 ug/L	14.826 ppb	06:20:33
1	Sb 206.836†	36.4	6.9	2.9953 ug/L	2.9953 ppb	06:20:33
1	Se 196.026†	-19.9	-0.8	-0.5562 ug/L	-0.5562 ppb	06:20:33
1	Si 251.611†	501.5	-49.0	-1.8963 ug/L	-1.8963 ppb	06:20:33
1	Sn 189.927†	9.7	2.3	0.5440 ug/L	0.5440 ppb	06:20:33
1	Ti 334.940†	-951.1	80.8	0.1506 ug/L	0.1506 ppb	06:20:13
1	Tl 190.801†	-26.8	-2.8	-1.1264 ug/L	-1.1264 ppb	06:20:33
1	U 409.014†	-1963.5	128.6	3.8362 ug/L	3.8362 ppb	06:20:13
1	V 292.402†	-1212.9	49.7	0.4130 ug/L	0.4130 ppb	06:20:13
1	Zn 213.857†	541.8	21.6	0.2676 ug/L	0.2676 ppb	06:20:33
1	SiO2†	528.5	-8.8	-0.7519 ug/L	-0.7519 ppb	06:21:44
2	Sc Radial	3374.4	3374.4	100 %		06:19:41
2	Y RADIAL	2769.1	2769.1	99.30 %		06:19:41
2	Al 396.153Radial†	-72.5	-2.9	-6.1895 ug/L	-6.1895 ppb	06:19:41
2	Ca 317.933Radial†	10.2	-0.8	-3.2090 ug/L	-3.2090 ppb	06:19:41
2	Fe 238.204 Radial†	9.3	2.0	57.057 ug/L	57.057 ppb	06:19:41
2	K 766.490 Radial†	2199.1	36.0	16.402 ug/L	16.402 ppb	06:19:21
2	Mg 279.077 IEC†	6.8	5.2	512.73 ug/L	512.73 ppb	06:19:41
2	Na 589.592 Radial†	-834.8	-61.3	-20.293 ug/L	-20.293 ppb	06:19:21
2	Sr 421.552†	19.0	-5.6	-0.0515 ug/L	-0.0515 ppb	06:19:21
2	Sc 361.383	829262.6	829262.6	101.81 %		06:20:38
2	Y 371.029	711375.8	711375.8	101.54 %		06:20:38
2	Ag 328.068†	170.7	-42.3	-0.2055 ug/L	-0.2055 ppb	06:20:38
2	As 188.979†	-19.2	-1.5	-0.8250 ug/L	-0.8250 ppb	06:20:58
2	B 249.677†	-220.6	-24.1	-0.6958 ug/L	-0.6958 ppb	06:20:58
2	Ba 233.527†	-4.8	-6.9	-0.0649 ug/L	-0.0649 ppb	06:20:58
2	Be 313.107†	-3569.4	-32.0	-0.0137 ug/L	-0.0137 ppb	06:20:38
2	Cd 226.502†	-152.5	12.1	0.1762 ug/L	0.1762 ppb	06:20:58
2	Co 228.616†	-41.4	2.0	0.0517 ug/L	0.0517 ppb	06:20:58
2	Cr 267.716†	54.5	-22.2	-0.2984 ug/L	-0.2984 ppb	06:20:58
2	Cu 324.752†	6053.4	-34.1	-0.1111 ug/L	-0.1111 ppb	06:20:38
2	Mn 257.610†	416.5	11.4	0.0001 ug/L	0.0001 ppb	06:20:58
2	Mo 202.031†	9.0	1.7	0.1539 ug/L	0.1539 ppb	06:20:58
2	Ni 231.604†	69.1	-1.8	-0.0599 ug/L	-0.0599 ppb	06:20:58



2	P 214.914†	175.8	-5.0	-3.9543 ug/L	-3.9543 ppb	06:20:58
2	Pb 220.353†	-43.1	0.7	0.1058 ug/L	0.1058 ppb	06:20:58
2	S 181.975 Axial†	32.4	5.0	9.2504 ug/L	9.2504 ppb	06:20:58
2	Sb 206.836†	20.4	-8.7	-3.7194 ug/L	-3.7194 ppb	06:20:58
2	Se 196.026†	-26.0	-6.9	-5.6881 ug/L	-5.6881 ppb	06:20:58
2	Si 251.611†	495.2	-53.4	-2.0522 ug/L	-2.0522 ppb	06:20:58
2	Sn 189.927†	7.6	0.3	0.0671 ug/L	0.0671 ppb	06:20:58
2	Ti 334.940†	-912.8	115.0	0.1578 ug/L	0.1578 ppb	06:20:38
2	Tl 190.801†	-27.6	-3.7	-1.4725 ug/L	-1.4725 ppb	06:20:58
2	U 409.014†	-1990.2	95.2	2.8370 ug/L	2.8370 ppb	06:20:38
2	V 292.402†	-1286.1	-26.7	-0.2061 ug/L	-0.2061 ppb	06:20:38
2	Zn 213.857†	538.3	20.1	0.2438 ug/L	0.2438 ppb	06:20:58
2	SiO2†	509.9	-25.1	-2.0604 ug/L	-2.0604 ppb	06:22:04
3	Sc Radial	3353.4	3353.4	99.7 %		06:20:06
3	Y RADIAL	2752.7	2752.7	98.71 %		06:20:06
3	Al 396.153Radial†	-62.2	7.0	14.746 ug/L	14.746 ppb	06:20:06
3	Ca 317.933Radial†	10.3	-0.6	-2.5195 ug/L	-2.5195 ppb	06:20:06
3	Fe 238.204 Radial†	10.1	2.9	81.158 ug/L	81.158 ppb	06:20:06
3	K 766.490 Radial†	2229.4	80.2	36.510 ug/L	36.510 ppb	06:19:46
3	Mg 279.077 IEC†	3.1	1.6	153.57 ug/L	153.57 ppb	06:20:06
3	Na 589.592 Radial†	-735.3	33.3	11.029 ug/L	11.029 ppb	06:19:46
3	Sr 421.552†	31.1	6.6	0.0616 ug/L	0.0616 ppb	06:19:46
3	Sc 361.383	832923.0	832923.0	102.26 %		06:21:03
3	Y 371.029	715095.8	715095.8	102.07 %		06:21:03
3	Ag 328.068†	147.0	-66.1	-0.3187 ug/L	-0.3187 ppb	06:21:03
3	As 188.979†	-20.4	-2.5	-1.4080 ug/L	-1.4080 ppb	06:21:23
3	B 249.677†	-232.3	-34.5	-0.9970 ug/L	-0.9970 ppb	06:21:23
3	Ba 233.527†	-3.0	-5.1	-0.0456 ug/L	-0.0456 ppb	06:21:23
3	Be 313.107†	-3502.6	48.8	0.0218 ug/L	0.0218 ppb	06:21:03
3	Cd 226.502†	-149.2	15.9	0.2310 ug/L	0.2310 ppb	06:21:23
3	Co 228.616†	-44.9	-1.3	-0.0353 ug/L	-0.0353 ppb	06:21:23
3	Cr 267.716†	77.8	0.4	0.0081 ug/L	0.0081 ppb	06:21:23
3	Cu 324.752†	6020.3	-92.6	-0.3023 ug/L	-0.3023 ppb	06:21:03
3	Mn 257.610†	413.1	6.3	0.0102 ug/L	0.0102 ppb	06:21:23
3	Mo 202.031†	13.8	6.3	0.5680 ug/L	0.5680 ppb	06:21:23
3	Ni 231.604†	60.9	-10.1	-0.3292 ug/L	-0.3292 ppb	06:21:23
3	P 214.914†	172.7	-8.8	-6.9518 ug/L	-6.9518 ppb	06:21:23
3	Pb 220.353†	-43.8	0.2	0.0222 ug/L	0.0222 ppb	06:21:23
3	S 181.975 Axial†	38.1	10.4	19.123 ug/L	19.123 ppb	06:21:23
3	Sb 206.836†	25.4	-3.9	-1.6618 ug/L	-1.6618 ppb	06:21:23
3	Se 196.026†	-20.1	-1.0	-0.6218 ug/L	-0.6218 ppb	06:21:23
3	Si 251.611†	500.2	-50.6	-1.9511 ug/L	-1.9511 ppb	06:21:23
3	Sn 189.927†	5.4	-1.9	-0.4574 ug/L	-0.4574 ppb	06:21:23
3	Ti 334.940†	-983.0	50.2	0.0741 ug/L	0.0741 ppb	06:21:03
3	Tl 190.801†	-26.9	-2.9	-1.1614 ug/L	-1.1614 ppb	06:21:23
3	U 409.014†	-2024.4	70.3	2.0920 ug/L	2.0920 ppb	06:21:03
3	V 292.402†	-1198.2	64.8	0.5245 ug/L	0.5245 ppb	06:21:03
3	Zn 213.857†	544.0	23.4	0.2830 ug/L	0.2830 ppb	06:21:23
3	SiO2†	507.2	-29.9	-2.4619 ug/L	-2.4619 ppb	06:22:24

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	831523.1	102.09 %	0.243			0.24%
Sc Radial	3362.9	100.0 %	0.32			0.32%
Y 371.029	713270.7	101.81 %	0.266			0.26%
Y RADIAL	2762.3	99.05 %	0.305			0.31%
Ag 328.068†	-52.8	-0.2569 ug/L	0.05730	-0.2569 ppb	0.05730	22.31%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.6	9.6830 ug/L	14.04316	9.6830 ppb	14.04316	145.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.3	-0.7593 ug/L	0.68395	-0.7593 ppb	0.68395	90.08%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-30.1	-0.8675 ug/L	0.15500	-0.8675 ppb	0.15500	17.87%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.2	-0.0475 ug/L	0.01644	-0.0475 ppb	0.01644	34.58%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	0.1	0.0004 ug/L	0.01888	0.0004 ppb	0.01888	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.5	1.8656 ug/L	8.19956	1.8656 ppb	8.19956	439.52%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	10.9	0.1580 ug/L	0.08353	0.1580 ppb	0.08353	52.86%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.6	-0.0150 ug/L	0.05922	-0.0150 ppb	0.05922	394.23%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-8.9	-0.1184 ug/L	0.16014	-0.1184 ppb	0.16014	135.26%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-84.6	-0.2770 ug/L	0.15482	-0.2770 ppb	0.15482	55.88%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2.3	63.307 ug/L	15.6887	63.307 ppb	15.6887	24.78%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	2.3	1.0579 ug/L	45.12476	1.0579 ppb	45.12476	>999.9%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.9	184.09 ug/L	314.488	184.09 ppb	314.488	170.83%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	10.6	0.0131 ug/L	0.01466	0.0131 ppb	0.01466	112.00%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	6.7	0.6064 ug/L	0.47276	0.6064 ppb	0.47276	77.97%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-14.4	-4.7623 ug/L	15.66226	-4.7623 ppb	15.66226	328.88%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-11.2	-0.3645 ug/L	0.32374	-0.3645 ppb	0.32374	88.81%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-3.0	-2.3491 ug/L	5.58116	-2.3491 ppb	5.58116	237.59%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-2.3	-0.3796 ug/L	0.76955	-0.3796 ppb	0.76955	202.71%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.8	14.400 ug/L	4.9500	14.400 ppb	4.9500	34.38%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.9	-0.7953 ug/L	3.44022	-0.7953 ppb	3.44022	432.57%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.9	-2.2887 ug/L	2.94415	-2.2887 ppb	2.94415	128.64%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-51.0	-1.9665 ug/L	0.07913	-1.9665 ppb	0.07913	4.02%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.2	0.0512 ug/L	0.50089	0.0512 ppb	0.50089	978.18%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1.9	-0.0178 ug/L	0.06905	-0.0178 ppb	0.06905	387.88%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	82.0	0.1275 ug/L	0.04640	0.1275 ppb	0.04640	36.39%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-3.1	-1.2534 ug/L	0.19049	-1.2534 ppb	0.19049	15.20%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	98.0	2.9218 ug/L	0.87518	2.9218 ppb	0.87518	29.95%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	29.3	0.2438 ug/L	0.39355	0.2438 ppb	0.39355	161.43%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	21.7	0.2648 ug/L	0.01979	0.2648 ppb	0.01979	7.47%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-21.3	-1.7581 ug/L	0.89419	-1.7581 ppb	0.89419	50.86%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 07:17:08

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	3221.4	3221.4	95.8 %		07:19:20
1	Y RADIAL	2614.6	2614.6	93.76 %		07:19:20
1	Al 396.153Radial†	2352.6	2525.8	5337.3 ug/L	5337.3 ppb	07:19:00
1	Ca 317.933Radial†	1400.3	1451.1	5705.9 ug/L	5705.9 ppb	07:19:20
1	Fe 238.204 Radial†	201.7	203.4	5729.1 ug/L	5729.1 ppb	07:19:20
1	K 766.490 Radial†	13978.7	12439.6	5659.9 ug/L	5659.9 ppb	07:19:00
1	Mg 279.077 IEC†	60.4	61.5	6008.2 ug/L	6008.2 ppb	07:19:20
1	Na 589.592 Radial†	28644.0	30678.8	10162 ug/L	10162 ppb	07:19:00
1	Sr 421.552†	52301.7	54585.1	506.16 ug/L	506.16 ppb	07:19:00
1	Sc 361.383	868325.5	868325.5	106.61 %		07:20:17
1	Y 371.029	733874.5	733874.5	104.75 %		07:20:17
1	Ag 328.068†	104761.4	98055.1	513.63 ug/L	513.63 ppb	07:20:22
1	As 188.979†	950.2	908.7	528.91 ug/L	528.91 ppb	07:20:43
1	B 249.677†	18647.5	17683.8	501.71 ug/L	501.71 ppb	07:20:22
1	Ba 233.527†	57590.2	54016.8	520.87 ug/L	520.87 ppb	07:20:22
1	Be 313.107†	1259041.3	1184441.1	526.01 ug/L	526.01 ppb	07:20:17
1	Cd 226.502†	37139.3	34998.1	526.03 ug/L	526.03 ppb	07:20:22
1	Co 228.616†	21171.4	19901.2	533.82 ug/L	533.82 ppb	07:20:22
1	Cr 267.716†	41079.8	38456.7	519.36 ug/L	519.36 ppb	07:20:22
1	Cu 324.752†	171437.9	154827.2	510.44 ug/L	510.44 ppb	07:20:22
1	Mn 257.610†	414095.9	388019.9	524.91 ug/L	524.91 ppb	07:20:17
1	Mo 202.031†	6149.4	5760.9	515.39 ug/L	515.39 ppb	07:20:43
1	Ni 231.604†	17434.1	16283.3	531.36 ug/L	531.36 ppb	07:20:22
1	P 214.914†	3720.4	3312.0	2521.9 ug/L	2521.9 ppb	07:20:43
1	Pb 220.353†	3441.5	3271.1	526.37 ug/L	526.37 ppb	07:20:43
1	S 181.975 Axial†	629.3	563.5	1033.8 ug/L	1033.8 ppb	07:20:43
1	Sb 206.836†	1310.8	1200.7	534.34 ug/L	534.34 ppb	07:20:43
1	Se 196.026†	645.5	624.1	548.27 ug/L	548.27 ppb	07:20:43
1	Si 251.611†	71376.3	66410.5	2545.5 ug/L	2545.5 ppb	07:20:22
1	Sn 189.927†	2347.2	2194.4	515.88 ug/L	515.88 ppb	07:20:43
1	Ti 334.940†	304479.2	286609.8	501.66 ug/L	501.66 ppb	07:20:22
1	Tl 190.801†	1362.9	1301.9	525.79 ug/L	525.79 ppb	07:20:43
1	U 409.014†	16581.4	17603.1	524.04 ug/L	524.04 ppb	07:20:22
1	V 292.402†	67011.1	64092.2	522.62 ug/L	522.62 ppb	07:20:22
1	Zn 213.857†	44857.5	41567.3	515.85 ug/L	515.85 ppb	07:20:22
1	SiO2†	71521.6	66560.6	5430.8 ug/L	5430.8 ppb	07:21:50
2	Sc Radial	3378.3	3378.3	100 %		07:19:45
2	Y RADIAL	2745.4	2745.4	98.45 %		07:19:45
2	Al 396.153Radial†	2388.9	2447.8	5171.8 ug/L	5171.8 ppb	07:19:25
2	Ca 317.933Radial†	1407.8	1390.7	5468.4 ug/L	5468.4 ppb	07:19:45
2	Fe 238.204 Radial†	202.2	194.0	5467.4 ug/L	5467.4 ppb	07:19:45
2	K 766.490 Radial†	14222.9	12004.7	5462.0 ug/L	5462.0 ppb	07:19:25
2	Mg 279.077 IEC†	61.4	59.6	5826.2 ug/L	5826.2 ppb	07:19:45
2	Na 589.592 Radial†	28884.0	29528.4	9781.0 ug/L	9781.0 ppb	07:19:25
2	Sr 421.552†	53131.5	52874.5	490.29 ug/L	490.29 ppb	07:19:25
2	Sc 361.383	857543.8	857543.8	105.29 %		07:20:48
2	Y 371.029	723041.4	723041.4	103.21 %		07:20:48
2	Ag 328.068†	105543.7	100033.7	523.89 ug/L	523.89 ppb	07:20:53
2	As 188.979†	940.8	910.9	530.22 ug/L	530.22 ppb	07:21:14
2	B 249.677†	18869.1	18114.1	514.00 ug/L	514.00 ppb	07:20:53
2	Ba 233.527†	57798.5	54893.8	529.32 ug/L	529.32 ppb	07:20:53
2	Be 313.107†	1254649.9	1195118.4	530.77 ug/L	530.77 ppb	07:20:48
2	Cd 226.502†	37241.9	35533.5	534.11 ug/L	534.11 ppb	07:20:53
2	Co 228.616†	21210.1	20187.6	541.48 ug/L	541.48 ppb	07:20:53
2	Cr 267.716†	41405.9	39250.8	530.07 ug/L	530.07 ppb	07:20:53
2	Cu 324.752†	173302.0	158619.6	522.92 ug/L	522.92 ppb	07:20:53
2	Mn 257.610†	414149.2	392954.0	531.56 ug/L	531.56 ppb	07:20:48
2	Mo 202.031†	6089.3	5776.3	516.74 ug/L	516.74 ppb	07:21:14
2	Ni 231.604†	17512.6	16563.4	540.50 ug/L	540.50 ppb	07:20:53

2	P 214.914†	3678.0	3315.7	2522.5 ug/L	2522.5 ppb	07:21:14
2	Pb 220.353†	3401.5	3273.7	526.78 ug/L	526.78 ppb	07:21:14
2	S 181.975 Axial†	618.9	561.0	1029.2 ug/L	1029.2 ppb	07:21:14
2	Sb 206.836†	1294.2	1200.5	534.30 ug/L	534.30 ppb	07:21:14
2	Se 196.026†	639.7	626.2	549.28 ug/L	549.28 ppb	07:21:14
2	Si 251.611†	71934.9	67782.8	2598.3 ug/L	2598.3 ppb	07:20:53
2	Sn 189.927†	2323.1	2199.2	516.98 ug/L	516.98 ppb	07:21:14
2	Ti 334.940†	306464.6	292086.2	511.22 ug/L	511.22 ppb	07:20:53
2	Tl 190.801†	1342.3	1298.4	524.45 ug/L	524.45 ppb	07:21:14
2	U 409.014†	16715.3	17925.8	533.68 ug/L	533.68 ppb	07:20:53
2	V 292.402†	67639.8	65479.5	533.84 ug/L	533.84 ppb	07:20:53
2	Zn 213.857†	45145.3	42369.7	525.87 ug/L	525.87 ppb	07:20:53
2	SiO2†	71745.7	67616.9	5517.2 ug/L	5517.2 ppb	07:21:55
3	Sc Radial	3421.3	3421.3	102 %		07:20:10
3	Y RADIAL	2794.4	2794.4	100.2 %		07:20:10
3	Al 396.153Radial†	2356.1	2385.7	5039.1 ug/L	5039.1 ppb	07:19:50
3	Ca 317.933Radial†	1389.1	1354.7	5326.8 ug/L	5326.8 ppb	07:20:10
3	Fe 238.204 Radial†	200.4	189.8	5347.3 ug/L	5347.3 ppb	07:20:10
3	K 766.490 Radial†	13971.6	11579.5	5268.5 ug/L	5268.5 ppb	07:19:50
3	Mg 279.077 IEC†	57.9	55.4	5410.6 ug/L	5410.6 ppb	07:20:10
3	Na 589.592 Radial†	28148.7	28444.0	9421.8 ug/L	9421.8 ppb	07:19:50
3	Sr 421.552†	51689.4	50791.6	470.98 ug/L	470.98 ppb	07:19:50
3	Sc 361.383	840375.7	840375.7	103.18 %		07:21:19
3	Y 371.029	710219.2	710219.2	101.38 %		07:21:19
3	Ag 328.068†	104250.2	100827.9	528.00 ug/L	528.00 ppb	07:21:25
3	As 188.979†	953.3	941.3	547.74 ug/L	547.74 ppb	07:21:45
3	B 249.677†	18576.1	18196.4	516.34 ug/L	516.34 ppb	07:21:25
3	Ba 233.527†	57380.8	55610.5	536.22 ug/L	536.22 ppb	07:21:25
3	Be 313.107†	1231317.4	1196848.9	531.55 ug/L	531.55 ppb	07:21:19
3	Cd 226.502†	36819.4	35846.7	538.84 ug/L	538.84 ppb	07:21:25
3	Co 228.616†	21011.2	20406.4	547.38 ug/L	547.38 ppb	07:21:25
3	Cr 267.716†	40991.3	39652.5	535.49 ug/L	535.49 ppb	07:21:25
3	Cu 324.752†	170689.9	159450.5	525.65 ug/L	525.65 ppb	07:21:25
3	Mn 257.610†	405436.8	392545.8	531.01 ug/L	531.01 ppb	07:21:19
3	Mo 202.031†	6145.6	5949.1	532.17 ug/L	532.17 ppb	07:21:45
3	Ni 231.604†	17309.4	16706.4	545.16 ug/L	545.16 ppb	07:21:25
3	P 214.914†	3698.9	3407.3	2594.7 ug/L	2594.7 ppb	07:21:45
3	Pb 220.353†	3426.1	3363.5	541.23 ug/L	541.23 ppb	07:21:45
3	S 181.975 Axial†	626.1	580.0	1064.2 ug/L	1064.2 ppb	07:21:45
3	Sb 206.836†	1303.0	1234.1	549.30 ug/L	549.30 ppb	07:21:45
3	Se 196.026†	628.1	627.3	549.91 ug/L	549.91 ppb	07:21:45
3	Si 251.611†	70931.3	68205.8	2614.3 ug/L	2614.3 ppb	07:21:25
3	Sn 189.927†	2342.3	2263.0	531.92 ug/L	531.92 ppb	07:21:45
3	Ti 334.940†	303421.2	295083.0	516.48 ug/L	516.48 ppb	07:21:25
3	Tl 190.801†	1362.5	1344.0	542.75 ug/L	542.75 ppb	07:21:45
3	U 409.014†	16795.2	18327.6	545.69 ug/L	545.69 ppb	07:21:25
3	V 292.402†	66927.3	66101.4	539.09 ug/L	539.09 ppb	07:21:25
3	Zn 213.857†	44618.4	42735.0	530.43 ug/L	530.43 ppb	07:21:25
3	SiO2†	71454.0	68726.2	5607.5 ug/L	5607.5 ppb	07:22:00

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	855415.0	105.03 %	1.731			1.65%
Sc Radial	3340.3	99.3 %	3.13			3.15%
Y 371.029	722378.4	103.11 %	1.690			1.64%
Y RADIAL	2718.1	97.47 %	3.334			3.42%
Ag 328.068†	99638.9	521.84 ug/L	7.398	521.84 ppb	7.398	1.42%
QC value within limits for Ag 328.068 Recovery = 104.37%						
Al 396.153Radial†	2453.1	5182.7 ug/L	149.41	5182.7 ppb	149.41	2.88%
QC value within limits for Al 396.153Radial Recovery = 103.65%						
As 188.979†	920.3	535.62 ug/L	10.514	535.62 ppb	10.514	1.96%
QC value within limits for As 188.979 Recovery = 107.12%						
B 249.677†	17998.1	510.68 ug/L	7.861	510.68 ppb	7.861	1.54%
QC value within limits for B 249.677 Recovery = 102.14%						
Ba 233.527†	54840.4	528.80 ug/L	7.689	528.80 ppb	7.689	1.45%
QC value within limits for Ba 233.527 Recovery = 105.76%						
Be 313.107†	1192136.1	529.44 ug/L	2.995	529.44 ppb	2.995	0.57%
QC value within limits for Be 313.107 Recovery = 105.89%						
Ca 317.933Radial†	1398.8	5500.4 ug/L	191.57	5500.4 ppb	191.57	3.48%

QC value greater than the upper limit for Ca 317.933 Radial Recovery = 110.01%							
Cd 226.502†	35459.4	532.99 ug/L	6.478	532.99 ppb	6.478	1.22%	
QC value within limits for Cd 226.502 Recovery = 106.60%							
Co 228.616†	20165.1	540.89 ug/L	6.801	540.89 ppb	6.801	1.26%	
QC value within limits for Co 228.616 Recovery = 108.18%							
Cr 267.716†	39120.0	528.31 ug/L	8.206	528.31 ppb	8.206	1.55%	
QC value within limits for Cr 267.716 Recovery = 105.66%							
Cu 324.752†	157632.4	519.67 ug/L	8.110	519.67 ppb	8.110	1.56%	
QC value within limits for Cu 324.752 Recovery = 103.93%							
Fe 238.204 Radial†	195.7	5514.6 ug/L	195.27	5514.6 ppb	195.27	3.54%	
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 110.29%							
K 766.490 Radial†	12007.9	5463.5 ug/L	195.70	5463.5 ppb	195.70	3.58%	
QC value within limits for K 766.490 Radial Recovery = 109.27%							
Mg 279.077 IEC†	58.8	5748.3 ug/L	306.29	5748.3 ppb	306.29	5.33%	
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 114.97%							
Mn 257.610†	391173.2	529.16 ug/L	3.693	529.16 ppb	3.693	0.70%	
QC value within limits for Mn 257.610 Recovery = 105.83%							
Mo 202.031†	5828.8	521.43 ug/L	9.325	521.43 ppb	9.325	1.79%	
QC value within limits for Mo 202.031 Recovery = 104.29%							
Na 589.592 Radial†	29550.4	9788.3 ug/L	370.19	9788.3 ppb	370.19	3.78%	
QC value within limits for Na 589.592 Radial Recovery = 97.88%							
Ni 231.604†	16517.7	539.01 ug/L	7.023	539.01 ppb	7.023	1.30%	
QC value within limits for Ni 231.604 Recovery = 107.80%							
P 214.914†	3345.0	2546.4 ug/L	41.82	2546.4 ppb	41.82	1.64%	
QC value within limits for P 214.914 Recovery = 101.86%							
Pb 220.353†	3302.7	531.46 ug/L	8.459	531.46 ppb	8.459	1.59%	
QC value within limits for Pb 220.353 Recovery = 106.29%							
S 181.975 Axial†	568.1	1042.4 ug/L	19.01	1042.4 ppb	19.01	1.82%	
QC value within limits for S 181.975 Axial Recovery = 104.24%							
Sb 206.836†	1211.8	539.31 ug/L	8.650	539.31 ppb	8.650	1.60%	
QC value within limits for Sb 206.836 Recovery = 107.86%							
Se 196.026†	625.9	549.15 ug/L	0.825	549.15 ppb	0.825	0.15%	
QC value within limits for Se 196.026 Recovery = 109.83%							
Si 251.611†	67466.4	2586.0 ug/L	35.98	2586.0 ppb	35.98	1.39%	
QC value within limits for Si 251.611 Recovery = 103.44%							
Sn 189.927†	2218.9	521.59 ug/L	8.961	521.59 ppb	8.961	1.72%	
QC value within limits for Sn 189.927 Recovery = 104.32%							
Sr 421.552†	52750.4	489.14 ug/L	17.617	489.14 ppb	17.617	3.60%	
QC value within limits for Sr 421.552 Recovery = 97.83%							
Ti 334.940†	291259.6	509.79 ug/L	7.513	509.79 ppb	7.513	1.47%	
QC value within limits for Ti 334.940 Recovery = 101.96%							
Tl 190.801†	1314.7	531.00 ug/L	10.204	531.00 ppb	10.204	1.92%	
QC value within limits for Tl 190.801 Recovery = 106.20%							
U 409.014†	17952.2	534.47 ug/L	10.846	534.47 ppb	10.846	2.03%	
QC value within limits for U 409.014 Recovery = 106.89%							
V 292.402†	65224.4	531.85 ug/L	8.414	531.85 ppb	8.414	1.58%	
QC value within limits for V 292.402 Recovery = 106.37%							
Zn 213.857†	42224.0	524.05 ug/L	7.457	524.05 ppb	7.457	1.42%	
QC value within limits for Zn 213.857 Recovery = 104.81%							
SiO2†	67634.6	5518.5 ug/L	88.36	5518.5 ppb	88.36	1.60%	
QC value within limits for SiO2 Recovery = 103.20%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 07:24:11

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	3362.0	3362.0	100.0 %		07:26:23
1	Y RADIAL	2744.6	2744.6	98.42 %		07:26:23
1	Al 396.153Radial†	-66.1	3.3	6.9145 ug/L	6.9145 ppb	07:26:23
1	Ca 317.933Radial†	12.1	1.1	4.2717 ug/L	4.2717 ppb	07:26:23
1	Fe 238.204 Radial†	6.2	-1.0	-29.166 ug/L	-29.166 ppb	07:26:23
1	K 766.490 Radial†	2165.4	10.3	4.6921 ug/L	4.6921 ppb	07:26:03
1	Mg 279.077 IEC†	-1.9	-3.4	-332.37 ug/L	-332.37 ppb	07:26:23
1	Na 589.592 Radial†	-711.8	58.7	19.436 ug/L	19.436 ppb	07:26:03
1	Sr 421.552†	43.2	18.7	0.1736 ug/L	0.1736 ppb	07:26:03
1	Sc 361.383	833947.6	833947.6	102.39 %		07:27:20
1	Y 371.029	714133.2	714133.2	101.94 %		07:27:20
1	Ag 328.068†	137.1	-76.0	-0.4028 ug/L	-0.4028 ppb	07:27:20
1	As 188.979†	-24.9	-6.9	-4.0043 ug/L	-4.0043 ppb	07:27:40
1	B 249.677†	-236.0	-37.8	-1.0735 ug/L	-1.0735 ppb	07:27:40
1	Ba 233.527†	14.1	11.6	0.1119 ug/L	0.1119 ppb	07:27:40
1	Be 313.107†	-3546.1	10.5	0.0050 ug/L	0.0050 ppb	07:27:20
1	Cd 226.502†	-163.4	2.3	0.0368 ug/L	0.0368 ppb	07:27:40
1	Co 228.616†	-39.4	4.2	0.1130 ug/L	0.1130 ppb	07:27:40
1	Cr 267.716†	81.5	3.8	0.0512 ug/L	0.0512 ppb	07:27:40
1	Cu 324.752†	6038.5	-82.1	-0.2726 ug/L	-0.2726 ppb	07:27:20
1	Mn 257.610†	411.3	4.0	0.0161 ug/L	0.0161 ppb	07:27:40
1	Mo 202.031†	10.8	3.3	0.2956 ug/L	0.2956 ppb	07:27:40
1	Ni 231.604†	52.4	-18.5	-0.6034 ug/L	-0.6034 ppb	07:27:40
1	P 214.914†	179.3	-2.5	-1.8964 ug/L	-1.8964 ppb	07:27:40
1	Pb 220.353†	-32.9	10.9	1.7513 ug/L	1.7513 ppb	07:27:40
1	S 181.975 Axial†	36.4	8.7	16.013 ug/L	16.013 ppb	07:27:40
1	Sb 206.836†	24.7	-4.6	-1.9908 ug/L	-1.9908 ppb	07:27:40
1	Se 196.026†	-10.3	8.6	7.1780 ug/L	7.1780 ppb	07:27:40
1	Si 251.611†	496.9	-54.4	-2.0955 ug/L	-2.0955 ppb	07:27:40
1	Sn 189.927†	-0.5	-7.6	-1.7929 ug/L	-1.7929 ppb	07:27:40
1	Ti 334.940†	-958.1	75.7	0.1600 ug/L	0.1600 ppb	07:27:20
1	Tl 190.801†	-26.2	-2.1	-0.8506 ug/L	-0.8506 ppb	07:27:40
1	U 409.014†	-2082.3	16.2	0.4876 ug/L	0.4876 ppb	07:27:20
1	V 292.402†	-1195.6	68.8	0.5561 ug/L	0.5561 ppb	07:27:20
1	Zn 213.857†	577.8	55.8	0.7071 ug/L	0.7071 ppb	07:27:40
1	SiO2†	509.6	-28.3	-2.3205 ug/L	-2.3205 ppb	07:28:51
2	Sc Radial	3376.5	3376.5	100 %		07:26:48
2	Y RADIAL	2764.9	2764.9	99.15 %		07:26:48
2	Al 396.153Radial†	-62.1	7.5	15.970 ug/L	15.970 ppb	07:26:48
2	Ca 317.933Radial†	12.9	1.9	7.4855 ug/L	7.4855 ppb	07:26:48
2	Fe 238.204 Radial†	6.8	-0.5	-14.742 ug/L	-14.742 ppb	07:26:48
2	K 766.490 Radial†	2182.5	18.0	8.2056 ug/L	8.2056 ppb	07:26:28
2	Mg 279.077 IEC†	0.5	-1.1	-105.78 ug/L	-105.78 ppb	07:26:48
2	Na 589.592 Radial†	-764.2	9.5	3.1554 ug/L	3.1554 ppb	07:26:28
2	Sr 421.552†	2.0	-22.6	-0.2093 ug/L	-0.2093 ppb	07:26:28
2	Sc 361.383	826191.1	826191.1	101.44 %		07:27:45
2	Y 371.029	707693.8	707693.8	101.02 %		07:27:45
2	Ag 328.068†	185.2	-27.4	-0.1498 ug/L	-0.1498 ppb	07:27:45
2	As 188.979†	-21.0	-3.2	-1.8639 ug/L	-1.8639 ppb	07:28:05
2	B 249.677†	-274.3	-77.7	-2.2131 ug/L	-2.2131 ppb	07:28:05
2	Ba 233.527†	2.8	0.6	0.0052 ug/L	0.0052 ppb	07:28:05
2	Be 313.107†	-3578.6	-54.1	-0.0239 ug/L	-0.0239 ppb	07:27:45
2	Cd 226.502†	-138.4	25.4	0.3834 ug/L	0.3834 ppb	07:28:05
2	Co 228.616†	-50.8	-7.5	-0.2005 ug/L	-0.2005 ppb	07:28:05
2	Cr 267.716†	77.7	0.9	0.0103 ug/L	0.0103 ppb	07:28:05
2	Cu 324.752†	5935.1	-128.7	-0.4270 ug/L	-0.4270 ppb	07:27:45
2	Mn 257.610†	414.0	10.5	0.0170 ug/L	0.0170 ppb	07:28:05
2	Mo 202.031†	9.9	2.6	0.2281 ug/L	0.2281 ppb	07:28:05
2	Ni 231.604†	68.5	-2.2	-0.0711 ug/L	-0.0711 ppb	07:28:05

2	P 214.914†	178.5	-1.7	-1.2200 ug/L	-1.2200 ppb	07:28:05
2	Pb 220.353†	-51.6	-7.9	-1.2587 ug/L	-1.2587 ppb	07:28:05
2	S 181.975 Axial†	29.0	1.8	3.2738 ug/L	3.2738 ppb	07:28:05
2	Sb 206.836†	33.1	3.9	1.6796 ug/L	1.6796 ppb	07:28:05
2	Se 196.026†	-19.5	-0.6	-0.5726 ug/L	-0.5726 ppb	07:28:05
2	Si 251.611†	503.0	-43.8	-1.6874 ug/L	-1.6874 ppb	07:28:05
2	Sn 189.927†	10.6	3.2	0.7641 ug/L	0.7641 ppb	07:28:05
2	Ti 334.940†	-1001.6	24.0	0.0502 ug/L	0.0502 ppb	07:27:45
2	Tl 190.801†	-25.5	-1.7	-0.6622 ug/L	-0.6622 ppb	07:28:05
2	U 409.014†	-1966.0	111.7	3.3396 ug/L	3.3396 ppb	07:27:45
2	V 292.402†	-1255.2	-0.9	0.0025 ug/L	0.0025 ppb	07:27:45
2	Zn 213.857†	568.2	51.6	0.6492 ug/L	0.6492 ppb	07:28:05
2	SiO2†	497.0	-36.0	-2.9493 ug/L	-2.9493 ppb	07:29:11
3	Sc Radial	3339.2	3339.2	99.3 %		07:27:13
3	Y RADIAL	2725.9	2725.9	97.75 %		07:27:13
3	Al 396.153Radial†	-58.4	10.6	22.408 ug/L	22.408 ppb	07:27:13
3	Ca 317.933Radial†	15.5	4.6	18.162 ug/L	18.162 ppb	07:27:13
3	Fe 238.204 Radial†	6.7	-0.5	-15.279 ug/L	-15.279 ppb	07:27:13
3	K 766.490 Radial†	2132.4	-8.1	-3.7097 ug/L	-3.7097 ppb	07:26:53
3	Mg 279.077 IEC†	0.8	-0.7	-69.714 ug/L	-69.714 ppb	07:27:13
3	Na 589.592 Radial†	-821.2	-56.4	-18.678 ug/L	-18.678 ppb	07:26:53
3	Sr 421.552†	34.3	10.0	0.0931 ug/L	0.0931 ppb	07:26:53
3	Sc 361.383	836845.1	836845.1	102.75 %		07:28:11
3	Y 371.029	717289.3	717289.3	102.39 %		07:28:11
3	Ag 328.068†	154.3	-59.7	-0.3121 ug/L	-0.3121 ppb	07:28:11
3	As 188.979†	-24.2	-6.1	-3.5335 ug/L	-3.5335 ppb	07:28:31
3	B 249.677†	-247.8	-48.5	-1.3807 ug/L	-1.3807 ppb	07:28:31
3	Ba 233.527†	8.7	6.3	0.0624 ug/L	0.0624 ppb	07:28:31
3	Be 313.107†	-3553.3	15.5	0.0072 ug/L	0.0072 ppb	07:28:11
3	Cd 226.502†	-164.2	2.0	0.0318 ug/L	0.0318 ppb	07:28:31
3	Co 228.616†	-42.4	1.4	0.0405 ug/L	0.0405 ppb	07:28:31
3	Cr 267.716†	66.2	-11.3	-0.1516 ug/L	-0.1516 ppb	07:28:31
3	Cu 324.752†	6048.7	-92.6	-0.3064 ug/L	-0.3064 ppb	07:28:11
3	Mn 257.610†	410.0	1.4	0.0032 ug/L	0.0032 ppb	07:28:31
3	Mo 202.031†	20.9	13.1	1.1736 ug/L	1.1736 ppb	07:28:31
3	Ni 231.604†	68.6	-2.9	-0.0944 ug/L	-0.0944 ppb	07:28:31
3	P 214.914†	183.0	0.4	0.4219 ug/L	0.4219 ppb	07:28:31
3	Pb 220.353†	-39.1	5.0	0.8050 ug/L	0.8050 ppb	07:28:31
3	S 181.975 Axial†	32.3	4.6	8.4597 ug/L	8.4597 ppb	07:28:31
3	Sb 206.836†	25.1	-4.3	-1.8362 ug/L	-1.8362 ppb	07:28:31
3	Se 196.026†	-17.1	2.0	1.6590 ug/L	1.6590 ppb	07:28:31
3	Si 251.611†	493.3	-59.7	-2.3074 ug/L	-2.3074 ppb	07:28:31
3	Sn 189.927†	2.1	-5.2	-1.2147 ug/L	-1.2147 ppb	07:28:31
3	Ti 334.940†	-944.5	92.2	0.1695 ug/L	0.1695 ppb	07:28:11
3	Tl 190.801†	-23.3	0.8	0.3195 ug/L	0.3195 ppb	07:28:31
3	U 409.014†	-2096.4	9.5	0.2868 ug/L	0.2868 ppb	07:28:11
3	V 292.402†	-1145.2	121.9	0.9988 ug/L	0.9988 ppb	07:28:11
3	Zn 213.857†	576.0	52.0	0.6547 ug/L	0.6547 ppb	07:28:31
3	SiO2†	495.6	-43.5	-3.5924 ug/L	-3.5924 ppb	07:29:31

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832327.9	102.19 %		0.676			0.66%
Sc Radial	3359.2	99.9 %		0.56			0.56%
Y 371.029	713038.8	101.78 %		0.698			0.69%
Y RADIAL	2745.1	98.44 %		0.699			0.71%
Ag 328.068†	-54.4	-0.2883 ug/L		0.12819	-0.2883 ppb	0.12819	44.47%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	7.1	15.098 ug/L		7.7837	15.098 ppb	7.7837	51.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-5.4	-3.1339 ug/L		1.12473	-3.1339 ppb	1.12473	35.89%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-54.7	-1.5558 ug/L		0.58966	-1.5558 ppb	0.58966	37.90%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	6.2	0.0598 ug/L		0.05342	0.0598 ppb	0.05342	89.29%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-9.4	-0.0039 ug/L		0.01734	-0.0039 ppb	0.01734	444.49%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	2.5	9.9730 ug/L		7.27157	9.9730 ppb	7.27157	72.91%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	9.9	0.1506 ug/L	0.20160	0.1506 ppb	0.20160	133.83%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.6	-0.0157 ug/L	0.16411	-0.0157 ppb	0.16411	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-2.2	-0.0301 ug/L	0.10726	-0.0301 ppb	0.10726	356.74%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-101.2	-0.3353 ug/L	0.08118	-0.3353 ppb	0.08118	24.21%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.7	-19.729 ug/L	8.1773	-19.729 ppb	8.1773	41.45%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	6.7	3.0626 ug/L	6.12251	3.0626 ppb	6.12251	199.91%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.7	-169.29 ug/L	142.378	-169.29 ppb	142.378	84.10%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	5.3	0.0121 ug/L	0.00775	0.0121 ppb	0.00775	63.96%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.3	0.5658 ug/L	0.52750	0.5658 ppb	0.52750	93.23%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	3.9	1.3047 ug/L	19.12430	1.3047 ppb	19.12430	>999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-7.8	-0.2563 ug/L	0.30080	-0.2563 ppb	0.30080	117.37%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.2	-0.8982 ug/L	1.19218	-0.8982 ppb	1.19218	132.74%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	2.6	0.4325 ug/L	1.53916	0.4325 ppb	1.53916	355.85%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	5.0	9.2487 ug/L	6.40596	9.2487 ppb	6.40596	69.26%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.7	-0.7158 ug/L	2.07590	-0.7158 ppb	2.07590	290.01%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.3	2.7548 ug/L	3.98975	2.7548 ppb	3.98975	144.83%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-52.6	-2.0301 ug/L	0.31509	-2.0301 ppb	0.31509	15.52%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-3.2	-0.7478 ug/L	1.34090	-0.7478 ppb	1.34090	179.31%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	2.1	0.0191 ug/L	0.20185	0.0191 ppb	0.20185	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	64.0	0.1266 ug/L	0.06627	0.1266 ppb	0.06627	52.36%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.0	-0.3978 ug/L	0.62829	-0.3978 ppb	0.62829	157.95%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	45.8	1.3713 ug/L	1.70753	1.3713 ppb	1.70753	124.51%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	63.2	0.5191 ug/L	0.49918	0.5191 ppb	0.49918	96.16%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	53.1	0.6703 ug/L	0.03197	0.6703 ppb	0.03197	4.77%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-35.9	-2.9541 ug/L	0.63594	-2.9541 ppb	0.63594	21.53%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						



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Analysis Begun

Start Time: 3/9/2010 07:36:43

Plasma On Time: 3/8/2010 08:27:38

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\030810C.sif

Batch ID:

Results Data Set: 030810B

Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/9/2010 07:36:44

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3306.3	3306.3	98.3 %		07:38:56
1	Y RADIAL	2676.3	2676.3	95.97 %		07:38:56
1	Al 396.153Radial†	2177.8	2284.8	4826.8 ug/L	4826.8 ppb	07:38:36
1	Ca 317.933Radial†	1321.2	1333.0	5241.7 ug/L	5241.7 ppb	07:38:56
1	Fe 238.204 Radial†	183.6	179.5	5057.9 ug/L	5057.9 ppb	07:38:56
1	K 766.490 Radial†	13183.2	11255.3	5121.1 ug/L	5121.1 ppb	07:38:36
1	Mg 279.077 IEC†	54.4	53.8	5257.4 ug/L	5257.4 ppb	07:38:56
1	Na 589.592 Radial†	25623.8	26838.0	8889.8 ug/L	8889.8 ppb	07:38:36
1	Sr 421.552†	47472.7	48269.6	447.59 ug/L	447.59 ppb	07:38:36
1	Sc 361.383	868166.7	868166.7	106.59 %		07:39:53
1	Y 371.029	733622.3	733622.3	104.72 %		07:39:53
1	Ag 328.068†	100332.8	93918.4	491.81 ug/L	491.81 ppb	07:39:58
1	As 188.979†	892.0	854.3	497.21 ug/L	497.21 ppb	07:40:18
1	B 249.677†	17634.9	16737.0	474.92 ug/L	474.92 ppb	07:39:58
1	Ba 233.527†	54305.9	50945.5	491.24 ug/L	491.24 ppb	07:39:58
1	Be 313.107†	1166936.3	1098247.9	487.77 ug/L	487.77 ppb	07:39:53
1	Cd 226.502†	34849.6	32856.3	493.87 ug/L	493.87 ppb	07:39:58
1	Co 228.616†	19858.1	18672.7	500.87 ug/L	500.87 ppb	07:39:58
1	Cr 267.716†	38707.8	36238.5	489.39 ug/L	489.39 ppb	07:39:58
1	Cu 324.752†	162268.9	146254.7	482.15 ug/L	482.15 ppb	07:39:58
1	Mn 257.610†	383792.1	359661.1	486.53 ug/L	486.53 ppb	07:39:53
1	Mo 202.031†	5880.6	5509.8	492.89 ug/L	492.89 ppb	07:40:18
1	Ni 231.604†	16390.3	15307.0	499.50 ug/L	499.50 ppb	07:39:58
1	P 214.914†	3509.5	3114.8	2371.6 ug/L	2371.6 ppb	07:40:18
1	Pb 220.353†	3252.7	3094.6	497.99 ug/L	497.99 ppb	07:40:18
1	S 181.975 Axial†	606.6	542.3	994.99 ug/L	994.99 ppb	07:40:18
1	Sb 206.836†	1246.4	1140.6	507.66 ug/L	507.66 ppb	07:40:18
1	Se 196.026†	600.8	582.2	510.67 ug/L	510.67 ppb	07:40:18
1	Si 251.611†	68657.0	63871.6	2448.3 ug/L	2448.3 ppb	07:39:58
1	Sn 189.927†	2234.6	2089.2	491.13 ug/L	491.13 ppb	07:40:18
1	Ti 334.940†	290711.1	273745.3	479.16 ug/L	479.16 ppb	07:39:58
1	Tl 190.801†	1286.6	1230.4	496.96 ug/L	496.96 ppb	07:40:18
1	U 409.014†	15664.8	16746.1	498.58 ug/L	498.58 ppb	07:39:58
1	V 292.402†	63277.1	60600.6	494.27 ug/L	494.27 ppb	07:39:58
1	Zn 213.857†	42332.1	39205.8	486.61 ug/L	486.61 ppb	07:39:58
1	SiO2†	69254.7	64446.2	5258.5 ug/L	5258.5 ppb	07:41:26
2	Sc Radial	3330.4	3330.4	99.0 %		07:39:21
2	Y RADIAL	2698.5	2698.5	96.76 %		07:39:21
2	Al 396.153Radial†	2170.0	2260.9	4775.9 ug/L	4775.9 ppb	07:39:01
2	Ca 317.933Radial†	1309.4	1311.5	5156.9 ug/L	5156.9 ppb	07:39:21
2	Fe 238.204 Radial†	188.1	182.7	5146.3 ug/L	5146.3 ppb	07:39:21
2	K 766.490 Radial†	13220.7	11196.0	5094.2 ug/L	5094.2 ppb	07:39:01
2	Mg 279.077 IEC†	57.1	56.1	5486.8 ug/L	5486.8 ppb	07:39:21
2	Na 589.592 Radial†	25276.5	26298.3	8711.1 ug/L	8711.1 ppb	07:39:01
2	Sr 421.552†	47071.8	47514.7	440.59 ug/L	440.59 ppb	07:39:01
2	Sc 361.383	852317.8	852317.8	104.65 %		07:40:24
2	Y 371.029	720434.6	720434.6	102.84 %		07:40:24

2	Ag 328.068†	100115.7	95461.2	499.90 ug/L	499.90 ppb	07:40:29
2	As 188.979†	892.4	870.2	506.49 ug/L	506.49 ppb	07:40:49
2	B 249.677†	17590.8	17002.5	482.45 ug/L	482.45 ppb	07:40:29
2	Ba 233.527†	54234.4	51824.6	499.72 ug/L	499.72 ppb	07:40:29
2	Be 313.107†	1193789.6	1144266.4	508.18 ug/L	508.18 ppb	07:40:24
2	Cd 226.502†	34867.7	33481.6	503.27 ug/L	503.27 ppb	07:40:29
2	Co 228.616†	19834.1	18996.2	509.54 ug/L	509.54 ppb	07:40:29
2	Cr 267.716†	38817.2	37018.2	499.92 ug/L	499.92 ppb	07:40:29
2	Cu 324.752†	162203.3	149022.8	491.28 ug/L	491.28 ppb	07:40:29
2	Mn 257.610†	391827.7	374035.2	505.96 ug/L	505.96 ppb	07:40:24
2	Mo 202.031†	5839.5	5573.0	498.54 ug/L	498.54 ppb	07:40:49
2	Ni 231.604†	16369.9	15573.5	508.19 ug/L	508.19 ppb	07:40:29
2	P 214.914†	3509.8	3176.4	2418.5 ug/L	2418.5 ppb	07:40:49
2	Pb 220.353†	3216.9	3117.1	501.59 ug/L	501.59 ppb	07:40:49
2	S 181.975 Axial†	593.4	540.2	991.18 ug/L	991.18 ppb	07:40:49
2	Sb 206.836†	1238.7	1155.0	514.10 ug/L	514.10 ppb	07:40:49
2	Se 196.026†	598.9	590.9	518.26 ug/L	518.26 ppb	07:40:49
2	Si 251.611†	68561.0	64977.6	2490.7 ug/L	2490.7 ppb	07:40:29
2	Sn 189.927†	2232.0	2125.7	499.68 ug/L	499.68 ppb	07:40:49
2	Ti 334.940†	290864.7	278963.5	488.26 ug/L	488.26 ppb	07:40:29
2	Tl 190.801†	1281.2	1247.8	504.02 ug/L	504.02 ppb	07:40:49
2	U 409.014†	15703.1	17055.8	507.80 ug/L	507.80 ppb	07:40:29
2	V 292.402†	63270.7	61698.3	503.18 ug/L	503.18 ppb	07:40:29
2	Zn 213.857†	42289.4	39903.4	495.27 ug/L	495.27 ppb	07:40:29
2	SiO2†	68677.7	65102.9	5312.0 ug/L	5312.0 ppb	07:41:31
3	Sc Radial	3365.8	3365.8	100 %		07:39:46
3	Y RADIAL	2723.4	2723.4	97.66 %		07:39:46
3	Al 396.153Radial†	2143.1	2211.0	4669.7 ug/L	4669.7 ppb	07:39:26
3	Ca 317.933Radial†	1306.8	1295.0	5092.0 ug/L	5092.0 ppb	07:39:46
3	Fe 238.204 Radial†	186.7	179.3	5053.6 ug/L	5053.6 ppb	07:39:46
3	K 766.490 Radial†	13394.4	11229.4	5109.5 ug/L	5109.5 ppb	07:39:26
3	Mg 279.077 IEC†	51.5	49.9	4879.0 ug/L	4879.0 ppb	07:39:46
3	Na 589.592 Radial†	25457.7	26211.4	8682.3 ug/L	8682.3 ppb	07:39:26
3	Sr 421.552†	47117.7	47061.5	436.39 ug/L	436.39 ppb	07:39:26
3	Sc 361.383	843833.0	843833.0	103.60 %		07:40:55
3	Y 371.029	714114.8	714114.8	101.93 %		07:40:55
3	Ag 328.068†	99947.8	96261.2	504.05 ug/L	504.05 ppb	07:41:00
3	As 188.979†	882.5	869.2	505.91 ug/L	505.91 ppb	07:41:20
3	B 249.677†	17647.6	17226.4	488.83 ug/L	488.83 ppb	07:41:00
3	Ba 233.527†	54255.0	52365.5	504.93 ug/L	504.93 ppb	07:41:00
3	Be 313.107†	1183059.4	1145380.2	508.69 ug/L	508.69 ppb	07:40:55
3	Cd 226.502†	34856.6	33805.9	508.16 ug/L	508.16 ppb	07:41:00
3	Co 228.616†	19898.5	19249.0	516.32 ug/L	516.32 ppb	07:41:00
3	Cr 267.716†	38852.0	37424.8	505.41 ug/L	505.41 ppb	07:41:00
3	Cu 324.752†	162014.1	150398.7	495.81 ug/L	495.81 ppb	07:41:00
3	Mn 257.610†	388935.0	375008.2	507.29 ug/L	507.29 ppb	07:40:55
3	Mo 202.031†	5815.1	5605.7	501.45 ug/L	501.45 ppb	07:41:20
3	Ni 231.604†	16414.5	15773.8	514.73 ug/L	514.73 ppb	07:41:00
3	P 214.914†	3474.2	3175.7	2417.2 ug/L	2417.2 ppb	07:41:20
3	Pb 220.353†	3209.6	3141.0	505.41 ug/L	505.41 ppb	07:41:20
3	S 181.975 Axial†	588.3	541.0	992.64 ug/L	992.64 ppb	07:41:20
3	Sb 206.836†	1237.2	1165.4	518.62 ug/L	518.62 ppb	07:41:20
3	Se 196.026†	605.8	603.4	528.58 ug/L	528.58 ppb	07:41:20
3	Si 251.611†	68613.9	65687.4	2517.9 ug/L	2517.9 ppb	07:41:00
3	Sn 189.927†	2208.6	2124.6	499.40 ug/L	499.40 ppb	07:41:20
3	Ti 334.940†	290757.9	281655.3	493.01 ug/L	493.01 ppb	07:41:00
3	Tl 190.801†	1286.0	1264.7	510.83 ug/L	510.83 ppb	07:41:20
3	U 409.014†	15604.0	17111.2	509.45 ug/L	509.45 ppb	07:41:00
3	V 292.402†	63376.1	62408.0	508.93 ug/L	508.93 ppb	07:41:00
3	Zn 213.857†	42425.0	40440.7	501.97 ug/L	501.97 ppb	07:41:00
3	SiO2†	70016.9	67055.4	5471.7 ug/L	5471.7 ppb	07:41:36

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854772.5	104.95 %	1.516			1.44%
Sc Radial	3334.2	99.1 %	0.89			0.90%
Y 371.029	722723.9	103.16 %	1.421			1.38%
Y RADIAL	2699.4	96.80 %	0.845			0.87%
Ag 328.068†	95213.6	498.59 ug/L	6.225	498.59 ppb	6.225	1.25%

QC value within limits for Ag 328.068 Recovery = 99.72%

Al 396.153Radial† 2252.2 4757.5 ug/L 80.17 4757.5 ppb 80.17 1.69%

QC value within limits for Al 396.153Radial Recovery = 95.15%

As 188.979† 864.6 503.20 ug/L 5.198 503.20 ppb 5.198 1.03%

QC value within limits for As 188.979 Recovery = 100.64%

B 249.677† 16988.6 482.06 ug/L 6.962 482.06 ppb 6.962 1.44%

QC value within limits for B 249.677 Recovery = 96.41%

Ba 233.527† 51711.8 498.63 ug/L 6.910 498.63 ppb 6.910 1.39%

QC value within limits for Ba 233.527 Recovery = 99.73%

Be 313.107† 1129298.2 501.54 ug/L 11.934 501.54 ppb 11.934 2.38%

QC value within limits for Be 313.107 Recovery = 100.31%

Ca 317.933Radial† 1313.2 5163.6 ug/L 75.10 5163.6 ppb 75.10 1.45%

QC value within limits for Ca 317.933Radial Recovery = 103.27%

Cd 226.502† 33381.3 501.77 ug/L 7.262 501.77 ppb 7.262 1.45%

QC value within limits for Cd 226.502 Recovery = 100.35%

Co 228.616† 18972.7 508.91 ug/L 7.742 508.91 ppb 7.742 1.52%

QC value within limits for Co 228.616 Recovery = 101.78%

Cr 267.716† 36893.8 498.24 ug/L 8.139 498.24 ppb 8.139 1.63%

QC value within limits for Cr 267.716 Recovery = 99.65%

Cu 324.752† 148558.7 489.75 ug/L 6.955 489.75 ppb 6.955 1.42%

QC value within limits for Cu 324.752 Recovery = 97.95%

Fe 238.204 Radial† 180.5 5086.0 ug/L 52.34 5086.0 ppb 52.34 1.03%

QC value within limits for Fe 238.204 Radial Recovery = 101.72%

K 766.490 Radial† 11226.9 5108.3 ug/L 13.51 5108.3 ppb 13.51 0.26%

QC value within limits for K 766.490 Radial Recovery = 102.17%

Mg 279.077 IEC† 53.3 5207.7 ug/L 306.95 5207.7 ppb 306.95 5.89%

QC value within limits for Mg 279.077 IEC Recovery = 104.15%

Mn 257.610† 369568.2 499.93 ug/L 11.623 499.93 ppb 11.623 2.32%

QC value within limits for Mn 257.610 Recovery = 99.99%

Mo 202.031† 5562.8 497.63 ug/L 4.355 497.63 ppb 4.355 0.88%

QC value within limits for Mo 202.031 Recovery = 99.53%

Na 589.592 Radial† 26449.2 8761.1 ug/L 112.45 8761.1 ppb 112.45 1.28%

QC value less than the lower limit for Na 589.592 Radial Recovery = 87.61%

Ni 231.604† 15551.4 507.48 ug/L 7.641 507.48 ppb 7.641 1.51%

QC value within limits for Ni 231.604 Recovery = 101.50%

P 214.914† 3155.7 2402.4 ug/L 26.70 2402.4 ppb 26.70 1.11%

QC value within limits for P 214.914 Recovery = 96.10%

Pb 220.353† 3117.5 501.66 ug/L 3.713 501.66 ppb 3.713 0.74%

QC value within limits for Pb 220.353 Recovery = 100.33%

S 181.975 Axial† 541.2 992.94 ug/L 1.921 992.94 ppb 1.921 0.19%

QC value within limits for S 181.975 Axial Recovery = 99.29%

Sb 206.836† 1153.7 513.46 ug/L 5.511 513.46 ppb 5.511 1.07%

QC value within limits for Sb 206.836 Recovery = 102.69%

Se 196.026† 592.2 519.17 ug/L 8.990 519.17 ppb 8.990 1.73%

QC value within limits for Se 196.026 Recovery = 103.83%

Si 251.611† 64845.5 2485.6 ug/L 35.11 2485.6 ppb 35.11 1.41%

QC value within limits for Si 251.611 Recovery = 99.43%

Sn 189.927† 2113.2 496.74 ug/L 4.861 496.74 ppb 4.861 0.98%

QC value within limits for Sn 189.927 Recovery = 99.35%

Sr 421.552† 47615.3 441.52 ug/L 5.659 441.52 ppb 5.659 1.28%

QC value less than the lower limit for Sr 421.552 Recovery = 88.30%

Ti 334.940† 278121.4 486.81 ug/L 7.038 486.81 ppb 7.038 1.45%

QC value within limits for Ti 334.940 Recovery = 97.36%

Tl 190.801† 1247.6 503.94 ug/L 6.936 503.94 ppb 6.936 1.38%

QC value within limits for Tl 190.801 Recovery = 100.79%

U 409.014† 16971.0 505.28 ug/L 5.858 505.28 ppb 5.858 1.16%

QC value within limits for U 409.014 Recovery = 101.06%

V 292.402† 61569.0 502.13 ug/L 7.387 502.13 ppb 7.387 1.47%

QC value within limits for V 292.402 Recovery = 100.43%

Zn 213.857† 39850.0 494.62 ug/L 7.700 494.62 ppb 7.700 1.56%

QC value within limits for Zn 213.857 Recovery = 98.92%

SiO2† 65534.8 5347.4 ug/L 110.92 5347.4 ppb 110.92 2.07%

QC value within limits for SiO2 Recovery = 100.00%

QC Failed. Continue with analysis.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 07:43:46

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	3378.8	3378.8	100 %		07:45:59
1	Y RADIAL	2788.4	2788.4	99.99 %		07:45:59
1	Al 396.153Radial†	-72.5	-2.9	-6.0751 ug/L	-6.0751 ppb	07:45:59
1	Ca 317.933Radial†	7.4	-3.6	-14.115 ug/L	-14.115 ppb	07:45:59
1	Fe 238.204 Radial†	8.9	1.5	43.118 ug/L	43.118 ppb	07:45:59
1	K 766.490 Radial†	2130.9	-34.8	-15.839 ug/L	-15.839 ppb	07:45:39
1	Mg 279.077 IEC†	0.1	-1.4	-139.59 ug/L	-139.59 ppb	07:45:59
1	Na 589.592 Radial†	-739.6	34.5	11.437 ug/L	11.437 ppb	07:45:39
1	Sr 421.552†	49.6	24.9	0.2309 ug/L	0.2309 ppb	07:45:39
1	Sc 361.383	832363.1	832363.1	102.20 %		07:46:56
1	Y 371.029	713853.7	713853.7	101.90 %		07:46:56
1	Ag 328.068†	111.1	-101.2	-0.5173 ug/L	-0.5173 ppb	07:46:56
1	As 188.979†	-20.5	-2.6	-1.4947 ug/L	-1.4947 ppb	07:47:16
1	B 249.677†	-202.6	-5.6	-0.1677 ug/L	-0.1677 ppb	07:47:16
1	Ba 233.527†	8.5	6.1	0.0604 ug/L	0.0604 ppb	07:47:16
1	Be 313.107†	-3539.2	10.6	0.0047 ug/L	0.0047 ppb	07:46:56
1	Cd 226.502†	-155.2	9.9	0.1454 ug/L	0.1454 ppb	07:47:16
1	Co 228.616†	-40.1	3.4	0.0916 ug/L	0.0916 ppb	07:47:16
1	Cr 267.716†	52.7	-24.2	-0.3262 ug/L	-0.3262 ppb	07:47:16
1	Cu 324.752†	5972.9	-135.1	-0.4459 ug/L	-0.4459 ppb	07:46:56
1	Mn 257.610†	399.7	-6.6	0.0011 ug/L	0.0011 ppb	07:47:16
1	Mo 202.031†	10.5	3.1	0.2832 ug/L	0.2832 ppb	07:47:16
1	Ni 231.604†	61.6	-9.4	-0.3077 ug/L	-0.3077 ppb	07:47:16
1	P 214.914†	164.6	-16.5	-13.029 ug/L	-13.029 ppb	07:47:16
1	Pb 220.353†	-47.9	-3.8	-0.6208 ug/L	-0.6208 ppb	07:47:16
1	S 181.975 Axial†	27.5	0.0	0.0802 ug/L	0.0802 ppb	07:47:16
1	Sb 206.836†	30.1	0.7	0.2874 ug/L	0.2874 ppb	07:47:16
1	Se 196.026†	-13.1	5.8	5.0798 ug/L	5.0798 ppb	07:47:16
1	Si 251.611†	460.3	-89.4	-3.4377 ug/L	-3.4377 ppb	07:47:16
1	Sn 189.927†	4.8	-2.5	-0.5904 ug/L	-0.5904 ppb	07:47:16
1	Ti 334.940†	-1020.1	13.3	0.0307 ug/L	0.0307 ppb	07:46:56
1	Tl 190.801†	-18.1	5.7	2.2834 ug/L	2.2834 ppb	07:47:16
1	U 409.014†	-1921.3	169.9	5.0698 ug/L	5.0698 ppb	07:46:56
1	V 292.402†	-1266.6	-3.0	-0.0190 ug/L	-0.0190 ppb	07:46:56
1	Zn 213.857†	523.6	3.8	0.0436 ug/L	0.0436 ppb	07:47:16
1	SiO2†	477.7	-58.5	-4.7898 ug/L	-4.7898 ppb	07:48:27
2	Sc Radial	3390.0	3390.0	101 %		07:46:24
2	Y RADIAL	2779.1	2779.1	99.65 %		07:46:24
2	Al 396.153Radial†	-65.1	4.8	10.132 ug/L	10.132 ppb	07:46:24
2	Ca 317.933Radial†	11.7	0.6	2.3438 ug/L	2.3438 ppb	07:46:24
2	Fe 238.204 Radial†	6.8	-0.6	-15.709 ug/L	-15.709 ppb	07:46:24
2	K 766.490 Radial†	2268.4	94.7	43.130 ug/L	43.130 ppb	07:46:04
2	Mg 279.077 IEC†	1.1	-0.5	-44.935 ug/L	-44.935 ppb	07:46:24
2	Na 589.592 Radial†	-840.7	-63.3	-20.964 ug/L	-20.964 ppb	07:46:04
2	Sr 421.552†	10.9	-13.7	-0.1275 ug/L	-0.1275 ppb	07:46:04
2	Sc 361.383	844429.9	844429.9	103.68 %		07:47:21
2	Y 371.029	724444.2	724444.2	103.41 %		07:47:21
2	Ag 328.068†	96.6	-116.7	-0.6123 ug/L	-0.6123 ppb	07:47:21
2	As 188.979†	-25.6	-7.2	-4.1719 ug/L	-4.1719 ppb	07:47:41
2	B 249.677†	-231.7	-30.9	-0.8765 ug/L	-0.8765 ppb	07:47:41
2	Ba 233.527†	-3.5	-5.5	-0.0521 ug/L	-0.0521 ppb	07:47:41
2	Be 313.107†	-3572.9	27.6	0.0125 ug/L	0.0125 ppb	07:47:21
2	Cd 226.502†	-154.2	13.1	0.1996 ug/L	0.1996 ppb	07:47:41
2	Co 228.616†	-54.9	-10.4	-0.2771 ug/L	-0.2771 ppb	07:47:41
2	Cr 267.716†	62.5	-15.5	-0.2096 ug/L	-0.2096 ppb	07:47:41
2	Cu 324.752†	5979.0	-212.8	-0.7044 ug/L	-0.7044 ppb	07:47:21
2	Mn 257.610†	390.2	-21.3	-0.0285 ug/L	-0.0285 ppb	07:47:41
2	Mo 202.031†	11.1	3.5	0.3118 ug/L	0.3118 ppb	07:47:41
2	Ni 231.604†	73.5	1.2	0.0386 ug/L	0.0386 ppb	07:47:41

2	P 214.914†	170.4	-13.2	-10.304 ug/L	-10.304 ppb	07:47:41
2	Pb 220.353†	-42.3	2.2	0.3581 ug/L	0.3581 ppb	07:47:41
2	S 181.975 Axial†	33.6	5.6	10.268 ug/L	10.268 ppb	07:47:41
2	Sb 206.836†	27.5	-2.2	-0.9068 ug/L	-0.9068 ppb	07:47:41
2	Se 196.026†	-17.0	2.2	1.8252 ug/L	1.8252 ppb	07:47:41
2	Si 251.611†	480.7	-76.1	-2.9271 ug/L	-2.9271 ppb	07:47:41
2	Sn 189.927†	13.4	5.8	1.3539 ug/L	1.3539 ppb	07:47:41
2	Ti 334.940†	-981.3	64.9	0.1161 ug/L	0.1161 ppb	07:47:21
2	Tl 190.801†	-15.5	8.5	3.4186 ug/L	3.4186 ppb	07:47:41
2	U 409.014†	-1993.2	127.4	3.8075 ug/L	3.8075 ppb	07:47:21
2	V 292.402†	-1185.9	92.6	0.7586 ug/L	0.7586 ppb	07:47:21
2	Zn 213.857†	528.6	1.3	0.0197 ug/L	0.0197 ppb	07:47:41
2	SiO2†	471.7	-71.0	-5.8147 ug/L	-5.8147 ppb	07:48:47
3	Sc Radial	3404.7	3404.7	101 %		07:46:49
3	Y RADIAL	2793.1	2793.1	100.2 %		07:46:49
3	Al 396.153Radial†	-71.7	-1.5	-3.2614 ug/L	-3.2614 ppb	07:46:49
3	Ca 317.933Radial†	8.5	-2.6	-10.287 ug/L	-10.287 ppb	07:46:49
3	Fe 238.204 Radial†	7.2	-0.2	-4.8463 ug/L	-4.8463 ppb	07:46:49
3	K 766.490 Radial†	2155.8	-26.4	-11.996 ug/L	-11.996 ppb	07:46:29
3	Mg 279.077 IEC†	0.7	-0.9	-85.636 ug/L	-85.636 ppb	07:46:49
3	Na 589.592 Radial†	-837.7	-56.8	-18.816 ug/L	-18.816 ppb	07:46:29
3	Sr 421.552†	9.0	-15.6	-0.1448 ug/L	-0.1448 ppb	07:46:29
3	Sc 361.383	837802.4	837802.4	102.86 %		07:47:47
3	Y 371.029	718279.7	718279.7	102.53 %		07:47:47
3	Ag 328.068†	99.4	-113.3	-0.5944 ug/L	-0.5944 ppb	07:47:47
3	As 188.979†	-19.3	-1.3	-0.7686 ug/L	-0.7686 ppb	07:48:07
3	B 249.677†	-254.0	-54.3	-1.5480 ug/L	-1.5480 ppb	07:48:07
3	Ba 233.527†	-9.6	-11.5	-0.1103 ug/L	-0.1103 ppb	07:48:07
3	Be 313.107†	-3521.1	50.7	0.0225 ug/L	0.0225 ppb	07:47:47
3	Cd 226.502†	-157.4	8.8	0.1331 ug/L	0.1331 ppb	07:48:07
3	Co 228.616†	-37.3	6.4	0.1727 ug/L	0.1727 ppb	07:48:07
3	Cr 267.716†	59.3	-18.1	-0.2460 ug/L	-0.2460 ppb	07:48:07
3	Cu 324.752†	6023.4	-123.9	-0.4119 ug/L	-0.4119 ppb	07:47:47
3	Mn 257.610†	367.0	-40.9	-0.0522 ug/L	-0.0522 ppb	07:48:07
3	Mo 202.031†	18.4	10.7	0.9591 ug/L	0.9591 ppb	07:48:07
3	Ni 231.604†	50.8	-20.3	-0.6629 ug/L	-0.6629 ppb	07:48:07
3	P 214.914†	181.8	-0.9	-0.6338 ug/L	-0.6338 ppb	07:48:07
3	Pb 220.353†	-45.9	-1.6	-0.2515 ug/L	-0.2515 ppb	07:48:07
3	S 181.975 Axial†	23.1	-4.4	-8.0341 ug/L	-8.0341 ppb	07:48:07
3	Sb 206.836†	23.9	-5.5	-2.3801 ug/L	-2.3801 ppb	07:48:07
3	Se 196.026†	-16.2	2.9	2.4131 ug/L	2.4131 ppb	07:48:07
3	Si 251.611†	471.5	-81.4	-3.1397 ug/L	-3.1397 ppb	07:48:07
3	Sn 189.927†	-1.6	-8.7	-2.0557 ug/L	-2.0557 ppb	07:48:07
3	Ti 334.940†	-1031.8	8.4	0.0179 ug/L	0.0179 ppb	07:47:47
3	Tl 190.801†	-29.5	-5.3	-2.1085 ug/L	-2.1085 ppb	07:48:07
3	U 409.014†	-1915.3	187.9	5.6146 ug/L	5.6146 ppb	07:47:47
3	V 292.402†	-1239.0	32.0	0.2806 ug/L	0.2806 ppb	07:47:47
3	Zn 213.857†	506.7	-16.0	-0.1947 ug/L	-0.1947 ppb	07:48:07
3	SiO2†	483.8	-55.6	-4.5726 ug/L	-4.5726 ppb	07:49:07

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838198.5	102.91 %		0.742			0.72%
Sc Radial	3391.2	101 %		0.4			0.38%
Y 371.029	718859.2	102.61 %		0.759			0.74%
Y RADIAL	2786.9	99.93 %		0.257			0.26%
Ag 328.068†	-110.4	-0.5747 ug/L		0.05049	-0.5747 ppb	0.05049	8.79%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.1	0.2651 ug/L		8.65992	0.2651 ppb	8.65992	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.7	-2.1451 ug/L		1.79249	-2.1451 ppb	1.79249	83.56%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-30.3	-0.8641 ug/L		0.69023	-0.8641 ppb	0.69023	79.88%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-3.6	-0.0340 ug/L		0.08678	-0.0340 ppb	0.08678	255.17%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	29.6	0.0132 ug/L		0.00890	0.0132 ppb	0.00890	67.18%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.9	-7.3528 ug/L		8.61276	-7.3528 ppb	8.61276	117.14%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	10.6	0.1594 ug/L	0.03538	0.1594 ppb	0.03538	22.20%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.2	-0.0042 ug/L	0.23975	-0.0042 ppb	0.23975	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-19.2	-0.2606 ug/L	0.05967	-0.2606 ppb	0.05967	22.90%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-157.3	-0.5207 ug/L	0.15998	-0.5207 ppb	0.15998	30.72%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.3	7.5206 ug/L	31.30271	7.5206 ppb	31.30271	416.23%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	11.2	5.0982 ug/L	32.99236	5.0982 ppb	32.99236	647.13%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.9	-90.054 ug/L	47.4817	-90.054 ppb	47.4817	52.73%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-22.9	-0.0265 ug/L	0.02673	-0.0265 ppb	0.02673	100.67%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	5.8	0.5181 ug/L	0.38225	0.5181 ppb	0.38225	73.78%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-28.5	-9.4480 ug/L	18.11839	-9.4480 ppb	18.11839	191.77%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-9.5	-0.3107 ug/L	0.35077	-0.3107 ppb	0.35077	112.91%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.2	-7.9887 ug/L	6.51364	-7.9887 ppb	6.51364	81.54%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-1.1	-0.1714 ug/L	0.49434	-0.1714 ppb	0.49434	288.39%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.4	0.7715 ug/L	9.17081	0.7715 ppb	9.17081	>999.9%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-2.3	-0.9998 ug/L	1.33621	-0.9998 ppb	1.33621	133.64%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.6	3.1060 ug/L	1.73439	3.1060 ppb	1.73439	55.84%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-82.3	-3.1682 ug/L	0.25649	-3.1682 ppb	0.25649	8.10%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.8	-0.4307 ug/L	1.71044	-0.4307 ppb	1.71044	397.09%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1.5	-0.0138 ug/L	0.21207	-0.0138 ppb	0.21207	>999.9%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	28.9	0.0549 ug/L	0.05337	0.0549 ppb	0.05337	97.25%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.0	1.1978 ug/L	2.91911	1.1978 ppb	2.91911	243.70%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	161.7	4.8306 ug/L	0.92701	4.8306 ppb	0.92701	19.19%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	40.6	0.3401 ug/L	0.39220	0.3401 ppb	0.39220	115.32%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-3.6	-0.0438 ug/L	0.13120	-0.0438 ppb	0.13120	299.54%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-61.7	-5.0590 ug/L	0.66340	-5.0590 ppb	0.66340	13.11%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 08:39:49

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	3241.6	3241.6	96.4 %		08:42:01
1	Y RADIAL	2637.8	2637.8	94.59 %		08:42:01
1	Al 396.153Radial†	2254.6	2408.8	5089.3 ug/L	5089.3 ppb	08:41:41
1	Ca 317.933Radial†	1316.1	1354.6	5326.5 ug/L	5326.5 ppb	08:42:01
1	Fe 238.204 Radial†	194.1	194.2	5469.8 ug/L	5469.8 ppb	08:42:01
1	K 766.490 Radial†	13051.4	11386.3	5180.3 ug/L	5180.3 ppb	08:41:41
1	Mg 279.077 IEC†	57.3	57.9	5659.4 ug/L	5659.4 ppb	08:42:01
1	Na 589.592 Radial†	28742.0	30593.9	10134 ug/L	10134 ppb	08:41:41
1	Sr 421.552†	51222.6	53124.7	492.62 ug/L	492.62 ppb	08:41:41
1	Sc 361.383	836233.7	836233.7	102.67 %		08:42:58
1	Y 371.029	709196.6	709196.6	101.23 %		08:42:58
1	Ag 328.068†	100621.3	97793.8	512.18 ug/L	512.18 ppb	08:43:03
1	As 188.979†	892.2	886.4	515.95 ug/L	515.95 ppb	08:43:24
1	B 249.677†	17594.2	17329.1	491.67 ug/L	491.67 ppb	08:43:03
1	Ba 233.527†	54363.5	52947.1	510.55 ug/L	510.55 ppb	08:43:03
1	Be 313.107†	1179272.8	1152069.2	511.66 ug/L	511.66 ppb	08:42:58
1	Cd 226.502†	35068.3	34317.9	515.82 ug/L	515.82 ppb	08:43:03
1	Co 228.616†	19930.1	19454.3	521.83 ug/L	521.83 ppb	08:43:03
1	Cr 267.716†	39128.1	38034.5	513.65 ug/L	513.65 ppb	08:43:03
1	Cu 324.752†	162761.5	152547.8	502.91 ug/L	502.91 ppb	08:43:03
1	Mn 257.610†	385990.0	375551.3	508.04 ug/L	508.04 ppb	08:42:58
1	Mo 202.031†	5858.5	5698.9	509.82 ug/L	509.82 ppb	08:43:24
1	Ni 231.604†	16501.4	16002.5	522.20 ug/L	522.20 ppb	08:43:03
1	P 214.914†	3481.2	3213.0	2445.1 ug/L	2445.1 ppb	08:43:24
1	Pb 220.353†	3221.0	3180.2	511.76 ug/L	511.76 ppb	08:43:24
1	S 181.975 Axial†	589.7	547.6	1004.7 ug/L	1004.7 ppb	08:43:24
1	Sb 206.836†	1228.3	1167.6	519.85 ug/L	519.85 ppb	08:43:24
1	Se 196.026†	608.4	611.2	536.52 ug/L	536.52 ppb	08:43:24
1	Si 251.611†	68903.5	66571.3	2551.8 ug/L	2551.8 ppb	08:43:03
1	Sn 189.927†	2218.4	2153.5	506.21 ug/L	506.21 ppb	08:43:24
1	Ti 334.940†	291211.5	284647.5	498.21 ug/L	498.21 ppb	08:43:03
1	Tl 190.801†	1280.3	1270.5	513.14 ug/L	513.14 ppb	08:43:24
1	U 409.014†	15720.8	17361.7	516.87 ug/L	516.87 ppb	08:43:03
1	V 292.402†	63701.7	63281.0	516.03 ug/L	516.03 ppb	08:43:03
1	Zn 213.857†	42608.1	40991.1	508.74 ug/L	508.74 ppb	08:43:03
1	SiO2†	68977.0	66656.7	5438.8 ug/L	5438.8 ppb	08:44:31
2	Sc Radial	3319.0	3319.0	98.7 %		08:42:26
2	Y RADIAL	2706.8	2706.8	97.06 %		08:42:26
2	Al 396.153Radial†	2267.6	2367.4	5001.4 ug/L	5001.4 ppb	08:42:06
2	Ca 317.933Radial†	1311.1	1317.7	5181.5 ug/L	5181.5 ppb	08:42:26
2	Fe 238.204 Radial†	194.4	189.7	5344.4 ug/L	5344.4 ppb	08:42:26
2	K 766.490 Radial†	13019.7	11038.2	5021.8 ug/L	5021.8 ppb	08:42:06
2	Mg 279.077 IEC†	52.4	51.5	5035.2 ug/L	5035.2 ppb	08:42:26
2	Na 589.592 Radial†	28840.3	29997.7	9936.5 ug/L	9936.5 ppb	08:42:06
2	Sr 421.552†	51393.2	52057.6	482.72 ug/L	482.72 ppb	08:42:06
2	Sc 361.383	837272.5	837272.5	102.80 %		08:43:29
2	Y 371.029	709278.9	709278.9	101.24 %		08:43:29
2	Ag 328.068†	99750.9	96825.6	507.08 ug/L	507.08 ppb	08:43:34
2	As 188.979†	885.9	879.2	511.73 ug/L	511.73 ppb	08:43:55
2	B 249.677†	17438.7	17156.6	486.79 ug/L	486.79 ppb	08:43:34
2	Ba 233.527†	53817.4	52350.2	504.80 ug/L	504.80 ppb	08:43:34
2	Be 313.107†	1173595.3	1145121.3	508.57 ug/L	508.57 ppb	08:43:29
2	Cd 226.502†	34749.9	33965.8	510.53 ug/L	510.53 ppb	08:43:34
2	Co 228.616†	19695.8	19202.3	515.08 ug/L	515.08 ppb	08:43:34
2	Cr 267.716†	38830.8	37698.0	509.10 ug/L	509.10 ppb	08:43:34
2	Cu 324.752†	161166.4	150799.4	497.14 ug/L	497.14 ppb	08:43:34
2	Mn 257.610†	385449.8	374559.4	506.71 ug/L	506.71 ppb	08:43:29
2	Mo 202.031†	5857.8	5691.2	509.12 ug/L	509.12 ppb	08:43:55
2	Ni 231.604†	16377.8	15862.2	517.62 ug/L	517.62 ppb	08:43:34

2	P 214.914†	3463.8	3191.9	2429.6 ug/L	2429.6 ppb	08:43:55
2	Pb 220.353†	3243.1	3197.8	514.58 ug/L	514.58 ppb	08:43:55
2	S 181.975 Axial†	587.5	544.7	999.36 ug/L	999.36 ppb	08:43:55
2	Sb 206.836†	1215.9	1154.1	513.93 ug/L	513.93 ppb	08:43:55
2	Se 196.026†	600.2	602.5	528.78 ug/L	528.78 ppb	08:43:55
2	Si 251.611†	68095.2	65701.7	2518.4 ug/L	2518.4 ppb	08:43:34
2	Sn 189.927†	2193.1	2126.2	499.78 ug/L	499.78 ppb	08:43:55
2	Ti 334.940†	288720.4	281872.3	493.39 ug/L	493.39 ppb	08:43:34
2	Tl 190.801†	1262.2	1251.3	505.43 ug/L	505.43 ppb	08:43:55
2	U 409.014†	15586.8	17212.4	512.43 ug/L	512.43 ppb	08:43:34
2	V 292.402†	63144.4	62661.9	511.05 ug/L	511.05 ppb	08:43:34
2	Zn 213.857†	42146.9	40491.0	502.53 ug/L	502.53 ppb	08:43:34
2	SiO2†	68142.2	65761.3	5365.6 ug/L	5365.6 ppb	08:44:36
3	Sc Radial	3280.0	3280.0	97.5 %		08:42:51
3	Y RADIAL	2690.7	2690.7	96.49 %		08:42:51
3	Al 396.153Radial†	2217.1	2342.9	4949.7 ug/L	4949.7 ppb	08:42:31
3	Ca 317.933Radial†	1297.0	1319.1	5187.0 ug/L	5187.0 ppb	08:42:51
3	Fe 238.204 Radial†	194.2	191.9	5406.1 ug/L	5406.1 ppb	08:42:51
3	K 766.490 Radial†	12994.0	11169.0	5081.5 ug/L	5081.5 ppb	08:42:31
3	Mg 279.077 IEC†	52.8	52.6	5139.2 ug/L	5139.2 ppb	08:42:51
3	Na 589.592 Radial†	28262.3	29753.1	9855.4 ug/L	9855.4 ppb	08:42:31
3	Sr 421.552†	50532.2	51794.9	480.29 ug/L	480.29 ppb	08:42:31
3	Sc 361.383	842894.5	842894.5	103.49 %		08:44:00
3	Y 371.029	714517.6	714517.6	101.99 %		08:44:00
3	Ag 328.068†	100740.1	97134.2	508.71 ug/L	508.71 ppb	08:44:05
3	As 188.979†	889.7	877.1	510.56 ug/L	510.56 ppb	08:44:26
3	B 249.677†	17782.4	17375.6	493.02 ug/L	493.02 ppb	08:44:05
3	Ba 233.527†	54108.7	52282.4	504.15 ug/L	504.15 ppb	08:44:05
3	Be 313.107†	1179933.3	1143631.0	507.91 ug/L	507.91 ppb	08:44:00
3	Cd 226.502†	34813.1	33801.4	508.05 ug/L	508.05 ppb	08:44:05
3	Co 228.616†	19836.5	19210.4	515.28 ug/L	515.28 ppb	08:44:05
3	Cr 267.716†	39031.6	37640.1	508.33 ug/L	508.33 ppb	08:44:05
3	Cu 324.752†	163422.0	151933.3	500.88 ug/L	500.88 ppb	08:44:05
3	Mn 257.610†	386159.1	372743.8	504.26 ug/L	504.26 ppb	08:44:00
3	Mo 202.031†	5836.2	5632.3	503.86 ug/L	503.86 ppb	08:44:26
3	Ni 231.604†	16381.4	15759.5	514.26 ug/L	514.26 ppb	08:44:05
3	P 214.914†	3467.3	3172.7	2413.6 ug/L	2413.6 ppb	08:44:26
3	Pb 220.353†	3205.4	3140.3	505.33 ug/L	505.33 ppb	08:44:26
3	S 181.975 Axial†	587.4	540.8	992.19 ug/L	992.19 ppb	08:44:26
3	Sb 206.836†	1215.1	1145.4	510.04 ug/L	510.04 ppb	08:44:26
3	Se 196.026†	590.4	589.1	517.55 ug/L	517.55 ppb	08:44:26
3	Si 251.611†	68736.6	65879.7	2525.3 ug/L	2525.3 ppb	08:44:05
3	Sn 189.927†	2196.7	2115.4	497.26 ug/L	497.26 ppb	08:44:26
3	Ti 334.940†	291088.8	282287.6	494.10 ug/L	494.10 ppb	08:44:05
3	Tl 190.801†	1270.1	1250.7	505.21 ug/L	505.21 ppb	08:44:26
3	U 409.014†	15717.5	17237.6	513.18 ug/L	513.18 ppb	08:44:05
3	V 292.402†	63653.1	62743.8	511.63 ug/L	511.63 ppb	08:44:05
3	Zn 213.857†	42522.3	40580.3	503.66 ug/L	503.66 ppb	08:44:05
3	SiO2†	69271.2	66410.1	5418.8 ug/L	5418.8 ppb	08:44:41

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838800.2	102.99 %	0.440			0.43%
Sc Radial	3280.2	97.5 %	1.15			1.18%
Y 371.029	710997.7	101.49 %	0.435			0.43%
Y RADIAL	2678.4	96.05 %	1.295			1.35%
Ag 328.068†	97251.2	509.32 ug/L	2.601	509.32 ppb	2.601	0.51%
QC value within limits for Ag 328.068 Recovery = 101.86%						
Al 396.153Radial†	2373.0	5013.5 ug/L	70.58	5013.5 ppb	70.58	1.41%
QC value within limits for Al 396.153Radial Recovery = 100.27%						
As 188.979†	880.9	512.75 ug/L	2.833	512.75 ppb	2.833	0.55%
QC value within limits for As 188.979 Recovery = 102.55%						
B 249.677†	17287.1	490.50 ug/L	3.278	490.50 ppb	3.278	0.67%
QC value within limits for B 249.677 Recovery = 98.10%						
Ba 233.527†	52526.6	506.50 ug/L	3.525	506.50 ppb	3.525	0.70%
QC value within limits for Ba 233.527 Recovery = 101.30%						
Be 313.107†	1146940.5	509.38 ug/L	2.001	509.38 ppb	2.001	0.39%
QC value within limits for Be 313.107 Recovery = 101.88%						
Ca 317.933Radial†	1330.5	5231.6 ug/L	82.15	5231.6 ppb	82.15	1.57%



QC value within limits for Ca 317.933 Radial Recovery = 104.63%							
Cd 226.502†	34028.3	511.47 ug/L	3.966	511.47 ppb	3.966	0.78%	
QC value within limits for Cd 226.502 Recovery = 102.29%							
Co 228.616†	19289.0	517.39 ug/L	3.840	517.39 ppb	3.840	0.74%	
QC value within limits for Co 228.616 Recovery = 103.48%							
Cr 267.716†	37790.9	510.36 ug/L	2.877	510.36 ppb	2.877	0.56%	
QC value within limits for Cr 267.716 Recovery = 102.07%							
Cu 324.752†	151760.2	500.31 ug/L	2.926	500.31 ppb	2.926	0.58%	
QC value within limits for Cu 324.752 Recovery = 100.06%							
Fe 238.204 Radial†	191.9	5406.8 ug/L	62.71	5406.8 ppb	62.71	1.16%	
QC value within limits for Fe 238.204 Radial Recovery = 108.14%							
K 766.490 Radial†	11197.8	5094.5 ug/L	80.03	5094.5 ppb	80.03	1.57%	
QC value within limits for K 766.490 Radial Recovery = 101.89%							
Mg 279.077 IEC†	54.0	5277.9 ug/L	334.43	5277.9 ppb	334.43	6.34%	
QC value within limits for Mg 279.077 IEC Recovery = 105.56%							
Mn 257.610†	374284.8	506.33 ug/L	1.918	506.33 ppb	1.918	0.38%	
QC value within limits for Mn 257.610 Recovery = 101.27%							
Mo 202.031†	5674.1	507.60 ug/L	3.257	507.60 ppb	3.257	0.64%	
QC value within limits for Mo 202.031 Recovery = 101.52%							
Na 589.592 Radial†	30114.9	9975.3 ug/L	143.26	9975.3 ppb	143.26	1.44%	
QC value within limits for Na 589.592 Radial Recovery = 99.75%							
Ni 231.604†	15874.7	518.03 ug/L	3.981	518.03 ppb	3.981	0.77%	
QC value within limits for Ni 231.604 Recovery = 103.61%							
P 214.914†	3192.6	2429.4 ug/L	15.78	2429.4 ppb	15.78	0.65%	
QC value within limits for P 214.914 Recovery = 97.18%							
Pb 220.353†	3172.8	510.56 ug/L	4.744	510.56 ppb	4.744	0.93%	
QC value within limits for Pb 220.353 Recovery = 102.11%							
S 181.975 Axial†	544.3	998.73 ug/L	6.257	998.73 ppb	6.257	0.63%	
QC value within limits for S 181.975 Axial Recovery = 99.87%							
Sb 206.836†	1155.7	514.61 ug/L	4.940	514.61 ppb	4.940	0.96%	
QC value within limits for Sb 206.836 Recovery = 102.92%							
Se 196.026†	601.0	527.61 ug/L	9.541	527.61 ppb	9.541	1.81%	
QC value within limits for Se 196.026 Recovery = 105.52%							
Si 251.611†	66050.9	2531.8 ug/L	17.63	2531.8 ppb	17.63	0.70%	
QC value within limits for Si 251.611 Recovery = 101.27%							
Sn 189.927†	2131.7	501.08 ug/L	4.616	501.08 ppb	4.616	0.92%	
QC value within limits for Sn 189.927 Recovery = 100.22%							
Sr 421.552†	52325.8	485.21 ug/L	6.531	485.21 ppb	6.531	1.35%	
QC value within limits for Sr 421.552 Recovery = 97.04%							
Ti 334.940†	282935.8	495.23 ug/L	2.602	495.23 ppb	2.602	0.53%	
QC value within limits for Ti 334.940 Recovery = 99.05%							
Tl 190.801†	1257.5	507.93 ug/L	4.518	507.93 ppb	4.518	0.89%	
QC value within limits for Tl 190.801 Recovery = 101.59%							
U 409.014†	17270.6	514.16 ug/L	2.375	514.16 ppb	2.375	0.46%	
QC value within limits for U 409.014 Recovery = 102.83%							
V 292.402†	62895.6	512.90 ug/L	2.728	512.90 ppb	2.728	0.53%	
QC value within limits for V 292.402 Recovery = 102.58%							
Zn 213.857†	40687.5	504.98 ug/L	3.309	504.98 ppb	3.309	0.66%	
QC value within limits for Zn 213.857 Recovery = 101.00%							
SiO2†	66276.0	5407.8 ug/L	37.85	5407.8 ppb	37.85	0.70%	
QC value within limits for SiO2 Recovery = 101.13%							
All analyte(s) passed QC.							

Sequence No.: 11

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 08:46:52

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	3375.6	3375.6	100 %		08:49:04
1	Y RADIAL	2774.0	2774.0	99.47 %		08:49:04
1	Al 396.153Radial†	-65.1	4.5	9.5929 ug/L	9.5929 ppb	08:49:04
1	Ca 317.933Radial†	8.0	-3.0	-11.976 ug/L	-11.976 ppb	08:49:04
1	Fe 238.204 Radial†	8.2	0.9	24.012 ug/L	24.012 ppb	08:49:04
1	K 766.490 Radial†	2061.2	-102.2	-46.533 ug/L	-46.533 ppb	08:48:44
1	Mg 279.077 IEC†	-0.9	-2.5	-240.16 ug/L	-240.16 ppb	08:49:04
1	Na 589.592 Radial†	-901.0	-127.0	-42.072 ug/L	-42.072 ppb	08:48:44
1	Sr 421.552†	30.2	5.6	0.0519 ug/L	0.0519 ppb	08:48:44
1	Sc 361.383	835116.5	835116.5	102.53 %		08:50:01
1	Y 371.029	717106.9	717106.9	102.36 %		08:50:01
1	Ag 328.068†	213.9	-1.3	-0.0009 ug/L	-0.0009 ppb	08:50:01
1	As 188.979†	-19.1	-1.2	-0.6798 ug/L	-0.6798 ppb	08:50:21
1	B 249.677†	-276.1	-76.7	-2.1905 ug/L	-2.1905 ppb	08:50:21
1	Ba 233.527†	9.9	7.4	0.0721 ug/L	0.0721 ppb	08:50:21
1	Be 313.107†	-3527.1	33.9	0.0151 ug/L	0.0151 ppb	08:50:01
1	Cd 226.502†	-157.4	8.4	0.1234 ug/L	0.1234 ppb	08:50:21
1	Co 228.616†	-34.3	9.2	0.2456 ug/L	0.2456 ppb	08:50:21
1	Cr 267.716†	55.7	-21.4	-0.2880 ug/L	-0.2880 ppb	08:50:21
1	Cu 324.752†	6033.6	-95.2	-0.3135 ug/L	-0.3135 ppb	08:50:01
1	Mn 257.610†	389.3	-18.0	-0.0121 ug/L	-0.0121 ppb	08:50:21
1	Mo 202.031†	7.5	0.2	0.0167 ug/L	0.0167 ppb	08:50:21
1	Ni 231.604†	64.2	-7.1	-0.2311 ug/L	-0.2311 ppb	08:50:21
1	P 214.914†	172.2	-9.7	-7.6224 ug/L	-7.6224 ppb	08:50:21
1	Pb 220.353†	-47.7	-3.5	-0.5707 ug/L	-0.5707 ppb	08:50:21
1	S 181.975 Axial†	30.1	2.5	4.6451 ug/L	4.6451 ppb	08:50:21
1	Sb 206.836†	16.4	-12.7	-5.4785 ug/L	-5.4785 ppb	08:50:21
1	Se 196.026†	-20.3	-1.2	-0.9263 ug/L	-0.9263 ppb	08:50:21
1	Si 251.611†	461.7	-89.4	-3.4368 ug/L	-3.4368 ppb	08:50:21
1	Sn 189.927†	3.5	-3.8	-0.8944 ug/L	-0.8944 ppb	08:50:21
1	Ti 334.940†	-1007.5	28.9	0.0678 ug/L	0.0678 ppb	08:50:01
1	Tl 190.801†	-24.7	-0.6	-0.2428 ug/L	-0.2428 ppb	08:50:21
1	U 409.014†	-2038.2	62.0	1.8509 ug/L	1.8509 ppb	08:50:01
1	V 292.402†	-1273.6	-5.6	-0.0496 ug/L	-0.0496 ppb	08:50:01
1	Zn 213.857†	518.8	-2.6	-0.0341 ug/L	-0.0341 ppb	08:50:21
1	SiO2†	465.3	-72.2	-5.9031 ug/L	-5.9031 ppb	08:51:32
2	Sc Radial	3373.3	3373.3	100 %		08:49:29
2	Y RADIAL	2781.8	2781.8	99.75 %		08:49:29
2	Al 396.153Radial†	-72.1	-2.5	-5.3604 ug/L	-5.3604 ppb	08:49:29
2	Ca 317.933Radial†	10.4	-0.6	-2.5322 ug/L	-2.5322 ppb	08:49:29
2	Fe 238.204 Radial†	7.3	0.0	0.9130 ug/L	0.9130 ppb	08:49:29
2	K 766.490 Radial†	2085.9	-76.2	-34.681 ug/L	-34.681 ppb	08:49:09
2	Mg 279.077 IEC†	-0.1	-1.6	-160.33 ug/L	-160.33 ppb	08:49:29
2	Na 589.592 Radial†	-871.5	-98.2	-32.517 ug/L	-32.517 ppb	08:49:09
2	Sr 421.552†	25.4	0.8	0.0071 ug/L	0.0071 ppb	08:49:09
2	Sc 361.383	819195.8	819195.8	100.58 %		08:50:26
2	Y 371.029	702498.9	702498.9	100.27 %		08:50:26
2	Ag 328.068†	86.9	-123.5	-0.6393 ug/L	-0.6393 ppb	08:50:26
2	As 188.979†	-17.5	0.1	0.0432 ug/L	0.0432 ppb	08:50:46
2	B 249.677†	-285.5	-91.2	-2.5995 ug/L	-2.5995 ppb	08:50:46
2	Ba 233.527†	-8.4	-10.5	-0.1001 ug/L	-0.1001 ppb	08:50:46
2	Be 313.107†	-3490.5	3.4	0.0016 ug/L	0.0016 ppb	08:50:26
2	Cd 226.502†	-154.1	8.6	0.1292 ug/L	0.1292 ppb	08:50:46
2	Co 228.616†	-47.5	-4.6	-0.1225 ug/L	-0.1225 ppb	08:50:46
2	Cr 267.716†	48.2	-27.8	-0.3730 ug/L	-0.3730 ppb	08:50:46
2	Cu 324.752†	6025.0	10.6	0.0358 ug/L	0.0358 ppb	08:50:26
2	Mn 257.610†	373.3	-26.5	-0.0292 ug/L	-0.0292 ppb	08:50:46
2	Mo 202.031†	10.5	3.3	0.2942 ug/L	0.2942 ppb	08:50:46
2	Ni 231.604†	65.6	-4.4	-0.1444 ug/L	-0.1444 ppb	08:50:46

2	P 214.914†	165.8	-12.7	-10.083 ug/L	-10.083 ppb	08:50:46
2	Pb 220.353†	-52.0	-8.6	-1.3883 ug/L	-1.3883 ppb	08:50:46
2	S 181.975 Axial†	30.5	3.5	6.4247 ug/L	6.4247 ppb	08:50:46
2	Sb 206.836†	30.5	1.5	0.6896 ug/L	0.6896 ppb	08:50:46
2	Se 196.026†	-14.0	4.7	3.9871 ug/L	3.9871 ppb	08:50:46
2	Si 251.611†	453.7	-88.7	-3.4112 ug/L	-3.4112 ppb	08:50:46
2	Sn 189.927†	12.3	5.0	1.1734 ug/L	1.1734 ppb	08:50:46
2	Ti 334.940†	-994.1	23.0	0.0538 ug/L	0.0538 ppb	08:50:26
2	Tl 190.801†	-31.1	-7.4	-2.9856 ug/L	-2.9856 ppb	08:50:46
2	U 409.014†	-2102.2	-40.2	-1.1992 ug/L	-1.1992 ppb	08:50:26
2	V 292.402†	-1175.9	67.3	0.5406 ug/L	0.5406 ppb	08:50:26
2	Zn 213.857†	529.5	17.9	0.2250 ug/L	0.2250 ppb	08:50:46
2	SiO2†	473.3	-55.3	-4.5337 ug/L	-4.5337 ppb	08:51:52
3	Sc Radial	3336.1	3336.1	99.2 %		08:49:55
3	Y RADIAL	2755.4	2755.4	98.81 %		08:49:55
3	Al 396.153Radial†	-66.2	2.6	5.5558 ug/L	5.5558 ppb	08:49:55
3	Ca 317.933Radial†	12.3	1.4	5.4806 ug/L	5.4806 ppb	08:49:55
3	Fe 238.204 Radial†	7.5	0.3	7.8579 ug/L	7.8579 ppb	08:49:55
3	K 766.490 Radial†	2098.1	-40.7	-18.550 ug/L	-18.550 ppb	08:49:34
3	Mg 279.077 IEC†	3.2	1.7	165.36 ug/L	165.36 ppb	08:49:55
3	Na 589.592 Radial†	-861.8	-98.1	-32.487 ug/L	-32.487 ppb	08:49:34
3	Sr 421.552†	-6.8	-31.4	-0.2910 ug/L	-0.2910 ppb	08:49:34
3	Sc 361.383	823200.5	823200.5	101.07 %		08:50:52
3	Y 371.029	707971.1	707971.1	101.06 %		08:50:52
3	Ag 328.068†	212.8	0.6	0.0047 ug/L	0.0047 ppb	08:50:52
3	As 188.979†	-19.9	-2.2	-1.2752 ug/L	-1.2752 ppb	08:51:12
3	B 249.677†	-273.3	-77.8	-2.2194 ug/L	-2.2194 ppb	08:51:12
3	Ba 233.527†	-4.4	-6.6	-0.0629 ug/L	-0.0629 ppb	08:51:12
3	Be 313.107†	-3430.1	80.1	0.0356 ug/L	0.0356 ppb	08:50:52
3	Cd 226.502†	-155.1	8.4	0.1256 ug/L	0.1256 ppb	08:51:12
3	Co 228.616†	-42.9	0.2	0.0049 ug/L	0.0049 ppb	08:51:12
3	Cr 267.716†	63.0	-13.4	-0.1804 ug/L	-0.1804 ppb	08:51:12
3	Cu 324.752†	6000.5	-42.7	-0.1415 ug/L	-0.1415 ppb	08:50:52
3	Mn 257.610†	375.9	-25.7	-0.0408 ug/L	-0.0408 ppb	08:51:12
3	Mo 202.031†	8.2	0.9	0.0837 ug/L	0.0837 ppb	08:51:12
3	Ni 231.604†	49.0	-21.2	-0.6932 ug/L	-0.6932 ppb	08:51:12
3	P 214.914†	171.7	-7.8	-6.1029 ug/L	-6.1029 ppb	08:51:12
3	Pb 220.353†	-41.0	2.4	0.3850 ug/L	0.3850 ppb	08:51:12
3	S 181.975 Axial†	29.8	2.7	4.8964 ug/L	4.8964 ppb	08:51:12
3	Sb 206.836†	31.3	2.2	0.9698 ug/L	0.9698 ppb	08:51:12
3	Se 196.026†	-12.6	6.2	5.2854 ug/L	5.2854 ppb	08:51:12
3	Si 251.611†	457.0	-87.6	-3.3672 ug/L	-3.3672 ppb	08:51:12
3	Sn 189.927†	12.3	4.9	1.1612 ug/L	1.1612 ppb	08:51:12
3	Ti 334.940†	-992.5	29.4	0.0379 ug/L	0.0379 ppb	08:50:52
3	Tl 190.801†	-20.6	3.1	1.2251 ug/L	1.2251 ppb	08:51:12
3	U 409.014†	-2001.8	69.3	2.0709 ug/L	2.0709 ppb	08:50:52
3	V 292.402†	-1228.4	21.1	0.1772 ug/L	0.1772 ppb	08:50:52
3	Zn 213.857†	528.7	14.5	0.1851 ug/L	0.1851 ppb	08:51:12
3	SiO2†	448.2	-82.5	-6.7471 ug/L	-6.7471 ppb	08:52:12

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825837.6	101.39 %	1.017			1.00%
Sc Radial	3361.7	99.9 %	0.66			0.66%
Y 371.029	709192.3	101.23 %	1.053			1.04%
Y RADIAL	2770.4	99.35 %	0.486			0.49%
Ag 328.068†	-41.4	-0.2118 ug/L	0.37019	-0.2118 ppb	0.37019	174.76%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.5	3.2628 ug/L	7.73588	3.2628 ppb	7.73588	237.09%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.6373 ug/L	0.66025	-0.6373 ppb	0.66025	103.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-81.9	-2.3365 ug/L	0.22826	-2.3365 ppb	0.22826	9.77%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-3.2	-0.0303 ug/L	0.09058	-0.0303 ppb	0.09058	299.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	39.1	0.0174 ug/L	0.01712	0.0174 ppb	0.01712	98.15%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.8	-3.0093 ug/L	8.73825	-3.0093 ppb	8.73825	290.38%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	8.5	0.1261 ug/L	0.00297	0.1261 ppb	0.00297	2.36%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	1.6	0.0427 ug/L	0.18696	0.0427 ppb	0.18696	438.32%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-20.8	-0.2805 ug/L	0.09652	-0.2805 ppb	0.09652	34.41%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-42.4	-0.1398 ug/L	0.17465	-0.1398 ppb	0.17465	124.96%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.4	10.928 ug/L	11.8516	10.928 ppb	11.8516	108.45%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-73.0	-33.255 ug/L	14.0459	-33.255 ppb	14.0459	42.24%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.8	-78.375 ug/L	214.8220	-78.375 ppb	214.8220	274.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-23.4	-0.0274 ug/L	0.01441	-0.0274 ppb	0.01441	52.66%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	1.5	0.1315 ug/L	0.14476	0.1315 ppb	0.14476	110.05%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-107.8	-35.692 ug/L	5.5250	-35.692 ppb	5.5250	15.48%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-10.9	-0.3562 ug/L	0.29499	-0.3562 ppb	0.29499	82.80%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-10.1	-7.9361 ug/L	2.00862	-7.9361 ppb	2.00862	25.31%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-3.3	-0.5247 ug/L	0.88755	-0.5247 ppb	0.88755	169.16%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	2.9	5.3220 ug/L	0.96315	5.3220 ppb	0.96315	18.10%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	-3.0	-1.2730 ug/L	3.64477	-1.2730 ppb	3.64477	286.30%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	3.2	2.7821 ug/L	3.27648	2.7821 ppb	3.27648	117.77%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	-88.6	-3.4050 ug/L	0.03518	-3.4050 ppb	0.03518	1.03%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.0	0.4801 ug/L	1.19033	0.4801 ppb	1.19033	247.95%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-8.3	-0.0773 ug/L	0.18639	-0.0773 ppb	0.18639	241.06%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	27.1	0.0532 ug/L	0.01497	0.0532 ppb	0.01497	28.14%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-1.7	-0.6678 ug/L	2.13725	-0.6678 ppb	2.13725	320.05%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	30.4	0.9075 ug/L	1.82780	0.9075 ppb	1.82780	201.40%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	27.6	0.2227 ug/L	0.29774	0.2227 ppb	0.29774	133.70%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	9.9	0.1253 ug/L	0.13952	0.1253 ppb	0.13952	111.34%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		-70.0	-5.7280 ug/L	1.11706	-5.7280 ppb	1.11706	19.50%
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 3

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 09:36:57

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	3295.3	3295.3	98.0 %		09:39:09
1	Y RADIAL	2696.4	2696.4	96.69 %		09:39:09
1	Al 396.153Radial†	2222.6	2338.0	4938.8 ug/L	4938.8 ppb	09:38:49
1	Ca 317.933Radial†	1308.9	1325.0	5210.3 ug/L	5210.3 ppb	09:39:09
1	Fe 238.204 Radial†	194.5	191.3	5388.4 ug/L	5388.4 ppb	09:39:09
1	K 766.490 Radial†	12945.3	11057.1	5030.5 ug/L	5030.5 ppb	09:38:49
1	Mg 279.077 IEC†	56.3	56.0	5468.8 ug/L	5468.8 ppb	09:39:09
1	Na 589.592 Radial†	28017.5	29368.0	9727.9 ug/L	9727.9 ppb	09:38:49
1	Sr 421.552†	50265.4	51281.0	475.52 ug/L	475.52 ppb	09:38:49
1	Sc 361.383	829187.2	829187.2	101.81 %		09:40:06
1	Y 371.029	702002.1	702002.1	100.20 %		09:40:06
1	Ag 328.068†	101022.9	99021.2	518.55 ug/L	518.55 ppb	09:40:12
1	As 188.979†	893.1	894.7	520.75 ug/L	520.75 ppb	09:40:32
1	B 249.677†	17565.9	17447.0	495.04 ug/L	495.04 ppb	09:40:12
1	Ba 233.527†	54294.8	53329.6	514.24 ug/L	514.24 ppb	09:40:12
1	Be 313.107†	1168028.0	1150784.8	511.10 ug/L	511.10 ppb	09:40:06
1	Cd 226.502†	34952.9	34494.8	518.49 ug/L	518.49 ppb	09:40:12
1	Co 228.616†	19866.2	19556.5	524.57 ug/L	524.57 ppb	09:40:12
1	Cr 267.716†	39002.3	38234.8	516.35 ug/L	516.35 ppb	09:40:12
1	Cu 324.752†	163680.0	154797.2	510.32 ug/L	510.32 ppb	09:40:12
1	Mn 257.610†	384867.3	377643.3	510.87 ug/L	510.87 ppb	09:40:06
1	Mo 202.031†	5847.7	5736.8	513.20 ug/L	513.20 ppb	09:40:32
1	Ni 231.604†	16441.9	16080.6	524.75 ug/L	524.75 ppb	09:40:12
1	P 214.914†	3487.0	3247.5	2470.9 ug/L	2470.9 ppb	09:40:32
1	Pb 220.353†	3223.7	3209.5	516.44 ug/L	516.44 ppb	09:40:32
1	S 181.975 Axial†	579.2	542.1	994.66 ug/L	994.66 ppb	09:40:32
1	Sb 206.836†	1216.4	1166.1	519.27 ug/L	519.27 ppb	09:40:32
1	Se 196.026†	607.7	615.6	539.96 ug/L	539.96 ppb	09:40:32
1	Si 251.611†	68987.4	67224.0	2576.8 ug/L	2576.8 ppb	09:40:12
1	Sn 189.927†	2198.6	2152.4	505.94 ug/L	505.94 ppb	09:40:32
1	Ti 334.940†	291781.8	287618.1	503.40 ug/L	503.40 ppb	09:40:12
1	Tl 190.801†	1275.8	1276.6	515.65 ug/L	515.65 ppb	09:40:32
1	U 409.014†	15999.4	17765.5	528.94 ug/L	528.94 ppb	09:40:12
1	V 292.402†	63637.6	63745.4	519.84 ug/L	519.84 ppb	09:40:12
1	Zn 213.857†	42549.8	41286.6	512.43 ug/L	512.43 ppb	09:40:12
1	SiO2†	69088.3	67337.0	5494.4 ug/L	5494.4 ppb	09:41:39
2	Sc Radial	3313.5	3313.5	98.5 %		09:39:34
2	Y RADIAL	2718.4	2718.4	97.48 %		09:39:34
2	Al 396.153Radial†	2240.2	2343.4	4950.2 ug/L	4950.2 ppb	09:39:14
2	Ca 317.933Radial†	1304.7	1313.4	5164.4 ug/L	5164.4 ppb	09:39:34
2	Fe 238.204 Radial†	189.8	185.3	5222.3 ug/L	5222.3 ppb	09:39:34
2	K 766.490 Radial†	13036.1	11076.8	5039.6 ug/L	5039.6 ppb	09:39:14
2	Mg 279.077 IEC†	53.6	52.9	5167.0 ug/L	5167.0 ppb	09:39:34
2	Na 589.592 Radial†	27775.1	28965.2	9594.5 ug/L	9594.5 ppb	09:39:14
2	Sr 421.552†	50047.2	50778.2	470.86 ug/L	470.86 ppb	09:39:14
2	Sc 361.383	828176.0	828176.0	101.68 %		09:40:37
2	Y 371.029	700998.2	700998.2	100.06 %		09:40:37
2	Ag 328.068†	101081.8	99200.3	519.44 ug/L	519.44 ppb	09:40:43
2	As 188.979†	883.3	886.2	515.82 ug/L	515.82 ppb	09:41:03
2	B 249.677†	17616.8	17518.1	497.08 ug/L	497.08 ppb	09:40:43
2	Ba 233.527†	54465.8	53562.9	516.49 ug/L	516.49 ppb	09:40:43
2	Be 313.107†	1184609.5	1168492.8	518.96 ug/L	518.96 ppb	09:40:37
2	Cd 226.502†	35155.0	34735.5	522.13 ug/L	522.13 ppb	09:40:43
2	Co 228.616†	19977.3	19689.6	528.13 ug/L	528.13 ppb	09:40:43
2	Cr 267.716†	39210.2	38486.0	519.73 ug/L	519.73 ppb	09:40:43
2	Cu 324.752†	163733.7	155046.2	511.13 ug/L	511.13 ppb	09:40:43
2	Mn 257.610†	389760.9	382917.5	517.99 ug/L	517.99 ppb	09:40:37
2	Mo 202.031†	5835.0	5731.3	512.70 ug/L	512.70 ppb	09:41:03
2	Ni 231.604†	16537.9	16194.7	528.47 ug/L	528.47 ppb	09:40:43

2	P 214.914†	3471.9	3236.9	2462.5 ug/L	2462.5 ppb	09:41:03
2	Pb 220.353†	3220.7	3210.5	516.63 ug/L	516.63 ppb	09:41:03
2	S 181.975 Axial†	582.5	546.0	1001.8 ug/L	1001.8 ppb	09:41:03
2	Sb 206.836†	1229.5	1180.4	525.40 ug/L	525.40 ppb	09:41:03
2	Se 196.026†	591.1	600.0	526.28 ug/L	526.28 ppb	09:41:03
2	Si 251.611†	69084.3	67402.0	2583.7 ug/L	2583.7 ppb	09:40:43
2	Sn 189.927†	2196.6	2153.0	506.09 ug/L	506.09 ppb	09:41:03
2	Ti 334.940†	293007.1	289173.0	506.14 ug/L	506.14 ppb	09:40:43
2	Tl 190.801†	1276.9	1279.2	516.72 ug/L	516.72 ppb	09:41:03
2	U 409.014†	16048.3	17832.8	530.96 ug/L	530.96 ppb	09:40:43
2	V 292.402†	64062.1	64239.1	523.83 ug/L	523.83 ppb	09:40:43
2	Zn 213.857†	42725.9	41510.7	515.24 ug/L	515.24 ppb	09:40:43
2	SiO2†	70127.7	68442.1	5584.8 ug/L	5584.8 ppb	09:41:44
3	Sc Radial	3283.7	3283.7	97.6 %		09:39:59
3	Y RADIAL	2675.6	2675.6	95.94 %		09:39:59
3	Al 396.153Radial†	2220.3	2343.6	4951.0 ug/L	4951.0 ppb	09:39:39
3	Ca 317.933Radial†	1307.7	1328.5	5224.0 ug/L	5224.0 ppb	09:39:59
3	Fe 238.204 Radial†	190.8	188.1	5300.7 ug/L	5300.7 ppb	09:39:59
3	K 766.490 Radial†	12940.4	11098.7	5049.5 ug/L	5049.5 ppb	09:39:39
3	Mg 279.077 IEC†	55.1	54.9	5363.1 ug/L	5363.1 ppb	09:39:59
3	Na 589.592 Radial†	27819.6	29266.2	9694.2 ug/L	9694.2 ppb	09:39:39
3	Sr 421.552†	50036.7	51227.7	475.02 ug/L	475.02 ppb	09:39:39
3	Sc 361.383	840344.8	840344.8	103.18 %		09:41:08
3	Y 371.029	712994.7	712994.7	101.77 %		09:41:08
3	Ag 328.068†	101437.9	98105.9	513.75 ug/L	513.75 ppb	09:41:14
3	As 188.979†	888.4	878.5	511.36 ug/L	511.36 ppb	09:41:34
3	B 249.677†	17776.4	17421.9	494.35 ug/L	494.35 ppb	09:41:14
3	Ba 233.527†	54823.2	53133.6	512.34 ug/L	512.34 ppb	09:41:14
3	Be 313.107†	1182284.3	1149368.9	510.47 ug/L	510.47 ppb	09:41:08
3	Cd 226.502†	35213.2	34291.2	515.43 ug/L	515.43 ppb	09:41:14
3	Co 228.616†	19996.6	19423.8	521.01 ug/L	521.01 ppb	09:41:14
3	Cr 267.716†	39321.9	38035.9	513.66 ug/L	513.66 ppb	09:41:14
3	Cu 324.752†	164016.7	152988.8	504.36 ug/L	504.36 ppb	09:41:14
3	Mn 257.610†	387753.7	375421.5	507.86 ug/L	507.86 ppb	09:41:08
3	Mo 202.031†	5883.5	5695.2	509.48 ug/L	509.48 ppb	09:41:34
3	Ni 231.604†	16547.7	15968.7	521.09 ug/L	521.09 ppb	09:41:14
3	P 214.914†	3514.2	3228.4	2457.1 ug/L	2457.1 ppb	09:41:34
3	Pb 220.353†	3240.5	3183.8	512.33 ug/L	512.33 ppb	09:41:34
3	S 181.975 Axial†	599.1	553.8	1016.2 ug/L	1016.2 ppb	09:41:34
3	Sb 206.836†	1228.9	1162.3	517.58 ug/L	517.58 ppb	09:41:34
3	Se 196.026†	607.7	607.6	532.96 ug/L	532.96 ppb	09:41:34
3	Si 251.611†	69370.5	66695.6	2556.6 ug/L	2556.6 ppb	09:41:14
3	Sn 189.927†	2231.8	2155.9	506.77 ug/L	506.77 ppb	09:41:34
3	Ti 334.940†	293384.9	285366.3	499.48 ug/L	499.48 ppb	09:41:14
3	Tl 190.801†	1286.7	1270.6	513.20 ug/L	513.20 ppb	09:41:34
3	U 409.014†	15760.0	17324.8	515.79 ug/L	515.79 ppb	09:41:14
3	V 292.402†	64102.5	63366.0	516.73 ug/L	516.73 ppb	09:41:14
3	Zn 213.857†	42829.2	41002.4	508.92 ug/L	508.92 ppb	09:41:14
3	SiO2†	69452.7	66789.2	5449.7 ug/L	5449.7 ppb	09:41:49

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832569.4	102.22 %	0.829			0.81%
Sc Radial	3297.5	98.0 %	0.45			0.45%
Y 371.029	705331.7	100.68 %	0.950			0.94%
Y RADIAL	2696.8	96.71 %	0.769			0.79%
Ag 328.068†	98775.8	517.25 ug/L	3.058	517.25 ppb	3.058	0.59%
QC value within limits for Ag 328.068 Recovery = 103.45%						
Al 396.153Radial†	2341.7	4946.7 ug/L	6.82	4946.7 ppb	6.82	0.14%
QC value within limits for Al 396.153Radial Recovery = 98.93%						
As 188.979†	886.4	515.98 ug/L	4.695	515.98 ppb	4.695	0.91%
QC value within limits for As 188.979 Recovery = 103.20%						
B 249.677†	17462.4	495.49 ug/L	1.422	495.49 ppb	1.422	0.29%
QC value within limits for B 249.677 Recovery = 99.10%						
Ba 233.527†	53342.0	514.36 ug/L	2.074	514.36 ppb	2.074	0.40%
QC value within limits for Ba 233.527 Recovery = 102.87%						
Be 313.107†	1156215.5	513.51 ug/L	4.729	513.51 ppb	4.729	0.92%
QC value within limits for Be 313.107 Recovery = 102.70%						
Ca 317.933Radial†	1322.3	5199.6 ug/L	31.21	5199.6 ppb	31.21	0.60%

QC value within limits for Ca 317.933 Radial Recovery = 103.99%

Cd 226.502†	34507.2	518.68 ug/L	3.352	518.68 ppb	3.352	0.65%
QC value within limits for Cd 226.502 Recovery = 103.74%						
Co 228.616†	19556.6	524.57 ug/L	3.561	524.57 ppb	3.561	0.68%
QC value within limits for Co 228.616 Recovery = 104.91%						
Cr 267.716†	38252.3	516.58 ug/L	3.042	516.58 ppb	3.042	0.59%
QC value within limits for Cr 267.716 Recovery = 103.32%						
Cu 324.752†	154277.4	508.60 ug/L	3.697	508.60 ppb	3.697	0.73%
QC value within limits for Cu 324.752 Recovery = 101.72%						
Fe 238.204 Radial†	188.2	5303.8 ug/L	83.09	5303.8 ppb	83.09	1.57%
QC value within limits for Fe 238.204 Radial Recovery = 106.08%						
K 766.490 Radial†	11077.6	5039.9 ug/L	9.48	5039.9 ppb	9.48	0.19%
QC value within limits for K 766.490 Radial Recovery = 100.80%						
Mg 279.077 IEC†	54.6	5333.0 ug/L	153.14	5333.0 ppb	153.14	2.87%
QC value within limits for Mg 279.077 IEC Recovery = 106.66%						
Mn 257.610†	378660.8	512.24 ug/L	5.205	512.24 ppb	5.205	1.02%
QC value within limits for Mn 257.610 Recovery = 102.45%						
Mo 202.031†	5721.1	511.79 ug/L	2.020	511.79 ppb	2.020	0.39%
QC value within limits for Mo 202.031 Recovery = 102.36%						
Na 589.592 Radial†	29199.8	9672.2 ug/L	69.38	9672.2 ppb	69.38	0.72%
QC value within limits for Na 589.592 Radial Recovery = 96.72%						
Ni 231.604†	16081.3	524.77 ug/L	3.689	524.77 ppb	3.689	0.70%
QC value within limits for Ni 231.604 Recovery = 104.95%						
P 214.914†	3237.6	2463.5 ug/L	6.98	2463.5 ppb	6.98	0.28%
QC value within limits for P 214.914 Recovery = 98.54%						
Pb 220.353†	3201.3	515.13 ug/L	2.428	515.13 ppb	2.428	0.47%
QC value within limits for Pb 220.353 Recovery = 103.03%						
S 181.975 Axial†	547.3	1004.2 ug/L	10.95	1004.2 ppb	10.95	1.09%
QC value within limits for S 181.975 Axial Recovery = 100.42%						
Sb 206.836†	1169.6	520.75 ug/L	4.119	520.75 ppb	4.119	0.79%
QC value within limits for Sb 206.836 Recovery = 104.15%						
Se 196.026†	607.7	533.06 ug/L	6.840	533.06 ppb	6.840	1.28%
QC value within limits for Se 196.026 Recovery = 106.61%						
Si 251.611†	67107.2	2572.4 ug/L	14.10	2572.4 ppb	14.10	0.55%
QC value within limits for Si 251.611 Recovery = 102.89%						
Sn 189.927†	2153.8	506.27 ug/L	0.443	506.27 ppb	0.443	0.09%
QC value within limits for Sn 189.927 Recovery = 101.25%						
Sr 421.552†	51095.6	473.80 ug/L	2.561	473.80 ppb	2.561	0.54%
QC value within limits for Sr 421.552 Recovery = 94.76%						
Ti 334.940†	287385.8	503.01 ug/L	3.350	503.01 ppb	3.350	0.67%
QC value within limits for Ti 334.940 Recovery = 100.60%						
Tl 190.801†	1275.4	515.19 ug/L	1.805	515.19 ppb	1.805	0.35%
QC value within limits for Tl 190.801 Recovery = 103.04%						
U 409.014†	17641.0	525.23 ug/L	8.237	525.23 ppb	8.237	1.57%
QC value within limits for U 409.014 Recovery = 105.05%						
V 292.402†	63783.5	520.13 ug/L	3.559	520.13 ppb	3.559	0.68%
QC value within limits for V 292.402 Recovery = 104.03%						
Zn 213.857†	41266.6	512.20 ug/L	3.168	512.20 ppb	3.168	0.62%
QC value within limits for Zn 213.857 Recovery = 102.44%						
SiO2†	67522.7	5509.6 ug/L	68.84	5509.6 ppb	68.84	1.25%
QC value within limits for SiO2 Recovery = 103.03%						

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 09:44:00

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	3187.3	3187.3	94.8 %		09:46:13
1	Y RADIAL	2622.9	2622.9	94.06 %		09:46:13
1	Al 396.153Radial†	-62.3	3.7	7.6923 ug/L	7.6923 ppb	09:46:13
1	Ca 317.933Radial†	7.3	-3.3	-12.809 ug/L	-12.809 ppb	09:46:13
1	Fe 238.204 Radial†	8.2	1.3	37.879 ug/L	37.879 ppb	09:46:13
1	K 766.490 Radial†	2135.2	97.2	44.286 ug/L	44.286 ppb	09:45:53
1	Mg 279.077 IEC†	-0.4	-1.9	-189.49 ug/L	-189.49 ppb	09:46:13
1	Na 589.592 Radial†	-865.3	-142.4	-47.163 ug/L	-47.163 ppb	09:45:53
1	Sr 421.552†	-2.7	-27.3	-0.2534 ug/L	-0.2534 ppb	09:45:53
1	Sc 361.383	828298.6	828298.6	101.70 %		09:47:09
1	Y 371.029	710514.8	710514.8	101.42 %		09:47:09
1	Ag 328.068†	148.4	-64.0	-0.3199 ug/L	-0.3199 ppb	09:47:09
1	As 188.979†	-18.2	-0.4	-0.2351 ug/L	-0.2351 ppb	09:47:29
1	B 249.677†	-258.7	-61.8	-1.7669 ug/L	-1.7669 ppb	09:47:29
1	Ba 233.527†	5.8	3.5	0.0351 ug/L	0.0351 ppb	09:47:29
1	Be 313.107†	-3432.9	98.2	0.0438 ug/L	0.0438 ppb	09:47:09
1	Cd 226.502†	-163.3	1.3	0.0148 ug/L	0.0148 ppb	09:47:29
1	Co 228.616†	-43.5	-0.2	-0.0019 ug/L	-0.0019 ppb	09:47:29
1	Cr 267.716†	58.0	-18.7	-0.2501 ug/L	-0.2501 ppb	09:47:29
1	Cu 324.752†	5944.3	-134.6	-0.4408 ug/L	-0.4408 ppb	09:47:09
1	Mn 257.610†	357.6	-46.1	-0.0508 ug/L	-0.0508 ppb	09:47:29
1	Mo 202.031†	23.4	15.8	1.4134 ug/L	1.4134 ppb	09:47:29
1	Ni 231.604†	66.7	-4.1	-0.1323 ug/L	-0.1323 ppb	09:47:29
1	P 214.914†	180.5	-0.2	-0.0580 ug/L	-0.0580 ppb	09:47:29
1	Pb 220.353†	-46.0	-2.3	-0.3632 ug/L	-0.3632 ppb	09:47:29
1	S 181.975 Axial†	29.2	1.9	3.4005 ug/L	3.4005 ppb	09:47:29
1	Sb 206.836†	26.5	-2.7	-1.0877 ug/L	-1.0877 ppb	09:47:29
1	Se 196.026†	-11.6	7.2	6.2013 ug/L	6.2013 ppb	09:47:29
1	Si 251.611†	451.4	-95.9	-3.7038 ug/L	-3.7038 ppb	09:47:29
1	Sn 189.927†	14.8	7.4	1.7288 ug/L	1.7288 ppb	09:47:29
1	Ti 334.940†	-956.4	71.1	0.1389 ug/L	0.1389 ppb	09:47:09
1	Tl 190.801†	-26.7	-2.8	-1.1154 ug/L	-1.1154 ppb	09:47:29
1	U 409.014†	-2135.7	-50.2	-1.5031 ug/L	-1.5031 ppb	09:47:09
1	V 292.402†	-1253.3	4.1	0.0411 ug/L	0.0411 ppb	09:47:09
1	Zn 213.857†	530.5	13.0	0.1592 ug/L	0.1592 ppb	09:47:29
1	SiO2†	459.9	-73.7	-6.0691 ug/L	-6.0691 ppb	09:48:40
2	Sc Radial	3347.6	3347.6	99.5 %		09:46:38
2	Y RADIAL	2756.3	2756.3	98.84 %		09:46:38
2	Al 396.153Radial†	-63.5	5.6	11.779 ug/L	11.779 ppb	09:46:38
2	Ca 317.933Radial†	12.0	1.1	4.3554 ug/L	4.3554 ppb	09:46:38
2	Fe 238.204 Radial†	8.6	1.4	37.953 ug/L	37.953 ppb	09:46:38
2	K 766.490 Radial†	2052.5	-93.8	-42.701 ug/L	-42.701 ppb	09:46:18
2	Mg 279.077 IEC†	2.9	1.3	131.06 ug/L	131.06 ppb	09:46:38
2	Na 589.592 Radial†	-858.6	-91.9	-30.425 ug/L	-30.425 ppb	09:46:18
2	Sr 421.552†	61.7	37.4	0.3472 ug/L	0.3472 ppb	09:46:18
2	Sc 361.383	828161.5	828161.5	101.68 %		09:47:35
2	Y 371.029	709847.9	709847.9	101.32 %		09:47:35
2	Ag 328.068†	230.1	16.4	0.0945 ug/L	0.0945 ppb	09:47:35
2	As 188.979†	-15.0	2.7	1.5408 ug/L	1.5408 ppb	09:47:55
2	B 249.677†	-289.6	-92.2	-2.6335 ug/L	-2.6335 ppb	09:47:55
2	Ba 233.527†	0.2	-2.0	-0.0179 ug/L	-0.0179 ppb	09:47:55
2	Be 313.107†	-3458.2	72.7	0.0324 ug/L	0.0324 ppb	09:47:35
2	Cd 226.502†	-153.1	11.3	0.1663 ug/L	0.1663 ppb	09:47:55
2	Co 228.616†	-53.2	-9.7	-0.2587 ug/L	-0.2587 ppb	09:47:55
2	Cr 267.716†	43.7	-32.8	-0.4414 ug/L	-0.4414 ppb	09:47:55
2	Cu 324.752†	6009.1	-69.9	-0.2301 ug/L	-0.2301 ppb	09:47:35
2	Mn 257.610†	394.7	-9.5	-0.0144 ug/L	-0.0144 ppb	09:47:55
2	Mo 202.031†	18.8	11.3	1.0150 ug/L	1.0150 ppb	09:47:55
2	Ni 231.604†	79.0	8.0	0.2628 ug/L	0.2628 ppb	09:47:55



2	P 214.914†	171.0	-9.5	-7.4875 ug/L	-7.4875 ppb	09:47:55
2	Pb 220.353†	-49.5	-5.6	-0.9067 ug/L	-0.9067 ppb	09:47:55
2	S 181.975 Axial†	33.6	6.2	11.441 ug/L	11.441 ppb	09:47:55
2	Sb 206.836†	28.6	-0.6	-0.2550 ug/L	-0.2550 ppb	09:47:55
2	Se 196.026†	-18.2	0.7	0.7416 ug/L	0.7416 ppb	09:47:55
2	Si 251.611†	462.4	-85.0	-3.2781 ug/L	-3.2781 ppb	09:47:55
2	Sn 189.927†	1.1	-6.2	-1.4465 ug/L	-1.4465 ppb	09:47:55
2	Ti 334.940†	-985.5	42.2	0.0625 ug/L	0.0625 ppb	09:47:35
2	Tl 190.801†	-19.5	4.3	1.7137 ug/L	1.7137 ppb	09:47:55
2	U 409.014†	-1978.1	104.5	3.1176 ug/L	3.1176 ppb	09:47:35
2	V 292.402†	-1260.2	-2.9	-0.0057 ug/L	-0.0057 ppb	09:47:35
2	Zn 213.857†	552.8	35.1	0.4321 ug/L	0.4321 ppb	09:47:55
2	SiO2†	477.3	-56.5	-4.6521 ug/L	-4.6521 ppb	09:49:00
3	Sc Radial	3369.6	3369.6	100 %		09:47:03
3	Y RADIAL	2771.8	2771.8	99.39 %		09:47:03
3	Al 396.153Radial†	-67.6	1.9	3.9220 ug/L	3.9220 ppb	09:47:03
3	Ca 317.933Radial†	7.7	-3.3	-12.865 ug/L	-12.865 ppb	09:47:03
3	Fe 238.204 Radial†	8.2	0.9	25.344 ug/L	25.344 ppb	09:47:03
3	K 766.490 Radial†	2209.9	49.9	22.741 ug/L	22.741 ppb	09:46:43
3	Mg 279.077 IEC†	0.9	-0.6	-58.558 ug/L	-58.558 ppb	09:47:03
3	Na 589.592 Radial†	-874.0	-101.6	-33.646 ug/L	-33.646 ppb	09:46:43
3	Sr 421.552†	36.6	12.0	0.1114 ug/L	0.1114 ppb	09:46:43
3	Sc 361.383	827169.7	827169.7	101.56 %		09:48:00
3	Y 371.029	711742.1	711742.1	101.59 %		09:48:00
3	Ag 328.068†	222.6	9.3	0.0560 ug/L	0.0560 ppb	09:48:00
3	As 188.979†	-17.0	0.7	0.4047 ug/L	0.4047 ppb	09:48:20
3	B 249.677†	-307.9	-110.6	-3.1566 ug/L	-3.1566 ppb	09:48:20
3	Ba 233.527†	1.5	-0.8	-0.0057 ug/L	-0.0057 ppb	09:48:20
3	Be 313.107†	-3417.6	108.6	0.0485 ug/L	0.0485 ppb	09:48:00
3	Cd 226.502†	-158.2	6.1	0.0891 ug/L	0.0891 ppb	09:48:20
3	Co 228.616†	-41.8	1.4	0.0387 ug/L	0.0387 ppb	09:48:20
3	Cr 267.716†	41.5	-34.9	-0.4692 ug/L	-0.4692 ppb	09:48:20
3	Cu 324.752†	6020.7	-51.3	-0.1689 ug/L	-0.1689 ppb	09:48:00
3	Mn 257.610†	373.2	-30.2	-0.0359 ug/L	-0.0359 ppb	09:48:20
3	Mo 202.031†	12.2	4.8	0.4336 ug/L	0.4336 ppb	09:48:20
3	Ni 231.604†	70.7	-0.1	-0.0023 ug/L	-0.0023 ppb	09:48:20
3	P 214.914†	165.9	-14.2	-11.258 ug/L	-11.258 ppb	09:48:20
3	Pb 220.353†	-40.0	3.6	0.5713 ug/L	0.5713 ppb	09:48:20
3	S 181.975 Axial†	30.0	2.7	4.8870 ug/L	4.8870 ppb	09:48:20
3	Sb 206.836†	22.7	-6.4	-2.7199 ug/L	-2.7199 ppb	09:48:20
3	Se 196.026†	-23.1	-4.1	-3.4376 ug/L	-3.4376 ppb	09:48:20
3	Si 251.611†	446.8	-99.8	-3.8403 ug/L	-3.8403 ppb	09:48:20
3	Sn 189.927†	7.0	-0.3	-0.0842 ug/L	-0.0842 ppb	09:48:20
3	Ti 334.940†	-944.0	82.0	0.1459 ug/L	0.1459 ppb	09:48:00
3	Tl 190.801†	-31.3	-7.4	-2.9794 ug/L	-2.9794 ppb	09:48:20
3	U 409.014†	-2017.9	63.0	1.8794 ug/L	1.8794 ppb	09:48:00
3	V 292.402†	-1212.4	42.7	0.3482 ug/L	0.3482 ppb	09:48:00
3	Zn 213.857†	526.2	9.5	0.1159 ug/L	0.1159 ppb	09:48:20
3	SiO2†	462.4	-70.6	-5.7860 ug/L	-5.7860 ppb	09:49:20

## Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	827876.6	101.64 %	0.076			0.07%
Sc Radial	3301.5	98.2 %	2.96			3.01%
Y 371.029	710701.6	101.45 %	0.137			0.14%
Y RADIAL	2717.0	97.43 %	2.934			3.01%
Ag 328.068†	-12.8	-0.0564 ug/L	0.22897	-0.0564 ppb	0.22897	405.70%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.7	7.7977 ug/L	3.92947	7.7977 ppb	3.92947	50.39%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	0.5701 ug/L	0.89941	0.5701 ppb	0.89941	157.76%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-88.2	-2.5190 ug/L	0.70184	-2.5190 ppb	0.70184	27.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.3	0.0038 ug/L	0.02776	0.0038 ppb	0.02776	727.56%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	93.2	0.0415 ug/L	0.00827	0.0415 ppb	0.00827	19.90%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.8	-7.1063 ug/L	9.92616	-7.1063 ppb	9.92616	139.68%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	6.2	0.0901 ug/L	0.07575	0.0901 ppb	0.07575	84.07%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-2.8	-0.0740 ug/L	0.16126	-0.0740 ppb	0.16126	218.00%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-28.8	-0.3869 ug/L	0.11927	-0.3869 ppb	0.11927	30.83%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-85.3	-0.2799 ug/L	0.14261	-0.2799 ppb	0.14261	50.95%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.2	33.725 ug/L	7.2586	33.725 ppb	7.2586	21.52%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	17.8	8.1085 ug/L	45.30208	8.1085 ppb	45.30208	558.70%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.4	-38.998 ug/L	161.1669	-38.998 ppb	161.1669	413.27%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-28.6	-0.0337 ug/L	0.01828	-0.0337 ppb	0.01828	54.20%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	10.6	0.9540 ug/L	0.49273	0.9540 ppb	0.49273	51.65%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-111.9	-37.078 ug/L	8.8815	-37.078 ppb	8.8815	23.95%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	1.3	0.0427 ug/L	0.20138	0.0427 ppb	0.20138	471.06%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-8.0	-6.2679 ug/L	5.69885	-6.2679 ppb	5.69885	90.92%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-1.4	-0.2329 ug/L	0.74760	-0.2329 ppb	0.74760	321.03%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.6	6.5760 ug/L	4.27785	6.5760 ppb	4.27785	65.05%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.2	-1.3542 ug/L	1.25388	-1.3542 ppb	1.25388	92.59%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.3	1.1684 ug/L	4.83360	1.1684 ppb	4.83360	413.68%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-93.6	-3.6074 ug/L	0.29326	-3.6074 ppb	0.29326	8.13%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	0.3	0.0660 ug/L	1.59296	0.0660 ppb	1.59296	>999.9%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	7.4	0.0684 ug/L	0.30260	0.0684 ppb	0.30260	442.51%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	65.1	0.1158 ug/L	0.04624	0.1158 ppb	0.04624	39.93%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.0	-0.7937 ug/L	2.36300	-0.7937 ppb	2.36300	297.72%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	39.1	1.1646 ug/L	2.39180	1.1646 ppb	2.39180	205.37%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	14.6	0.1278 ug/L	0.19228	0.1278 ppb	0.19228	150.40%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	19.2	0.2357 ug/L	0.17143	0.2357 ppb	0.17143	72.72%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-66.9	-5.5024 ug/L	0.74983	-5.5024 ppb	0.74983	13.63%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

=====  
Analysis Begun

Start Time: 3/9/2010 09:52:43

Plasma On Time: 3/8/2010 08:27:38

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\030810D.SIF

Batch ID:

Results Data Set: 030810B

Results Library: C:\pe\Optima3\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 38

Sample ID: 1202039807|951773|1

Date Collected: 3/9/2010 09:52:44

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:  
=====

Replicate Data: 1202039807|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3379.3	3379.3	100 %		09:54:57
1	Y RADIAL	2763.8	2763.8	99.11 %		09:54:57
1	Al 396.153Radial†	-63.9	5.7	12.188 ug/L	12.188 ppb	09:54:57
1	Ca 317.933Radial†	14.0	2.9	11.592 ug/L	11.592 ppb	09:54:57
1	Fe 238.204 Radial†	9.2	1.9	54.032 ug/L	54.032 ppb	09:54:57
1	K 766.490 Radial†	2057.3	-108.3	-49.366 ug/L	-49.366 ppb	09:54:37
1	Mg 279.077 IEC†	-1.4	-3.0	-288.67 ug/L	-288.67 ppb	09:54:57
1	Na 589.592 Radial†	-722.7	51.5	17.053 ug/L	17.053 ppb	09:54:37
1	Sr 421.552†	33.9	9.2	0.0855 ug/L	0.0855 ppb	09:54:37
1	Sc 361.383	845329.2	845329.2	103.79 %		09:55:54
1	Y 371.029	723644.9	723644.9	103.29 %		09:55:54
1	Ag 328.068†	178.7	-37.7	-0.1772 ug/L	-0.1772 ppb	09:55:54
1	As 188.979†	-15.3	2.7	1.5561 ug/L	1.5561 ppb	09:56:14
1	B 249.677†	-384.3	-177.6	-5.0738 ug/L	-5.0738 ppb	09:56:14
1	Ba 233.527†	28.0	24.8	0.2399 ug/L	0.2399 ppb	09:56:14
1	Be 313.107†	-3601.7	3.5	0.0054 ug/L	0.0054 ppb	09:55:54
1	Cd 226.502†	-149.2	18.1	0.2662 ug/L	0.2662 ppb	09:56:14
1	Co 228.616†	-40.3	3.8	0.0979 ug/L	0.0979 ppb	09:56:14
1	Cr 267.716†	158.7	77.2	1.0439 ug/L	1.0439 ppb	09:56:14
1	Cu 324.752†	6086.5	-115.3	-0.3757 ug/L	-0.3757 ppb	09:55:54
1	Mn 257.610†	948.6	516.2	0.7151 ug/L	0.7151 ppb	09:56:14
1	Mo 202.031†	11.6	4.0	0.3649 ug/L	0.3649 ppb	09:56:14
1	Ni 231.604†	79.7	7.1	0.2319 ug/L	0.2319 ppb	09:56:14
1	P 214.914†	179.3	-4.8	-3.7805 ug/L	-3.7805 ppb	09:56:14
1	Pb 220.353†	-58.3	-13.2	-2.1172 ug/L	-2.1172 ppb	09:56:14
1	S 181.975 Axial†	29.1	1.2	2.2707 ug/L	2.2707 ppb	09:56:14
1	Sb 206.836†	24.3	-5.3	-2.2594 ug/L	-2.2594 ppb	09:56:14
1	Se 196.026†	-17.1	2.2	1.9914 ug/L	1.9914 ppb	09:56:14
1	Si 251.611†	1289.6	702.8	27.000 ug/L	27.000 ppb	09:56:14
1	Sn 189.927†	12.7	5.0	1.1775 ug/L	1.1775 ppb	09:56:14
1	Ti 334.940†	-62.4	951.3	1.6916 ug/L	1.6916 ppb	09:55:54
1	Tl 190.801†	-30.2	-5.6	-2.2388 ug/L	-2.2388 ppb	09:56:14
1	U 409.014†	-2230.1	-98.8	-2.9606 ug/L	-2.9606 ppb	09:55:54
1	V 292.402†	-1279.4	3.8	0.0142 ug/L	0.0142 ppb	09:55:54
1	Zn 213.857†	619.7	88.6	1.1004 ug/L	1.1004 ppb	09:56:14
1	SiO2†	1309.5	735.8	60.183 ug/L	60.183 ppb	09:57:10
2	Sc Radial	3378.8	3378.8	100 %		09:55:22
2	Y RADIAL	2766.5	2766.5	99.21 %		09:55:22
2	Al 396.153Radial†	-61.7	7.9	16.842 ug/L	16.842 ppb	09:55:22
2	Ca 317.933Radial†	9.9	-1.1	-4.3570 ug/L	-4.3570 ppb	09:55:22
2	Fe 238.204 Radial†	10.8	3.5	97.482 ug/L	97.482 ppb	09:55:22
2	K 766.490 Radial†	2172.5	6.6	3.0281 ug/L	3.0281 ppb	09:55:02
2	Mg 279.077 IEC†	-0.1	-1.6	-156.04 ug/L	-156.04 ppb	09:55:22
2	Na 589.592 Radial†	-801.2	-26.8	-8.8750 ug/L	-8.8750 ppb	09:55:02
2	Sr 421.552†	63.0	38.2	0.3545 ug/L	0.3545 ppb	09:55:02
2	Sc 361.383	841181.1	841181.1	103.28 %		09:56:19
2	Y 371.029	720432.5	720432.5	102.83 %		09:56:19

2	Ag 328.068†	130.2	-83.9	-0.4093 ug/L	-0.4093 ppb	09:56:19
2	As 188.979†	-16.9	1.1	0.6502 ug/L	0.6502 ppb	09:56:39
2	B 249.677†	-382.2	-177.4	-5.0738 ug/L	-5.0738 ppb	09:56:39
2	Ba 233.527†	8.7	6.2	0.0626 ug/L	0.0626 ppb	09:56:39
2	Be 313.107†	-3575.5	11.7	0.0092 ug/L	0.0092 ppb	09:56:19
2	Cd 226.502†	-153.2	13.5	0.1937 ug/L	0.1937 ppb	09:56:39
2	Co 228.616†	-49.2	-5.0	-0.1401 ug/L	-0.1401 ppb	09:56:39
2	Cr 267.716†	163.1	82.2	1.1117 ug/L	1.1117 ppb	09:56:39
2	Cu 324.752†	6084.4	-88.5	-0.2885 ug/L	-0.2885 ppb	09:56:19
2	Mn 257.610†	917.0	490.2	0.6787 ug/L	0.6787 ppb	09:56:39
2	Mo 202.031†	3.8	-3.5	-0.3056 ug/L	-0.3056 ppb	09:56:39
2	Ni 231.604†	73.3	1.3	0.0437 ug/L	0.0437 ppb	09:56:39
2	P 214.914†	170.0	-13.1	-10.326 ug/L	-10.326 ppb	09:56:39
2	Pb 220.353†	-50.3	-5.7	-0.9212 ug/L	-0.9212 ppb	09:56:39
2	S 181.975 Axial†	35.6	7.6	14.037 ug/L	14.037 ppb	09:56:39
2	Sb 206.836†	20.1	-9.3	-3.9788 ug/L	-3.9788 ppb	09:56:39
2	Se 196.026†	-20.6	-1.3	-0.8146 ug/L	-0.8146 ppb	09:56:39
2	Si 251.611†	1275.9	695.7	26.736 ug/L	26.736 ppb	09:56:39
2	Sn 189.927†	17.7	9.9	2.3258 ug/L	2.3258 ppb	09:56:39
2	Ti 334.940†	-14.9	997.1	1.7558 ug/L	1.7558 ppb	09:56:19
2	Tl 190.801†	-25.2	-1.0	-0.3662 ug/L	-0.3662 ppb	09:56:39
2	U 409.014†	-1992.1	121.1	3.6029 ug/L	3.6029 ppb	09:56:19
2	V 292.402†	-1281.3	-4.2	-0.0507 ug/L	-0.0507 ppb	09:56:19
2	Zn 213.857†	613.6	85.5	1.0568 ug/L	1.0568 ppb	09:56:39
2	SiO2†	1311.5	744.0	60.868 ug/L	60.868 ppb	09:57:15
3	Sc Radial	3389.2	3389.2	101 %		09:55:47
3	Y RADIAL	2771.8	2771.8	99.40 %		09:55:47
3	Al 396.153Radial†	-61.5	8.4	17.739 ug/L	17.739 ppb	09:55:47
3	Ca 317.933Radial†	12.1	1.0	3.8846 ug/L	3.8846 ppb	09:55:47
3	Fe 238.204 Radial†	11.8	4.5	125.23 ug/L	125.23 ppb	09:55:47
3	K 766.490 Radial†	2051.5	-120.1	-54.709 ug/L	-54.709 ppb	09:55:27
3	Mg 279.077 IEC†	2.1	0.6	54.888 ug/L	54.888 ppb	09:55:47
3	Na 589.592 Radial†	-732.3	44.1	14.596 ug/L	14.596 ppb	09:55:27
3	Sr 421.552†	0.2	-24.3	-0.2256 ug/L	-0.2256 ppb	09:55:27
3	Sc 361.383	848626.1	848626.1	104.19 %		09:56:44
3	Y 371.029	727078.1	727078.1	103.78 %		09:56:44
3	Ag 328.068†	245.8	26.0	0.1729 ug/L	0.1729 ppb	09:56:44
3	As 188.979†	-17.9	0.2	0.1835 ug/L	0.1835 ppb	09:57:04
3	B 249.677†	-410.1	-200.9	-5.7498 ug/L	-5.7498 ppb	09:57:04
3	Ba 233.527†	15.0	12.2	0.1228 ug/L	0.1228 ppb	09:57:04
3	Be 313.107†	-3538.8	77.4	0.0380 ug/L	0.0380 ppb	09:56:44
3	Cd 226.502†	-160.6	7.7	0.1038 ug/L	0.1038 ppb	09:57:04
3	Co 228.616†	-31.3	12.6	0.3325 ug/L	0.3325 ppb	09:57:04
3	Cr 267.716†	160.1	77.9	1.0552 ug/L	1.0552 ppb	09:57:04
3	Cu 324.752†	6081.2	-143.1	-0.4681 ug/L	-0.4681 ppb	09:56:44
3	Mn 257.610†	945.1	509.3	0.6987 ug/L	0.6987 ppb	09:57:04
3	Mo 202.031†	9.9	2.3	0.2147 ug/L	0.2147 ppb	09:57:04
3	Ni 231.604†	76.7	3.9	0.1276 ug/L	0.1276 ppb	09:57:04
3	P 214.914†	183.0	-2.0	-1.5898 ug/L	-1.5898 ppb	09:57:04
3	Pb 220.353†	-44.5	0.3	0.0365 ug/L	0.0365 ppb	09:57:04
3	S 181.975 Axial†	34.1	5.9	10.845 ug/L	10.845 ppb	09:57:04
3	Sb 206.836†	27.2	-2.6	-1.1023 ug/L	-1.1023 ppb	09:57:04
3	Se 196.026†	-18.6	0.8	1.0243 ug/L	1.0243 ppb	09:57:04
3	Si 251.611†	1273.7	682.7	26.230 ug/L	26.230 ppb	09:57:04
3	Sn 189.927†	16.9	9.0	2.1148 ug/L	2.1148 ppb	09:57:04
3	Ti 334.940†	-69.5	944.8	1.6475 ug/L	1.6475 ppb	09:56:44
3	Tl 190.801†	-24.6	-0.2	-0.0708 ug/L	-0.0708 ppb	09:57:04
3	U 409.014†	-1954.8	173.7	5.1728 ug/L	5.1728 ppb	09:56:44
3	V 292.402†	-1195.3	89.3	0.7118 ug/L	0.7118 ppb	09:56:44
3	Zn 213.857†	605.3	72.3	0.8873 ug/L	0.8873 ppb	09:57:04
3	SiO2†	1322.8	743.6	60.823 ug/L	60.823 ppb	09:57:20

Mean Data: 1202039807|951773|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
Sc 361.383	845045.5	103.75 %		0.458			0.44%
Sc Radial	3382.4	101 %		0.2			0.17%
Y 371.029	723718.5	103.30 %		0.474			0.46%
Y RADIAL	2767.4	99.24 %		0.147			0.15%
Ag 328.068†	-31.8	-0.1379 ug/L		0.29310	-0.1379 ppb	0.29310	212.56%

Al 396.153Radial†	7.3	15.590 ug/L	2.9798	15.590 ppb	2.9798	19.11%
As 188.979†	1.3	0.7966 ug/L	0.69790	0.7966 ppb	0.69790	87.61%
B 249.677†	-185.3	-5.2991 ug/L	0.39032	-5.2991 ppb	0.39032	7.37%
Ba 233.527†	14.4	0.1418 ug/L	0.09015	0.1418 ppb	0.09015	63.59%
Be 313.107†	30.9	0.0175 ug/L	0.01788	0.0175 ppb	0.01788	102.04%
Ca 317.933Radial†	0.9	3.7065 ug/L	7.97601	3.7065 ppb	7.97601	215.19%
Cd 226.502†	13.1	0.1879 ug/L	0.08136	0.1879 ppb	0.08136	43.31%
Co 228.616†	3.8	0.0968 ug/L	0.23631	0.0968 ppb	0.23631	244.20%
Cr 267.716†	79.1	1.0703 ug/L	0.03631	1.0703 ppb	0.03631	3.39%
Cu 324.752†	-115.6	-0.3774 ug/L	0.08985	-0.3774 ppb	0.08985	23.81%
Fe 238.204 Radial†	3.3	92.248 ug/L	35.8864	92.248 ppb	35.8864	38.90%
K 766.490 Radial†	-73.9	-33.682 ug/L	31.9043	-33.682 ppb	31.9043	94.72%
Mg 279.077 IEC†	-1.3	-129.94 ug/L	173.262	-129.94 ppb	173.262	133.34%
Mn 257.610†	505.3	0.6975 ug/L	0.01820	0.6975 ppb	0.01820	2.61%
Mo 202.031†	0.9	0.0914 ug/L	0.35184	0.0914 ppb	0.35184	385.15%
Na 589.592 Radial†	22.9	7.5915 ug/L	14.31325	7.5915 ppb	14.31325	188.54%
Ni 231.604†	4.1	0.1344 ug/L	0.09431	0.1344 ppb	0.09431	70.17%
P 214.914†	-6.6	-5.2322 ug/L	4.54566	-5.2322 ppb	4.54566	86.88%
Pb 220.353†	-6.2	-1.0006 ug/L	1.07905	-1.0006 ppb	1.07905	107.84%
S 181.975 Axial†	4.9	9.0510 ug/L	6.08503	9.0510 ppb	6.08503	67.23%
Sb 206.836†	-5.8	-2.4468 ug/L	1.44735	-2.4468 ppb	1.44735	59.15%
Se 196.026†	0.6	0.7337 ug/L	1.42540	0.7337 ppb	1.42540	194.28%
Si 251.611†	693.7	26.655 ug/L	0.3914	26.655 ppb	0.3914	1.47%
Sn 189.927†	8.0	1.8727 ug/L	0.61123	1.8727 ppb	0.61123	32.64%
Sr 421.552†	7.7	0.0715 ug/L	0.29028	0.0715 ppb	0.29028	406.11%
Ti 334.940†	964.4	1.6983 ug/L	0.05448	1.6983 ppb	0.05448	3.21%
Tl 190.801†	-2.3	-0.8920 ug/L	1.17575	-0.8920 ppb	1.17575	131.82%
U 409.014†	65.3	1.9384 ug/L	4.31467	1.9384 ppb	4.31467	222.59%
V 292.402†	29.6	0.2251 ug/L	0.42277	0.2251 ppb	0.42277	187.81%
Zn 213.857†	82.1	1.0149 ug/L	0.11258	1.0149 ppb	0.11258	11.09%
SiO2†	741.1	60.625 ug/L	0.3834	60.625 ppb	0.3834	0.63%

Sequence No.: 2

Sample ID: 1202039808|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 3/9/2010 09:59:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039808|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3510.2	3510.2	104 %		10:01:43
1	Y RADIAL	3129.0	3129.0	112.2 %		10:01:43
1	Al 396.153Radial†	51320.8	49245.0	104520 ug/L	104520 ppb	10:01:23
1	Ca 317.933Radial†	26562.2	25440.9	100040 ug/L	100040 ppb	10:01:23
1	Fe 238.204 Radial†	7184.7	6877.1	193220 ug/L	193220 ppb	10:01:43
1	K 766.490 Radial†	102500.2	96059.8	43718 ug/L	43718 ppb	10:01:23
1	Mg 279.077 IEC†	445.6	425.4	41384 ug/L	41384 ppb	10:01:43
1	Na 589.592 Radial†	31436.4	30893.2	10233 ug/L	10233 ppb	10:01:23
1	Sr 421.552†	257663.7	246869.2	2288.6 ug/L	2288.6 ppb	10:01:23
1	Sc 361.383	853046.0	853046.0	104.74 %		10:02:44
1	Y 371.029	782689.1	782689.1	111.72 %		10:02:44
1	Ag 328.068†	49181.4	46748.1	307.00 ug/L	307.00 ppb	10:02:44
1	As 188.979†	1790.5	1727.0	1095.8 ug/L	1095.8 ppb	10:02:49
1	B 249.677†	56838.3	54461.3	1518.5 ug/L	1518.5 ppb	10:02:44
1	Ba 233.527†	210186.6	200682.0	1939.0 ug/L	1939.0 ppb	10:02:44
1	Be 313.107†	1863855.4	1783065.0	804.58 ug/L	804.58 ppb	10:02:44
1	Cd 226.502†	44257.2	42418.2	618.64 ug/L	618.64 ppb	10:02:49
1	Co 228.616†	37704.8	36042.8	951.53 ug/L	951.53 ppb	10:02:49
1	Cr 267.716†	191556.4	182820.5	2475.2 ug/L	2475.2 ppb	10:02:44
1	Cu 324.752†	605343.8	571996.8	1896.0 ug/L	1896.0 ppb	10:02:44
1	Mn 257.610†	4196888.4	4006751.1	5434.3 ug/L	5434.3 ppb	10:02:44
1	Mo 202.031†	5907.6	5633.3	519.66 ug/L	519.66 ppb	10:02:49
1	Ni 231.604†	45137.6	43027.2	1404.3 ug/L	1404.3 ppb	10:02:49
1	P 214.914†	10962.8	10289.6	7650.0 ug/L	7650.0 ppb	10:02:49
1	Pb 220.353†	5266.3	5071.2	811.03 ug/L	811.03 ppb	10:02:49
1	S 181.975 Axial†	2577.6	2434.2	4450.8 ug/L	4450.8 ppb	10:02:49
1	Sb 206.836†	3337.1	3157.5	1360.4 ug/L	1360.4 ppb	10:02:49
1	Se 196.026†	3024.2	2906.1	3029.3 ug/L	3029.3 ppb	10:02:49
1	Si 251.611†	1023851.4	977023.7	37537 ug/L	37537 ppb	10:02:44
1	Sn 189.927†	4301.8	4100.1	969.27 ug/L	969.27 ppb	10:02:49
1	Ti 334.940†	3800368.3	3629566.6	6364.0 ug/L	6364.0 ppb	10:02:44
1	Tl 190.801†	2974.0	2863.0	1220.8 ug/L	1220.8 ppb	10:02:49
1	U 409.014†	-7240.1	-4862.9	-172.81 ug/L	-172.81 ppb	10:02:44
1	V 292.402†	166458.3	160169.3	1260.8 ug/L	1260.8 ppb	10:02:44
1	Zn 213.857†	499719.3	476618.6	5931.0 ug/L	5931.0 ppb	10:02:44
1	SiO2†	1025890.8	978984.7	80070 ug/L	80070 ppb	10:03:24
2	Sc Radial	3501.7	3501.7	104 %		10:02:08
2	Y RADIAL	3124.2	3124.2	112.0 %		10:02:08
2	Al 396.153Radial†	51185.5	49235.2	104500 ug/L	104500 ppb	10:01:48
2	Ca 317.933Radial†	26310.8	25261.6	99333 ug/L	99333 ppb	10:01:48
2	Fe 238.204 Radial†	7115.3	6827.3	191820 ug/L	191820 ppb	10:02:08
2	K 766.490 Radial†	102057.7	95874.6	43634 ug/L	43634 ppb	10:01:48
2	Mg 279.077 IEC†	440.5	421.6	41012 ug/L	41012 ppb	10:02:08
2	Na 589.592 Radial†	30915.4	30466.3	10092 ug/L	10092 ppb	10:01:48
2	Sr 421.552†	254790.9	244712.7	2268.6 ug/L	2268.6 ppb	10:01:48
2	Sc 361.383	852701.8	852701.8	104.69 %		10:02:58
2	Y 371.029	782525.0	782525.0	111.70 %		10:02:58
2	Ag 328.068†	49299.4	46879.7	307.27 ug/L	307.27 ppb	10:02:58
2	As 188.979†	1727.8	1667.8	1061.4 ug/L	1061.4 ppb	10:03:04
2	B 249.677†	56995.7	54633.6	1523.7 ug/L	1523.7 ppb	10:02:58
2	Ba 233.527†	209893.6	200483.1	1937.0 ug/L	1937.0 ppb	10:02:58
2	Be 313.107†	1863361.2	1783311.2	804.69 ug/L	804.69 ppb	10:02:58
2	Cd 226.502†	43693.0	41896.3	610.93 ug/L	610.93 ppb	10:03:04
2	Co 228.616†	37283.9	35655.3	941.15 ug/L	941.15 ppb	10:03:04
2	Cr 267.716†	191336.0	182683.8	2473.3 ug/L	2473.3 ppb	10:02:58
2	Cu 324.752†	606493.7	573328.4	1900.3 ug/L	1900.3 ppb	10:02:58
2	Mn 257.610†	4193069.4	4004720.6	5431.5 ug/L	5431.5 ppb	10:02:58
2	Mo 202.031†	5891.1	5619.9	518.34 ug/L	518.34 ppb	10:03:04
2	Ni 231.604†	44695.3	42622.1	1391.1 ug/L	1391.1 ppb	10:03:04

2	P 214.914†	10819.7	10157.1	7545.3 ug/L	7545.3 ppb	10:03:04
2	Pb 220.353†	5259.4	5066.7	810.48 ug/L	810.48 ppb	10:03:04
2	S 181.975 Axial†	2588.0	2445.1	4470.9 ug/L	4470.9 ppb	10:03:04
2	Sb 206.836†	3313.3	3136.0	1351.1 ug/L	1351.1 ppb	10:03:04
2	Se 196.026†	2946.5	2833.0	2963.4 ug/L	2963.4 ppb	10:03:04
2	Si 251.611†	1023767.6	977338.2	37549 ug/L	37549 ppb	10:02:58
2	Sn 189.927†	4279.8	4080.8	964.69 ug/L	964.69 ppb	10:03:04
2	Ti 334.940†	3799781.4	3630470.6	6365.5 ug/L	6365.5 ppb	10:02:58
2	Tl 190.801†	2939.7	2831.4	1208.2 ug/L	1208.2 ppb	10:03:04
2	U 409.014†	-7328.2	-4949.8	-175.24 ug/L	-175.24 ppb	10:02:58
2	V 292.402†	166687.5	160452.3	1263.3 ug/L	1263.3 ppb	10:02:58
2	Zn 213.857†	499402.6	476508.7	5929.9 ug/L	5929.9 ppb	10:02:58
2	SiO2†	1027258.6	980686.6	80209 ug/L	80209 ppb	10:03:30
3	Sc Radial	3473.6	3473.6	103 %		10:02:33
3	Y RADIAL	3106.0	3106.0	111.4 %		10:02:33
3	Al 396.153Radial†	51276.8	49721.3	105540 ug/L	105540 ppb	10:02:13
3	Ca 317.933Radial†	26376.3	25529.5	100390 ug/L	100390 ppb	10:02:13
3	Fe 238.204 Radial†	7254.0	7016.9	197150 ug/L	197150 ppb	10:02:33
3	K 766.490 Radial†	102252.6	96856.5	44081 ug/L	44081 ppb	10:02:13
3	Mg 279.077 IEC†	451.6	435.8	42394 ug/L	42394 ppb	10:02:33
3	Na 589.592 Radial†	30852.9	30646.0	10151 ug/L	10151 ppb	10:02:13
3	Sr 421.552†	255142.1	247033.0	2290.1 ug/L	2290.1 ppb	10:02:13
3	Sc 361.383	850495.0	850495.0	104.42 %		10:03:13
3	Y 371.029	780855.6	780855.6	111.46 %		10:03:13
3	Ag 328.068†	49137.1	46846.4	308.72 ug/L	308.72 ppb	10:03:13
3	As 188.979†	1774.3	1716.6	1090.7 ug/L	1090.7 ppb	10:03:18
3	B 249.677†	56801.0	54588.3	1521.5 ug/L	1521.5 ppb	10:03:13
3	Ba 233.527†	209290.2	200425.4	1936.6 ug/L	1936.6 ppb	10:03:13
3	Be 313.107†	1859207.2	1783951.3	804.96 ug/L	804.96 ppb	10:03:13
3	Cd 226.502†	43705.7	42016.8	612.20 ug/L	612.20 ppb	10:03:18
3	Co 228.616†	37405.1	35863.8	946.69 ug/L	946.69 ppb	10:03:18
3	Cr 267.716†	191000.6	182836.8	2475.6 ug/L	2475.6 ppb	10:03:13
3	Cu 324.752†	602919.6	571408.8	1894.3 ug/L	1894.3 ppb	10:03:13
3	Mn 257.610†	4178515.5	4001175.1	5427.2 ug/L	5427.2 ppb	10:03:13
3	Mo 202.031†	5918.6	5660.8	522.42 ug/L	522.42 ppb	10:03:18
3	Ni 231.604†	44752.9	42788.1	1396.5 ug/L	1396.5 ppb	10:03:18
3	P 214.914†	10809.0	10173.7	7555.7 ug/L	7555.7 ppb	10:03:18
3	Pb 220.353†	5212.4	5034.7	804.84 ug/L	804.84 ppb	10:03:18
3	S 181.975 Axial†	2598.3	2461.5	4500.7 ug/L	4500.7 ppb	10:03:18
3	Sb 206.836†	3311.0	3142.0	1353.7 ug/L	1353.7 ppb	10:03:18
3	Se 196.026†	2958.5	2851.9	2994.4 ug/L	2994.4 ppb	10:03:18
3	Si 251.611†	1018557.4	974886.0	37455 ug/L	37455 ppb	10:03:13
3	Sn 189.927†	4287.2	4098.4	968.72 ug/L	968.72 ppb	10:03:18
3	Ti 334.940†	3785023.2	3625754.7	6357.2 ug/L	6357.2 ppb	10:03:13
3	Tl 190.801†	2985.3	2882.3	1228.6 ug/L	1228.6 ppb	10:03:18
3	U 409.014†	-7215.7	-4860.2	-173.18 ug/L	-173.18 ppb	10:03:13
3	V 292.402†	165952.1	160161.2	1260.2 ug/L	1260.2 ppb	10:03:13
3	Zn 213.857†	497661.9	476079.4	5923.7 ug/L	5923.7 ppb	10:03:13
3	SiO2†	1026756.3	982751.5	80378 ug/L	80378 ppb	10:03:36

Mean Data: 1202039808|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852080.9	104.62 %		0.170			0.16%
Sc Radial	3495.2	104 %		0.6			0.55%
Y 371.029	782023.2	111.63 %		0.145			0.13%
Y RADIAL	3119.7	111.9 %		0.43			0.39%
Ag 328.068†	46824.7	307.66 ug/L		0.925	307.66 ppb	0.925	0.30%
Al 396.153Radial†	49400.5	104860 ug/L		589.9	104860 ppb	589.9	0.56%
As 188.979†	1703.8	1082.6 ug/L		18.58	1082.6 ppb	18.58	1.72%
B 249.677†	54561.0	1521.3 ug/L		2.60	1521.3 ppb	2.60	0.17%
Ba 233.527†	200530.1	1937.5 ug/L		1.26	1937.5 ppb	1.26	0.06%
Be 313.107†	1783442.5	804.74 ug/L		0.194	804.74 ppb	0.194	0.02%
Ca 317.933Radial†	25410.7	99919 ug/L		536.7	99919 ppb	536.7	0.54%
Cd 226.502†	42110.4	613.92 ug/L		4.135	613.92 ppb	4.135	0.67%
Co 228.616†	35853.9	946.46 ug/L		5.193	946.46 ppb	5.193	0.55%
Cr 267.716†	182780.4	2474.7 ug/L		1.22	2474.7 ppb	1.22	0.05%
Cu 324.752†	572244.7	1896.9 ug/L		3.11	1896.9 ppb	3.11	0.16%
Fe 238.204 Radial†	6907.1	194060 ug/L		2761.4	194060 ppb	2761.4	1.42%
K 766.490 Radial†	96263.7	43811 ug/L		237.5	43811 ppb	237.5	0.54%

Mg 279.077 IEC†	427.6	41596 ug/L	715.1	41596 ppb	715.1	1.72%
Mn 257.610†	4004215.6	5431.0 ug/L	3.62	5431.0 ppb	3.62	0.07%
Mo 202.031†	5638.0	520.14 ug/L	2.083	520.14 ppb	2.083	0.40%
Na 589.592 Radial†	30668.5	10159 ug/L	71.0	10159 ppb	71.0	0.70%
Ni 231.604†	42812.5	1397.3 ug/L	6.65	1397.3 ppb	6.65	0.48%
P 214.914†	10206.8	7583.7 ug/L	57.65	7583.7 ppb	57.65	0.76%
Pb 220.353†	5057.5	808.78 ug/L	3.424	808.78 ppb	3.424	0.42%
S 181.975 Axial†	2446.9	4474.1 ug/L	25.11	4474.1 ppb	25.11	0.56%
Sb 206.836†	3145.2	1355.0 ug/L	4.81	1355.0 ppb	4.81	0.35%
Se 196.026†	2863.7	2995.7 ug/L	32.95	2995.7 ppb	32.95	1.10%
Si 251.611†	976416.0	37513 ug/L	51.3	37513 ppb	51.3	0.14%
Sn 189.927†	4093.1	967.56 ug/L	2.501	967.56 ppb	2.501	0.26%
Sr 421.552†	246205.0	2282.5 ug/L	12.00	2282.5 ppb	12.00	0.53%
Ti 334.940†	3628597.3	6362.2 ug/L	4.38	6362.2 ppb	4.38	0.07%
Tl 190.801†	2858.9	1219.2 ug/L	10.26	1219.2 ppb	10.26	0.84%
U 409.014†	-4891.0	-173.74 ug/L	1.311	-173.74 ppb	1.311	0.75%
V 292.402†	160260.9	1261.4 ug/L	1.61	1261.4 ppb	1.61	0.13%
Zn 213.857†	476402.2	5928.2 ug/L	3.93	5928.2 ppb	3.93	0.07%
SiO2†	980807.6	80219 ug/L	154.3	80219 ppb	154.3	0.19%



Sequence No.: 3

Sample ID: 246679001|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 3/9/2010 10:05:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679001|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3390.7	3390.7	101 %		10:08:00
1	Y RADIAL	3798.1	3798.1	136.2 %		10:08:00
1	Al 396.153Radial†	22822.5	22708.5	48211 ug/L	48211 ppb	10:07:40
1	Ca 317.933Radial†	2540.9	2509.5	9867.9 ug/L	9867.9 ppb	10:08:00
1	Fe 238.204 Radial†	2458.2	2431.1	68296 ug/L	68296 ppb	10:08:00
1	K 766.490 Radial†	14289.1	12018.3	5470.2 ug/L	5470.2 ppb	10:07:40
1	Mg 279.077 IEC†	80.1	77.9	7540.7 ug/L	7540.7 ppb	10:08:00
1	Na 589.592 Radial†	1221.0	1982.0	656.51 ug/L	656.51 ppb	10:07:40
1	Sr 421.552†	5901.8	5829.9	53.990 ug/L	53.990 ppb	10:07:40
1	Sc 361.383	872499.5	872499.5	107.12 %		10:08:57
1	Y 371.029	1017431.5	1017431.5	145.23 %		10:08:57
1	Ag 328.068†	-3711.5	-3674.6	2.2838 ug/L	2.2838 ppb	10:09:03
1	As 188.979†	-32.0	-12.4	26.458 ug/L	26.458 ppb	10:09:23
1	B 249.677†	803.0	942.3	15.741 ug/L	15.741 ppb	10:09:03
1	Ba 233.527†	22767.4	21251.3	206.61 ug/L	206.61 ppb	10:09:03
1	Be 313.107†	41671.2	42373.9	23.402 ug/L	23.402 ppb	10:09:03
1	Cd 226.502†	417.4	551.5	1.2081 ug/L	1.2081 ppb	10:09:23
1	Co 228.616†	399.4	415.5	5.9755 ug/L	5.9755 ppb	10:09:23
1	Cr 267.716†	3277.5	2983.8	43.213 ug/L	43.213 ppb	10:09:23
1	Cu 324.752†	11792.5	5028.7	20.318 ug/L	20.318 ppb	10:09:03
1	Mn 257.610†	1804776.3	1684364.7	2283.6 ug/L	2283.6 ppb	10:08:57
1	Mo 202.031†	34.5	25.0	7.6578 ug/L	7.6578 ppb	10:09:23
1	Ni 231.604†	862.5	735.4	24.007 ug/L	24.007 ppb	10:09:23
1	P 214.914†	1275.6	1013.1	755.57 ug/L	755.57 ppb	10:09:23
1	Pb 220.353†	225.4	253.4	41.755 ug/L	41.755 ppb	10:09:23
1	S 181.975 Axial†	47.0	17.1	22.346 ug/L	22.346 ppb	10:09:23
1	Sb 206.836†	38.2	6.9	-5.7609 ug/L	-5.7609 ppb	10:09:23
1	Se 196.026†	-296.4	-258.0	-16.816 ug/L	-16.816 ppb	10:09:23
1	Si 251.611†	903930.5	843281.2	32404 ug/L	32404 ppb	10:08:57
1	Sn 189.927†	-45.9	-50.0	-13.911 ug/L	-13.911 ppb	10:09:23
1	Ti 334.940†	1245075.3	1163291.8	2037.5 ug/L	2037.5 ppb	10:08:57
1	Tl 190.801†	-119.0	-87.6	-7.5305 ug/L	-7.5305 ppb	10:09:23
1	U 409.014†	-10296.2	-7561.6	-233.76 ug/L	-233.76 ppb	10:08:57
1	V 292.402†	6450.2	7257.7	46.033 ug/L	46.033 ppb	10:09:23
1	Zn 213.857†	36752.8	33800.2	413.08 ug/L	413.08 ppb	10:09:03
1	SiO2†	910236.9	849182.1	69466 ug/L	69466 ppb	10:10:31
2	Sc Radial	3394.2	3394.2	101 %		10:08:25
2	Y RADIAL	3818.3	3818.3	136.9 %		10:08:25
2	Al 396.153Radial†	23013.1	22874.1	48563 ug/L	48563 ppb	10:08:05
2	Ca 317.933Radial†	2556.4	2522.3	9918.1 ug/L	9918.1 ppb	10:08:25
2	Fe 238.204 Radial†	2491.4	2461.6	69150 ug/L	69150 ppb	10:08:25
2	K 766.490 Radial†	14514.8	12227.4	5565.4 ug/L	5565.4 ppb	10:08:05
2	Mg 279.077 IEC†	82.5	80.2	7765.9 ug/L	7765.9 ppb	10:08:25
2	Na 589.592 Radial†	1213.1	1972.9	653.51 ug/L	653.51 ppb	10:08:05
2	Sr 421.552†	5939.3	5861.0	54.279 ug/L	54.279 ppb	10:08:05
2	Sc 361.383	852679.0	852679.0	104.69 %		10:09:29
2	Y 371.029	1002674.3	1002674.3	143.12 %		10:09:29
2	Ag 328.068†	-3847.9	-3885.4	1.4610 ug/L	1.4610 ppb	10:09:34
2	As 188.979†	-42.0	-22.7	21.328 ug/L	21.328 ppb	10:09:54
2	B 249.677†	767.8	926.1	15.140 ug/L	15.140 ppb	10:09:34
2	Ba 233.527†	23443.2	22390.8	217.60 ug/L	217.60 ppb	10:09:34
2	Be 313.107†	43123.8	44665.7	24.573 ug/L	24.573 ppb	10:09:34
2	Cd 226.502†	415.1	558.4	1.2209 ug/L	1.2209 ppb	10:09:54
2	Co 228.616†	402.0	426.6	6.1238 ug/L	6.1238 ppb	10:09:54
2	Cr 267.716†	3254.6	3033.1	43.917 ug/L	43.917 ppb	10:09:54
2	Cu 324.752†	12261.4	5732.4	22.690 ug/L	22.690 ppb	10:09:34
2	Mn 257.610†	1822953.5	1740889.8	2360.1 ug/L	2360.1 ppb	10:09:29
2	Mo 202.031†	40.4	31.4	8.2957 ug/L	8.2957 ppb	10:09:54
2	Ni 231.604†	847.2	739.5	24.140 ug/L	24.140 ppb	10:09:54

2	P 214.914†	1264.3	1030.0	767.92 ug/L	767.92 ppb	10:09:54
2	Pb 220.353†	222.2	255.2	42.004 ug/L	42.004 ppb	10:09:54
2	S 181.975 Axial†	49.0	20.0	27.593 ug/L	27.593 ppb	10:09:54
2	Sb 206.836†	30.6	0.5	-8.7362 ug/L	-8.7362 ppb	10:09:54
2	Se 196.026†	-283.9	-252.6	-9.7476 ug/L	-9.7476 ppb	10:09:54
2	Si 251.611†	912767.5	871337.0	33482 ug/L	33482 ppb	10:09:29
2	Sn 189.927†	-40.3	-45.7	-12.932 ug/L	-12.932 ppb	10:09:54
2	Ti 334.940†	1257832.0	1202494.2	2106.1 ug/L	2106.1 ppb	10:09:29
2	Tl 190.801†	-105.1	-77.0	-2.3347 ug/L	-2.3347 ppb	10:09:54
2	U 409.014†	-10502.3	-7981.9	-246.41 ug/L	-246.41 ppb	10:09:29
2	V 292.402†	6321.6	7274.9	45.962 ug/L	45.962 ppb	10:09:54
2	Zn 213.857†	38002.6	35791.6	437.90 ug/L	437.90 ppb	10:09:34
2	SiO2†	916691.1	875098.6	71586 ug/L	71586 ppb	10:10:37
3	Sc Radial	3473.2	3473.2	103 %		10:08:50
3	Y RADIAL	3869.4	3869.4	138.8 %		10:08:50
3	Al 396.153Radial†	23162.6	22500.7	47770 ug/L	47770 ppb	10:08:30
3	Ca 317.933Radial†	2499.5	2409.6	9474.9 ug/L	9474.9 ppb	10:08:50
3	Fe 238.204 Radial†	2423.9	2340.1	65739 ug/L	65739 ppb	10:08:50
3	K 766.490 Radial†	14616.3	11998.8	5461.5 ug/L	5461.5 ppb	10:08:30
3	Mg 279.077 IEC†	81.7	77.6	7513.7 ug/L	7513.7 ppb	10:08:50
3	Na 589.592 Radial†	1207.5	1940.2	642.67 ug/L	642.67 ppb	10:08:30
3	Sr 421.552†	5960.8	5748.0	53.234 ug/L	53.234 ppb	10:08:30
3	Sc 361.383	854945.0	854945.0	104.97 %		10:10:00
3	Y 371.029	1005874.1	1005874.1	143.58 %		10:10:00
3	Ag 328.068†	-3894.2	-3919.7	0.2386 ug/L	0.2386 ppb	10:10:05
3	As 188.979†	-30.2	-11.3	27.112 ug/L	27.112 ppb	10:10:25
3	B 249.677†	753.2	910.2	15.241 ug/L	15.241 ppb	10:10:05
3	Ba 233.527†	23683.8	22560.7	219.13 ug/L	219.13 ppb	10:10:05
3	Be 313.107†	43448.1	44865.4	24.667 ug/L	24.667 ppb	10:10:05
3	Cd 226.502†	422.4	564.2	1.6606 ug/L	1.6606 ppb	10:10:25
3	Co 228.616†	407.4	430.7	6.2781 ug/L	6.2781 ppb	10:10:25
3	Cr 267.716†	3262.3	3032.2	43.767 ug/L	43.767 ppb	10:10:25
3	Cu 324.752†	12313.0	5750.6	22.573 ug/L	22.573 ppb	10:10:05
3	Mn 257.610†	1828748.0	1741794.9	2361.0 ug/L	2361.0 ppb	10:10:00
3	Mo 202.031†	36.2	27.3	7.6595 ug/L	7.6595 ppb	10:10:25
3	Ni 231.604†	846.4	736.7	24.047 ug/L	24.047 ppb	10:10:25
3	P 214.914†	1265.3	1027.8	768.67 ug/L	768.67 ppb	10:10:25
3	Pb 220.353†	229.2	261.3	43.283 ug/L	43.283 ppb	10:10:25
3	S 181.975 Axial†	37.1	8.5	6.5940 ug/L	6.5940 ppb	10:10:25
3	Sb 206.836†	38.4	7.9	-5.5235 ug/L	-5.5235 ppb	10:10:25
3	Se 196.026†	-288.2	-255.9	-22.210 ug/L	-22.210 ppb	10:10:25
3	Si 251.611†	913971.1	870172.7	33437 ug/L	33437 ppb	10:10:00
3	Sn 189.927†	-38.4	-43.8	-12.367 ug/L	-12.367 ppb	10:10:25
3	Ti 334.940†	1262533.3	1203788.5	2108.4 ug/L	2108.4 ppb	10:10:00
3	Tl 190.801†	-107.6	-79.0	-3.1357 ug/L	-3.1357 ppb	10:10:25
3	U 409.014†	-10717.6	-8160.4	-251.36 ug/L	-251.36 ppb	10:10:00
3	V 292.402†	6359.9	7295.4	46.601 ug/L	46.601 ppb	10:10:25
3	Zn 213.857†	38452.1	36123.6	442.57 ug/L	442.57 ppb	10:10:05
3	SiO2†	909374.0	865807.0	70825 ug/L	70825 ppb	10:10:43

Mean Data: 246679001|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860041.2	105.59 %	1.332			1.26%
Sc Radial	3419.4	102 %	1.4			1.36%
Y 371.029	1008660.0	143.98 %	1.108			0.77%
Y RADIAL	3828.6	137.3 %	1.32			0.96%
Ag 328.068†	-3826.6	1.3278 ug/L	1.02906	1.3278 ppb	1.02906	77.50%
Al 396.153Radial†	22694.4	48181 ug/L	397.3	48181 ppb	397.3	0.82%
As 188.979†	-15.5	24.966 ug/L	3.1675	24.966 ppb	3.1675	12.69%
B 249.677†	926.2	15.374 ug/L	0.3218	15.374 ppb	0.3218	2.09%
Ba 233.527†	22067.6	214.44 ug/L	6.828	214.44 ppb	6.828	3.18%
Be 313.107†	43968.3	24.214 ug/L	0.7049	24.214 ppb	0.7049	2.91%
Ca 317.933Radial†	2480.5	9753.6 ug/L	242.69	9753.6 ppb	242.69	2.49%
Cd 226.502†	558.0	1.3632 ug/L	0.25763	1.3632 ppb	0.25763	18.90%
Co 228.616†	424.3	6.1258 ug/L	0.15131	6.1258 ppb	0.15131	2.47%
Cr 267.716†	3016.4	43.632 ug/L	0.3710	43.632 ppb	0.3710	0.85%
Cu 324.752†	5503.9	21.860 ug/L	1.3369	21.860 ppb	1.3369	6.12%
Fe 238.204 Radial†	2410.9	67729 ug/L	1775.0	67729 ppb	1775.0	2.62%
K 766.490 Radial†	12081.5	5499.0 ug/L	57.67	5499.0 ppb	57.67	1.05%

Mg 279.077 IEC†	78.5	7606.8 ug/L	138.46	7606.8 ppb	138.46	1.82%
Mn 257.610†	1722349.8	2334.9 ug/L	44.43	2334.9 ppb	44.43	1.90%
Mo 202.031†	27.9	7.8710 ug/L	0.36777	7.8710 ppb	0.36777	4.67%
Na 589.592 Radial†	1965.0	650.89 ug/L	7.282	650.89 ppb	7.282	1.12%
Ni 231.604†	737.2	24.064 ug/L	0.0684	24.064 ppb	0.0684	0.28%
P 214.914†	1023.6	764.05 ug/L	7.353	764.05 ppb	7.353	0.96%
Pb 220.353†	256.7	42.347 ug/L	0.8195	42.347 ppb	0.8195	1.94%
S 181.975 Axial†	15.2	18.845 ug/L	10.9289	18.845 ppb	10.9289	57.99%
Sb 206.836†	5.1	-6.6735 ug/L	1.79028	-6.6735 ppb	1.79028	26.83%
Se 196.026†	-255.5	-16.258 ug/L	6.2499	-16.258 ppb	6.2499	38.44%
Si 251.611†	861597.0	33108 ug/L	609.9	33108 ppb	609.9	1.84%
Sn 189.927†	-46.5	-13.070 ug/L	0.7811	-13.070 ppb	0.7811	5.98%
Sr 421.552†	5813.0	53.834 ug/L	0.5394	53.834 ppb	0.5394	1.00%
Ti 334.940†	1189858.2	2084.0 ug/L	40.28	2084.0 ppb	40.28	1.93%
Tl 190.801†	-81.2	-4.3336 ug/L	2.79737	-4.3336 ppb	2.79737	64.55%
U 409.014†	-7901.3	-243.84 ug/L	9.075	-243.84 ppb	9.075	3.72%
V 292.402†	7276.0	46.198 ug/L	0.3503	46.198 ppb	0.3503	0.76%
Zn 213.857†	35238.5	431.18 ug/L	15.850	431.18 ppb	15.850	3.68%
SiO2†	863362.6	70626 ug/L	1074.1	70626 ppb	1074.1	1.52%

Sequence No.: 4

Sample ID: 1202039809|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 3/9/2010 10:12:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039809|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3385.8	3385.8	101 %		10:15:07
1	Y RADIAL	3999.4	3999.4	143.4 %		10:15:07
1	Al 396.153Radial†	30662.0	30529.4	64815 ug/L	64815 ppb	10:14:47
1	Ca 317.933Radial†	2895.1	2865.1	11266 ug/L	11266 ppb	10:15:07
1	Fe 238.204 Radial†	2941.1	2914.5	81874 ug/L	81874 ppb	10:15:07
1	K 766.490 Radial†	17076.4	14807.9	6740.4 ug/L	6740.4 ppb	10:14:47
1	Mg 279.077 IEC†	105.1	102.9	9967.5 ug/L	9967.5 ppb	10:15:07
1	Na 589.592 Radial†	1571.6	2332.0	772.47 ug/L	772.47 ppb	10:14:47
1	Sr 421.552†	7589.3	7514.8	69.604 ug/L	69.604 ppb	10:14:47
1	Sc 361.383	847054.0	847054.0	104.00 %		10:16:04
1	Y 371.029	1053629.2	1053629.2	150.40 %		10:16:04
1	Ag 328.068†	-4537.7	-4573.1	1.8635 ug/L	1.8635 ppb	10:16:09
1	As 188.979†	-39.3	-20.3	29.375 ug/L	29.375 ppb	10:16:30
1	B 249.677†	741.3	905.5	12.484 ug/L	12.484 ppb	10:16:09
1	Ba 233.527†	26682.7	25654.4	249.40 ug/L	249.40 ppb	10:16:09
1	Be 313.107†	57661.5	58917.9	31.859 ug/L	31.859 ppb	10:16:09
1	Cd 226.502†	487.3	630.4	0.9900 ug/L	0.9900 ppb	10:16:30
1	Co 228.616†	424.1	450.5	5.6934 ug/L	5.6934 ppb	10:16:30
1	Cr 267.716†	4412.3	4166.9	59.755 ug/L	59.755 ppb	10:16:30
1	Cu 324.752†	13834.1	7322.4	28.620 ug/L	28.620 ppb	10:16:09
1	Mn 257.610†	1922673.5	1848338.4	2506.6 ug/L	2506.6 ppb	10:16:04
1	Mo 202.031†	46.2	37.2	9.8174 ug/L	9.8174 ppb	10:16:30
1	Ni 231.604†	1101.2	989.2	32.291 ug/L	32.291 ppb	10:16:30
1	P 214.914†	793.0	584.9	408.31 ug/L	408.31 ppb	10:16:30
1	Pb 220.353†	249.0	282.5	48.176 ug/L	48.176 ppb	10:16:30
1	S 181.975 Axial†	42.3	13.8	13.204 ug/L	13.204 ppb	10:16:30
1	Sb 206.836†	49.9	19.3	-2.6111 ug/L	-2.6111 ppb	10:16:30
1	Se 196.026†	-321.8	-290.8	-2.4660 ug/L	-2.4660 ppb	10:16:30
1	Si 251.611†	1009618.9	970253.7	37283 ug/L	37283 ppb	10:16:04
1	Sn 189.927†	-37.7	-43.5	-12.906 ug/L	-12.906 ppb	10:16:30
1	Ti 334.940†	1503496.4	1446690.1	2533.7 ug/L	2533.7 ppb	10:16:04
1	Tl 190.801†	-125.4	-97.1	-6.1971 ug/L	-6.1971 ppb	10:16:30
1	U 409.014†	-11341.3	-8855.3	-273.99 ug/L	-273.99 ppb	10:16:04
1	V 292.402†	7673.9	8615.3	54.437 ug/L	54.437 ppb	10:16:09
1	Zn 213.857†	45082.1	42839.8	524.24 ug/L	524.24 ppb	10:16:09
1	SiO2†	1010839.3	971441.0	79467 ug/L	79467 ppb	10:17:38
2	Sc Radial	3346.9	3346.9	99.5 %		10:15:32
2	Y RADIAL	3965.5	3965.5	142.2 %		10:15:32
2	Al 396.153Radial†	30748.1	30970.0	65751 ug/L	65751 ppb	10:15:12
2	Ca 317.933Radial†	2856.0	2859.2	11243 ug/L	11243 ppb	10:15:32
2	Fe 238.204 Radial†	2899.2	2906.3	81643 ug/L	81643 ppb	10:15:32
2	K 766.490 Radial†	17013.5	14941.8	6801.4 ug/L	6801.4 ppb	10:15:12
2	Mg 279.077 IEC†	102.6	101.5	9839.6 ug/L	9839.6 ppb	10:15:32
2	Na 589.592 Radial†	1597.5	2376.2	787.09 ug/L	787.09 ppb	10:15:12
2	Sr 421.552†	7627.6	7640.9	70.774 ug/L	70.774 ppb	10:15:12
2	Sc 361.383	840961.1	840961.1	103.25 %		10:16:35
2	Y 371.029	1045311.2	1045311.2	149.21 %		10:16:35
2	Ag 328.068†	-4553.9	-4620.4	1.5500 ug/L	1.5500 ppb	10:16:41
2	As 188.979†	-42.5	-23.8	27.336 ug/L	27.336 ppb	10:17:01
2	B 249.677†	743.5	912.8	12.729 ug/L	12.729 ppb	10:16:41
2	Ba 233.527†	26639.1	25798.1	250.77 ug/L	250.77 ppb	10:16:41
2	Be 313.107†	57607.4	59267.2	32.011 ug/L	32.011 ppb	10:16:41
2	Cd 226.502†	480.3	627.0	0.9621 ug/L	0.9621 ppb	10:17:01
2	Co 228.616†	425.2	454.4	5.8049 ug/L	5.8049 ppb	10:17:01
2	Cr 267.716†	4466.5	4250.1	60.868 ug/L	60.868 ppb	10:17:01
2	Cu 324.752†	13880.1	7463.3	29.074 ug/L	29.074 ppb	10:16:41
2	Mn 257.610†	1909770.3	1849235.8	2507.8 ug/L	2507.8 ppb	10:16:35
2	Mo 202.031†	34.7	26.4	8.8329 ug/L	8.8329 ppb	10:17:01
2	Ni 231.604†	1117.3	1012.4	33.049 ug/L	33.049 ppb	10:17:01

2	P 214.914†	785.1	582.7	406.96 ug/L	406.96 ppb	10:17:01
2	Pb 220.353†	245.3	280.6	48.109 ug/L	48.109 ppb	10:17:01
2	S 181.975 Axial†	39.8	11.8	9.2612 ug/L	9.2612 ppb	10:17:01
2	Sb 206.836†	46.2	16.0	-4.0404 ug/L	-4.0404 ppb	10:17:01
2	Se 196.026†	-325.7	-296.8	-7.9140 ug/L	-7.9140 ppb	10:17:01
2	Si 251.611†	1001586.9	969508.2	37254 ug/L	37254 ppb	10:16:35
2	Sn 189.927†	-30.4	-36.6	-11.287 ug/L	-11.287 ppb	10:17:01
2	Ti 334.940†	1491811.5	1445847.4	2532.2 ug/L	2532.2 ppb	10:16:35
2	Tl 190.801†	-127.7	-100.2	-7.4364 ug/L	-7.4364 ppb	10:17:01
2	U 409.014†	-11333.7	-8926.9	-276.11 ug/L	-276.11 ppb	10:16:35
2	V 292.402†	7669.9	8664.8	54.850 ug/L	54.850 ppb	10:16:41
2	Zn 213.857†	44988.0	43062.8	527.06 ug/L	527.06 ppb	10:16:41
2	SiO2†	1007804.4	975543.8	79802 ug/L	79802 ppb	10:17:44
3	Sc Radial	3355.4	3355.4	99.8 %		10:15:57
3	Y RADIAL	3991.7	3991.7	143.1 %		10:15:57
3	Al 396.153Radial†	30463.9	30607.1	64980 ug/L	64980 ppb	10:15:37
3	Ca 317.933Radial†	2872.3	2868.3	11279 ug/L	11279 ppb	10:15:57
3	Fe 238.204 Radial†	2918.3	2918.0	81974 ug/L	81974 ppb	10:15:57
3	K 766.490 Radial†	16875.1	14760.0	6718.6 ug/L	6718.6 ppb	10:15:37
3	Mg 279.077 IEC†	105.6	104.3	10107 ug/L	10107 ppb	10:15:57
3	Na 589.592 Radial†	1549.0	2323.5	769.65 ug/L	769.65 ppb	10:15:37
3	Sr 421.552†	7543.3	7537.0	69.811 ug/L	69.811 ppb	10:15:37
3	Sc 361.383	850879.0	850879.0	104.47 %		10:17:07
3	Y 371.029	1058246.7	1058246.7	151.05 %		10:17:07
3	Ag 328.068†	-4528.6	-4544.8	2.0434 ug/L	2.0434 ppb	10:17:12
3	As 188.979†	-37.2	-18.2	30.583 ug/L	30.583 ppb	10:17:32
3	B 249.677†	733.0	894.3	12.148 ug/L	12.148 ppb	10:17:12
3	Ba 233.527†	26802.1	25653.4	249.39 ug/L	249.39 ppb	10:17:12
3	Be 313.107†	58033.8	59025.0	31.896 ug/L	31.896 ppb	10:17:12
3	Cd 226.502†	476.2	617.7	0.7876 ug/L	0.7876 ppb	10:17:32
3	Co 228.616†	449.2	472.6	6.2936 ug/L	6.2936 ppb	10:17:32
3	Cr 267.716†	4452.2	4186.0	60.018 ug/L	60.018 ppb	10:17:32
3	Cu 324.752†	13822.4	7251.4	28.394 ug/L	28.394 ppb	10:17:12
3	Mn 257.610†	1926398.7	1843593.7	2500.1 ug/L	2500.1 ppb	10:17:07
3	Mo 202.031†	33.2	24.6	8.6953 ug/L	8.6953 ppb	10:17:32
3	Ni 231.604†	1108.4	991.3	32.361 ug/L	32.361 ppb	10:17:32
3	P 214.914†	806.5	594.3	415.79 ug/L	415.79 ppb	10:17:32
3	Pb 220.353†	251.7	284.0	48.440 ug/L	48.440 ppb	10:17:32
3	S 181.975 Axial†	36.8	8.4	3.1693 ug/L	3.1693 ppb	10:17:32
3	Sb 206.836†	41.4	10.9	-6.2426 ug/L	-6.2426 ppb	10:17:32
3	Se 196.026†	-336.7	-303.7	-13.086 ug/L	-13.086 ppb	10:17:32
3	Si 251.611†	1010521.1	966753.3	37148 ug/L	37148 ppb	10:17:07
3	Sn 189.927†	-44.7	-50.0	-14.448 ug/L	-14.448 ppb	10:17:32
3	Ti 334.940†	1507374.4	1443903.5	2528.8 ug/L	2528.8 ppb	10:17:07
3	Tl 190.801†	-127.6	-98.7	-6.8960 ug/L	-6.8960 ppb	10:17:32
3	U 409.014†	-11541.6	-8998.0	-278.27 ug/L	-278.27 ppb	10:17:07
3	V 292.402†	7643.9	8553.4	53.908 ug/L	53.908 ppb	10:17:12
3	Zn 213.857†	45261.1	42816.3	523.93 ug/L	523.93 ppb	10:17:12
3	SiO2†	1007977.2	964332.1	78885 ug/L	78885 ppb	10:17:50

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Mean Data: 1202039809|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846298.0	103.91 %	0.614			0.59%
Sc Radial	3362.7	100.0 %	0.61			0.61%
Y 371.029	1052395.7	150.22 %	0.936			0.62%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 150.2%						
Y RADIAL	3985.6	142.9 %	0.64			0.45%
Ag 328.068†	-4579.4	1.8190 ug/L	0.24972	1.8190 ppb	0.24972	13.73%
Al 396.153Radial†	30702.2	65182 ug/L	499.3	65182 ppb	499.3	0.77%
As 188.979†	-20.8	29.098 ug/L	1.6410	29.098 ppb	1.6410	5.64%
B 249.677†	904.2	12.454 ug/L	0.2917	12.454 ppb	0.2917	2.34%
Ba 233.527†	25701.9	249.85 ug/L	0.797	249.85 ppb	0.797	0.32%
Be 313.107†	59070.0	31.922 ug/L	0.0790	31.922 ppb	0.0790	0.25%
Ca 317.933Radial†	2864.2	11262 ug/L	18.2	11262 ppb	18.2	0.16%
Cd 226.502†	625.0	0.9132 ug/L	0.10971	0.9132 ppb	0.10971	12.01%
Co 228.616†	459.2	5.9306 ug/L	0.31924	5.9306 ppb	0.31924	5.38%
Cr 267.716†	4201.0	60.214 ug/L	0.5821	60.214 ppb	0.5821	0.97%
Cu 324.752†	7345.7	28.696 ug/L	0.3462	28.696 ppb	0.3462	1.21%
Fe 238.204 Radial†	2912.9	81830 ug/L	169.6	81830 ppb	169.6	0.21%

K 766.490 Radial†	14836.6	6753.5 ug/L	42.93	6753.5 ppb	42.93	0.64%
Mg 279.077 IEC†	102.9	9971.4 ug/L	133.90	9971.4 ppb	133.90	1.34%
Mn 257.610†	1847056.0	2504.8 ug/L	4.09	2504.8 ppb	4.09	0.16%
Mo 202.031†	29.4	9.1152 ug/L	0.61195	9.1152 ppb	0.61195	6.71%
Na 589.592 Radial†	2343.9	776.40 ug/L	9.365	776.40 ppb	9.365	1.21%
Ni 231.604†	997.6	32.567 ug/L	0.4191	32.567 ppb	0.4191	1.29%
P 214.914†	587.3	410.35 ug/L	4.759	410.35 ppb	4.759	1.16%
Pb 220.353†	282.3	48.242 ug/L	0.1749	48.242 ppb	0.1749	0.36%
S 181.975 Axial†	11.3	8.5449 ug/L	5.05562	8.5449 ppb	5.05562	59.17%
Sb 206.836†	15.4	-4.2980 ug/L	1.82942	-4.2980 ppb	1.82942	42.56%
Se 196.026†	-297.1	-7.8220 ug/L	5.31067	-7.8220 ppb	5.31067	67.89%
Si 251.611†	968838.4	37228 ug/L	70.8	37228 ppb	70.8	0.19%
Sn 189.927†	-43.4	-12.880 ug/L	1.5804	-12.880 ppb	1.5804	12.27%
Sr 421.552†	7564.2	70.063 ug/L	0.6243	70.063 ppb	0.6243	0.89%
Ti 334.940†	1445480.3	2531.6 ug/L	2.51	2531.6 ppb	2.51	0.10%
Tl 190.801†	-98.7	-6.8432 ug/L	0.62134	-6.8432 ppb	0.62134	9.08%
U 409.014†	-8926.7	-276.12 ug/L	2.138	-276.12 ppb	2.138	0.77%
V 292.402†	8611.2	54.398 ug/L	0.4722	54.398 ppb	0.4722	0.87%
Zn 213.857†	42906.3	525.08 ug/L	1.726	525.08 ppb	1.726	0.33%
SiO2†	970439.0	79385 ug/L	464.0	79385 ppb	464.0	0.58%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 5

Sample ID: 1202039810|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 3/9/2010 10:20:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039810|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3478.5	3478.5	103 %		10:22:13
1	Y RADIAL	4034.2	4034.2	144.7 %		10:22:13
1	Al 396.153Radial†	36575.1	35435.7	75208 ug/L	75208 ppb	10:21:53
1	Ca 317.933Radial†	3536.8	3408.9	13405 ug/L	13405 ppb	10:22:13
1	Fe 238.204 Radial†	2975.2	2869.6	80627 ug/L	80627 ppb	10:22:13
1	K 766.490 Radial†	29038.1	25922.3	11800 ug/L	11800 ppb	10:21:53
1	Mg 279.077 IEC†	156.4	149.7	14549 ug/L	14549 ppb	10:22:13
1	Na 589.592 Radial†	16907.0	17119.1	5670.5 ug/L	5670.5 ppb	10:21:53
1	Sr 421.552†	58612.8	56651.2	525.26 ug/L	525.26 ppb	10:21:53
1	Sc 361.383	843414.2	843414.2	103.55 %		10:23:12
1	Y 371.029	1048709.0	1048709.0	149.69 %		10:23:12
1	Ag 328.068†	97385.3	93834.5	515.19 ug/L	515.19 ppb	10:23:12
1	As 188.979†	876.6	863.9	544.75 ug/L	544.75 ppb	10:23:32
1	B 249.677†	19212.6	18746.2	519.88 ug/L	519.88 ppb	10:23:12
1	Ba 233.527†	79364.8	76639.9	740.88 ug/L	740.88 ppb	10:23:12
1	Be 313.107†	1274761.8	1234503.7	554.51 ug/L	554.51 ppb	10:23:12
1	Cd 226.502†	35083.5	34041.8	503.87 ug/L	503.87 ppb	10:23:32
1	Co 228.616†	19848.4	19210.1	508.41 ug/L	508.41 ppb	10:23:32
1	Cr 267.716†	44831.2	43217.5	586.83 ug/L	586.83 ppb	10:23:12
1	Cu 324.752†	184688.7	172373.1	572.39 ug/L	572.39 ppb	10:23:12
1	Mn 257.610†	2313705.8	2233934.3	3027.6 ug/L	3027.6 ppb	10:23:12
1	Mo 202.031†	5749.6	5545.2	502.01 ug/L	502.01 ppb	10:23:32
1	Ni 231.604†	17435.2	16767.4	547.18 ug/L	547.18 ppb	10:23:32
1	P 214.914†	1614.0	1381.0	938.81 ug/L	938.81 ppb	10:23:32
1	Pb 220.353†	3482.8	3406.3	552.91 ug/L	552.91 ppb	10:23:32
1	S 181.975 Axial†	2947.9	2819.9	5164.7 ug/L	5164.7 ppb	10:23:32
1	Sb 206.836†	1166.9	1098.2	477.89 ug/L	477.89 ppb	10:23:32
1	Se 196.026†	305.8	314.0	511.47 ug/L	511.47 ppb	10:23:32
1	Si 251.611†	976946.7	942891.9	36225 ug/L	36225 ppb	10:23:12
1	Sn 189.927†	2197.4	2114.8	494.26 ug/L	494.26 ppb	10:23:32
1	Ti 334.940†	1939836.8	1874300.3	3281.9 ug/L	3281.9 ppb	10:23:12
1	Tl 190.801†	1181.1	1164.0	505.44 ug/L	505.44 ppb	10:23:32
1	U 409.014†	6959.5	8770.7	251.51 ug/L	251.51 ppb	10:23:12
1	V 292.402†	73058.4	71788.5	570.06 ug/L	570.06 ppb	10:23:12
1	Zn 213.857†	85486.1	82044.9	1011.6 ug/L	1011.6 ppb	10:23:12
1	SiO2†	975208.9	941227.5	76982 ug/L	76982 ppb	10:24:33
2	Sc Radial	3289.0	3289.0	97.8 %		10:22:38
2	Y RADIAL	3956.0	3956.0	141.9 %		10:22:38
2	Al 396.153Radial†	36088.8	36975.8	78477 ug/L	78477 ppb	10:22:18
2	Ca 317.933Radial†	3622.1	3693.2	14522 ug/L	14522 ppb	10:22:38
2	Fe 238.204 Radial†	3058.7	3120.7	87683 ug/L	87683 ppb	10:22:38
2	K 766.490 Radial†	28791.2	27287.4	12421 ug/L	12421 ppb	10:22:18
2	Mg 279.077 IEC†	162.2	164.3	15976 ug/L	15976 ppb	10:22:38
2	Na 589.592 Radial†	16579.8	17726.2	5871.6 ug/L	5871.6 ppb	10:22:18
2	Sr 421.552†	57577.1	58857.0	545.71 ug/L	545.71 ppb	10:22:18
2	Sc 361.383	842337.6	842337.6	103.42 %		10:23:40
2	Y 371.029	1046542.6	1046542.6	149.38 %		10:23:40
2	Ag 328.068†	97218.1	93793.0	517.14 ug/L	517.14 ppb	10:23:40
2	As 188.979†	867.2	856.0	541.77 ug/L	541.77 ppb	10:24:00
2	B 249.677†	19147.6	18707.0	517.63 ug/L	517.63 ppb	10:23:40
2	Ba 233.527†	79158.2	76538.1	740.11 ug/L	740.11 ppb	10:23:40
2	Be 313.107†	1268044.4	1229581.8	552.32 ug/L	552.32 ppb	10:23:40
2	Cd 226.502†	34807.3	33818.0	499.77 ug/L	499.77 ppb	10:24:00
2	Co 228.616†	19690.5	19081.9	504.87 ug/L	504.87 ppb	10:24:00
2	Cr 267.716†	44678.5	43125.2	585.87 ug/L	585.87 ppb	10:23:40
2	Cu 324.752†	184183.9	172113.0	571.91 ug/L	571.91 ppb	10:23:40
2	Mn 257.610†	2305213.0	2228578.0	3021.0 ug/L	3021.0 ppb	10:23:40
2	Mo 202.031†	5709.6	5513.6	499.75 ug/L	499.75 ppb	10:24:00
2	Ni 231.604†	17313.1	16670.9	544.03 ug/L	544.03 ppb	10:24:00

2	P 214.914†	1604.3	1373.6	928.20 ug/L	928.20 ppb	10:24:00
2	Pb 220.353†	3492.0	3419.6	554.77 ug/L	554.77 ppb	10:24:00
2	S 181.975 Axial†	2907.4	2784.5	5098.9 ug/L	5098.9 ppb	10:24:00
2	Sb 206.836†	1148.1	1081.4	470.44 ug/L	470.44 ppb	10:24:00
2	Se 196.026†	295.4	304.3	523.67 ug/L	523.67 ppb	10:24:00
2	Si 251.611†	973437.7	940704.7	36141 ug/L	36141 ppb	10:23:40
2	Sn 189.927†	2183.3	2103.9	491.48 ug/L	491.48 ppb	10:24:00
2	Ti 334.940†	1933978.5	1871030.1	3276.2 ug/L	3276.2 ppb	10:23:40
2	Tl 190.801†	1190.6	1174.7	509.66 ug/L	509.66 ppb	10:24:00
2	U 409.014†	6729.2	8556.6	244.31 ug/L	244.31 ppb	10:23:40
2	V 292.402†	72646.6	71480.5	566.54 ug/L	566.54 ppb	10:23:40
2	Zn 213.857†	85091.7	81769.0	1007.1 ug/L	1007.1 ppb	10:23:40
2	SiO2†	977842.2	944977.4	77289 ug/L	77289 ppb	10:24:39
3	Sc Radial	3372.3	3372.3	100 %		10:23:04
3	Y RADIAL	4002.9	4002.9	143.5 %		10:23:04
3	Al 396.153Radial†	37431.9	37404.0	79387 ug/L	79387 ppb	10:22:44
3	Ca 317.933Radial†	3609.8	3589.5	14114 ug/L	14114 ppb	10:23:04
3	Fe 238.204 Radial†	3046.3	3031.1	85165 ug/L	85165 ppb	10:23:04
3	K 766.490 Radial†	29557.6	27324.7	12438 ug/L	12438 ppb	10:22:44
3	Mg 279.077 IEC†	158.0	156.1	15172 ug/L	15172 ppb	10:23:04
3	Na 589.592 Radial†	17259.6	17985.5	5957.5 ug/L	5957.5 ppb	10:22:44
3	Sr 421.552†	59928.7	59748.3	553.97 ug/L	553.97 ppb	10:22:44
3	Sc 361.383	847774.1	847774.1	104.09 %		10:24:07
3	Y 371.029	1054228.0	1054228.0	150.48 %		10:24:07
3	Ag 328.068†	97658.5	93613.4	515.42 ug/L	515.42 ppb	10:24:07
3	As 188.979†	862.7	846.3	535.51 ug/L	535.51 ppb	10:24:27
3	B 249.677†	19379.8	18811.3	521.02 ug/L	521.02 ppb	10:24:07
3	Ba 233.527†	79119.7	76010.3	734.95 ug/L	734.95 ppb	10:24:07
3	Be 313.107†	1273824.1	1227271.9	551.27 ug/L	551.27 ppb	10:24:07
3	Cd 226.502†	34800.1	33595.2	496.68 ug/L	496.68 ppb	10:24:27
3	Co 228.616†	19696.2	18965.3	501.79 ug/L	501.79 ppb	10:24:27
3	Cr 267.716†	44733.3	42900.8	582.74 ug/L	582.74 ppb	10:24:07
3	Cu 324.752†	185590.0	172321.7	572.46 ug/L	572.46 ppb	10:24:07
3	Mn 257.610†	2306990.9	2215992.5	3003.7 ug/L	3003.7 ppb	10:24:07
3	Mo 202.031†	5718.4	5486.6	497.14 ug/L	497.14 ppb	10:24:27
3	Ni 231.604†	17334.6	16584.1	541.20 ug/L	541.20 ppb	10:24:27
3	P 214.914†	1592.4	1352.3	913.40 ug/L	913.40 ppb	10:24:27
3	Pb 220.353†	3486.9	3392.9	551.04 ug/L	551.04 ppb	10:24:27
3	S 181.975 Axial†	2912.8	2771.6	5075.1 ug/L	5075.1 ppb	10:24:27
3	Sb 206.836†	1161.6	1087.2	472.86 ug/L	472.86 ppb	10:24:27
3	Se 196.026†	309.7	316.2	527.07 ug/L	527.07 ppb	10:24:27
3	Si 251.611†	976371.9	937487.8	36018 ug/L	36018 ppb	10:24:07
3	Sn 189.927†	2184.3	2091.3	488.61 ug/L	488.61 ppb	10:24:27
3	Ti 334.940†	1941712.1	1866468.1	3268.2 ug/L	3268.2 ppb	10:24:07
3	Tl 190.801†	1170.2	1147.7	498.70 ug/L	498.70 ppb	10:24:27
3	U 409.014†	7111.8	8882.4	254.34 ug/L	254.34 ppb	10:24:07
3	V 292.402†	72925.7	71298.2	565.42 ug/L	565.42 ppb	10:24:07
3	Zn 213.857†	85251.1	81394.5	1002.8 ug/L	1002.8 ppb	10:24:07
3	SiO2†	976818.0	937930.2	76712 ug/L	76712 ppb	10:24:45

Mean Data: 1202039810|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844508.7	103.69 %	0.353			0.34%
Sc Radial	3379.9	100 %	2.8			2.81%
Y 371.029	1049826.6	149.85 %	0.566			0.38%
Y RADIAL	3997.7	143.4 %	1.41			0.98%
Ag 328.068†	93747.0	515.91 ug/L	1.065	515.91 ppb	1.065	0.21%
Al 396.153Radial†	36605.1	77690 ug/L	2197.8	77690 ppb	2197.8	2.83%
As 188.979†	855.4	540.67 ug/L	4.712	540.67 ppb	4.712	0.87%
B 249.677†	18754.8	519.51 ug/L	1.726	519.51 ppb	1.726	0.33%
Ba 233.527†	76396.1	738.65 ug/L	3.222	738.65 ppb	3.222	0.44%
Be 313.107†	1230452.5	552.70 ug/L	1.652	552.70 ppb	1.652	0.30%
Ca 317.933Radial†	3563.9	14014 ug/L	565.6	14014 ppb	565.6	4.04%
Cd 226.502†	33818.3	500.11 ug/L	3.604	500.11 ppb	3.604	0.72%
Co 228.616†	19085.8	505.02 ug/L	3.311	505.02 ppb	3.311	0.66%
Cr 267.716†	43081.2	585.15 ug/L	2.140	585.15 ppb	2.140	0.37%
Cu 324.752†	172269.3	572.25 ug/L	0.299	572.25 ppb	0.299	0.05%
Fe 238.204 Radial†	3007.1	84492 ug/L	3575.7	84492 ppb	3575.7	4.23%
K 766.490 Radial†	26844.8	12220 ug/L	363.8	12220 ppb	363.8	2.98%



Mg 279.077 IEC†	156.7	15232 ug/L	715.2	15232 ppb	715.2	4.70%
Mn 257.610†	2226168.3	3017.4 ug/L	12.31	3017.4 ppb	12.31	0.41%
Mo 202.031†	5515.1	499.64 ug/L	2.438	499.64 ppb	2.438	0.49%
Na 589.592 Radial†	17610.3	5833.2 ug/L	147.31	5833.2 ppb	147.31	2.53%
Ni 231.604†	16674.1	544.13 ug/L	2.992	544.13 ppb	2.992	0.55%
P 214.914†	1369.0	926.80 ug/L	12.763	926.80 ppb	12.763	1.38%
Pb 220.353†	3406.3	552.91 ug/L	1.861	552.91 ppb	1.861	0.34%
S 181.975 Axial†	2792.0	5112.9 ug/L	46.40	5112.9 ppb	46.40	0.91%
Sb 206.836†	1088.9	473.73 ug/L	3.800	473.73 ppb	3.800	0.80%
Se 196.026†	311.5	520.74 ug/L	8.200	520.74 ppb	8.200	1.57%
Si 251.611†	940361.5	36128 ug/L	104.4	36128 ppb	104.4	0.29%
Sn 189.927†	2103.4	491.45 ug/L	2.825	491.45 ppb	2.825	0.57%
Sr 421.552†	58418.8	541.65 ug/L	14.782	541.65 ppb	14.782	2.73%
Ti 334.940†	1870599.5	3275.4 ug/L	6.87	3275.4 ppb	6.87	0.21%
Tl 190.801†	1162.2	504.60 ug/L	5.530	504.60 ppb	5.530	1.10%
U 409.014†	8736.5	250.05 ug/L	5.170	250.05 ppb	5.170	2.07%
V 292.402†	71522.4	567.34 ug/L	2.424	567.34 ppb	2.424	0.43%
Zn 213.857†	81736.1	1007.2 ug/L	4.39	1007.2 ppb	4.39	0.44%
SiO2†	941378.4	76994 ug/L	288.4	76994 ppb	288.4	0.37%

Sequence No.: 6

Sample ID: 1202039812|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 3/9/2010 10:26:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039812|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3373.2	3373.2	100 %		10:29:08
1	Y RADIAL	3703.8	3703.8	132.8 %		10:29:08
1	Al 396.153Radial†	42958.0	42904.0	91064 ug/L	91064 ppb	10:28:48
1	Ca 317.933Radial†	3893.9	3871.7	15224 ug/L	15224 ppb	10:29:08
1	Fe 238.204 Radial†	3227.7	3211.2	90223 ug/L	90223 ppb	10:29:08
1	K 766.490 Radial†	32217.5	29969.0	13643 ug/L	13643 ppb	10:28:48
1	Mg 279.077 IEC†	173.7	171.7	16691 ug/L	16691 ppb	10:29:08
1	Na 589.592 Radial†	16369.3	17093.1	5661.9 ug/L	5661.9 ppb	10:28:48
1	Sr 421.552†	58543.9	58351.3	541.01 ug/L	541.01 ppb	10:28:48
1	Sc 361.383	857703.2	857703.2	105.31 %		10:30:07
1	Y 371.029	1069221.9	1069221.9	152.62 %		10:30:07
1	Ag 328.068†	96946.2	91850.8	507.82 ug/L	507.82 ppb	10:30:07
1	As 188.979†	868.8	842.4	535.27 ug/L	535.27 ppb	10:30:27
1	B 249.677†	19198.0	18423.1	509.15 ug/L	509.15 ppb	10:30:07
1	Ba 233.527†	82621.2	78455.4	758.63 ug/L	758.63 ppb	10:30:07
1	Be 313.107†	1272703.3	1212040.4	544.73 ug/L	544.73 ppb	10:30:07
1	Cd 226.502†	34906.7	33309.4	491.86 ug/L	491.86 ppb	10:30:27
1	Co 228.616†	19741.5	18789.3	496.79 ug/L	496.79 ppb	10:30:27
1	Cr 267.716†	46531.8	44111.1	599.28 ug/L	599.28 ppb	10:30:07
1	Cu 324.752†	185156.7	169846.2	564.58 ug/L	564.58 ppb	10:30:07
1	Mn 257.610†	2468997.8	2344177.4	3177.5 ug/L	3177.5 ppb	10:30:07
1	Mo 202.031†	5689.7	5395.8	489.43 ug/L	489.43 ppb	10:30:27
1	Ni 231.604†	17660.9	16701.2	545.02 ug/L	545.02 ppb	10:30:27
1	P 214.914†	1635.4	1375.4	932.14 ug/L	932.14 ppb	10:30:27
1	Pb 220.353†	3491.0	3358.1	547.31 ug/L	547.31 ppb	10:30:27
1	S 181.975 Axial†	2931.3	2756.8	5045.7 ug/L	5045.7 ppb	10:30:27
1	Sb 206.836†	1077.2	994.2	431.96 ug/L	431.96 ppb	10:30:27
1	Se 196.026†	264.7	270.0	505.06 ug/L	505.06 ppb	10:30:27
1	Si 251.611†	1046842.0	993547.6	38172 ug/L	38172 ppb	10:30:07
1	Sn 189.927†	2186.7	2069.3	483.34 ug/L	483.34 ppb	10:30:27
1	Ti 334.940†	2019143.9	1918402.5	3359.2 ug/L	3359.2 ppb	10:30:07
1	Tl 190.801†	1175.4	1139.6	497.03 ug/L	497.03 ppb	10:30:27
1	U 409.014†	6151.6	7891.5	224.12 ug/L	224.12 ppb	10:30:07
1	V 292.402†	73874.1	71387.7	565.16 ug/L	565.16 ppb	10:30:07
1	Zn 213.857†	90148.0	85096.5	1048.4 ug/L	1048.4 ppb	10:30:07
1	SiO2†	1038378.3	985524.3	80606 ug/L	80606 ppb	10:31:28
2	Sc Radial	3401.4	3401.4	101 %		10:29:33
2	Y RADIAL	3718.3	3718.3	133.3 %		10:29:33
2	Al 396.153Radial†	42449.2	42045.8	89241 ug/L	89241 ppb	10:29:13
2	Ca 317.933Radial†	3922.6	3867.9	15209 ug/L	15209 ppb	10:29:33
2	Fe 238.204 Radial†	3257.1	3213.5	90290 ug/L	90290 ppb	10:29:33
2	K 766.490 Radial†	32050.7	29537.7	13446 ug/L	13446 ppb	10:29:13
2	Mg 279.077 IEC†	175.1	171.6	16685 ug/L	16685 ppb	10:29:33
2	Na 589.592 Radial†	16055.8	16647.8	5514.4 ug/L	5514.4 ppb	10:29:13
2	Sr 421.552†	57506.0	56841.0	527.01 ug/L	527.01 ppb	10:29:13
2	Sc 361.383	849709.3	849709.3	104.33 %		10:30:35
2	Y 371.029	1059358.9	1059358.9	151.21 %		10:30:35
2	Ag 328.068†	96175.2	91977.9	508.50 ug/L	508.50 ppb	10:30:35
2	As 188.979†	852.4	834.5	530.72 ug/L	530.72 ppb	10:30:55
2	B 249.677†	19033.9	18437.3	509.53 ug/L	509.53 ppb	10:30:35
2	Ba 233.527†	81756.7	78364.9	757.76 ug/L	757.76 ppb	10:30:35
2	Be 313.107†	1257105.3	1208459.1	543.14 ug/L	543.14 ppb	10:30:35
2	Cd 226.502†	34940.2	33653.4	497.03 ug/L	497.03 ppb	10:30:55
2	Co 228.616†	19747.3	18971.2	501.69 ug/L	501.69 ppb	10:30:55
2	Cr 267.716†	45907.5	43928.5	596.82 ug/L	596.82 ppb	10:30:35
2	Cu 324.752†	183825.2	170224.1	565.83 ug/L	565.83 ppb	10:30:35
2	Mn 257.610†	2441272.5	2339658.9	3171.4 ug/L	3171.4 ppb	10:30:35
2	Mo 202.031†	5702.7	5459.1	495.09 ug/L	495.09 ppb	10:30:55
2	Ni 231.604†	17719.7	16915.3	552.01 ug/L	552.01 ppb	10:30:55

2	P 214.914†	1621.3	1376.4	932.25 ug/L	932.25 ppb	10:30:55
2	Pb 220.353†	3503.2	3400.9	553.79 ug/L	553.79 ppb	10:30:55
2	S 181.975 Axial†	2934.6	2786.1	5100.0 ug/L	5100.0 ppb	10:30:55
2	Sb 206.836†	1092.1	1018.1	442.52 ug/L	442.52 ppb	10:30:55
2	Se 196.026†	256.5	264.5	500.13 ug/L	500.13 ppb	10:30:55
2	Si 251.611†	1036687.6	993166.5	38157 ug/L	38157 ppb	10:30:35
2	Sn 189.927†	2194.9	2096.7	489.77 ug/L	489.77 ppb	10:30:55
2	Ti 334.940†	1999881.2	1917977.0	3358.4 ug/L	3358.4 ppb	10:30:35
2	Tl 190.801†	1162.4	1137.7	496.22 ug/L	496.22 ppb	10:30:55
2	U 409.014†	6271.9	8061.8	229.21 ug/L	229.21 ppb	10:30:35
2	V 292.402†	73171.6	71374.3	565.13 ug/L	565.13 ppb	10:30:35
2	Zn 213.857†	89160.6	84955.4	1046.6 ug/L	1046.6 ppb	10:30:35
2	SiO2†	1031885.3	988577.1	80855 ug/L	80855 ppb	10:31:34
3	Sc Radial	3350.3	3350.3	99.6 %		10:29:59
3	Y RADIAL	3703.9	3703.9	132.8 %		10:29:59
3	Al 396.153Radial†	42638.8	42876.5	91005 ug/L	91005 ppb	10:29:39
3	Ca 317.933Radial†	3865.3	3869.6	15216 ug/L	15216 ppb	10:29:59
3	Fe 238.204 Radial†	3207.9	3213.3	90284 ug/L	90284 ppb	10:29:59
3	K 766.490 Radial†	32181.2	30152.2	13726 ug/L	13726 ppb	10:29:39
3	Mg 279.077 IEC†	175.6	174.8	16996 ug/L	16996 ppb	10:29:59
3	Na 589.592 Radial†	16128.7	16963.1	5618.9 ug/L	5618.9 ppb	10:29:39
3	Sr 421.552†	57941.9	58146.0	539.11 ug/L	539.11 ppb	10:29:39
3	Sc 361.383	848121.3	848121.3	104.13 %		10:31:02
3	Y 371.029	1058090.3	1058090.3	151.03 %		10:31:02
3	Ag 328.068†	95832.8	91821.6	507.68 ug/L	507.68 ppb	10:31:02
3	As 188.979†	852.5	836.1	531.61 ug/L	531.61 ppb	10:31:22
3	B 249.677†	19000.7	18439.7	509.61 ug/L	509.61 ppb	10:31:02
3	Ba 233.527†	81549.2	78312.3	757.25 ug/L	757.25 ppb	10:31:02
3	Be 313.107†	1257204.5	1210810.6	544.18 ug/L	544.18 ppb	10:31:02
3	Cd 226.502†	34613.5	33402.3	493.25 ug/L	493.25 ppb	10:31:22
3	Co 228.616†	19580.3	18846.3	498.33 ug/L	498.33 ppb	10:31:22
3	Cr 267.716†	45924.9	44027.5	598.15 ug/L	598.15 ppb	10:31:02
3	Cu 324.752†	183112.6	169869.7	564.66 ug/L	564.66 ppb	10:31:02
3	Mn 257.610†	2435677.6	2338667.5	3170.0 ug/L	3170.0 ppb	10:31:02
3	Mo 202.031†	5644.3	5413.2	490.99 ug/L	490.99 ppb	10:31:22
3	Ni 231.604†	17517.5	16752.9	546.71 ug/L	546.71 ppb	10:31:22
3	P 214.914†	1590.9	1350.2	912.11 ug/L	912.11 ppb	10:31:22
3	Pb 220.353†	3498.9	3403.1	554.53 ug/L	554.53 ppb	10:31:22
3	S 181.975 Axial†	2910.6	2768.3	5066.9 ug/L	5066.9 ppb	10:31:22
3	Sb 206.836†	1073.4	1002.1	435.41 ug/L	435.41 ppb	10:31:22
3	Se 196.026†	254.7	263.2	499.46 ug/L	499.46 ppb	10:31:22
3	Si 251.611†	1033078.5	991561.2	38096 ug/L	38096 ppb	10:31:02
3	Sn 189.927†	2159.0	2066.2	482.60 ug/L	482.60 ppb	10:31:22
3	Ti 334.940†	1994275.9	1916183.5	3355.2 ug/L	3355.2 ppb	10:31:02
3	Tl 190.801†	1165.9	1143.1	498.35 ug/L	498.35 ppb	10:31:22
3	U 409.014†	6313.4	8112.9	230.73 ug/L	230.73 ppb	10:31:02
3	V 292.402†	72987.5	71328.8	564.72 ug/L	564.72 ppb	10:31:02
3	Zn 213.857†	88764.7	84735.2	1043.9 ug/L	1043.9 ppb	10:31:02
3	SiO2†	1048903.8	1006772.6	82344 ug/L	82344 ppb	10:31:40

Mean Data: 1202039812|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	851844.6	104.59 %	0.631			0.60%
Sc Radial	3375.0	100 %	0.8			0.76%
Y 371.029	1062223.7	151.62 %	0.870			0.57%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 151.6%						
Y RADIAL	3708.7	133.0 %	0.30			0.22%
Ag 328.068†	91883.4	508.00 ug/L	0.437	508.00 ppb	0.437	0.09%
Al 396.153Radial†	42608.8	90437 ug/L	1035.6	90437 ppb	1035.6	1.15%
As 188.979†	837.7	532.53 ug/L	2.412	532.53 ppb	2.412	0.45%
B 249.677†	18433.4	509.43 ug/L	0.245	509.43 ppb	0.245	0.05%
Ba 233.527†	78377.5	757.88 ug/L	0.696	757.88 ppb	0.696	0.09%
Be 313.107†	1210436.7	544.02 ug/L	0.806	544.02 ppb	0.806	0.15%
Ca 317.933Radial†	3869.7	15216 ug/L	7.5	15216 ppb	7.5	0.05%
Cd 226.502†	33455.0	494.05 ug/L	2.675	494.05 ppb	2.675	0.54%
Co 228.616†	18868.9	498.94 ug/L	2.502	498.94 ppb	2.502	0.50%
Cr 267.716†	44022.4	598.08 ug/L	1.233	598.08 ppb	1.233	0.21%
Cu 324.752†	169980.0	565.02 ug/L	0.698	565.02 ppb	0.698	0.12%
Fe 238.204 Radial†	3212.7	90266 ug/L	37.1	90266 ppb	37.1	0.04%

K 766.490 Radial†	29886.3	13605 ug/L	143.7	13605 ppb	143.7	1.06%
Mg 279.077 IEC†	172.7	16791 ug/L	177.9	16791 ppb	177.9	1.06%
Mn 257.610†	2340834.6	3172.9 ug/L	3.97	3172.9 ppb	3.97	0.13%
Mo 202.031†	5422.7	491.84 ug/L	2.921	491.84 ppb	2.921	0.59%
Na 589.592 Radial†	16901.3	5598.4 ug/L	75.84	5598.4 ppb	75.84	1.35%
Ni 231.604†	16789.8	547.91 ug/L	3.647	547.91 ppb	3.647	0.67%
P 214.914†	1367.3	925.50 ug/L	11.598	925.50 ppb	11.598	1.25%
Pb 220.353†	3387.4	551.88 ug/L	3.971	551.88 ppb	3.971	0.72%
S 181.975 Axial†	2770.4	5070.9 ug/L	27.35	5070.9 ppb	27.35	0.54%
Sb 206.836†	1004.8	436.63 ug/L	5.381	436.63 ppb	5.381	1.23%
Se 196.026†	265.9	501.55 ug/L	3.058	501.55 ppb	3.058	0.61%
Si 251.611†	992758.4	38142 ug/L	40.5	38142 ppb	40.5	0.11%
Sn 189.927†	2077.4	485.24 ug/L	3.943	485.24 ppb	3.943	0.81%
Sr 421.552†	57779.4	535.71 ug/L	7.596	535.71 ppb	7.596	1.42%
Ti 334.940†	1917521.0	3357.6 ug/L	2.08	3357.6 ppb	2.08	0.06%
Tl 190.801†	1140.1	497.20 ug/L	1.077	497.20 ppb	1.077	0.22%
U 409.014†	8022.1	228.02 ug/L	3.460	228.02 ppb	3.460	1.52%
V 292.402†	71363.6	565.00 ug/L	0.245	565.00 ppb	0.245	0.04%
Zn 213.857†	84929.0	1046.3 ug/L	2.29	1046.3 ppb	2.29	0.22%
SiO2†	993624.7	81268 ug/L	939.8	81268 ppb	939.8	1.16%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 7

Sample ID: 1202039811|951773|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 3/9/2010 10:33:51

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202039811|951773|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3470.4	3470.4	103 %		10:36:04
1	Y RADIAL	3047.5	3047.5	109.3 %		10:36:04
1	Al 396.153Radial†	4545.9	4475.3	9501.2 ug/L	9501.2 ppb	10:35:44
1	Ca 317.933Radial†	532.3	504.9	1985.3 ug/L	1985.3 ppb	10:36:04
1	Fe 238.204 Radial†	520.9	497.6	13979 ug/L	13979 ppb	10:36:04
1	K 766.490 Radial†	4527.0	2231.5	1015.6 ug/L	1015.6 ppb	10:35:44
1	Mg 279.077 IEC†	16.1	14.1	1363.7 ug/L	1363.7 ppb	10:36:04
1	Na 589.592 Radial†	-425.4	358.5	118.74 ug/L	118.74 ppb	10:35:44
1	Sr 421.552†	1227.1	1164.8	10.787 ug/L	10.787 ppb	10:35:44
1	Sc 361.383	853628.2	853628.2	104.81 %		10:37:01
1	Y 371.029	778871.9	778871.9	111.18 %		10:37:01
1	Ag 328.068†	-658.2	-837.9	0.0270 ug/L	0.0270 ppb	10:37:01
1	As 188.979†	-23.0	-4.5	4.3830 ug/L	4.3830 ppb	10:37:21
1	B 249.677†	-11.5	181.6	2.9014 ug/L	2.9014 ppb	10:37:01
1	Ba 233.527†	4791.6	4569.7	44.407 ug/L	44.407 ppb	10:37:01
1	Be 313.107†	5689.6	8902.5	4.9140 ug/L	4.9140 ppb	10:37:01
1	Cd 226.502†	-54.0	110.3	0.2101 ug/L	0.2101 ppb	10:37:21
1	Co 228.616†	45.3	85.8	1.2251 ug/L	1.2251 ppb	10:37:21
1	Cr 267.716†	736.4	627.0	9.0656 ug/L	9.0656 ppb	10:37:21
1	Cu 324.752†	7832.9	1494.0	5.6918 ug/L	5.6918 ppb	10:37:01
1	Mn 257.610†	379001.1	361222.0	489.68 ug/L	489.68 ppb	10:37:01
1	Mo 202.031†	15.2	7.3	1.7643 ug/L	1.7643 ppb	10:37:21
1	Ni 231.604†	302.8	219.2	7.1558 ug/L	7.1558 ppb	10:37:21
1	P 214.914†	395.5	199.8	148.23 ug/L	148.23 ppb	10:37:21
1	Pb 220.353†	-4.7	38.5	6.3156 ug/L	6.3156 ppb	10:37:21
1	S 181.975 Axial†	40.2	11.5	19.371 ug/L	19.371 ppb	10:37:21
1	Sb 206.836†	31.4	1.3	-1.2910 ug/L	-1.2910 ppb	10:37:21
1	Se 196.026†	-66.8	-45.1	2.9740 ug/L	2.9740 ppb	10:37:21
1	Si 251.611†	187159.7	178036.6	6841.2 ug/L	6841.2 ppb	10:37:01
1	Sn 189.927†	-10.5	-17.2	-4.4904 ug/L	-4.4904 ppb	10:37:21
1	Ti 334.940†	254432.0	243775.0	426.98 ug/L	426.98 ppb	10:37:01
1	Tl 190.801†	-38.1	-12.9	0.6485 ug/L	0.6485 ppb	10:37:21
1	U 409.014†	-3832.6	-1606.9	-49.616 ug/L	-49.616 ppb	10:37:01
1	V 292.402†	391.3	1609.8	10.408 ug/L	10.408 ppb	10:37:01
1	Zn 213.857†	8242.6	7356.0	90.017 ug/L	90.017 ppb	10:37:01
1	SiO2†	185632.7	176593.5	14446 ug/L	14446 ppb	10:38:17
2	Sc Radial	3353.1	3353.1	99.7 %		10:36:29
2	Y RADIAL	2951.9	2951.9	105.9 %		10:36:29
2	Al 396.153Radial†	4566.0	4649.5	9871.1 ug/L	9871.1 ppb	10:36:09
2	Ca 317.933Radial†	537.3	528.0	2076.0 ug/L	2076.0 ppb	10:36:29
2	Fe 238.204 Radial†	526.7	521.1	14638 ug/L	14638 ppb	10:36:29
2	K 766.490 Radial†	4590.1	2448.3	1114.3 ug/L	1114.3 ppb	10:36:09
2	Mg 279.077 IEC†	19.2	17.7	1713.1 ug/L	1713.1 ppb	10:36:29
2	Na 589.592 Radial†	-383.4	386.2	127.93 ug/L	127.93 ppb	10:36:09
2	Sr 421.552†	1239.6	1218.9	11.288 ug/L	11.288 ppb	10:36:09
2	Sc 361.383	853969.6	853969.6	104.85 %		10:37:26
2	Y 371.029	779302.3	779302.3	111.24 %		10:37:26
2	Ag 328.068†	-659.7	-839.1	0.2187 ug/L	0.2187 ppb	10:37:26
2	As 188.979†	-20.8	-2.4	5.7275 ug/L	5.7275 ppb	10:37:46
2	B 249.677†	-35.3	159.0	2.1494 ug/L	2.1494 ppb	10:37:26
2	Ba 233.527†	4828.1	4602.6	44.742 ug/L	44.742 ppb	10:37:26
2	Be 313.107†	5643.0	8855.8	4.8900 ug/L	4.8900 ppb	10:37:26
2	Cd 226.502†	-38.3	125.3	0.3677 ug/L	0.3677 ppb	10:37:46
2	Co 228.616†	33.0	74.1	0.9026 ug/L	0.9026 ppb	10:37:46
2	Cr 267.716†	714.4	605.6	8.8029 ug/L	8.8029 ppb	10:37:46
2	Cu 324.752†	7844.9	1502.5	5.7534 ug/L	5.7534 ppb	10:37:26
2	Mn 257.610†	377301.8	359456.8	487.35 ug/L	487.35 ppb	10:37:26
2	Mo 202.031†	13.6	5.8	1.6819 ug/L	1.6819 ppb	10:37:46
2	Ni 231.604†	320.9	236.4	7.7171 ug/L	7.7171 ppb	10:37:46

2	P 214.914†	396.3	200.3	148.24 ug/L	148.24 ppb	10:37:46
2	Pb 220.353†	-10.8	32.7	5.3831 ug/L	5.3831 ppb	10:37:46
2	S 181.975 Axial†	34.5	6.1	9.3608 ug/L	9.3608 ppb	10:37:46
2	Sb 206.836†	26.4	-3.5	-3.3526 ug/L	-3.3526 ppb	10:37:46
2	Se 196.026†	-72.1	-50.2	0.6312 ug/L	0.6312 ppb	10:37:46
2	Si 251.611†	186499.8	177335.8	6814.3 ug/L	6814.3 ppb	10:37:26
2	Sn 189.927†	-5.9	-12.9	-3.4918 ug/L	-3.4918 ppb	10:37:46
2	Ti 334.940†	253654.2	242936.1	425.49 ug/L	425.49 ppb	10:37:26
2	Tl 190.801†	-34.6	-9.5	1.9913 ug/L	1.9913 ppb	10:37:46
2	U 409.014†	-3747.5	-1524.3	-47.223 ug/L	-47.223 ppb	10:37:26
2	V 292.402†	299.7	1522.3	9.6187 ug/L	9.6187 ppb	10:37:26
2	Zn 213.857†	8244.8	7354.9	89.902 ug/L	89.902 ppb	10:37:26
2	SiO2†	183606.1	174589.8	14282 ug/L	14282 ppb	10:38:22
3	Sc Radial	3411.6	3411.6	101 %		10:36:54
3	Y RADIAL	2991.4	2991.4	107.3 %		10:36:54
3	Al 396.153Radial†	4670.1	4673.5	9922.1 ug/L	9922.1 ppb	10:36:34
3	Ca 317.933Radial†	533.6	515.1	2025.5 ug/L	2025.5 ppb	10:36:54
3	Fe 238.204 Radial†	525.0	510.3	14337 ug/L	14337 ppb	10:36:54
3	K 766.490 Radial†	4641.4	2419.9	1101.4 ug/L	1101.4 ppb	10:36:34
3	Mg 279.077 IEC†	21.7	19.9	1927.3 ug/L	1927.3 ppb	10:36:54
3	Na 589.592 Radial†	-358.9	416.9	138.11 ug/L	138.11 ppb	10:36:34
3	Sr 421.552†	1271.4	1229.0	11.382 ug/L	11.382 ppb	10:36:34
3	Sc 361.383	807066.6	807066.6	99.090 %		10:37:52
3	Y 371.029	742126.1	742126.1	105.93 %		10:37:52
3	Ag 328.068†	-790.8	-1008.0	-0.7446 ug/L	-0.7446 ppb	10:37:52
3	As 188.979†	-26.4	-9.2	1.9260 ug/L	1.9260 ppb	10:38:12
3	B 249.677†	-15.9	176.6	2.6992 ug/L	2.6992 ppb	10:37:52
3	Ba 233.527†	4739.6	4780.9	46.450 ug/L	46.450 ppb	10:37:52
3	Be 313.107†	5595.7	9120.9	5.0566 ug/L	5.0566 ppb	10:37:52
3	Cd 226.502†	-46.3	115.0	0.2439 ug/L	0.2439 ppb	10:38:12
3	Co 228.616†	47.6	90.6	1.3069 ug/L	1.3069 ppb	10:38:12
3	Cr 267.716†	715.0	645.9	9.3368 ug/L	9.3368 ppb	10:38:12
3	Cu 324.752†	7745.6	1837.1	6.8432 ug/L	6.8432 ppb	10:37:52
3	Mn 257.610†	375101.2	378149.1	512.58 ug/L	512.58 ppb	10:37:52
3	Mo 202.031†	14.7	7.7	1.8231 ug/L	1.8231 ppb	10:38:12
3	Ni 231.604†	306.6	239.7	7.8267 ug/L	7.8267 ppb	10:38:12
3	P 214.914†	391.1	217.0	161.48 ug/L	161.48 ppb	10:38:12
3	Pb 220.353†	9.1	52.2	8.5653 ug/L	8.5653 ppb	10:38:12
3	S 181.975 Axial†	27.3	0.8	-0.4601 ug/L	-0.4601 ppb	10:38:12
3	Sb 206.836†	21.1	-7.4	-5.1036 ug/L	-5.1036 ppb	10:38:12
3	Se 196.026†	-73.4	-55.4	-4.6542 ug/L	-4.6542 ppb	10:38:12
3	Si 251.611†	185235.2	186396.9	7162.5 ug/L	7162.5 ppb	10:37:52
3	Sn 189.927†	-12.8	-20.1	-5.1934 ug/L	-5.1934 ppb	10:38:12
3	Ti 334.940†	251973.3	255299.4	447.12 ug/L	447.12 ppb	10:37:52
3	Tl 190.801†	-39.8	-16.7	-0.5911 ug/L	-0.5911 ppb	10:38:12
3	U 409.014†	-3710.3	-1694.5	-52.274 ug/L	-52.274 ppb	10:37:52
3	V 292.402†	407.3	1647.5	10.644 ug/L	10.644 ppb	10:37:52
3	Zn 213.857†	8182.7	7749.3	94.886 ug/L	94.886 ppb	10:37:52
3	SiO2†	185868.3	187049.7	15301 ug/L	15301 ppb	10:38:28

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Mean Data: 1202039811|951773|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838221.5	102.91 %		3.313			3.22%
Sc Radial	3411.7	101 %		1.7			1.72%
Y 371.029	766766.8	109.45 %		3.046			2.78%
Y RADIAL	2996.9	107.5 %		1.72			1.60%
Ag 328.068†	-895.0	-0.1663 ug/L		0.50990	-0.1663 ppb	0.50990	306.60%
Al 396.153Radial†	4599.4	9764.8 ug/L		229.72	9764.8 ppb	229.72	2.35%
As 188.979†	-5.4	4.0122 ug/L		1.92771	4.0122 ppb	1.92771	48.05%
B 249.677†	172.4	2.5833 ug/L		0.38919	2.5833 ppb	0.38919	15.07%
Ba 233.527†	4651.1	45.200 ug/L		1.0959	45.200 ppb	1.0959	2.42%
Be 313.107†	8959.7	4.9536 ug/L		0.09007	4.9536 ppb	0.09007	1.82%
Ca 317.933Radial†	516.0	2029.0 ug/L		45.46	2029.0 ppb	45.46	2.24%
Cd 226.502†	116.9	0.2739 ug/L		0.08298	0.2739 ppb	0.08298	30.30%
Co 228.616†	83.5	1.1449 ug/L		0.21376	1.1449 ppb	0.21376	18.67%
Cr 267.716†	626.1	9.0684 ug/L		0.26695	9.0684 ppb	0.26695	2.94%
Cu 324.752†	1611.2	6.0961 ug/L		0.64774	6.0961 ppb	0.64774	10.63%
Fe 238.204 Radial†	509.7	14318 ug/L		330.2	14318 ppb	330.2	2.31%
K 766.490 Radial†	2366.6	1077.1 ug/L		53.64	1077.1 ppb	53.64	4.98%

Mg 279.077 IEC†	17.2	1668.0 ug/L	284.50	1668.0 ppb	284.50	17.06%
Mn 257.610†	366276.0	496.54 ug/L	13.943	496.54 ppb	13.943	2.81%
Mo 202.031†	6.9	1.7564 ug/L	0.07090	1.7564 ppb	0.07090	4.04%
Na 589.592 Radial†	387.2	128.26 ug/L	9.690	128.26 ppb	9.690	7.56%
Ni 231.604†	231.8	7.5665 ug/L	0.35989	7.5665 ppb	0.35989	4.76%
P 214.914†	205.7	152.65 ug/L	7.648	152.65 ppb	7.648	5.01%
Pb 220.353†	41.2	6.7547 ug/L	1.63590	6.7547 ppb	1.63590	24.22%
S 181.975 Axial†	6.1	9.4238 ug/L	9.91559	9.4238 ppb	9.91559	105.22%
Sb 206.836†	-3.2	-3.2491 ug/L	1.90838	-3.2491 ppb	1.90838	58.74%
Se 196.026†	-50.2	-0.3497 ug/L	3.90755	-0.3497 ppb	3.90755	>999.9%
Si 251.611†	180589.8	6939.3 ug/L	193.72	6939.3 ppb	193.72	2.79%
Sn 189.927†	-16.7	-4.3919 ug/L	0.85503	-4.3919 ppb	0.85503	19.47%
Sr 421.552†	1204.2	11.152 ug/L	0.3198	11.152 ppb	0.3198	2.87%
Ti 334.940†	247336.8	433.20 ug/L	12.078	433.20 ppb	12.078	2.79%
Tl 190.801†	-13.1	0.6829 ug/L	1.29156	0.6829 ppb	1.29156	189.13%
U 409.014†	-1608.6	-49.704 ug/L	2.5267	-49.704 ppb	2.5267	5.08%
V 292.402†	1593.2	10.223 ug/L	0.5368	10.223 ppb	0.5368	5.25%
Zn 213.857†	7486.7	91.602 ug/L	2.8450	91.602 ppb	2.8450	3.11%
SiO2†	179411.0	14676 ug/L	547.3	14676 ppb	547.3	3.73%

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/9/2010 10:40:38

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	3336.4	3336.4	99.2 %		10:42:50
1	Y RADIAL	2728.1	2728.1	97.83 %		10:42:50
1	Al 396.153Radial†	2284.8	2372.7	5012.4 ug/L	5012.4 ppb	10:42:30
1	Ca 317.933Radial†	1313.7	1313.4	5164.6 ug/L	5164.6 ppb	10:42:50
1	Fe 238.204 Radial†	195.9	190.2	5358.7 ug/L	5358.7 ppb	10:42:50
1	K 766.490 Radial†	13156.3	11107.0	5053.1 ug/L	5053.1 ppb	10:42:30
1	Mg 279.077 IEC†	53.7	52.5	5135.4 ug/L	5135.4 ppb	10:42:50
1	Na 589.592 Radial†	29776.5	30788.9	10199 ug/L	10199 ppb	10:42:30
1	Sr 421.552†	52674.2	53076.9	492.17 ug/L	492.17 ppb	10:42:30
1	Sc 361.383	832573.7	832573.7	102.22 %		10:43:47
1	Y 371.029	704810.3	704810.3	100.60 %		10:43:47
1	Ag 328.068†	100466.3	98073.1	513.60 ug/L	513.60 ppb	10:43:53
1	As 188.979†	905.1	902.9	525.46 ug/L	525.46 ppb	10:44:13
1	B 249.677†	17718.8	17526.4	497.31 ug/L	497.31 ppb	10:43:53
1	Ba 233.527†	54451.4	53265.9	513.62 ug/L	513.62 ppb	10:43:53
1	Be 313.107†	1183523.1	1161276.3	515.75 ug/L	515.75 ppb	10:43:47
1	Cd 226.502†	35159.7	34557.5	519.43 ug/L	519.43 ppb	10:43:53
1	Co 228.616†	19933.7	19543.2	524.21 ug/L	524.21 ppb	10:43:53
1	Cr 267.716†	39040.5	38116.4	514.75 ug/L	514.75 ppb	10:43:53
1	Cu 324.752†	162497.3	152986.2	504.35 ug/L	504.35 ppb	10:43:53
1	Mn 257.610†	390169.7	381292.8	515.81 ug/L	515.81 ppb	10:43:47
1	Mo 202.031†	5869.5	5734.7	513.01 ug/L	513.01 ppb	10:44:13
1	Ni 231.604†	16511.0	16082.5	524.81 ug/L	524.81 ppb	10:43:53
1	P 214.914†	3507.7	3253.9	2477.3 ug/L	2477.3 ppb	10:44:13
1	Pb 220.353†	3268.4	3240.3	521.42 ug/L	521.42 ppb	10:44:13
1	S 181.975 Axial†	591.2	551.5	1012.0 ug/L	1012.0 ppb	10:44:13
1	Sb 206.836†	1229.9	1174.4	522.96 ug/L	522.96 ppb	10:44:13
1	Se 196.026†	605.8	611.3	536.27 ug/L	536.27 ppb	10:44:13
1	Si 251.611†	69384.0	67336.4	2581.2 ug/L	2581.2 ppb	10:43:53
1	Sn 189.927†	2244.7	2188.7	514.47 ug/L	514.47 ppb	10:44:13
1	Ti 334.940†	291133.0	285817.5	500.28 ug/L	500.28 ppb	10:43:53
1	Tl 190.801†	1289.8	1285.2	519.11 ug/L	519.11 ppb	10:44:13
1	U 409.014†	15707.0	17415.6	518.49 ug/L	518.49 ppb	10:43:53
1	V 292.402†	63578.0	63432.8	517.31 ug/L	517.31 ppb	10:43:53
1	Zn 213.857†	42713.1	41276.3	512.31 ug/L	512.31 ppb	10:43:53
1	SiO2†	68719.1	66699.8	5442.3 ug/L	5442.3 ppb	10:45:20
2	Sc Radial	3321.9	3321.9	98.8 %		10:43:15
2	Y RADIAL	2712.2	2712.2	97.26 %		10:43:15
2	Al 396.153Radial†	2270.1	2367.9	5002.4 ug/L	5002.4 ppb	10:42:55
2	Ca 317.933Radial†	1311.5	1317.0	5178.6 ug/L	5178.6 ppb	10:43:15
2	Fe 238.204 Radial†	195.8	191.0	5380.0 ug/L	5380.0 ppb	10:43:15
2	K 766.490 Radial†	13165.0	11173.9	5083.6 ug/L	5083.6 ppb	10:42:55
2	Mg 279.077 IEC†	55.5	54.6	5339.3 ug/L	5339.3 ppb	10:43:15
2	Na 589.592 Radial†	29503.7	30644.3	10151 ug/L	10151 ppb	10:42:55
2	Sr 421.552†	52381.6	53013.6	491.59 ug/L	491.59 ppb	10:42:55
2	Sc 361.383	833498.9	833498.9	102.34 %		10:44:18
2	Y 371.029	704362.5	704362.5	100.54 %		10:44:18
2	Ag 328.068†	100506.0	98002.7	513.24 ug/L	513.24 ppb	10:44:24
2	As 188.979†	894.1	891.2	518.71 ug/L	518.71 ppb	10:44:44
2	B 249.677†	17787.4	17574.1	498.66 ug/L	498.66 ppb	10:44:24
2	Ba 233.527†	54620.3	53371.7	514.64 ug/L	514.64 ppb	10:44:24
2	Be 313.107†	1183919.5	1160378.6	515.35 ug/L	515.35 ppb	10:44:18
2	Cd 226.502†	35309.2	34665.4	521.05 ug/L	521.05 ppb	10:44:24
2	Co 228.616†	20077.5	19662.0	527.40 ug/L	527.40 ppb	10:44:24
2	Cr 267.716†	39125.6	38157.1	515.30 ug/L	515.30 ppb	10:44:24
2	Cu 324.752†	162459.2	152772.5	503.65 ug/L	503.65 ppb	10:44:24
2	Mn 257.610†	390276.4	380973.4	515.37 ug/L	515.37 ppb	10:44:18
2	Mo 202.031†	5873.0	5731.8	512.76 ug/L	512.76 ppb	10:44:44
2	Ni 231.604†	16560.9	16113.3	525.81 ug/L	525.81 ppb	10:44:24



2	P 214.914†	3516.3	3258.4	2481.0 ug/L	2481.0 ppb	10:44:44
2	Pb 220.353†	3251.6	3220.4	518.21 ug/L	518.21 ppb	10:44:44
2	S 181.975 Axial†	603.8	563.2	1033.4 ug/L	1033.4 ppb	10:44:44
2	Sb 206.836†	1244.8	1187.7	528.57 ug/L	528.57 ppb	10:44:44
2	Se 196.026†	606.0	610.8	535.92 ug/L	535.92 ppb	10:44:44
2	Si 251.611†	69440.6	67316.4	2580.4 ug/L	2580.4 ppb	10:44:24
2	Sn 189.927†	2224.5	2166.5	509.25 ug/L	509.25 ppb	10:44:44
2	Ti 334.940†	291766.6	286120.6	500.79 ug/L	500.79 ppb	10:44:24
2	Tl 190.801†	1289.4	1283.4	518.37 ug/L	518.37 ppb	10:44:44
2	U 409.014†	15677.9	17370.0	517.12 ug/L	517.12 ppb	10:44:24
2	V 292.402†	63722.9	63505.4	517.88 ug/L	517.88 ppb	10:44:24
2	Zn 213.857†	42778.2	41293.5	512.52 ug/L	512.52 ppb	10:44:24
2	SiO2†	68877.6	66780.0	5448.8 ug/L	5448.8 ppb	10:45:25
3	Sc Radial	3344.3	3344.3	99.4 %		10:43:40
3	Y RADIAL	2723.9	2723.9	97.68 %		10:43:40
3	Al 396.153Radial†	2288.9	2371.3	5009.6 ug/L	5009.6 ppb	10:43:20
3	Ca 317.933Radial†	1328.5	1325.1	5210.6 ug/L	5210.6 ppb	10:43:40
3	Fe 238.204 Radial†	196.6	190.4	5365.9 ug/L	5365.9 ppb	10:43:40
3	K 766.490 Radial†	13106.0	11025.1	5015.8 ug/L	5015.8 ppb	10:43:20
3	Mg 279.077 IEC†	57.1	55.9	5460.8 ug/L	5460.8 ppb	10:43:40
3	Na 589.592 Radial†	29387.8	30327.0	10046 ug/L	10046 ppb	10:43:20
3	Sr 421.552†	52467.6	52743.9	489.09 ug/L	489.09 ppb	10:43:20
3	Sc 361.383	835973.0	835973.0	102.64 %		10:44:49
3	Y 371.029	707100.7	707100.7	100.93 %		10:44:49
3	Ag 328.068†	102100.1	99265.2	519.83 ug/L	519.83 ppb	10:44:55
3	As 188.979†	898.0	892.3	519.43 ug/L	519.43 ppb	10:45:15
3	B 249.677†	18142.0	17868.2	507.04 ug/L	507.04 ppb	10:44:55
3	Ba 233.527†	55268.8	53845.7	519.21 ug/L	519.21 ppb	10:44:55
3	Be 313.107†	1186954.6	1159911.8	515.16 ug/L	515.16 ppb	10:44:49
3	Cd 226.502†	35575.9	34823.0	523.43 ug/L	523.43 ppb	10:44:55
3	Co 228.616†	20170.7	19694.7	528.27 ug/L	528.27 ppb	10:44:55
3	Cr 267.716†	39563.6	38470.7	519.54 ug/L	519.54 ppb	10:44:55
3	Cu 324.752†	165498.0	155263.4	511.85 ug/L	511.85 ppb	10:44:55
3	Mn 257.610†	390555.2	380116.4	514.21 ug/L	514.21 ppb	10:44:49
3	Mo 202.031†	5897.7	5738.9	513.39 ug/L	513.39 ppb	10:45:15
3	Ni 231.604†	16714.3	16214.9	529.13 ug/L	529.13 ppb	10:44:55
3	P 214.914†	3533.3	3264.8	2484.5 ug/L	2484.5 ppb	10:45:15
3	Pb 220.353†	3262.9	3222.0	518.47 ug/L	518.47 ppb	10:45:15
3	S 181.975 Axial†	592.3	550.2	1009.6 ug/L	1009.6 ppb	10:45:15
3	Sb 206.836†	1248.6	1187.7	528.66 ug/L	528.66 ppb	10:45:15
3	Se 196.026†	620.7	623.4	546.57 ug/L	546.57 ppb	10:45:15
3	Si 251.611†	70358.6	68009.9	2607.0 ug/L	2607.0 ppb	10:44:55
3	Sn 189.927†	2242.9	2178.1	511.97 ug/L	511.97 ppb	10:45:15
3	Ti 334.940†	295947.9	289350.5	506.44 ug/L	506.44 ppb	10:44:55
3	Tl 190.801†	1301.0	1291.0	521.44 ug/L	521.44 ppb	10:45:15
3	U 409.014†	15953.7	17593.5	523.79 ug/L	523.79 ppb	10:44:55
3	V 292.402†	64611.0	64186.4	523.38 ug/L	523.38 ppb	10:44:55
3	Zn 213.857†	43253.6	41633.0	516.74 ug/L	516.74 ppb	10:44:55
3	SiO2†	69494.2	67181.6	5481.7 ug/L	5481.7 ppb	10:45:30

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834015.2	102.40 %	0.216			0.21%
Sc Radial	3334.2	99.1 %	0.34			0.34%
Y 371.029	705424.5	100.69 %	0.210			0.21%
Y RADIAL	2721.4	97.59 %	0.294			0.30%
Ag 328.068†	98447.0	515.56 ug/L	3.702	515.56 ppb	3.702	0.72%
QC value within limits for Ag 328.068 Recovery = 103.11%						
Al 396.153Radial†	2370.6	5008.1 ug/L	5.16	5008.1 ppb	5.16	0.10%
QC value within limits for Al 396.153Radial Recovery = 100.16%						
As 188.979†	895.5	521.20 ug/L	3.706	521.20 ppb	3.706	0.71%
QC value within limits for As 188.979 Recovery = 104.24%						
B 249.677†	17656.2	501.00 ug/L	5.273	501.00 ppb	5.273	1.05%
QC value within limits for B 249.677 Recovery = 100.20%						
Ba 233.527†	53494.4	515.82 ug/L	2.977	515.82 ppb	2.977	0.58%
QC value within limits for Ba 233.527 Recovery = 103.16%						
Be 313.107†	1160522.2	515.42 ug/L	0.301	515.42 ppb	0.301	0.06%
QC value within limits for Be 313.107 Recovery = 103.08%						
Ca 317.933Radial†	1318.5	5184.6 ug/L	23.59	5184.6 ppb	23.59	0.46%

QC value within limits for Ca 317.933 Radial Recovery = 103.69%							
Cd	226.502†	34682.0	521.31 ug/L	2.010	521.31 ppb	2.010	0.39%
QC value within limits for Cd 226.502 Recovery = 104.26%							
Co	228.616†	19633.3	526.63 ug/L	2.134	526.63 ppb	2.134	0.41%
QC value within limits for Co 228.616 Recovery = 105.33%							
Cr	267.716†	38248.1	516.53 ug/L	2.618	516.53 ppb	2.618	0.51%
QC value within limits for Cr 267.716 Recovery = 103.31%							
Cu	324.752†	153674.0	506.62 ug/L	4.549	506.62 ppb	4.549	0.90%
QC value within limits for Cu 324.752 Recovery = 101.32%							
Fe	238.204 Radial†	190.5	5368.2 ug/L	10.81	5368.2 ppb	10.81	0.20%
QC value within limits for Fe 238.204 Radial Recovery = 107.36%							
K	766.490 Radial†	11102.0	5050.8 ug/L	33.94	5050.8 ppb	33.94	0.67%
QC value within limits for K 766.490 Radial Recovery = 101.02%							
Mg	279.077 IEC†	54.3	5311.9 ug/L	164.43	5311.9 ppb	164.43	3.10%
QC value within limits for Mg 279.077 IEC Recovery = 106.24%							
Mn	257.610†	380794.2	515.13 ug/L	0.829	515.13 ppb	0.829	0.16%
QC value within limits for Mn 257.610 Recovery = 103.03%							
Mo	202.031†	5735.2	513.05 ug/L	0.317	513.05 ppb	0.317	0.06%
QC value within limits for Mo 202.031 Recovery = 102.61%							
Na	589.592 Radial†	30586.8	10132 ug/L	78.3	10132 ppb	78.3	0.77%
QC value within limits for Na 589.592 Radial Recovery = 101.32%							
Ni	231.604†	16136.9	526.58 ug/L	2.260	526.58 ppb	2.260	0.43%
QC value within limits for Ni 231.604 Recovery = 105.32%							
P	214.914†	3259.1	2480.9 ug/L	3.58	2480.9 ppb	3.58	0.14%
QC value within limits for P 214.914 Recovery = 99.24%							
Pb	220.353†	3227.6	519.37 ug/L	1.780	519.37 ppb	1.780	0.34%
QC value within limits for Pb 220.353 Recovery = 103.87%							
S	181.975 Axial†	555.0	1018.3 ug/L	13.12	1018.3 ppb	13.12	1.29%
QC value within limits for S 181.975 Axial Recovery = 101.83%							
Sb	206.836†	1183.3	526.73 ug/L	3.265	526.73 ppb	3.265	0.62%
QC value within limits for Sb 206.836 Recovery = 105.35%							
Se	196.026†	615.2	539.58 ug/L	6.049	539.58 ppb	6.049	1.12%
QC value within limits for Se 196.026 Recovery = 107.92%							
Si	251.611†	67554.2	2589.5 ug/L	15.17	2589.5 ppb	15.17	0.59%
QC value within limits for Si 251.611 Recovery = 103.58%							
Sn	189.927†	2177.8	511.90 ug/L	2.610	511.90 ppb	2.610	0.51%
QC value within limits for Sn 189.927 Recovery = 102.38%							
Sr	421.552†	52944.8	490.95 ug/L	1.640	490.95 ppb	1.640	0.33%
QC value within limits for Sr 421.552 Recovery = 98.19%							
Ti	334.940†	287096.2	502.50 ug/L	3.418	502.50 ppb	3.418	0.68%
QC value within limits for Ti 334.940 Recovery = 100.50%							
Tl	190.801†	1286.5	519.64 ug/L	1.600	519.64 ppb	1.600	0.31%
QC value within limits for Tl 190.801 Recovery = 103.93%							
U	409.014†	17459.7	519.80 ug/L	3.522	519.80 ppb	3.522	0.68%
QC value within limits for U 409.014 Recovery = 103.96%							
V	292.402†	63708.2	519.53 ug/L	3.354	519.53 ppb	3.354	0.65%
QC value within limits for V 292.402 Recovery = 103.91%							
Zn	213.857†	41400.9	513.86 ug/L	2.500	513.86 ppb	2.500	0.49%
QC value within limits for Zn 213.857 Recovery = 102.77%							
SiO2†		66887.1	5457.6 ug/L	21.11	5457.6 ppb	21.11	0.39%
QC value within limits for SiO2 Recovery = 102.06%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 10:47:41

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	3349.1	3349.1	99.6 %		10:49:53
1	Y RADIAL	2765.0	2765.0	99.15 %		10:49:53
1	Al 396.153Radial†	-67.1	2.0	4.2485 ug/L	4.2485 ppb	10:49:53
1	Ca 317.933Radial†	13.5	2.6	10.279 ug/L	10.279 ppb	10:49:53
1	Fe 238.204 Radial†	6.4	-0.9	-25.108 ug/L	-25.108 ppb	10:49:53
1	K 766.490 Radial†	2124.3	-22.6	-10.307 ug/L	-10.307 ppb	10:49:33
1	Mg 279.077 IEC†	0.0	-1.5	-150.24 ug/L	-150.24 ppb	10:49:53
1	Na 589.592 Radial†	-813.5	-46.2	-15.301 ug/L	-15.301 ppb	10:49:33
1	Sr 421.552†	-11.2	-35.8	-0.3324 ug/L	-0.3324 ppb	10:49:33
1	Sc 361.383	864492.0	864492.0	106.14 %		10:50:50
1	Y 371.029	740144.6	740144.6	105.65 %		10:50:50
1	Ag 328.068†	207.5	-14.4	-0.0760 ug/L	-0.0760 ppb	10:50:55
1	As 188.979†	-13.0	5.2	3.0073 ug/L	3.0073 ppb	10:51:15
1	B 249.677†	-183.5	19.8	0.5678 ug/L	0.5678 ppb	10:51:15
1	Ba 233.527†	12.6	9.6	0.0937 ug/L	0.0937 ppb	10:51:15
1	Be 313.107†	-3566.7	113.4	0.0508 ug/L	0.0508 ppb	10:50:55
1	Cd 226.502†	-159.6	11.5	0.1735 ug/L	0.1735 ppb	10:51:15
1	Co 228.616†	-44.2	1.0	0.0273 ug/L	0.0273 ppb	10:51:15
1	Cr 267.716†	71.6	-8.2	-0.1093 ug/L	-0.1093 ppb	10:51:15
1	Cu 324.752†	6035.0	-293.8	-0.9675 ug/L	-0.9675 ppb	10:50:55
1	Mn 257.610†	399.4	-21.4	-0.0253 ug/L	-0.0253 ppb	10:51:15
1	Mo 202.031†	13.8	5.8	0.5135 ug/L	0.5135 ppb	10:51:15
1	Ni 231.604†	38.8	-33.1	-1.0814 ug/L	-1.0814 ppb	10:51:15
1	P 214.914†	173.3	-14.3	-11.112 ug/L	-11.112 ppb	10:51:15
1	Pb 220.353†	-49.0	-3.2	-0.5066 ug/L	-0.5066 ppb	10:51:15
1	S 181.975 Axial†	34.0	5.2	9.5404 ug/L	9.5404 ppb	10:51:15
1	Sb 206.836†	23.1	-7.0	-2.9689 ug/L	-2.9689 ppb	10:51:15
1	Se 196.026†	-23.4	-3.4	-2.9519 ug/L	-2.9519 ppb	10:51:15
1	Si 251.611†	1358.5	740.2	28.436 ug/L	28.436 ppb	10:51:15
1	Sn 189.927†	11.0	3.1	0.7379 ug/L	0.7379 ppb	10:51:15
1	Ti 334.940†	-919.9	144.8	0.2692 ug/L	0.2692 ppb	10:50:55
1	Tl 190.801†	-24.1	0.7	0.2821 ug/L	0.2821 ppb	10:51:15
1	U 409.014†	-2334.2	-149.3	-4.4559 ug/L	-4.4559 ppb	10:50:55
1	V 292.402†	-1202.5	103.5	0.8326 ug/L	0.8326 ppb	10:50:55
1	Zn 213.857†	534.2	-5.2	-0.0538 ug/L	-0.0538 ppb	10:51:15
1	SiO2†	652.2	88.5	7.2252 ug/L	7.2252 ppb	10:52:36
2	Sc Radial	3325.8	3325.8	98.9 %		10:50:18
2	Y RADIAL	2751.1	2751.1	98.65 %		10:50:18
2	Al 396.153Radial†	-68.1	0.5	1.0835 ug/L	1.0835 ppb	10:50:18
2	Ca 317.933Radial†	9.7	-1.2	-4.7213 ug/L	-4.7213 ppb	10:50:18
2	Fe 238.204 Radial†	6.2	-1.0	-28.267 ug/L	-28.267 ppb	10:50:18
2	K 766.490 Radial†	2216.0	85.1	38.779 ug/L	38.779 ppb	10:49:58
2	Mg 279.077 IEC†	2.4	0.9	85.986 ug/L	85.986 ppb	10:50:18
2	Na 589.592 Radial†	-789.5	-27.7	-9.1636 ug/L	-9.1636 ppb	10:49:58
2	Sr 421.552†	6.9	-17.6	-0.1632 ug/L	-0.1632 ppb	10:49:58
2	Sc 361.383	844173.4	844173.4	103.65 %		10:51:20
2	Y 371.029	721945.8	721945.8	103.05 %		10:51:20
2	Ag 328.068†	183.1	-33.2	-0.1750 ug/L	-0.1750 ppb	10:51:25
2	As 188.979†	-14.8	3.2	1.8291 ug/L	1.8291 ppb	10:51:45
2	B 249.677†	-188.3	11.0	0.3173 ug/L	0.3173 ppb	10:51:45
2	Ba 233.527†	5.8	3.4	0.0315 ug/L	0.0315 ppb	10:51:45
2	Be 313.107†	-3557.7	41.3	0.0188 ug/L	0.0188 ppb	10:51:25
2	Cd 226.502†	-155.5	11.7	0.1775 ug/L	0.1775 ppb	10:51:45
2	Co 228.616†	-48.4	-4.1	-0.1095 ug/L	-0.1095 ppb	10:51:45
2	Cr 267.716†	63.8	-14.2	-0.1890 ug/L	-0.1890 ppb	10:51:45
2	Cu 324.752†	6022.9	-168.7	-0.5529 ug/L	-0.5529 ppb	10:51:25
2	Mn 257.610†	402.4	-9.5	-0.0191 ug/L	-0.0191 ppb	10:51:45
2	Mo 202.031†	11.6	4.0	0.3559 ug/L	0.3559 ppb	10:51:45
2	Ni 231.604†	54.7	-16.9	-0.5512 ug/L	-0.5512 ppb	10:51:45

2	P 214.914†	161.9	-21.4	-16.786 ug/L	-16.786 ppb	10:51:45
2	Pb 220.353†	-55.5	-10.5	-1.6854 ug/L	-1.6854 ppb	10:51:45
2	S 181.975 Axial†	27.5	-0.3	-0.6174 ug/L	-0.6174 ppb	10:51:45
2	Sb 206.836†	27.7	-2.0	-0.8549 ug/L	-0.8549 ppb	10:51:45
2	Se 196.026†	-26.1	-6.5	-5.6264 ug/L	-5.6264 ppb	10:51:45
2	Si 251.611†	697.3	133.0	5.1062 ug/L	5.1062 ppb	10:51:45
2	Sn 189.927†	9.2	1.7	0.3986 ug/L	0.3986 ppb	10:51:45
2	Ti 334.940†	-914.7	128.9	0.2218 ug/L	0.2218 ppb	10:51:25
2	Tl 190.801†	-24.7	-0.4	-0.1623 ug/L	-0.1623 ppb	10:51:45
2	U 409.014†	-2419.5	-284.5	-8.4952 ug/L	-8.4952 ppb	10:51:25
2	V 292.402†	-1289.4	-7.6	-0.0664 ug/L	-0.0664 ppb	10:51:25
2	Zn 213.857†	542.6	14.9	0.1957 ug/L	0.1957 ppb	10:51:45
2	SiO2†	644.1	95.5	7.8040 ug/L	7.8040 ppb	10:52:56
3	Sc Radial	3364.3	3364.3	100 %		10:50:43
3	Y RADIAL	2776.7	2776.7	99.57 %		10:50:43
3	Al 396.153Radial†	-61.0	8.3	17.694 ug/L	17.694 ppb	10:50:43
3	Ca 317.933Radial†	10.4	-0.6	-2.2785 ug/L	-2.2785 ppb	10:50:43
3	Fe 238.204 Radial†	5.7	-1.5	-43.362 ug/L	-43.362 ppb	10:50:43
3	K 766.490 Radial†	2225.2	68.7	31.283 ug/L	31.283 ppb	10:50:23
3	Mg 279.077 IEC†	1.8	0.2	23.011 ug/L	23.011 ppb	10:50:43
3	Na 589.592 Radial†	-830.3	-59.3	-19.656 ug/L	-19.656 ppb	10:50:23
3	Sr 421.552†	6.5	-18.0	-0.1674 ug/L	-0.1674 ppb	10:50:23
3	Sc 361.383	837230.0	837230.0	102.79 %		10:51:51
3	Y 371.029	717236.7	717236.7	102.38 %		10:51:51
3	Ag 328.068†	275.5	58.1	0.3021 ug/L	0.3021 ppb	10:51:56
3	As 188.979†	-16.4	1.4	0.8214 ug/L	0.8214 ppb	10:52:16
3	B 249.677†	-208.1	-9.8	-0.2722 ug/L	-0.2722 ppb	10:52:16
3	Ba 233.527†	-15.3	-17.1	-0.1659 ug/L	-0.1659 ppb	10:52:16
3	Be 313.107†	-3571.6	-0.8	-0.0003 ug/L	-0.0003 ppb	10:51:56
3	Cd 226.502†	-159.0	7.1	0.1088 ug/L	0.1088 ppb	10:52:16
3	Co 228.616†	-46.5	-2.6	-0.0678 ug/L	-0.0678 ppb	10:52:16
3	Cr 267.716†	59.0	-18.4	-0.2431 ug/L	-0.2431 ppb	10:52:16
3	Cu 324.752†	6013.8	-129.3	-0.4198 ug/L	-0.4198 ppb	10:51:56
3	Mn 257.610†	385.7	-22.4	-0.0356 ug/L	-0.0356 ppb	10:52:16
3	Mo 202.031†	11.3	3.8	0.3372 ug/L	0.3372 ppb	10:52:16
3	Ni 231.604†	75.9	4.1	0.1355 ug/L	0.1355 ppb	10:52:16
3	P 214.914†	186.1	3.4	2.7985 ug/L	2.7985 ppb	10:52:16
3	Pb 220.353†	-41.9	2.2	0.3695 ug/L	0.3695 ppb	10:52:16
3	S 181.975 Axial†	26.6	-0.9	-1.7159 ug/L	-1.7159 ppb	10:52:16
3	Sb 206.836†	23.4	-6.0	-2.5553 ug/L	-2.5553 ppb	10:52:16
3	Se 196.026†	-19.9	-0.7	-0.7216 ug/L	-0.7216 ppb	10:52:16
3	Si 251.611†	660.9	103.2	3.9610 ug/L	3.9610 ppb	10:52:16
3	Sn 189.927†	10.7	3.2	0.7511 ug/L	0.7511 ppb	10:52:16
3	Ti 334.940†	-1027.5	11.9	0.0257 ug/L	0.0257 ppb	10:51:56
3	Tl 190.801†	-26.1	-2.0	-0.7869 ug/L	-0.7869 ppb	10:52:16
3	U 409.014†	-2650.3	-528.4	-15.779 ug/L	-15.779 ppb	10:51:56
3	V 292.402†	-1269.5	1.5	-0.0067 ug/L	-0.0067 ppb	10:51:56
3	Zn 213.857†	542.9	19.6	0.2520 ug/L	0.2520 ppb	10:52:16
3	SiO2†	647.1	103.5	8.4610 ug/L	8.4610 ppb	10:53:16

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848631.8	104.19 %	1.739			1.67%
Sc Radial	3346.4	99.5 %	0.58			0.58%
Y 371.029	726442.4	103.69 %	1.727			1.67%
Y RADIAL	2764.2	99.12 %	0.460			0.46%
Ag 328.068†	3.5	0.0170 ug/L	0.25175	0.0170 ppb	0.25175	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.6	7.6754 ug/L	8.81973	7.6754 ppb	8.81973	114.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.3	1.8859 ug/L	1.09407	1.8859 ppb	1.09407	58.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	7.0	0.2043 ug/L	0.43125	0.2043 ppb	0.43125	211.05%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.4	-0.0136 ug/L	0.13555	-0.0136 ppb	0.13555	999.78%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	51.3	0.0231 ug/L	0.02584	0.0231 ppb	0.02584	111.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.3	1.0929 ug/L	8.04828	1.0929 ppb	8.04828	736.39%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	10.1	0.1533 ug/L	0.03859	0.1533 ppb	0.03859	25.18%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.9	-0.0500 ug/L	0.07011	-0.0500 ppb	0.07011	140.30%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-13.6	-0.1804 ug/L	0.06732	-0.1804 ppb	0.06732	37.31%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-197.3	-0.6467 ug/L	0.28566	-0.6467 ppb	0.28566	44.17%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.1	-32.246 ug/L	9.7557	-32.246 ppb	9.7557	30.25%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	43.7	19.918 ug/L	26.4428	19.918 ppb	26.4428	132.76%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.1	-13.748 ug/L	122.3281	-13.748 ppb	122.3281	889.77%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-17.8	-0.0267 ug/L	0.00830	-0.0267 ppb	0.00830	31.13%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	4.5	0.4022 ug/L	0.09680	0.4022 ppb	0.09680	24.07%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-44.4	-14.707 ug/L	5.2711	-14.707 ppb	5.2711	35.84%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-15.3	-0.4990 ug/L	0.61012	-0.4990 ppb	0.61012	122.26%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.8	-8.3665 ug/L	10.07676	-8.3665 ppb	10.07676	120.44%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-3.8	-0.6075 ug/L	1.03120	-0.6075 ppb	1.03120	169.74%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.3	2.4023 ug/L	6.20608	2.4023 ppb	6.20608	258.33%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-5.0	-2.1264 ug/L	1.12037	-2.1264 ppb	1.12037	52.69%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.6	-3.0999 ug/L	2.45576	-3.0999 ppb	2.45576	79.22%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	325.5	12.501 ug/L	13.8122	12.501 ppb	13.8122	110.49%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.7	0.6292 ug/L	0.19983	0.6292 ppb	0.19983	31.76%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-23.8	-0.2210 ug/L	0.09649	-0.2210 ppb	0.09649	43.67%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	95.2	0.1722 ug/L	0.12910	0.1722 ppb	0.12910	74.96%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-0.6	-0.2224 ug/L	0.53703	-0.2224 ppb	0.53703	241.52%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-320.7	-9.5767 ug/L	5.73839	-9.5767 ppb	5.73839	59.92%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	32.5	0.2532 ug/L	0.50266	0.2532 ppb	0.50266	198.54%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	9.8	0.1313 ug/L	0.16275	0.1313 ppb	0.16275	123.93%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	95.9	7.8300 ug/L	0.61830	7.8300 ppb	0.61830	7.90%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: 246679002|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 3/9/2010 10:55:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679002|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3317.8	3317.8	98.6 %		10:57:40
1	Y RADIAL	3606.8	3606.8	129.3 %		10:57:40
1	Al 396.153Radial†	6336.2	6492.9	13784 ug/L	13784 ppb	10:57:20
1	Ca 317.933Radial†	817.0	817.3	3213.7 ug/L	3213.7 ppb	10:57:40
1	Fe 238.204 Radial†	2354.8	2380.0	66858 ug/L	66858 ppb	10:57:40
1	K 766.490 Radial†	11241.0	9239.9	4205.5 ug/L	4205.5 ppb	10:57:20
1	Mg 279.077 IEC†	22.6	21.3	2014.8 ug/L	2014.8 ppb	10:57:40
1	Na 589.592 Radial†	6879.8	7745.4	2565.6 ug/L	2565.6 ppb	10:57:20
1	Sr 421.552†	2014.3	2017.6	18.686 ug/L	18.686 ppb	10:57:20
1	Sc 361.383	845636.9	845636.9	103.83 %		10:58:37
1	Y 371.029	960819.6	960819.6	137.15 %		10:58:37
1	Ag 328.068†	-2530.6	-2647.3	7.2337 ug/L	7.2337 ppb	10:58:42
1	As 188.979†	-52.3	-32.9	20.980 ug/L	20.980 ppb	10:59:03
1	B 249.677†	356.3	535.8	4.3640 ug/L	4.3640 ppb	10:58:42
1	Ba 233.527†	16280.6	15678.6	152.93 ug/L	152.93 ppb	10:58:42
1	Be 313.107†	12314.4	15334.5	13.177 ug/L	13.177 ppb	10:58:42
1	Cd 226.502†	371.7	519.8	0.8642 ug/L	0.8642 ppb	10:59:03
1	Co 228.616†	704.8	721.5	12.550 ug/L	12.550 ppb	10:59:03
1	Cr 267.716†	9240.9	8824.7	121.91 ug/L	121.91 ppb	10:58:42
1	Cu 324.752†	21172.9	14413.1	51.201 ug/L	51.201 ppb	10:58:42
1	Mn 257.610†	2826234.7	2721706.8	3686.2 ug/L	3686.2 ppb	10:58:37
1	Mo 202.031†	183.4	169.4	20.369 ug/L	20.369 ppb	10:59:03
1	Ni 231.604†	408.6	323.9	10.564 ug/L	10.564 ppb	10:59:03
1	P 214.914†	748.7	543.5	370.39 ug/L	370.39 ppb	10:59:03
1	Pb 220.353†	322.0	353.1	50.261 ug/L	50.261 ppb	10:59:03
1	S 181.975 Axial†	50.2	21.5	36.946 ug/L	36.946 ppb	10:59:03
1	Sb 206.836†	42.6	12.3	-4.6669 ug/L	-4.6669 ppb	10:59:03
1	Se 196.026†	-270.8	-242.2	-17.012 ug/L	-17.012 ppb	10:59:03
1	Si 251.611†	531331.5	511215.3	19644 ug/L	19644 ppb	10:58:37
1	Sn 189.927†	16.4	8.6	-1.2477 ug/L	-1.2477 ppb	10:59:03
1	Ti 334.940†	1665786.8	1605423.8	2811.2 ug/L	2811.2 ppb	10:58:37
1	Tl 190.801†	-146.7	-117.8	-6.5303 ug/L	-6.5303 ppb	10:59:03
1	U 409.014†	-11272.9	-8807.7	-271.00 ug/L	-271.00 ppb	10:58:37
1	V 292.402†	3940.6	5031.9	27.485 ug/L	27.485 ppb	10:58:42
1	Zn 213.857†	40152.1	38164.2	468.01 ug/L	468.01 ppb	10:58:42
1	SiO2†	532741.9	512587.5	41931 ug/L	41931 ppb	11:00:10
2	Sc Radial	3332.0	3332.0	99.1 %		10:58:05
2	Y RADIAL	3610.8	3610.8	129.5 %		10:58:05
2	Al 396.153Radial†	6401.2	6531.0	13865 ug/L	13865 ppb	10:57:45
2	Ca 317.933Radial†	809.1	805.7	3168.3 ug/L	3168.3 ppb	10:58:05
2	Fe 238.204 Radial†	2369.9	2385.1	67002 ug/L	67002 ppb	10:58:05
2	K 766.490 Radial†	11435.7	9387.7	4272.8 ug/L	4272.8 ppb	10:57:45
2	Mg 279.077 IEC†	23.9	22.6	2137.5 ug/L	2137.5 ppb	10:58:05
2	Na 589.592 Radial†	7069.2	7906.8	2619.0 ug/L	2619.0 ppb	10:57:45
2	Sr 421.552†	2062.9	2057.9	19.060 ug/L	19.060 ppb	10:57:45
2	Sc 361.383	857281.6	857281.6	105.26 %		10:59:08
2	Y 371.029	973321.1	973321.1	138.93 %		10:59:08
2	Ag 328.068†	-2523.0	-2606.9	7.4862 ug/L	7.4862 ppb	10:59:13
2	As 188.979†	-38.4	-19.0	29.065 ug/L	29.065 ppb	10:59:34
2	B 249.677†	330.1	506.3	3.4990 ug/L	3.4990 ppb	10:59:13
2	Ba 233.527†	16526.5	15699.2	153.13 ug/L	153.13 ppb	10:59:13
2	Be 313.107†	12645.2	15487.7	13.255 ug/L	13.255 ppb	10:59:13
2	Cd 226.502†	371.3	514.6	0.7709 ug/L	0.7709 ppb	10:59:34
2	Co 228.616†	698.3	706.0	12.124 ug/L	12.124 ppb	10:59:34
2	Cr 267.716†	9453.6	8905.9	123.01 ug/L	123.01 ppb	10:59:13
2	Cu 324.752†	21515.6	14461.7	51.368 ug/L	51.368 ppb	10:59:13
2	Mn 257.610†	2872196.1	2728398.5	3695.2 ug/L	3695.2 ppb	10:59:08
2	Mo 202.031†	190.4	173.8	20.768 ug/L	20.768 ppb	10:59:34
2	Ni 231.604†	398.3	308.7	10.070 ug/L	10.070 ppb	10:59:34

2	P 214.914†	751.9	536.8	364.94 ug/L	364.94 ppb	10:59:34
2	Pb 220.353†	343.3	369.2	52.835 ug/L	52.835 ppb	10:59:34
2	S 181.975 Axial†	41.3	12.4	20.209 ug/L	20.209 ppb	10:59:34
2	Sb 206.836†	41.5	10.7	-5.3659 ug/L	-5.3659 ppb	10:59:34
2	Se 196.026†	-273.9	-241.6	-16.083 ug/L	-16.083 ppb	10:59:34
2	Si 251.611†	540630.0	513098.3	19716 ug/L	19716 ppb	10:59:08
2	Sn 189.927†	17.9	9.8	-0.9838 ug/L	-0.9838 ppb	10:59:34
2	Ti 334.940†	1691551.2	1608108.7	2815.8 ug/L	2815.8 ppb	10:59:08
2	Tl 190.801†	-144.5	-113.8	-4.8486 ug/L	-4.8486 ppb	10:59:34
2	U 409.014†	-11400.3	-8781.2	-270.22 ug/L	-270.22 ppb	10:59:08
2	V 292.402†	3931.0	4971.2	26.980 ug/L	26.980 ppb	10:59:13
2	Zn 213.857†	40949.9	38396.9	470.91 ug/L	470.91 ppb	10:59:13
2	SiO2†	538979.8	511544.3	41845 ug/L	41845 ppb	11:00:16
3	Sc Radial	3351.3	3351.3	99.6 %		10:58:30
3	Y RADIAL	3636.4	3636.4	130.4 %		10:58:30
3	Al 396.153Radial†	6271.2	6363.4	13509 ug/L	13509 ppb	10:58:10
3	Ca 317.933Radial†	819.7	811.7	3191.8 ug/L	3191.8 ppb	10:58:30
3	Fe 238.204 Radial†	2371.2	2372.5	66649 ug/L	66649 ppb	10:58:30
3	K 766.490 Radial†	11345.2	9230.5	4201.2 ug/L	4201.2 ppb	10:58:10
3	Mg 279.077 IEC†	23.8	22.3	2111.6 ug/L	2111.6 ppb	10:58:30
3	Na 589.592 Radial†	6834.4	7630.1	2527.4 ug/L	2527.4 ppb	10:58:10
3	Sr 421.552†	2009.3	1992.1	18.450 ug/L	18.450 ppb	10:58:10
3	Sc 361.383	845840.0	845840.0	103.85 %		10:59:39
3	Y 371.029	960347.8	960347.8	137.08 %		10:59:39
3	Ag 328.068†	-2603.3	-2716.7	6.8090 ug/L	6.8090 ppb	10:59:44
3	As 188.979†	-38.4	-19.5	28.750 ug/L	28.750 ppb	11:00:05
3	B 249.677†	282.1	464.3	2.3586 ug/L	2.3586 ppb	10:59:44
3	Ba 233.527†	16682.4	16061.7	156.60 ug/L	156.60 ppb	10:59:44
3	Be 313.107†	12922.4	15917.1	13.456 ug/L	13.456 ppb	10:59:44
3	Cd 226.502†	367.9	516.1	0.8295 ug/L	0.8295 ppb	11:00:05
3	Co 228.616†	688.5	705.6	12.107 ug/L	12.107 ppb	11:00:05
3	Cr 267.716†	9494.9	9067.1	125.17 ug/L	125.17 ppb	10:59:44
3	Cu 324.752†	21655.9	14873.3	52.708 ug/L	52.708 ppb	10:59:44
3	Mn 257.610†	2839943.0	2734253.0	3703.1 ug/L	3703.1 ppb	10:59:39
3	Mo 202.031†	182.8	168.8	20.299 ug/L	20.299 ppb	11:00:05
3	Ni 231.604†	403.0	318.3	10.383 ug/L	10.383 ppb	11:00:05
3	P 214.914†	753.8	548.2	373.91 ug/L	373.91 ppb	11:00:05
3	Pb 220.353†	315.8	347.1	49.261 ug/L	49.261 ppb	11:00:05
3	S 181.975 Axial†	48.6	20.0	34.182 ug/L	34.182 ppb	11:00:05
3	Sb 206.836†	42.3	12.0	-4.7741 ug/L	-4.7741 ppb	11:00:05
3	Se 196.026†	-271.6	-242.9	-18.207 ug/L	-18.207 ppb	11:00:05
3	Si 251.611†	533180.8	512873.1	19707 ug/L	19707 ppb	10:59:39
3	Sn 189.927†	23.5	15.4	0.3542 ug/L	0.3542 ppb	11:00:05
3	Ti 334.940†	1671652.8	1610687.0	2820.4 ug/L	2820.4 ppb	10:59:39
3	Tl 190.801†	-141.0	-112.3	-4.1602 ug/L	-4.1602 ppb	11:00:05
3	U 409.014†	-11329.7	-8859.8	-272.54 ug/L	-272.54 ppb	10:59:39
3	V 292.402†	3918.1	5009.3	27.321 ug/L	27.321 ppb	10:59:44
3	Zn 213.857†	41200.9	39164.8	480.58 ug/L	480.58 ppb	10:59:44
3	SiO2†	532586.3	512314.5	41908 ug/L	41908 ppb	11:00:21

Mean Data: 246679002|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	849586.2	104.31 %	0.818			0.78%
Sc Radial	3333.7	99.1 %	0.50			0.50%
Y 371.029	964829.5	137.72 %	1.050			0.76%
Y RADIAL	3618.0	129.7 %	0.58			0.45%
Ag 328.068†	-2657.0	7.1763 ug/L	0.34223	7.1763 ppb	0.34223	4.77%
Al 396.153Radial†	6462.4	13719 ug/L	186.5	13719 ppb	186.5	1.36%
As 188.979†	-23.8	26.265 ug/L	4.5799	26.265 ppb	4.5799	17.44%
B 249.677†	502.1	3.4072 ug/L	1.00588	3.4072 ppb	1.00588	29.52%
Ba 233.527†	15813.2	154.22 ug/L	2.068	154.22 ppb	2.068	1.34%
Be 313.107†	15579.7	13.296 ug/L	0.1439	13.296 ppb	0.1439	1.08%
Ca 317.933Radial†	811.6	3191.3 ug/L	22.69	3191.3 ppb	22.69	0.71%
Cd 226.502†	516.8	0.8215 ug/L	0.04720	0.8215 ppb	0.04720	5.75%
Co 228.616†	711.0	12.260 ug/L	0.2512	12.260 ppb	0.2512	2.05%
Cr 267.716†	8932.6	123.36 ug/L	1.659	123.36 ppb	1.659	1.34%
Cu 324.752†	14582.7	51.759 ug/L	0.8260	51.759 ppb	0.8260	1.60%
Fe 238.204 Radial†	2379.2	66836 ug/L	177.2	66836 ppb	177.2	0.27%
K 766.490 Radial†	9286.0	4226.5 ug/L	40.15	4226.5 ppb	40.15	0.95%

Mg 279.077 IEC†	22.1	2088.0 ug/L	64.71	2088.0 ppb	64.71	3.10%
Mn 257.610†	2728119.4	3694.8 ug/L	8.48	3694.8 ppb	8.48	0.23%
Mo 202.031†	170.7	20.479 ug/L	0.2529	20.479 ppb	0.2529	1.24%
Na 589.592 Radial†	7760.7	2570.7 ug/L	46.04	2570.7 ppb	46.04	1.79%
Ni 231.604†	317.0	10.339 ug/L	0.2500	10.339 ppb	0.2500	2.42%
P 214.914†	542.8	369.75 ug/L	4.524	369.75 ppb	4.524	1.22%
Pb 220.353†	356.5	50.786 ug/L	1.8438	50.786 ppb	1.8438	3.63%
S 181.975 Axial†	18.0	30.446 ug/L	8.9722	30.446 ppb	8.9722	29.47%
Sb 206.836†	11.7	-4.9356 ug/L	0.37650	-4.9356 ppb	0.37650	7.63%
Se 196.026†	-242.2	-17.100 ug/L	1.0646	-17.100 ppb	1.0646	6.23%
Si 251.611†	512395.6	19689 ug/L	39.5	19689 ppb	39.5	0.20%
Sn 189.927†	11.3	-0.6258 ug/L	0.85889	-0.6258 ppb	0.85889	137.26%
Sr 421.552†	2022.5	18.732 ug/L	0.3075	18.732 ppb	0.3075	1.64%
Ti 334.940†	1608073.1	2815.8 ug/L	4.60	2815.8 ppb	4.60	0.16%
Tl 190.801†	-114.7	-5.1797 ug/L	1.21924	-5.1797 ppb	1.21924	23.54%
U 409.014†	-8816.2	-271.25 ug/L	1.177	-271.25 ppb	1.177	0.43%
V 292.402†	5004.1	27.262 ug/L	0.2578	27.262 ppb	0.2578	0.95%
Zn 213.857†	38575.3	473.17 ug/L	6.580	473.17 ppb	6.580	1.39%
Sio2†	512148.8	41895 ug/L	44.3	41895 ppb	44.3	0.11%



Sequence No.: 11  
 Sample ID: 246679003|951773|1  
 Analyst: HSC  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 46  
 Date Collected: 3/9/2010 11:02:33  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 246679003|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3389.4	3389.4	101 %		11:04:46
1	Y RADIAL	3408.7	3408.7	122.2 %		11:04:46
1	Al 396.153Radial†	3227.5	3272.2	6946.8 ug/L	6946.8 ppb	11:04:26
1	Ca 317.933Radial†	1154.6	1134.8	4462.2 ug/L	4462.2 ppb	11:04:46
1	Fe 238.204 Radial†	2506.3	2479.9	69665 ug/L	69665 ppb	11:04:46
1	K 766.490 Radial†	10875.7	8636.7	3931.0 ug/L	3931.0 ppb	11:04:26
1	Mg 279.077 IEC†	17.6	15.9	1482.3 ug/L	1482.3 ppb	11:04:46
1	Na 589.592 Radial†	6832.6	7551.3	2501.3 ug/L	2501.3 ppb	11:04:26
1	Sr 421.552†	969.6	937.7	8.6626 ug/L	8.6626 ppb	11:04:26
1	Sc 361.383	851497.7	851497.7	104.54 %		11:05:43
1	Y 371.029	893703.3	893703.3	127.57 %		11:05:43
1	Ag 328.068†	-3885.8	-3926.7	1.3878 ug/L	1.3878 ppb	11:05:48
1	As 188.979†	-65.6	-45.3	20.801 ug/L	20.801 ppb	11:06:08
1	B 249.677†	73.1	262.5	-3.8626 ug/L	-3.8626 ppb	11:05:48
1	Ba 233.527†	9822.5	9393.3	92.545 ug/L	92.545 ppb	11:05:48
1	Be 313.107†	-20327.6	-15970.1	0.9598 ug/L	0.9598 ppb	11:05:48
1	Cd 226.502†	412.3	556.2	1.1279 ug/L	1.1279 ppb	11:06:08
1	Co 228.616†	415.7	440.3	3.4302 ug/L	3.4302 ppb	11:06:08
1	Cr 267.716†	1906.4	1747.8	26.573 ug/L	26.573 ppb	11:05:48
1	Cu 324.752†	8883.7	2517.8	12.123 ug/L	12.123 ppb	11:05:48
1	Mn 257.610†	1588742.9	1519277.1	2060.8 ug/L	2060.8 ppb	11:05:43
1	Mo 202.031†	68.9	58.7	10.708 ug/L	10.708 ppb	11:06:08
1	Ni 231.604†	518.4	426.2	13.908 ug/L	13.908 ppb	11:06:08
1	P 214.914†	872.3	656.8	463.88 ug/L	463.88 ppb	11:06:08
1	Pb 220.353†	215.1	248.8	31.617 ug/L	31.617 ppb	11:06:08
1	S 181.975 Axial†	38.5	10.0	16.998 ug/L	16.998 ppb	11:06:08
1	Sb 206.836†	43.5	12.9	-6.8945 ug/L	-6.8945 ppb	11:06:08
1	Se 196.026†	-284.9	-253.9	-21.142 ug/L	-21.142 ppb	11:06:08
1	Si 251.611†	551634.2	527113.0	20255 ug/L	20255 ppb	11:05:43
1	Sn 189.927†	10.8	3.1	-2.4775 ug/L	-2.4775 ppb	11:06:08
1	Ti 334.940†	2112757.0	2021919.6	3540.6 ug/L	3540.6 ppb	11:05:43
1	Tl 190.801†	-133.9	-104.6	-2.9124 ug/L	-2.9124 ppb	11:06:08
1	U 409.014†	-10682.8	-8168.5	-252.01 ug/L	-252.01 ppb	11:05:43
1	V 292.402†	3222.8	4319.2	20.490 ug/L	20.490 ppb	11:05:48
1	Zn 213.857†	37837.0	35683.5	436.55 ug/L	436.55 ppb	11:05:48
1	SiO2†	555778.2	531090.6	43445 ug/L	43445 ppb	11:07:16
2	Sc Radial	3377.7	3377.7	100 %		11:05:11
2	Y RADIAL	3397.7	3397.7	121.8 %		11:05:11
2	Al 396.153Radial†	3207.1	3263.0	6927.2 ug/L	6927.2 ppb	11:04:51
2	Ca 317.933Radial†	1156.7	1140.9	4486.2 ug/L	4486.2 ppb	11:05:11
2	Fe 238.204 Radial†	2514.3	2496.4	70129 ug/L	70129 ppb	11:05:11
2	K 766.490 Radial†	10856.8	8655.0	3939.3 ug/L	3939.3 ppb	11:04:51
2	Mg 279.077 IEC†	15.6	14.0	1292.8 ug/L	1292.8 ppb	11:05:11
2	Na 589.592 Radial†	6844.8	7586.8	2513.1 ug/L	2513.1 ppb	11:04:51
2	Sr 421.552†	941.8	913.3	8.4359 ug/L	8.4359 ppb	11:04:51
2	Sc 361.383	850763.9	850763.9	104.45 %		11:06:14
2	Y 371.029	893194.7	893194.7	127.49 %		11:06:14
2	Ag 328.068†	-3949.0	-3990.5	1.1983 ug/L	1.1983 ppb	11:06:19
2	As 188.979†	-68.0	-47.7	19.608 ug/L	19.608 ppb	11:06:39
2	B 249.677†	135.8	322.7	-2.2212 ug/L	-2.2212 ppb	11:06:19
2	Ba 233.527†	9908.0	9483.3	93.425 ug/L	93.425 ppb	11:06:19
2	Be 313.107†	-20423.2	-16078.4	0.9235 ug/L	0.9235 ppb	11:06:19
2	Cd 226.502†	393.5	538.5	0.8152 ug/L	0.8152 ppb	11:06:39
2	Co 228.616†	393.4	419.3	2.8497 ug/L	2.8497 ppb	11:06:39
2	Cr 267.716†	1896.8	1740.2	26.490 ug/L	26.490 ppb	11:06:19
2	Cu 324.752†	8941.9	2580.9	12.353 ug/L	12.353 ppb	11:06:19
2	Mn 257.610†	1590577.2	1522343.8	2065.0 ug/L	2065.0 ppb	11:06:14
2	Mo 202.031†	68.8	58.7	10.742 ug/L	10.742 ppb	11:06:39
2	Ni 231.604†	530.8	438.5	14.312 ug/L	14.312 ppb	11:06:39

2	P 214.914†	866.1	651.5	459.28 ug/L	459.28 ppb	11:06:39
2	Pb 220.353†	198.6	233.1	29.031 ug/L	29.031 ppb	11:06:39
2	S 181.975 Axial†	39.5	11.0	18.893 ug/L	18.893 ppb	11:06:39
2	Sb 206.836†	33.0	2.8	-11.238 ug/L	-11.238 ppb	11:06:39
2	Se 196.026†	-279.3	-248.7	-15.466 ug/L	-15.466 ppb	11:06:39
2	Si 251.611†	552839.5	528722.0	20317 ug/L	20317 ppb	11:06:14
2	Sn 189.927†	10.3	2.7	-2.6067 ug/L	-2.6067 ppb	11:06:39
2	Ti 334.940†	2113996.0	2024848.7	3545.8 ug/L	3545.8 ppb	11:06:14
2	Tl 190.801†	-138.2	-108.8	-4.5341 ug/L	-4.5341 ppb	11:06:39
2	U 409.014†	-10539.0	-8039.6	-248.21 ug/L	-248.21 ppb	11:06:14
2	V 292.402†	3289.5	4385.7	20.956 ug/L	20.956 ppb	11:06:19
2	Zn 213.857†	38437.0	36289.2	444.06 ug/L	444.06 ppb	11:06:19
2	SiO2†	554738.1	530553.4	43401 ug/L	43401 ppb	11:07:22
3	Sc Radial	3370.6	3370.6	100 %		11:05:36
3	Y RADIAL	3396.0	3396.0	121.8 %		11:05:36
3	Al 396.153Radial†	3190.4	3253.1	6906.1 ug/L	6906.1 ppb	11:05:16
3	Ca 317.933Radial†	1155.5	1142.0	4490.7 ug/L	4490.7 ppb	11:05:36
3	Fe 238.204 Radial†	2500.0	2487.4	69877 ug/L	69877 ppb	11:05:36
3	K 766.490 Radial†	10769.2	8590.5	3909.9 ug/L	3909.9 ppb	11:05:16
3	Mg 279.077 IEC†	13.9	12.4	1134.6 ug/L	1134.6 ppb	11:05:36
3	Na 589.592 Radial†	6852.8	7609.2	2520.5 ug/L	2520.5 ppb	11:05:16
3	Sr 421.552†	933.1	906.6	8.3742 ug/L	8.3742 ppb	11:05:16
3	Sc 361.383	864173.7	864173.7	106.10 %		11:06:45
3	Y 371.029	904306.1	904306.1	129.08 %		11:06:45
3	Ag 328.068†	-3904.8	-3890.2	1.6431 ug/L	1.6431 ppb	11:06:50
3	As 188.979†	-67.6	-46.3	20.341 ug/L	20.341 ppb	11:07:10
3	B 249.677†	101.6	288.4	-3.1588 ug/L	-3.1588 ppb	11:06:50
3	Ba 233.527†	9759.6	9196.2	90.655 ug/L	90.655 ppb	11:06:50
3	Be 313.107†	-19870.6	-15254.2	1.2891 ug/L	1.2891 ppb	11:06:50
3	Cd 226.502†	404.6	543.1	0.9087 ug/L	0.9087 ppb	11:07:10
3	Co 228.616†	402.6	422.1	2.9315 ug/L	2.9315 ppb	11:07:10
3	Cr 267.716†	1923.2	1736.9	26.435 ug/L	26.435 ppb	11:06:50
3	Cu 324.752†	8792.1	2306.9	11.439 ug/L	11.439 ppb	11:06:50
3	Mn 257.610†	1615274.2	1521991.4	2064.5 ug/L	2064.5 ppb	11:06:45
3	Mo 202.031†	84.3	72.2	11.935 ug/L	11.935 ppb	11:07:10
3	Ni 231.604†	525.4	425.5	13.886 ug/L	13.886 ppb	11:07:10
3	P 214.914†	874.5	646.6	455.78 ug/L	455.78 ppb	11:07:10
3	Pb 220.353†	192.6	224.5	27.692 ug/L	27.692 ppb	11:07:10
3	S 181.975 Axial†	41.3	12.1	20.996 ug/L	20.996 ppb	11:07:10
3	Sb 206.836†	41.0	9.9	-8.1776 ug/L	-8.1776 ppb	11:07:10
3	Se 196.026†	-277.8	-243.2	-11.469 ug/L	-11.469 ppb	11:07:10
3	Si 251.611†	561687.6	528848.5	20321 ug/L	20321 ppb	11:06:45
3	Sn 189.927†	7.3	-0.3	-3.2899 ug/L	-3.2899 ppb	11:07:10
3	Ti 334.940†	2147427.4	2024952.8	3546.0 ug/L	3546.0 ppb	11:06:45
3	Tl 190.801†	-129.7	-98.8	-0.5057 ug/L	-0.5057 ppb	11:07:10
3	U 409.014†	-10858.6	-8184.2	-252.50 ug/L	-252.50 ppb	11:06:45
3	V 292.402†	3255.5	4304.8	20.347 ug/L	20.347 ppb	11:06:50
3	Zn 213.857†	37659.4	34985.2	427.77 ug/L	427.77 ppb	11:06:50
3	SiO2†	556238.4	523726.4	42842 ug/L	42842 ppb	11:07:27

Mean Data: 246679003|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	855478.4	105.03 %		0.926			0.88%
Sc Radial	3379.2	100 %		0.3			0.28%
Y 371.029	897068.0	128.05 %		0.895			0.70%
Y RADIAL	3400.8	121.9 %		0.25			0.20%
Ag 328.068†	-3935.8	1.4097 ug/L		0.22323	1.4097 ppb	0.22323	15.84%
Al 396.153Radial†	3262.7	6926.7 ug/L		20.35	6926.7 ppb	20.35	0.29%
As 188.979†	-46.4	20.250 ug/L		0.6014	20.250 ppb	0.6014	2.97%
B 249.677†	291.2	-3.0809 ug/L		0.82346	-3.0809 ppb	0.82346	26.73%
Ba 233.527†	9357.6	92.208 ug/L		1.4154	92.208 ppb	1.4154	1.53%
Be 313.107†	-15767.6	1.0575 ug/L		0.20144	1.0575 ppb	0.20144	19.05%
Ca 317.933Radial†	1139.2	4479.7 ug/L		15.34	4479.7 ppb	15.34	0.34%
Cd 226.502†	546.0	0.9506 ug/L		0.16048	0.9506 ppb	0.16048	16.88%
Co 228.616†	427.2	3.0705 ug/L		0.31423	3.0705 ppb	0.31423	10.23%
Cr 267.716†	1741.6	26.500 ug/L		0.0696	26.500 ppb	0.0696	0.26%
Cu 324.752†	2468.5	11.972 ug/L		0.4756	11.972 ppb	0.4756	3.97%
Fe 238.204 Radial†	2487.9	69891 ug/L		232.5	69891 ppb	232.5	0.33%
K 766.490 Radial†	8627.4	3926.7 ug/L		15.16	3926.7 ppb	15.16	0.39%

Mg 279.077 IEC†	14.1	1303.2 ug/L	174.07	1303.2 ppb	174.07	13.36%
Mn 257.610†	1521204.1	2063.5 ug/L	2.30	2063.5 ppb	2.30	0.11%
Mo 202.031†	63.2	11.128 ug/L	0.6988	11.128 ppb	0.6988	6.28%
Na 589.592 Radial†	7582.4	2511.6 ug/L	9.67	2511.6 ppb	9.67	0.38%
Ni 231.604†	430.1	14.035 ug/L	0.2397	14.035 ppb	0.2397	1.71%
P 214.914†	651.6	459.65 ug/L	4.066	459.65 ppb	4.066	0.88%
Pb 220.353†	235.5	29.447 ug/L	1.9951	29.447 ppb	1.9951	6.78%
S 181.975 Axial†	11.0	18.963 ug/L	2.0002	18.963 ppb	2.0002	10.55%
Sb 206.836†	8.5	-8.7701 ug/L	2.23159	-8.7701 ppb	2.23159	25.45%
Se 196.026†	-248.6	-16.026 ug/L	4.8607	-16.026 ppb	4.8607	30.33%
Si 251.611†	528227.8	20298 ug/L	37.2	20298 ppb	37.2	0.18%
Sn 189.927†	1.8	-2.7914 ug/L	0.43658	-2.7914 ppb	0.43658	15.64%
Sr 421.552†	919.2	8.4909 ug/L	0.15183	8.4909 ppb	0.15183	1.79%
Ti 334.940†	2023907.0	3544.1 ug/L	3.03	3544.1 ppb	3.03	0.09%
Tl 190.801†	-104.1	-2.6507 ug/L	2.02692	-2.6507 ppb	2.02692	76.47%
U 409.014†	-8130.8	-250.91 ug/L	2.348	-250.91 ppb	2.348	0.94%
V 292.402†	4336.6	20.598 ug/L	0.3183	20.598 ppb	0.3183	1.55%
Zn 213.857†	35652.6	436.12 ug/L	8.156	436.12 ppb	8.156	1.87%
SiO2†	528456.8	43229 ug/L	335.9	43229 ppb	335.9	0.78%

Sequence No.: 12  
 Sample ID: 246679004|951773|1  
 Analyst: HSC  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 47  
 Date Collected: 3/9/2010 11:09:38  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 246679004|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3402.2	3402.2	101 %		11:11:51
1	Y RADIAL	3743.0	3743.0	134.2 %		11:11:51
1	Al 396.153Radial†	20653.3	20487.8	43497 ug/L	43497 ppb	11:11:31
1	Ca 317.933Radial†	2447.2	2408.4	9470.2 ug/L	9470.2 ppb	11:11:51
1	Fe 238.204 Radial†	2281.9	2248.7	63170 ug/L	63170 ppb	11:11:51
1	K 766.490 Radial†	12445.2	10147.7	4618.4 ug/L	4618.4 ppb	11:11:31
1	Mg 279.077 IEC†	77.1	74.7	7238.0 ug/L	7238.0 ppb	11:11:51
1	Na 589.592 Radial†	1021.3	1780.5	589.78 ug/L	589.78 ppb	11:11:31
1	Sr 421.552†	6324.5	6228.1	57.686 ug/L	57.686 ppb	11:11:31
1	Sc 361.383	853966.5	853966.5	104.85 %		11:12:49
1	Y 371.029	983252.2	983252.2	140.35 %		11:12:49
1	Ag 328.068†	-3402.9	-3455.4	1.8078 ug/L	1.8078 ppb	11:12:54
1	As 188.979†	-31.5	-12.6	21.723 ug/L	21.723 ppb	11:13:14
1	B 249.677†	255.5	436.3	2.1543 ug/L	2.1543 ppb	11:12:54
1	Ba 233.527†	21291.8	20305.1	197.34 ug/L	197.34 ppb	11:12:54
1	Be 313.107†	80393.7	80150.2	39.234 ug/L	39.234 ppb	11:12:49
1	Cd 226.502†	339.6	485.7	0.7482 ug/L	0.7482 ppb	11:13:14
1	Co 228.616†	323.0	350.7	5.1335 ug/L	5.1335 ppb	11:13:14
1	Cr 267.716†	4530.5	4245.3	59.999 ug/L	59.999 ppb	11:12:54
1	Cu 324.752†	13681.9	7069.6	26.763 ug/L	26.763 ppb	11:12:54
1	Mn 257.610†	1473689.7	1405150.3	1905.6 ug/L	1905.6 ppb	11:12:49
1	Mo 202.031†	11.8	4.1	5.3835 ug/L	5.3835 ppb	11:13:14
1	Ni 231.604†	617.6	519.4	16.952 ug/L	16.952 ppb	11:13:14
1	P 214.914†	665.1	456.7	316.73 ug/L	316.73 ppb	11:13:14
1	Pb 220.353†	178.9	213.7	35.045 ug/L	35.045 ppb	11:13:14
1	S 181.975 Axial†	43.7	14.9	19.185 ug/L	19.185 ppb	11:13:14
1	Sb 206.836†	33.9	3.6	-5.7883 ug/L	-5.7883 ppb	11:13:14
1	Se 196.026†	-261.6	-230.9	-9.2673 ug/L	-9.2673 ppb	11:13:14
1	Si 251.611†	959656.2	914743.1	35150 ug/L	35150 ppb	11:12:49
1	Sn 189.927†	-58.8	-63.3	-16.802 ug/L	-16.802 ppb	11:13:14
1	Ti 334.940†	979244.3	934976.6	1637.7 ug/L	1637.7 ppb	11:12:49
1	Tl 190.801†	-90.4	-62.7	-2.6533 ug/L	-2.6533 ppb	11:13:14
1	U 409.014†	-9288.6	-6809.2	-210.74 ug/L	-210.74 ppb	11:12:49
1	V 292.402†	5711.1	6683.5	42.586 ug/L	42.586 ppb	11:12:54
1	Zn 213.857†	35437.4	33290.2	407.49 ug/L	407.49 ppb	11:12:54
1	SiO2†	975260.3	929639.4	76047 ug/L	76047 ppb	11:14:23
2	Sc Radial	3372.8	3372.8	100 %		11:12:16
2	Y RADIAL	3724.7	3724.7	133.6 %		11:12:16
2	Al 396.153Radial†	20287.0	20300.5	43099 ug/L	43099 ppb	11:11:56
2	Ca 317.933Radial†	2415.6	2398.0	9429.3 ug/L	9429.3 ppb	11:12:16
2	Fe 238.204 Radial†	2263.4	2249.9	63204 ug/L	63204 ppb	11:12:16
2	K 766.490 Radial†	12252.6	10062.9	4579.8 ug/L	4579.8 ppb	11:11:56
2	Mg 279.077 IEC†	76.3	74.6	7224.6 ug/L	7224.6 ppb	11:12:16
2	Na 589.592 Radial†	999.7	1767.8	585.55 ug/L	585.55 ppb	11:11:56
2	Sr 421.552†	6235.6	6193.9	57.369 ug/L	57.369 ppb	11:11:56
2	Sc 361.383	858055.8	858055.8	105.35 %		11:13:20
2	Y 371.029	987764.5	987764.5	140.99 %		11:13:20
2	Ag 328.068†	-3492.3	-3524.8	1.4618 ug/L	1.4618 ppb	11:13:25
2	As 188.979†	-34.6	-15.4	20.120 ug/L	20.120 ppb	11:13:45
2	B 249.677†	336.8	512.4	4.3170 ug/L	4.3170 ppb	11:13:25
2	Ba 233.527†	21401.6	20312.5	197.42 ug/L	197.42 ppb	11:13:25
2	Be 313.107†	80952.0	80314.7	39.314 ug/L	39.314 ppb	11:13:20
2	Cd 226.502†	346.8	491.1	0.8257 ug/L	0.8257 ppb	11:13:45
2	Co 228.616†	314.5	341.2	4.8700 ug/L	4.8700 ppb	11:13:45
2	Cr 267.716†	4493.9	4189.9	59.255 ug/L	59.255 ppb	11:13:25
2	Cu 324.752†	13685.5	7010.8	26.570 ug/L	26.570 ppb	11:13:25
2	Mn 257.610†	1482991.7	1407281.4	1908.5 ug/L	1908.5 ppb	11:13:20
2	Mo 202.031†	10.4	2.7	5.2562 ug/L	5.2562 ppb	11:13:45
2	Ni 231.604†	625.3	523.8	17.099 ug/L	17.099 ppb	11:13:45

2	P 214.914†	666.3	454.9	315.17 ug/L	315.17 ppb	11:13:45
2	Pb 220.353†	200.4	233.2	38.088 ug/L	38.088 ppb	11:13:45
2	S 181.975 Axial†	39.7	10.9	11.855 ug/L	11.855 ppb	11:13:45
2	Sb 206.836†	42.5	11.6	-2.3457 ug/L	-2.3457 ppb	11:13:45
2	Se 196.026†	-263.0	-231.1	-9.4396 ug/L	-9.4396 ppb	11:13:45
2	Si 251.611†	968394.2	918675.2	35301 ug/L	35301 ppb	11:13:20
2	Sn 189.927†	-59.4	-63.5	-16.870 ug/L	-16.870 ppb	11:13:45
2	Ti 334.940†	985861.6	936806.9	1640.9 ug/L	1640.9 ppb	11:13:20
2	Tl 190.801†	-98.1	-69.7	-5.3959 ug/L	-5.3959 ppb	11:13:45
2	U 409.014†	-9301.7	-6779.4	-209.85 ug/L	-209.85 ppb	11:13:20
2	V 292.402†	5905.4	6841.9	43.853 ug/L	43.853 ppb	11:13:25
2	Zn 213.857†	35617.2	33299.9	407.61 ug/L	407.61 ppb	11:13:25
2	SiO2†	987227.6	936566.1	76614 ug/L	76614 ppb	11:14:29
3	Sc Radial	3408.4	3408.4	101 %		11:12:42
3	Y RADIAL	3769.4	3769.4	135.2 %		11:12:42
3	Al 396.153Radial†	20435.0	20235.2	42960 ug/L	42960 ppb	11:12:22
3	Ca 317.933Radial†	2428.1	2385.1	9378.6 ug/L	9378.6 ppb	11:12:42
3	Fe 238.204 Radial†	2264.2	2227.1	62565 ug/L	62565 ppb	11:12:42
3	K 766.490 Radial†	12465.1	10144.9	4617.2 ug/L	4617.2 ppb	11:12:22
3	Mg 279.077 IEC†	78.1	75.5	7315.3 ug/L	7315.3 ppb	11:12:42
3	Na 589.592 Radial†	983.2	1741.0	576.71 ug/L	576.71 ppb	11:12:22
3	Sr 421.552†	6275.8	6168.6	57.135 ug/L	57.135 ppb	11:12:22
3	Sc 361.383	869381.1	869381.1	106.74 %		11:13:51
3	Y 371.029	999702.5	999702.5	142.70 %		11:13:51
3	Ag 328.068†	-3507.8	-3496.2	1.4104 ug/L	1.4104 ppb	11:13:56
3	As 188.979†	-25.5	-6.5	25.151 ug/L	25.151 ppb	11:14:17
3	B 249.677†	305.5	478.9	3.4645 ug/L	3.4645 ppb	11:13:56
3	Ba 233.527†	21397.3	20043.9	194.81 ug/L	194.81 ppb	11:13:56
3	Be 313.107†	82054.4	80346.5	39.339 ug/L	39.339 ppb	11:13:51
3	Cd 226.502†	367.1	505.7	1.1120 ug/L	1.1120 ppb	11:14:17
3	Co 228.616†	338.8	360.0	5.3776 ug/L	5.3776 ppb	11:14:17
3	Cr 267.716†	4504.5	4144.4	58.613 ug/L	58.613 ppb	11:13:56
3	Cu 324.752†	13744.8	6897.2	26.163 ug/L	26.163 ppb	11:13:56
3	Mn 257.610†	1504522.3	1409114.8	1910.9 ug/L	1910.9 ppb	11:13:51
3	Mo 202.031†	21.9	13.3	6.1595 ug/L	6.1595 ppb	11:14:17
3	Ni 231.604†	620.9	512.0	16.713 ug/L	16.713 ppb	11:14:17
3	P 214.914†	660.2	440.9	304.72 ug/L	304.72 ppb	11:14:17
3	Pb 220.353†	194.5	225.3	36.877 ug/L	36.877 ppb	11:14:17
3	S 181.975 Axial†	35.5	6.4	3.7821 ug/L	3.7821 ppb	11:14:17
3	Sb 206.836†	37.2	6.1	-4.6633 ug/L	-4.6633 ppb	11:14:17
3	Se 196.026†	-270.2	-234.5	-14.153 ug/L	-14.153 ppb	11:14:17
3	Si 251.611†	984226.7	921533.5	35411 ug/L	35411 ppb	11:13:51
3	Sn 189.927†	-43.1	-47.6	-13.092 ug/L	-13.092 ppb	11:14:17
3	Ti 334.940†	1001641.4	939399.8	1645.5 ug/L	1645.5 ppb	11:13:51
3	Tl 190.801†	-96.6	-67.0	-4.2825 ug/L	-4.2825 ppb	11:14:17
3	U 409.014†	-9481.8	-6833.1	-211.38 ug/L	-211.38 ppb	11:13:51
3	V 292.402†	5820.0	6689.0	42.722 ug/L	42.722 ppb	11:13:56
3	Zn 213.857†	35609.1	32851.8	402.09 ug/L	402.09 ppb	11:13:56
3	SiO2†	983564.7	920927.1	75335 ug/L	75335 ppb	11:14:35

Mean Data: 246679004|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860467.8	105.65 %	0.980			0.93%
Sc Radial	3394.5	101 %	0.6			0.56%
Y 371.029	990239.7	141.35 %	1.213			0.86%
Y RADIAL	3745.7	134.3 %	0.80			0.60%
Ag 328.068†	-3492.1	1.5600 ug/L	0.21616	1.5600 ppb	0.21616	13.86%
Al 396.153Radial†	20341.2	43185 ug/L	278.4	43185 ppb	278.4	0.64%
As 188.979†	-11.5	22.332 ug/L	2.5701	22.332 ppb	2.5701	11.51%
B 249.677†	475.8	3.3119 ug/L	1.08937	3.3119 ppb	1.08937	32.89%
Ba 233.527†	20220.5	196.52 ug/L	1.483	196.52 ppb	1.483	0.75%
Be 313.107†	80270.5	39.296 ug/L	0.0547	39.296 ppb	0.0547	0.14%
Ca 317.933Radial†	2397.2	9426.0 ug/L	45.86	9426.0 ppb	45.86	0.49%
Cd 226.502†	494.2	0.8953 ug/L	0.19163	0.8953 ppb	0.19163	21.40%
Co 228.616†	350.6	5.1270 ug/L	0.25385	5.1270 ppb	0.25385	4.95%
Cr 267.716†	4193.2	59.289 ug/L	0.6936	59.289 ppb	0.6936	1.17%
Cu 324.752†	6992.5	26.499 ug/L	0.3064	26.499 ppb	0.3064	1.16%
Fe 238.204 Radial†	2241.9	62980 ug/L	359.7	62980 ppb	359.7	0.57%
K 766.490 Radial†	10118.5	4605.1 ug/L	21.95	4605.1 ppb	21.95	0.48%

Mg 279.077 IEC†	74.9	7259.3 ug/L	48.99	7259.3 ppb	48.99	0.67%
Mn 257.610†	1407182.2	1908.4 ug/L	2.65	1908.4 ppb	2.65	0.14%
Mo 202.031†	6.7	5.5997 ug/L	0.48895	5.5997 ppb	0.48895	8.73%
Na 589.592 Radial†	1763.1	584.01 ug/L	6.672	584.01 ppb	6.672	1.14%
Ni 231.604†	518.4	16.921 ug/L	0.1947	16.921 ppb	0.1947	1.15%
P 214.914†	450.8	312.21 ug/L	6.533	312.21 ppb	6.533	2.09%
Pb 220.353†	224.0	36.670 ug/L	1.5318	36.670 ppb	1.5318	4.18%
S 181.975 Axial†	10.7	11.607 ug/L	7.7043	11.607 ppb	7.7043	66.37%
Sb 206.836†	7.1	-4.2657 ug/L	1.75540	-4.2657 ppb	1.75540	41.15%
Se 196.026†	-232.2	-10.953 ug/L	2.7722	-10.953 ppb	2.7722	25.31%
Si 251.611†	918317.3	35287 ug/L	131.0	35287 ppb	131.0	0.37%
Sn 189.927†	-58.1	-15.588 ug/L	2.1619	-15.588 ppb	2.1619	13.87%
Sr 421.552†	6196.9	57.397 ug/L	0.2762	57.397 ppb	0.2762	0.48%
Ti 334.940†	937061.1	1641.4 ug/L	3.88	1641.4 ppb	3.88	0.24%
Tl 190.801†	-66.5	-4.1106 ug/L	1.37935	-4.1106 ppb	1.37935	33.56%
U 409.014†	-6807.2	-210.66 ug/L	0.768	-210.66 ppb	0.768	0.36%
V 292.402†	6738.1	43.054 ug/L	0.6953	43.054 ppb	0.6953	1.61%
Zn 213.857†	33147.3	405.73 ug/L	3.151	405.73 ppb	3.151	0.78%
SiO2†	929044.2	75999 ug/L	641.1	75999 ppb	641.1	0.84%

Sequence No.: 13  
 Sample ID: 246679005|951773|1  
 Analyst: HSC  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 48  
 Date Collected: 3/9/2010 11:16:45  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 246679005|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3316.0	3316.0	98.6 %		11:18:59
1	Y RADIAL	3324.7	3324.7	119.2 %		11:18:59
1	Al 396.153Radial†	2522.9	2628.5	5580.1 ug/L	5580.1 ppb	11:18:39
1	Ca 317.933Radial†	749.6	749.4	2946.7 ug/L	2946.7 ppb	11:18:59
1	Fe 238.204 Radial†	2744.4	2776.5	77997 ug/L	77997 ppb	11:18:59
1	K 766.490 Radial†	8633.4	6601.2	3004.5 ug/L	3004.5 ppb	11:18:39
1	Mg 279.077 IEC†	18.0	16.7	1555.3 ug/L	1555.3 ppb	11:18:59
1	Na 589.592 Radial†	4403.4	5237.4	1734.8 ug/L	1734.8 ppb	11:18:39
1	Sr 421.552†	907.5	896.0	8.2872 ug/L	8.2872 ppb	11:18:39
1	Sc 361.383	838875.3	838875.3	103.00 %		11:19:56
1	Y 371.029	878827.2	878827.2	125.44 %		11:19:56
1	Ag 328.068†	-4389.2	-4471.5	1.1479 ug/L	1.1479 ppb	11:20:01
1	As 188.979†	-74.6	-55.0	18.303 ug/L	18.303 ppb	11:20:21
1	B 249.677†	178.6	366.0	-2.2668 ug/L	-2.2668 ppb	11:20:01
1	Ba 233.527†	9987.3	9694.7	95.701 ug/L	95.701 ppb	11:20:01
1	Be 313.107†	-18426.3	-14416.7	1.9401 ug/L	1.9401 ppb	11:20:01
1	Cd 226.502†	472.7	620.8	1.2376 ug/L	1.2376 ppb	11:20:21
1	Co 228.616†	438.7	468.6	3.8050 ug/L	3.8050 ppb	11:20:21
1	Cr 267.716†	1512.5	1392.8	22.127 ug/L	22.127 ppb	11:20:21
1	Cu 324.752†	9588.9	3330.4	15.237 ug/L	15.237 ppb	11:20:01
1	Mn 257.610†	1786781.5	1734422.7	2352.5 ug/L	2352.5 ppb	11:19:56
1	Mo 202.031†	72.2	62.9	11.715 ug/L	11.715 ppb	11:20:21
1	Ni 231.604†	363.9	283.7	9.2550 ug/L	9.2550 ppb	11:20:21
1	P 214.914†	844.4	642.2	444.77 ug/L	444.77 ppb	11:20:21
1	Pb 220.353†	220.5	257.1	31.441 ug/L	31.441 ppb	11:20:21
1	S 181.975 Axial†	45.6	17.4	30.915 ug/L	30.915 ppb	11:20:21
1	Sb 206.836†	46.0	15.9	-6.0309 ug/L	-6.0309 ppb	11:20:21
1	Se 196.026†	-309.4	-281.8	-22.145 ug/L	-22.145 ppb	11:20:21
1	Si 251.611†	421632.4	408831.2	15710 ug/L	15710 ppb	11:19:56
1	Sn 189.927†	22.3	14.4	-0.5673 ug/L	-0.5673 ppb	11:20:21
1	Ti 334.940†	2157067.1	2095349.2	3669.0 ug/L	3669.0 ppb	11:19:56
1	Tl 190.801†	-138.8	-111.3	-3.1394 ug/L	-3.1394 ppb	11:20:21
1	U 409.014†	-10161.7	-7816.3	-242.43 ug/L	-242.43 ppb	11:19:56
1	V 292.402†	3382.9	4521.0	20.793 ug/L	20.793 ppb	11:20:01
1	Zn 213.857†	42158.5	40423.9	494.72 ug/L	494.72 ppb	11:20:01
1	SiO2†	427043.8	414099.1	33874 ug/L	33874 ppb	11:21:29
2	Sc Radial	3327.1	3327.1	98.9 %		11:19:24
2	Y RADIAL	3337.6	3337.6	119.7 %		11:19:24
2	Al 396.153Radial†	2616.9	2714.9	5763.5 ug/L	5763.5 ppb	11:19:04
2	Ca 317.933Radial†	753.9	751.2	2953.7 ug/L	2953.7 ppb	11:19:24
2	Fe 238.204 Radial†	2740.5	2763.2	77625 ug/L	77625 ppb	11:19:24
2	K 766.490 Radial†	8842.9	6783.6	3087.5 ug/L	3087.5 ppb	11:19:04
2	Mg 279.077 IEC†	16.0	14.6	1344.2 ug/L	1344.2 ppb	11:19:24
2	Na 589.592 Radial†	4603.0	5424.2	1796.7 ug/L	1796.7 ppb	11:19:04
2	Sr 421.552†	915.4	900.9	8.3328 ug/L	8.3328 ppb	11:19:04
2	Sc 361.383	837290.4	837290.4	102.80 %		11:20:27
2	Y 371.029	876390.2	876390.2	125.10 %		11:20:27
2	Ag 328.068†	-4395.5	-4485.6	0.9566 ug/L	0.9566 ppb	11:20:32
2	As 188.979†	-73.7	-54.3	18.618 ug/L	18.618 ppb	11:20:52
2	B 249.677†	65.2	256.1	-5.3404 ug/L	-5.3404 ppb	11:20:32
2	Ba 233.527†	9981.6	9707.4	95.809 ug/L	95.809 ppb	11:20:32
2	Be 313.107†	-18161.4	-14192.9	2.0374 ug/L	2.0374 ppb	11:20:32
2	Cd 226.502†	470.1	619.1	1.2499 ug/L	1.2499 ppb	11:20:52
2	Co 228.616†	439.7	470.3	3.8577 ug/L	3.8577 ppb	11:20:52
2	Cr 267.716†	1511.7	1394.8	22.137 ug/L	22.137 ppb	11:20:52
2	Cu 324.752†	9479.2	3241.3	14.925 ug/L	14.925 ppb	11:20:32
2	Mn 257.610†	1783627.0	1734637.9	2352.8 ug/L	2352.8 ppb	11:20:27
2	Mo 202.031†	72.6	63.4	11.727 ug/L	11.727 ppb	11:20:52
2	Ni 231.604†	394.0	313.6	10.232 ug/L	10.232 ppb	11:20:52

2	P 214.914†	851.4	650.6	451.82 ug/L	451.82 ppb	11:20:52
2	Pb 220.353†	211.5	248.8	30.199 ug/L	30.199 ppb	11:20:52
2	S 181.975 Axial†	44.6	16.6	29.321 ug/L	29.321 ppb	11:20:52
2	Sb 206.836†	40.8	11.0	-8.1280 ug/L	-8.1280 ppb	11:20:52
2	Se 196.026†	-304.9	-278.0	-19.913 ug/L	-19.913 ppb	11:20:52
2	Si 251.611†	420898.0	408891.7	15712 ug/L	15712 ppb	11:20:27
2	Sn 189.927†	28.9	20.9	0.9860 ug/L	0.9860 ppb	11:20:52
2	Ti 334.940†	2152522.5	2094892.8	3668.2 ug/L	3668.2 ppb	11:20:27
2	Tl 190.801†	-144.5	-117.2	-5.4909 ug/L	-5.4909 ppb	11:20:52
2	U 409.014†	-10222.4	-7894.0	-244.71 ug/L	-244.71 ppb	11:20:27
2	V 292.402†	3228.5	4377.0	19.681 ug/L	19.681 ppb	11:20:32
2	Zn 213.857†	41929.8	40278.9	492.95 ug/L	492.95 ppb	11:20:32
2	SiO2†	421027.7	409031.7	33460 ug/L	33460 ppb	11:21:35
3	Sc Radial	3312.2	3312.2	98.5 %		11:19:49
3	Y RADIAL	3321.1	3321.1	119.1 %		11:19:49
3	Al 396.153Radial†	2585.1	2694.5	5720.4 ug/L	5720.4 ppb	11:19:29
3	Ca 317.933Radial†	741.9	742.5	2919.5 ug/L	2919.5 ppb	11:19:49
3	Fe 238.204 Radial†	2726.4	2761.4	77574 ug/L	77574 ppb	11:19:49
3	K 766.490 Radial†	8810.0	6790.4	3090.6 ug/L	3090.6 ppb	11:19:29
3	Mg 279.077 IEC†	19.0	17.7	1653.4 ug/L	1653.4 ppb	11:19:49
3	Na 589.592 Radial†	4572.1	5413.7	1793.2 ug/L	1793.2 ppb	11:19:29
3	Sr 421.552†	901.7	891.1	8.2421 ug/L	8.2421 ppb	11:19:29
3	Sc 361.383	854716.7	854716.7	104.94 %		11:20:58
3	Y 371.029	894072.0	894072.0	127.62 %		11:20:58
3	Ag 328.068†	-4305.5	-4312.7	1.8388 ug/L	1.8388 ppb	11:21:03
3	As 188.979†	-71.9	-51.1	20.401 ug/L	20.401 ppb	11:21:23
3	B 249.677†	97.7	285.7	-4.4862 ug/L	-4.4862 ppb	11:21:03
3	Ba 233.527†	9820.7	9356.2	92.428 ug/L	92.428 ppb	11:21:03
3	Be 313.107†	-17974.4	-13654.5	2.2695 ug/L	2.2695 ppb	11:21:03
3	Cd 226.502†	481.1	620.3	1.2735 ug/L	1.2735 ppb	11:21:23
3	Co 228.616†	427.6	450.1	3.3220 ug/L	3.3220 ppb	11:21:23
3	Cr 267.716†	1505.7	1359.1	21.653 ug/L	21.653 ppb	11:21:23
3	Cu 324.752†	9423.4	3000.1	14.127 ug/L	14.127 ppb	11:21:03
3	Mn 257.610†	1814468.1	1728652.6	2344.7 ug/L	2344.7 ppb	11:20:58
3	Mo 202.031†	78.5	67.6	12.101 ug/L	12.101 ppb	11:21:23
3	Ni 231.604†	398.9	310.4	10.129 ug/L	10.129 ppb	11:21:23
3	P 214.914†	846.8	629.4	435.20 ug/L	435.20 ppb	11:21:23
3	Pb 220.353†	220.4	253.0	30.884 ug/L	30.884 ppb	11:21:23
3	S 181.975 Axial†	44.3	15.4	27.120 ug/L	27.120 ppb	11:21:23
3	Sb 206.836†	42.4	11.7	-7.8257 ug/L	-7.8257 ppb	11:21:23
3	Se 196.026†	-315.6	-282.1	-23.555 ug/L	-23.555 ppb	11:21:23
3	Si 251.611†	428919.4	408187.9	15685 ug/L	15685 ppb	11:20:58
3	Sn 189.927†	25.5	17.1	0.0777 ug/L	0.0777 ppb	11:21:23
3	Ti 334.940†	2195591.7	2093243.6	3665.3 ug/L	3665.3 ppb	11:20:58
3	Tl 190.801†	-140.6	-110.5	-2.8911 ug/L	-2.8911 ppb	11:21:23
3	U 409.014†	-10420.6	-7880.1	-244.28 ug/L	-244.28 ppb	11:20:58
3	V 292.402†	3229.5	4313.9	19.197 ug/L	19.197 ppb	11:21:03
3	Zn 213.857†	41437.2	38977.9	476.66 ug/L	476.66 ppb	11:21:03
3	SiO2†	430116.4	409342.4	33485 ug/L	33485 ppb	11:21:40

Mean Data: 246679005|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843627.5	103.58 %	1.183			1.14%
Sc Radial	3318.4	98.7 %	0.23			0.23%
Y 371.029	883096.5	126.05 %	1.368			1.09%
Y RADIAL	3327.8	119.3 %	0.31			0.26%
Ag 328.068†	-4423.3	1.3144 ug/L	0.46411	1.3144 ppb	0.46411	35.31%
Al 396.153Radial†	2679.3	5688.0 ug/L	95.89	5688.0 ppb	95.89	1.69%
As 188.979†	-53.5	19.107 ug/L	1.1315	19.107 ppb	1.1315	5.92%
B 249.677†	302.6	-4.0312 ug/L	1.58651	-4.0312 ppb	1.58651	39.36%
Ba 233.527†	9586.1	94.646 ug/L	1.9216	94.646 ppb	1.9216	2.03%
Be 313.107†	-14088.0	2.0823 ug/L	0.16922	2.0823 ppb	0.16922	8.13%
Ca 317.933Radial†	747.7	2940.0 ug/L	18.07	2940.0 ppb	18.07	0.61%
Cd 226.502†	620.1	1.2537 ug/L	0.01824	1.2537 ppb	0.01824	1.45%
Co 228.616†	463.0	3.6616 ug/L	0.29525	3.6616 ppb	0.29525	8.06%
Cr 267.716†	1382.2	21.973 ug/L	0.2765	21.973 ppb	0.2765	1.26%
Cu 324.752†	3190.6	14.763 ug/L	0.5726	14.763 ppb	0.5726	3.88%
Fe 238.204 Radial†	2767.0	77732 ug/L	230.7	77732 ppb	230.7	0.30%
K 766.490 Radial†	6725.1	3060.9 ug/L	48.89	3060.9 ppb	48.89	1.60%



Mg 279.077 IEC†	16.4	1517.6 ug/L	158.01	1517.6 ppb	158.01	10.41%
Mn 257.610†	1732571.1	2350.0 ug/L	4.61	2350.0 ppb	4.61	0.20%
Mo 202.031†	64.6	11.847 ug/L	0.2194	11.847 ppb	0.2194	1.85%
Na 589.592 Radial†	5358.4	1774.9 ug/L	34.77	1774.9 ppb	34.77	1.96%
Ni 231.604†	302.6	9.8721 ug/L	0.53683	9.8721 ppb	0.53683	5.44%
P 214.914†	640.7	443.93 ug/L	8.343	443.93 ppb	8.343	1.88%
Pb 220.353†	253.0	30.841 ug/L	0.6219	30.841 ppb	0.6219	2.02%
S 181.975 Axial†	16.4	29.119 ug/L	1.9058	29.119 ppb	1.9058	6.54%
Sb 206.836†	12.8	-7.3282 ug/L	1.13366	-7.3282 ppb	1.13366	15.47%
Se 196.026†	-280.6	-21.871 ug/L	1.8364	-21.871 ppb	1.8364	8.40%
Si 251.611†	408636.9	15702 ug/L	15.0	15702 ppb	15.0	0.10%
Sn 189.927†	17.5	0.1655 ug/L	0.78035	0.1655 ppb	0.78035	471.62%
Sr 421.552†	896.0	8.2874 ug/L	0.04537	8.2874 ppb	0.04537	0.55%
Ti 334.940†	2094495.2	3667.5 ug/L	1.95	3667.5 ppb	1.95	0.05%
Tl 190.801†	-113.0	-3.8405 ug/L	1.43471	-3.8405 ppb	1.43471	37.36%
U 409.014†	-7863.5	-243.81 ug/L	1.213	-243.81 ppb	1.213	0.50%
V 292.402†	4404.0	19.890 ug/L	0.8184	19.890 ppb	0.8184	4.11%
Zn 213.857†	39893.6	488.11 ug/L	9.955	488.11 ppb	9.955	2.04%
SiO2†	410824.4	33606 ug/L	232.3	33606 ppb	232.3	0.69%

Sequence No.: 14  
 Sample ID: 246679006|951773|1  
 Analyst: HSC  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 49  
 Date Collected: 3/9/2010 11:23:52  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 246679006|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3391.9	3391.9	101 %		11:26:05
1	Y RADIAL	3627.8	3627.8	130.1 %		11:26:05
1	Al 396.153Radial†	5748.6	5769.7	12249 ug/L	12249 ppb	11:25:45
1	Ca 317.933Radial†	1681.9	1656.8	6515.0 ug/L	6515.0 ppb	11:26:05
1	Fe 238.204 Radial†	3130.8	3097.3	87009 ug/L	87009 ppb	11:26:05
1	K 766.490 Radial†	18816.4	16502.6	7512.6 ug/L	7512.6 ppb	11:25:45
1	Mg 279.077 IEC†	80.0	77.8	7509.8 ug/L	7509.8 ppb	11:26:05
1	Na 589.592 Radial†	10508.4	11191.1	3707.0 ug/L	3707.0 ppb	11:25:45
1	Sr 421.552†	2854.9	2806.4	25.977 ug/L	25.977 ppb	11:25:45
1	Sc 361.383	866838.5	866838.5	106.43 %		11:27:03
1	Y 371.029	966283.7	966283.7	137.93 %		11:27:03
1	Ag 328.068†	-4835.5	-4753.3	2.4914 ug/L	2.4914 ppb	11:27:08
1	As 188.979†	-84.5	-62.0	25.071 ug/L	25.071 ppb	11:27:28
1	B 249.677†	223.4	402.5	-2.6977 ug/L	-2.6977 ppb	11:27:08
1	Ba 233.527†	17446.0	16390.0	160.41 ug/L	160.41 ppb	11:27:08
1	Be 313.107†	-22366.3	-17541.6	2.8315 ug/L	2.8315 ppb	11:27:08
1	Cd 226.502†	600.9	726.4	1.8969 ug/L	1.8969 ppb	11:27:28
1	Co 228.616†	556.5	565.6	4.1939 ug/L	4.1939 ppb	11:27:28
1	Cr 267.716†	2754.2	2512.2	37.618 ug/L	37.618 ppb	11:27:08
1	Cu 324.752†	9601.5	3041.9	14.768 ug/L	14.768 ppb	11:27:08
1	Mn 257.610†	2492047.6	2341126.5	3173.4 ug/L	3173.4 ppb	11:27:03
1	Mo 202.031†	49.3	39.2	10.333 ug/L	10.333 ppb	11:27:28
1	Ni 231.604†	631.7	523.9	17.096 ug/L	17.096 ppb	11:27:28
1	P 214.914†	1480.6	1213.6	891.59 ug/L	891.59 ppb	11:27:28
1	Pb 220.353†	330.5	353.5	47.154 ug/L	47.154 ppb	11:27:28
1	S 181.975 Axial†	49.4	19.6	33.754 ug/L	33.754 ppb	11:27:28
1	Sb 206.836†	60.4	28.0	-4.5200 ug/L	-4.5200 ppb	11:27:28
1	Se 196.026†	-348.0	-308.4	-17.990 ug/L	-17.990 ppb	11:27:28
1	Si 251.611†	594635.2	558178.6	21448 ug/L	21448 ppb	11:27:03
1	Sn 189.927†	-4.4	-11.3	-6.4955 ug/L	-6.4955 ppb	11:27:28
1	Ti 334.940†	2838429.2	2667995.3	4671.6 ug/L	4671.6 ppb	11:27:03
1	Tl 190.801†	-168.5	-134.9	-0.3981 ug/L	-0.3981 ppb	11:27:28
1	U 409.014†	-10846.7	-8141.6	-253.21 ug/L	-253.21 ppb	11:27:03
1	V 292.402†	5578.1	6477.7	34.225 ug/L	34.225 ppb	11:27:08
1	Zn 213.857†	50720.8	47148.6	577.57 ug/L	577.57 ppb	11:27:08
1	SiO2†	581617.5	545961.0	44661 ug/L	44661 ppb	11:28:36
2	Sc Radial	3377.5	3377.5	100 %		11:26:30
2	Y RADIAL	3610.0	3610.0	129.5 %		11:26:30
2	Al 396.153Radial†	5785.0	5830.3	12378 ug/L	12378 ppb	11:26:10
2	Ca 317.933Radial†	1675.6	1657.7	6518.3 ug/L	6518.3 ppb	11:26:30
2	Fe 238.204 Radial†	3127.8	3107.6	87298 ug/L	87298 ppb	11:26:30
2	K 766.490 Radial†	18749.7	16515.9	7518.6 ug/L	7518.6 ppb	11:26:10
2	Mg 279.077 IEC†	79.1	77.2	7456.8 ug/L	7456.8 ppb	11:26:30
2	Na 589.592 Radial†	10600.9	11327.7	3752.2 ug/L	3752.2 ppb	11:26:10
2	Sr 421.552†	2849.1	2812.7	26.035 ug/L	26.035 ppb	11:26:10
2	Sc 361.383	834939.1	834939.1	102.51 %		11:27:34
2	Y 371.029	936568.9	936568.9	133.69 %		11:27:34
2	Ag 328.068†	-4840.1	-4931.4	1.6697 ug/L	1.6697 ppb	11:27:39
2	As 188.979†	-84.5	-65.0	24.474 ug/L	24.474 ppb	11:27:59
2	B 249.677†	216.8	404.1	-2.7013 ug/L	-2.7013 ppb	11:27:39
2	Ba 233.527†	17523.0	17091.4	167.17 ug/L	167.17 ppb	11:27:39
2	Be 313.107†	-22445.3	-18421.5	2.7213 ug/L	2.7213 ppb	11:27:39
2	Cd 226.502†	577.4	725.0	1.8459 ug/L	1.8459 ppb	11:27:59
2	Co 228.616†	561.4	590.3	4.5966 ug/L	4.5966 ppb	11:27:59
2	Cr 267.716†	2705.6	2563.6	38.330 ug/L	38.330 ppb	11:27:39
2	Cu 324.752†	9613.8	3398.5	15.963 ug/L	15.963 ppb	11:27:39
2	Mn 257.610†	2467327.9	2406471.9	3261.8 ug/L	3261.8 ppb	11:27:34
2	Mo 202.031†	44.8	36.5	10.115 ug/L	10.115 ppb	11:27:59
2	Ni 231.604†	629.0	543.9	17.751 ug/L	17.751 ppb	11:27:59

2	P 214.914†	1454.0	1240.8	912.69 ug/L	912.69 ppb	11:27:59
2	Pb 220.353†	348.3	382.7	51.831 ug/L	51.831 ppb	11:27:59
2	S 181.975 Axial†	41.6	13.8	23.017 ug/L	23.017 ppb	11:27:59
2	Sb 206.836†	63.5	33.2	-2.6682 ug/L	-2.6682 ppb	11:27:59
2	Se 196.026†	-335.8	-308.9	-17.611 ug/L	-17.611 ppb	11:27:59
2	Si 251.611†	586563.0	571650.4	21966 ug/L	21966 ppb	11:27:34
2	Sn 189.927†	-2.2	-9.4	-6.0591 ug/L	-6.0591 ppb	11:27:59
2	Ti 334.940†	2806132.8	2738384.1	4794.8 ug/L	4794.8 ppb	11:27:34
2	Tl 190.801†	-183.0	-155.1	-7.0767 ug/L	-7.0767 ppb	11:27:59
2	U 409.014†	-10700.3	-8388.2	-260.61 ug/L	-260.61 ppb	11:27:34
2	V 292.402†	5677.9	6775.3	36.429 ug/L	36.429 ppb	11:27:39
2	Zn 213.857†	50880.1	49124.8	602.28 ug/L	602.28 ppb	11:27:39
2	SiO2†	591391.4	576374.3	47149 ug/L	47149 ppb	11:28:41
3	Sc Radial	3394.4	3394.4	101 %		11:26:56
3	Y RADIAL	3650.2	3650.2	130.9 %		11:26:56
3	Al 396.153Radial†	5903.2	5918.8	12566 ug/L	12566 ppb	11:26:36
3	Ca 317.933Radial†	1678.5	1652.2	6496.8 ug/L	6496.8 ppb	11:26:56
3	Fe 238.204 Radial†	3141.9	3106.1	87256 ug/L	87256 ppb	11:26:56
3	K 766.490 Radial†	19098.9	16768.9	7633.8 ug/L	7633.8 ppb	11:26:36
3	Mg 279.077 IEC†	79.4	77.1	7448.5 ug/L	7448.5 ppb	11:26:56
3	Na 589.592 Radial†	10780.7	11453.3	3793.8 ug/L	3793.8 ppb	11:26:36
3	Sr 421.552†	2920.3	2869.2	26.559 ug/L	26.559 ppb	11:26:36
3	Sc 361.383	843404.3	843404.3	103.55 %		11:28:05
3	Y 371.029	943937.3	943937.3	134.74 %		11:28:05
3	Ag 328.068†	-4759.0	-4805.7	2.3050 ug/L	2.3050 ppb	11:28:10
3	As 188.979†	-88.9	-68.4	21.812 ug/L	21.812 ppb	11:28:30
3	B 249.677†	137.0	324.9	-4.9500 ug/L	-4.9500 ppb	11:28:10
3	Ba 233.527†	17431.5	16831.5	164.67 ug/L	164.67 ppb	11:28:10
3	Be 313.107†	-22521.8	-18275.6	2.6133 ug/L	2.6133 ppb	11:28:10
3	Cd 226.502†	590.1	731.7	1.9507 ug/L	1.9507 ppb	11:28:30
3	Co 228.616†	541.7	565.8	4.1009 ug/L	4.1009 ppb	11:28:30
3	Cr 267.716†	2722.1	2553.0	38.182 ug/L	38.182 ppb	11:28:10
3	Cu 324.752†	9562.3	3254.7	15.485 ug/L	15.485 ppb	11:28:10
3	Mn 257.610†	2453346.2	2368812.2	3210.8 ug/L	3210.8 ppb	11:28:05
3	Mo 202.031†	57.6	48.4	11.176 ug/L	11.176 ppb	11:28:30
3	Ni 231.604†	608.2	517.7	16.894 ug/L	16.894 ppb	11:28:30
3	P 214.914†	1455.8	1228.3	903.01 ug/L	903.01 ppb	11:28:30
3	Pb 220.353†	343.4	374.6	50.582 ug/L	50.582 ppb	11:28:30
3	S 181.975 Axial†	38.1	10.0	16.012 ug/L	16.012 ppb	11:28:30
3	Sb 206.836†	50.2	19.8	-8.1693 ug/L	-8.1693 ppb	11:28:30
3	Se 196.026†	-342.5	-312.1	-20.362 ug/L	-20.362 ppb	11:28:30
3	Si 251.611†	583948.3	563382.3	21648 ug/L	21648 ppb	11:28:05
3	Sn 189.927†	5.7	-1.7	-4.2424 ug/L	-4.2424 ppb	11:28:30
3	Ti 334.940†	2789599.3	2694942.8	4718.7 ug/L	4718.7 ppb	11:28:05
3	Tl 190.801†	-176.3	-146.8	-4.6077 ug/L	-4.6077 ppb	11:28:30
3	U 409.014†	-10675.9	-8259.9	-256.77 ug/L	-256.77 ppb	11:28:05
3	V 292.402†	5637.8	6680.9	35.779 ug/L	35.779 ppb	11:28:10
3	Zn 213.857†	50731.0	48482.6	594.25 ug/L	594.25 ppb	11:28:10
3	SiO2†	579839.2	559427.9	45763 ug/L	45763 ppb	11:28:47

Mean Data: 246679006|951773|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848393.9	104.16 %	2.029			1.95%
Sc Radial	3388.0	101 %	0.3			0.27%
Y 371.029	948929.9	135.45 %	2.209			1.63%
Y RADIAL	3629.3	130.1 %	0.72			0.55%
Ag 328.068†	-4830.1	2.1554 ug/L	0.43082	2.1554 ppb	0.43082	19.99%
Al 396.153Radial†	5839.6	12398 ug/L	159.1	12398 ppb	159.1	1.28%
As 188.979†	-65.1	23.785 ug/L	1.7351	23.785 ppb	1.7351	7.29%
B 249.677†	377.2	-3.4497 ug/L	1.29933	-3.4497 ppb	1.29933	37.67%
Ba 233.527†	16771.0	164.08 ug/L	3.418	164.08 ppb	3.418	2.08%
Be 313.107†	-18079.6	2.7220 ug/L	0.10910	2.7220 ppb	0.10910	4.01%
Ca 317.933Radial†	1655.6	6510.0 ug/L	11.57	6510.0 ppb	11.57	0.18%
Cd 226.502†	727.7	1.8978 ug/L	0.05237	1.8978 ppb	0.05237	2.76%
Co 228.616†	573.9	4.2971 ug/L	0.26349	4.2971 ppb	0.26349	6.13%
Cr 267.716†	2542.9	38.043 ug/L	0.3758	38.043 ppb	0.3758	0.99%
Cu 324.752†	3231.7	15.406 ug/L	0.6015	15.406 ppb	0.6015	3.90%
Fe 238.204 Radial†	3103.6	87188 ug/L	156.0	87188 ppb	156.0	0.18%
K 766.490 Radial†	16595.8	7555.0 ug/L	68.34	7555.0 ppb	68.34	0.90%

Mg 279.077 IEC†	77.4	7471.7 ug/L	33.26	7471.7 ppb	33.26	0.45%
Mn 257.610†	2372136.9	3215.3 ug/L	44.36	3215.3 ppb	44.36	1.38%
Mo 202.031†	41.3	10.541 ug/L	0.5605	10.541 ppb	0.5605	5.32%
Na 589.592 Radial†	11324.1	3751.0 ug/L	43.43	3751.0 ppb	43.43	1.16%
Ni 231.604†	528.5	17.247 ug/L	0.4482	17.247 ppb	0.4482	2.60%
P 214.914†	1227.5	902.43 ug/L	10.561	902.43 ppb	10.561	1.17%
Pb 220.353†	370.3	49.855 ug/L	2.4216	49.855 ppb	2.4216	4.86%
S 181.975 Axial†	14.5	24.261 ug/L	8.9364	24.261 ppb	8.9364	36.83%
Sb 206.836†	27.0	-5.1192 ug/L	2.79907	-5.1192 ppb	2.79907	54.68%
Se 196.026†	-309.8	-18.654 ug/L	1.4910	-18.654 ppb	1.4910	7.99%
Si 251.611†	564403.8	21688 ug/L	261.1	21688 ppb	261.1	1.20%
Sn 189.927†	-7.5	-5.5990 ug/L	1.19492	-5.5990 ppb	1.19492	21.34%
Sr 421.552†	2829.4	26.190 ug/L	0.3203	26.190 ppb	0.3203	1.22%
Ti 334.940†	2700440.7	4728.4 ug/L	62.18	4728.4 ppb	62.18	1.32%
Tl 190.801†	-145.6	-4.0275 ug/L	3.37689	-4.0275 ppb	3.37689	83.85%
U 409.014†	-8263.3	-256.86 ug/L	3.701	-256.86 ppb	3.701	1.44%
V 292.402†	6644.6	35.478 ug/L	1.1322	35.478 ppb	1.1322	3.19%
Zn 213.857†	48252.0	591.37 ug/L	12.605	591.37 ppb	12.605	2.13%
SiO2†	560587.7	45858 ug/L	1246.7	45858 ppb	1246.7	2.72%

Sequence No.: 15  
 Sample ID: 246679007|951773|1  
 Analyst: HSC  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 50  
 Date Collected: 3/9/2010 11:30:58  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 246679007|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3327.3	3327.3	98.9 %		11:33:11
1	Y RADIAL	3754.3	3754.3	134.6 %		11:33:11
1	Al 396.153Radial†	8476.8	8638.4	18339 ug/L	18339 ppb	11:32:51
1	Ca 317.933Radial†	1743.2	1751.2	6886.1 ug/L	6886.1 ppb	11:33:11
1	Fe 238.204 Radial†	2397.5	2416.3	67880 ug/L	67880 ppb	11:33:11
1	K 766.490 Radial†	11739.6	9711.3	4419.6 ug/L	4419.6 ppb	11:32:51
1	Mg 279.077 IEC†	36.7	35.6	3406.5 ug/L	3406.5 ppb	11:33:11
1	Na 589.592 Radial†	5799.8	6633.7	2197.4 ug/L	2197.4 ppb	11:32:51
1	Sr 421.552†	2777.6	2783.3	25.759 ug/L	25.759 ppb	11:32:51
1	Sc 361.383	845925.8	845925.8	103.86 %		11:34:09
1	Y 371.029	993071.6	993071.6	141.75 %		11:34:09
1	Ag 328.068†	-3649.3	-3723.5	1.8938 ug/L	1.8938 ppb	11:34:14
1	As 188.979†	-38.3	-19.5	26.246 ug/L	26.246 ppb	11:34:34
1	B 249.677†	108.0	296.6	-2.6013 ug/L	-2.6013 ppb	11:34:14
1	Ba 233.527†	17588.5	16932.4	165.03 ug/L	165.03 ppb	11:34:14
1	Be 313.107†	21494.3	24169.1	16.372 ug/L	16.372 ppb	11:34:14
1	Cd 226.502†	375.3	523.1	0.8204 ug/L	0.8204 ppb	11:34:34
1	Co 228.616†	413.2	440.5	5.5946 ug/L	5.5946 ppb	11:34:34
1	Cr 267.716†	19252.1	18460.7	251.89 ug/L	251.89 ppb	11:34:14
1	Cu 324.752†	12317.9	5880.3	23.110 ug/L	23.110 ppb	11:34:14
1	Mn 257.610†	1893928.4	1823127.5	2471.4 ug/L	2471.4 ppb	11:34:09
1	Mo 202.031†	100.8	89.9	13.384 ug/L	13.384 ppb	11:34:34
1	Ni 231.604†	714.0	617.8	20.165 ug/L	20.165 ppb	11:34:34
1	P 214.914†	697.5	493.9	336.95 ug/L	336.95 ppb	11:34:34
1	Pb 220.353†	205.6	240.9	33.171 ug/L	33.171 ppb	11:34:34
1	S 181.975 Axial†	36.6	8.4	11.930 ug/L	11.930 ppb	11:34:34
1	Sb 206.836†	45.3	14.9	-2.9310 ug/L	-2.9310 ppb	11:34:34
1	Se 196.026†	-264.2	-235.7	-7.4038 ug/L	-7.4038 ppb	11:34:34
1	Si 251.611†	607791.8	584658.6	22466 ug/L	22466 ppb	11:34:09
1	Sn 189.927†	-33.0	-39.0	-11.825 ug/L	-11.825 ppb	11:34:34
1	Ti 334.940†	1478246.1	1424306.6	2494.4 ug/L	2494.4 ppb	11:34:09
1	Tl 190.801†	-114.6	-86.9	-2.5265 ug/L	-2.5265 ppb	11:34:34
1	U 409.014†	-10369.2	-7933.8	-245.30 ug/L	-245.30 ppb	11:34:09
1	V 292.402†	4460.1	5530.8	31.616 ug/L	31.616 ppb	11:34:14
1	Zn 213.857†	35050.0	33238.5	406.12 ug/L	406.12 ppb	11:34:14
1	SiO2†	619031.5	595494.3	48713 ug/L	48713 ppb	11:35:42
2	Sc Radial	3377.7	3377.7	100 %		11:33:36
2	Y RADIAL	3786.7	3786.7	135.8 %		11:33:36
2	Al 396.153Radial†	8506.5	8540.1	18131 ug/L	18131 ppb	11:33:16
2	Ca 317.933Radial†	1738.7	1720.5	6765.2 ug/L	6765.2 ppb	11:33:36
2	Fe 238.204 Radial†	2389.2	2371.9	66631 ug/L	66631 ppb	11:33:36
2	K 766.490 Radial†	11833.0	9627.2	4381.4 ug/L	4381.4 ppb	11:33:16
2	Mg 279.077 IEC†	37.6	35.9	3438.2 ug/L	3438.2 ppb	11:33:36
2	Na 589.592 Radial†	5813.1	6559.4	2172.8 ug/L	2172.8 ppb	11:33:16
2	Sr 421.552†	2754.9	2718.8	25.163 ug/L	25.163 ppb	11:33:16
2	Sc 361.383	852335.8	852335.8	104.65 %		11:34:40
2	Y 371.029	998339.7	998339.7	142.50 %		11:34:40
2	Ag 328.068†	-3705.9	-3751.2	1.3610 ug/L	1.3610 ppb	11:34:45
2	As 188.979†	-48.6	-29.0	20.245 ug/L	20.245 ppb	11:35:05
2	B 249.677†	119.3	306.6	-2.1109 ug/L	-2.1109 ppb	11:34:45
2	Ba 233.527†	17673.2	16886.1	164.54 ug/L	164.54 ppb	11:34:45
2	Be 313.107†	21455.3	23976.2	16.229 ug/L	16.229 ppb	11:34:45
2	Cd 226.502†	369.7	515.1	0.8287 ug/L	0.8287 ppb	11:35:05
2	Co 228.616†	392.6	417.8	5.0568 ug/L	5.0568 ppb	11:35:05
2	Cr 267.716†	19484.9	18543.8	252.96 ug/L	252.96 ppb	11:34:45
2	Cu 324.752†	12327.5	5800.3	22.778 ug/L	22.778 ppb	11:34:45
2	Mn 257.610†	1884895.1	1800781.6	2441.0 ug/L	2441.0 ppb	11:34:40
2	Mo 202.031†	100.5	88.8	13.192 ug/L	13.192 ppb	11:35:05
2	Ni 231.604†	711.4	610.2	19.916 ug/L	19.916 ppb	11:35:05

2	P 214.914†	693.8	485.4	331.21 ug/L	331.21 ppb	11:35:05
2	Pb 220.353†	211.3	245.0	33.947 ug/L	33.947 ppb	11:35:05
2	S 181.975 Axial†	42.4	13.7	21.819 ug/L	21.819 ppb	11:35:05
2	Sb 206.836†	48.9	18.0	-1.4459 ug/L	-1.4459 ppb	11:35:05
2	Se 196.026†	-260.9	-230.7	-6.6448 ug/L	-6.6448 ppb	11:35:05
2	Si 251.611†	606476.3	579000.5	22249 ug/L	22249 ppb	11:34:40
2	Sn 189.927†	-23.4	-29.6	-9.5727 ug/L	-9.5727 ppb	11:35:05
2	Ti 334.940†	1474285.5	1409818.0	2469.0 ug/L	2469.0 ppb	11:34:40
2	Tl 190.801†	-118.9	-90.2	-4.1972 ug/L	-4.1972 ppb	11:35:05
2	U 409.014†	-10309.9	-7802.1	-241.22 ug/L	-241.22 ppb	11:34:40
2	V 292.402†	4450.5	5489.3	31.497 ug/L	31.497 ppb	11:34:45
2	Zn 213.857†	35312.6	33235.7	406.28 ug/L	406.28 ppb	11:34:45
2	SiO2†	611552.6	583865.2	47762 ug/L	47762 ppb	11:35:47
3	Sc Radial	3340.8	3340.8	99.3 %		11:34:01
3	Y RADIAL	3755.9	3755.9	134.7 %		11:34:01
3	Al 396.153Radial†	8428.6	8555.3	18163 ug/L	18163 ppb	11:33:41
3	Ca 317.933Radial†	1736.7	1737.6	6832.4 ug/L	6832.4 ppb	11:34:01
3	Fe 238.204 Radial†	2378.0	2386.9	67053 ug/L	67053 ppb	11:34:01
3	K 766.490 Radial†	11726.5	9650.2	4391.8 ug/L	4391.8 ppb	11:33:41
3	Mg 279.077 IEC†	38.7	37.4	3586.6 ug/L	3586.6 ppb	11:34:01
3	Na 589.592 Radial†	5776.0	6586.1	2181.6 ug/L	2181.6 ppb	11:33:41
3	Sr 421.552†	2741.8	2735.9	25.321 ug/L	25.321 ppb	11:33:41
3	Sc 361.383	845723.1	845723.1	103.84 %		11:35:11
3	Y 371.029	997906.5	997906.5	142.44 %		11:35:11
3	Ag 328.068†	-3675.2	-3749.3	1.5101 ug/L	1.5101 ppb	11:35:16
3	As 188.979†	-45.8	-26.7	22.216 ug/L	22.216 ppb	11:35:36
3	B 249.677†	128.2	316.1	-1.9095 ug/L	-1.9095 ppb	11:35:16
3	Ba 233.527†	17605.7	16953.1	165.20 ug/L	165.20 ppb	11:35:16
3	Be 313.107†	21559.8	24237.1	16.483 ug/L	16.483 ppb	11:35:16
3	Cd 226.502†	367.0	515.3	0.7861 ug/L	0.7861 ppb	11:35:36
3	Co 228.616†	409.6	437.1	5.4363 ug/L	5.4363 ppb	11:35:36
3	Cr 267.716†	19464.4	18669.6	254.68 ug/L	254.68 ppb	11:35:16
3	Cu 324.752†	12372.7	5936.0	23.253 ug/L	23.253 ppb	11:35:16
3	Mn 257.610†	1915103.7	1843957.6	2499.4 ug/L	2499.4 ppb	11:35:11
3	Mo 202.031†	83.3	73.0	11.811 ug/L	11.811 ppb	11:35:36
3	Ni 231.604†	724.9	628.5	20.513 ug/L	20.513 ppb	11:35:36
3	P 214.914†	702.2	498.7	341.29 ug/L	341.29 ppb	11:35:36
3	Pb 220.353†	201.2	236.8	32.580 ug/L	32.580 ppb	11:35:36
3	S 181.975 Axial†	35.0	6.9	9.1912 ug/L	9.1912 ppb	11:35:36
3	Sb 206.836†	53.1	22.4	0.2038 ug/L	0.2038 ppb	11:35:36
3	Se 196.026†	-276.2	-247.4	-19.645 ug/L	-19.645 ppb	11:35:36
3	Si 251.611†	616066.7	592768.0	22778 ug/L	22778 ppb	11:35:11
3	Sn 189.927†	-24.5	-30.8	-9.8653 ug/L	-9.8653 ppb	11:35:36
3	Ti 334.940†	1498972.5	1444608.5	2529.9 ug/L	2529.9 ppb	11:35:11
3	Tl 190.801†	-118.4	-90.6	-3.5999 ug/L	-3.5999 ppb	11:35:36
3	U 409.014†	-10597.7	-8156.3	-251.86 ug/L	-251.86 ppb	11:35:11
3	V 292.402†	4453.3	5525.2	31.622 ug/L	31.622 ppb	11:35:16
3	Zn 213.857†	35257.0	33445.9	408.84 ug/L	408.84 ppb	11:35:16
3	SiO2†	610053.6	586990.9	48017 ug/L	48017 ppb	11:35:52

Mean Data: 246679007|951773|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847994.9	104.11 %		0.462			0.44%
Sc Radial	3348.6	99.6 %		0.78			0.78%
Y 371.029	996439.3	142.23 %		0.417			0.29%
Y RADIAL	3765.6	135.0 %		0.66			0.49%
Ag 328.068†	-3741.3	1.5883 ug/L		0.27488	1.5883 ppb	0.27488	17.31%
Al 396.153Radial†	8577.9	18211 ug/L		112.4	18211 ppb	112.4	0.62%
As 188.979†	-25.0	22.902 ug/L		3.0588	22.902 ppb	3.0588	13.36%
B 249.677†	306.4	-2.2072 ug/L		0.35583	-2.2072 ppb	0.35583	16.12%
Ba 233.527†	16923.9	164.92 ug/L		0.341	164.92 ppb	0.341	0.21%
Be 313.107†	24127.5	16.361 ug/L		0.1273	16.361 ppb	0.1273	0.78%
Ca 317.933Radial†	1736.4	6827.9 ug/L		60.62	6827.9 ppb	60.62	0.89%
Cd 226.502†	517.8	0.8117 ug/L		0.02255	0.8117 ppb	0.02255	2.78%
Co 228.616†	431.8	5.3626 ug/L		0.27639	5.3626 ppb	0.27639	5.15%
Cr 267.716†	18558.0	253.18 ug/L		1.405	253.18 ppb	1.405	0.56%
Cu 324.752†	5872.2	23.047 ug/L		0.2440	23.047 ppb	0.2440	1.06%
Fe 238.204 Radial†	2391.7	67188 ug/L		635.1	67188 ppb	635.1	0.95%
K 766.490 Radial†	9662.9	4397.6 ug/L		19.77	4397.6 ppb	19.77	0.45%

Mg 279.077 IEC†	36.3	3477.1 ug/L	96.15	3477.1 ppb	96.15	2.77%
Mn 257.610†	1822622.3	2470.6 ug/L	29.21	2470.6 ppb	29.21	1.18%
Mo 202.031†	83.9	12.796 ug/L	0.8584	12.796 ppb	0.8584	6.71%
Na 589.592 Radial†	6593.1	2183.9 ug/L	12.46	2183.9 ppb	12.46	0.57%
Ni 231.604†	618.8	20.198 ug/L	0.2999	20.198 ppb	0.2999	1.48%
P 214.914†	492.7	336.48 ug/L	5.057	336.48 ppb	5.057	1.50%
Pb 220.353†	240.9	33.232 ug/L	0.6855	33.232 ppb	0.6855	2.06%
S 181.975 Axial†	9.7	14.313 ug/L	6.6426	14.313 ppb	6.6426	46.41%
Sb 206.836†	18.4	-1.3911 ug/L	1.56810	-1.3911 ppb	1.56810	112.73%
Se 196.026†	-237.9	-11.231 ug/L	7.2963	-11.231 ppb	7.2963	64.96%
Si 251.611†	585475.7	22497 ug/L	265.9	22497 ppb	265.9	1.18%
Sn 189.927†	-33.1	-10.421 ug/L	1.2247	-10.421 ppb	1.2247	11.75%
Sr 421.552†	2746.0	25.414 ug/L	0.3091	25.414 ppb	0.3091	1.22%
Ti 334.940†	1426244.3	2497.8 ug/L	30.60	2497.8 ppb	30.60	1.22%
Tl 190.801†	-89.2	-3.4412 ug/L	0.84656	-3.4412 ppb	0.84656	24.60%
U 409.014†	-7964.1	-246.13 ug/L	5.365	-246.13 ppb	5.365	2.18%
V 292.402†	5515.1	31.578 ug/L	0.0706	31.578 ppb	0.0706	0.22%
Zn 213.857†	33306.7	407.08 ug/L	1.528	407.08 ppb	1.528	0.38%
SiO2†	588783.4	48164 ug/L	492.3	48164 ppb	492.3	1.02%

Sequence No.: 16

Sample ID: 246679008|951773|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 51

Date Collected: 3/9/2010 11:38:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246679008|951773|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3397.9	3397.9	101 %			11:40:16
1	Y RADIAL	3832.0	3832.0	137.4 %			11:40:16
1	Al 396.153Radial†	20915.8	20773.7	44103 ug/L		44103 ppb	11:39:56
1	Ca 317.933Radial†	2992.2	2950.9	11604 ug/L		11604 ppb	11:40:16
1	Fe 238.204 Radial†	2908.8	2872.2	80685 ug/L		80685 ppb	11:40:16
1	K 766.490 Radial†	15302.8	12992.0	5913.0 ug/L		5913.0 ppb	11:39:56
1	Mg 279.077 IEC†	93.2	90.7	8785.8 ug/L		8785.8 ppb	11:40:16
1	Na 589.592 Radial†	1261.3	2019.3	668.88 ug/L		668.88 ppb	11:39:56
1	Sr 421.552†	6691.4	6599.2	61.112 ug/L		61.112 ppb	11:39:56
1	Sc 361.383	842105.1	842105.1	103.39 %			11:41:14
1	Y 371.029	997671.9	997671.9	142.41 %			11:41:14
1	Ag 328.068†	-4627.6	-4685.7	0.9137 ug/L		0.9137 ppb	11:41:19
1	As 188.979†	-56.1	-36.9	17.317 ug/L		17.317 ppb	11:41:39
1	B 249.677†	401.8	581.2	3.4280 ug/L		3.4280 ppb	11:41:19
1	Ba 233.527†	22641.8	21896.8	213.22 ug/L		213.22 ppb	11:41:19
1	Be 313.107†	34708.6	37043.7	21.576 ug/L		21.576 ppb	11:41:19
1	Cd 226.502†	493.5	639.1	1.2364 ug/L		1.2364 ppb	11:41:39
1	Co 228.616†	490.8	517.3	8.0295 ug/L		8.0295 ppb	11:41:39
1	Cr 267.716†	3753.8	3554.9	51.456 ug/L		51.456 ppb	11:41:39
1	Cu 324.752†	13120.6	6710.5	26.541 ug/L		26.541 ppb	11:41:19
1	Mn 257.610†	2234258.2	2160566.3	2928.6 ug/L		2928.6 ppb	11:41:14
1	Mo 202.031†	22.4	14.5	7.6970 ug/L		7.6970 ppb	11:41:39
1	Ni 231.604†	778.0	682.8	22.287 ug/L		22.287 ppb	11:41:39
1	P 214.914†	916.2	708.5	502.38 ug/L		502.38 ppb	11:41:39
1	Pb 220.353†	244.8	279.8	43.336 ug/L		43.336 ppb	11:41:39
1	S 181.975 Axial†	44.2	16.0	21.029 ug/L		21.029 ppb	11:41:39
1	Sb 206.836†	33.4	3.6	-7.9855 ug/L		-7.9855 ppb	11:41:39
1	Se 196.026†	-315.7	-286.7	-8.1269 ug/L		-8.1269 ppb	11:41:39
1	Si 251.611†	950411.0	918693.3	35302 ug/L		35302 ppb	11:41:14
1	Sn 189.927†	-37.8	-43.8	-12.846 ug/L		-12.846 ppb	11:41:39
1	Ti 334.940†	1341253.4	1298265.4	2274.0 ug/L		2274.0 ppb	11:41:14
1	Tl 190.801†	-122.9	-95.4	-5.6567 ug/L		-5.6567 ppb	11:41:39
1	U 409.014†	-11342.4	-8920.4	-275.78 ug/L		-275.78 ppb	11:41:14
1	V 292.402†	7840.0	8819.3	56.475 ug/L		56.475 ppb	11:41:19
1	Zn 213.857†	43230.8	41304.1	505.24 ug/L		505.24 ppb	11:41:19
1	SiO2†	951854.9	920103.7	75267 ug/L		75267 ppb	11:42:47
2	Sc Radial	3365.1	3365.1	100 %			11:40:41
2	Y RADIAL	3815.9	3815.9	136.8 %			11:40:41
2	Al 396.153Radial†	20779.7	20839.1	44242 ug/L		44242 ppb	11:40:21
2	Ca 317.933Radial†	2997.8	2985.4	11739 ug/L		11739 ppb	11:40:41
2	Fe 238.204 Radial†	2909.2	2900.5	81482 ug/L		81482 ppb	11:40:41
2	K 766.490 Radial†	15345.6	13182.3	5999.6 ug/L		5999.6 ppb	11:40:21
2	Mg 279.077 IEC†	93.0	91.4	8845.0 ug/L		8845.0 ppb	11:40:41
2	Na 589.592 Radial†	1205.5	1975.7	654.44 ug/L		654.44 ppb	11:40:21
2	Sr 421.552†	6642.0	6614.3	61.250 ug/L		61.250 ppb	11:40:21
2	Sc 361.383	847732.1	847732.1	104.08 %			11:41:45
2	Y 371.029	1004066.6	1004066.6	143.32 %			11:41:45
2	Ag 328.068†	-4564.3	-4595.2	1.6290 ug/L		1.6290 ppb	11:41:50
2	As 188.979†	-36.8	-17.9	28.404 ug/L		28.404 ppb	11:42:10
2	B 249.677†	407.3	584.0	3.3772 ug/L		3.3772 ppb	11:41:50
2	Ba 233.527†	22967.2	22064.2	214.86 ug/L		214.86 ppb	11:41:50
2	Be 313.107†	35159.6	37254.3	21.663 ug/L		21.663 ppb	11:41:50
2	Cd 226.502†	502.5	644.6	1.2370 ug/L		1.2370 ppb	11:42:10
2	Co 228.616†	494.8	518.0	8.0418 ug/L		8.0418 ppb	11:42:10
2	Cr 267.716†	3767.3	3543.8	51.339 ug/L		51.339 ppb	11:42:10
2	Cu 324.752†	13280.8	6780.2	26.811 ug/L		26.811 ppb	11:41:50
2	Mn 257.610†	2243613.1	2155210.5	2921.4 ug/L		2921.4 ppb	11:41:45
2	Mo 202.031†	18.8	10.9	7.4391 ug/L		7.4391 ppb	11:42:10
2	Ni 231.604†	776.8	676.7	22.087 ug/L		22.087 ppb	11:42:10



2	P 214.914†	903.7	690.6	487.53 ug/L	487.53 ppb	11:42:10
2	Pb 220.353†	258.1	290.9	45.041 ug/L	45.041 ppb	11:42:10
2	S 181.975 Axial†	42.5	14.0	17.447 ug/L	17.447 ppb	11:42:10
2	Sb 206.836†	37.3	7.1	-6.5127 ug/L	-6.5127 ppb	11:42:10
2	Se 196.026†	-318.0	-286.9	-6.0076 ug/L	-6.0076 ppb	11:42:10
2	Si 251.611†	955061.7	917060.0	35239 ug/L	35239 ppb	11:41:45
2	Sn 189.927†	-55.8	-60.8	-16.859 ug/L	-16.859 ppb	11:42:10
2	Ti 334.940†	1348554.6	1296669.5	2271.2 ug/L	2271.2 ppb	11:41:45
2	Tl 190.801†	-125.7	-97.3	-6.4851 ug/L	-6.4851 ppb	11:42:10
2	U 409.014†	-11310.0	-8816.5	-272.77 ug/L	-272.77 ppb	11:41:45
2	V 292.402†	7959.2	8883.5	56.881 ug/L	56.881 ppb	11:41:50
2	Zn 213.857†	43810.4	41583.4	508.62 ug/L	508.62 ppb	11:41:50
2	SiO2†	953938.6	915994.8	74931 ug/L	74931 ppb	11:42:53
3	Sc Radial	3365.8	3365.8	100 %		11:41:06
3	Y RADIAL	3830.8	3830.8	137.4 %		11:41:06
3	Al 396.153Radial†	21029.9	21085.0	44764 ug/L	44764 ppb	11:40:46
3	Ca 317.933Radial†	3020.7	3007.7	11827 ug/L	11827 ppb	11:41:06
3	Fe 238.204 Radial†	2928.3	2919.0	82001 ug/L	82001 ppb	11:41:06
3	K 766.490 Radial†	15477.7	13311.1	6058.3 ug/L	6058.3 ppb	11:40:46
3	Mg 279.077 IEC†	91.9	90.3	8743.6 ug/L	8743.6 ppb	11:41:06
3	Na 589.592 Radial†	1267.8	2037.8	675.00 ug/L	675.00 ppb	11:40:46
3	Sr 421.552†	6738.8	6709.7	62.135 ug/L	62.135 ppb	11:40:46
3	Sc 361.383	843302.6	843302.6	103.54 %		11:42:16
3	Y 371.029	1001181.8	1001181.8	142.91 %		11:42:16
3	Ag 328.068†	-4602.3	-4654.9	1.4823 ug/L	1.4823 ppb	11:42:21
3	As 188.979†	-45.0	-26.1	23.893 ug/L	23.893 ppb	11:42:41
3	B 249.677†	439.7	617.3	4.2418 ug/L	4.2418 ppb	11:42:21
3	Ba 233.527†	22685.1	21907.6	213.37 ug/L	213.37 ppb	11:42:21
3	Be 313.107†	34812.6	37096.6	21.610 ug/L	21.610 ppb	11:42:21
3	Cd 226.502†	485.9	631.2	0.9813 ug/L	0.9813 ppb	11:42:41
3	Co 228.616†	499.8	525.4	8.2164 ug/L	8.2164 ppb	11:42:41
3	Cr 267.716†	3780.4	3575.4	51.788 ug/L	51.788 ppb	11:42:41
3	Cu 324.752†	13252.2	6819.6	26.971 ug/L	26.971 ppb	11:42:21
3	Mn 257.610†	2242576.6	2165532.0	2935.5 ug/L	2935.5 ppb	11:42:16
3	Mo 202.031†	19.8	11.9	7.5704 ug/L	7.5704 ppb	11:42:41
3	Ni 231.604†	801.2	704.1	22.982 ug/L	22.982 ppb	11:42:41
3	P 214.914†	908.9	700.2	494.79 ug/L	494.79 ppb	11:42:41
3	Pb 220.353†	235.0	269.9	41.712 ug/L	41.712 ppb	11:42:41
3	S 181.975 Axial†	40.5	12.3	14.198 ug/L	14.198 ppb	11:42:41
3	Sb 206.836†	38.1	8.0	-6.1689 ug/L	-6.1689 ppb	11:42:41
3	Se 196.026†	-330.0	-300.1	-15.619 ug/L	-15.619 ppb	11:42:41
3	Si 251.611†	952726.6	919624.5	35337 ug/L	35337 ppb	11:42:16
3	Sn 189.927†	-54.4	-59.7	-16.626 ug/L	-16.626 ppb	11:42:41
3	Ti 334.940†	1345974.5	1300983.2	2278.8 ug/L	2278.8 ppb	11:42:16
3	Tl 190.801†	-124.5	-96.8	-6.1628 ug/L	-6.1628 ppb	11:42:41
3	U 409.014†	-11426.6	-8986.1	-277.89 ug/L	-277.89 ppb	11:42:16
3	V 292.402†	7939.8	8904.9	56.959 ug/L	56.959 ppb	11:42:21
3	Zn 213.857†	43412.0	41419.7	506.49 ug/L	506.49 ppb	11:42:21
3	SiO2†	957510.8	924259.0	75607 ug/L	75607 ppb	11:42:59

Mean Data: 246679008|951773|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	844379.9	103.67	%	0.364				0.35%
Sc Radial	3376.3	100	%	0.6				0.55%
Y 371.029	1000973.5	142.88	%	0.457				0.32%
Y RADIAL	3826.3	137.2	%	0.32				0.23%
Ag 328.068†	-4645.2	1.3417	ug/L	0.37785	1.3417	ppb	0.37785	28.16%
Al 396.153Radial†	20899.3	44370	ug/L	348.5	44370	ppb	348.5	0.79%
As 188.979†	-27.0	23.204	ug/L	5.5756	23.204	ppb	5.5756	24.03%
B 249.677†	594.2	3.6823	ug/L	0.48519	3.6823	ppb	0.48519	13.18%
Ba 233.527†	21956.2	213.82	ug/L	0.905	213.82	ppb	0.905	0.42%
Be 313.107†	37131.5	21.616	ug/L	0.0438	21.616	ppb	0.0438	0.20%
Ca 317.933Radial†	2981.3	11723	ug/L	112.4	11723	ppb	112.4	0.96%
Cd 226.502†	638.3	1.1516	ug/L	0.14745	1.1516	ppb	0.14745	12.80%
Co 228.616†	520.2	8.0959	ug/L	0.10454	8.0959	ppb	0.10454	1.29%
Cr 267.716†	3558.1	51.528	ug/L	0.2333	51.528	ppb	0.2333	0.45%
Cu 324.752†	6770.1	26.774	ug/L	0.2175	26.774	ppb	0.2175	0.81%
Fe 238.204 Radial†	2897.2	81389	ug/L	663.0	81389	ppb	663.0	0.81%
K 766.490 Radial†	13161.8	5990.3	ug/L	73.09	5990.3	ppb	73.09	1.22%

Mg 279.077 IEC†	90.8	8791.5 ug/L	50.96	8791.5 ppb	50.96	0.58%
Mn 257.610†	2160436.2	2928.5 ug/L	7.01	2928.5 ppb	7.01	0.24%
Mo 202.031†	12.4	7.5689 ug/L	0.12896	7.5689 ppb	0.12896	1.70%
Na 589.592 Radial†	2010.9	666.11 ug/L	10.557	666.11 ppb	10.557	1.58%
Ni 231.604†	687.9	22.452 ug/L	0.4702	22.452 ppb	0.4702	2.09%
P 214.914†	699.8	494.90 ug/L	7.426	494.90 ppb	7.426	1.50%
Pb 220.353†	280.2	43.363 ug/L	1.6646	43.363 ppb	1.6646	3.84%
S 181.975 Axial†	14.1	17.558 ug/L	3.4170	17.558 ppb	3.4170	19.46%
Sb 206.836†	6.2	-6.8891 ug/L	0.96499	-6.8891 ppb	0.96499	14.01%
Se 196.026†	-291.2	-9.9178 ug/L	5.04973	-9.9178 ppb	5.04973	50.92%
Si 251.611†	918459.3	35293 ug/L	49.9	35293 ppb	49.9	0.14%
Sn 189.927†	-54.8	-15.444 ug/L	2.2524	-15.444 ppb	2.2524	14.58%
Sr 421.552†	6641.1	61.499 ug/L	0.5549	61.499 ppb	0.5549	0.90%
Ti 334.940†	1298639.4	2274.6 ug/L	3.83	2274.6 ppb	3.83	0.17%
Tl 190.801†	-96.5	-6.1015 ug/L	0.41757	-6.1015 ppb	0.41757	6.84%
U 409.014†	-8907.7	-275.48 ug/L	2.577	-275.48 ppb	2.577	0.94%
V 292.402†	8869.2	56.771 ug/L	0.2599	56.771 ppb	0.2599	0.46%
Zn 213.857†	41435.7	506.79 ug/L	1.710	506.79 ppb	1.710	0.34%
SiO2†	920119.2	75268 ug/L	338.0	75268 ppb	338.0	0.45%

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Analysis Begun

Start Time: 3/9/2010 11:45:13

Plasma On Time: 3/8/2010 08:27:38

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\030810D.SIF

Batch ID:

Results Data Set: 030810B

Results Library: C:\pe\Optima3\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/9/2010 11:45:14

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3232.9	3232.9	96.1 %		11:47:26
1	Y RADIAL	2620.3	2620.3	93.96 %		11:47:26
1	Al 396.153Radial†	2179.1	2336.5	4936.3 ug/L	4936.3 ppb	11:47:06
1	Ca 317.933Radial†	1270.7	1311.1	5155.6 ug/L	5155.6 ppb	11:47:26
1	Fe 238.204 Radial†	184.9	185.1	5215.4 ug/L	5215.4 ppb	11:47:26
1	K 766.490 Radial†	13128.6	11503.1	5233.8 ug/L	5233.8 ppb	11:47:06
1	Mg 279.077 IEC†	53.2	53.8	5262.8 ug/L	5262.8 ppb	11:47:26
1	Na 589.592 Radial†	26781.6	28634.6	9485.0 ug/L	9485.0 ppb	11:47:06
1	Sr 421.552†	48725.2	50669.7	469.85 ug/L	469.85 ppb	11:47:06
1	Sc 361.383	843907.6	843907.6	103.61 %		11:48:23
1	Y 371.029	713754.8	713754.8	101.88 %		11:48:23
1	Ag 328.068†	100281.0	96574.2	505.73 ug/L	505.73 ppb	11:48:29
1	As 188.979†	883.1	869.8	506.28 ug/L	506.28 ppb	11:48:49
1	B 249.677†	17473.7	17057.0	483.98 ug/L	483.98 ppb	11:48:29
1	Ba 233.527†	54140.8	52250.7	503.83 ug/L	503.83 ppb	11:48:29
1	Be 313.107†	1167598.1	1130357.2	502.03 ug/L	502.03 ppb	11:48:23
1	Cd 226.502†	34910.1	33854.6	508.87 ug/L	508.87 ppb	11:48:29
1	Co 228.616†	19825.9	19177.2	514.39 ug/L	514.39 ppb	11:48:29
1	Cr 267.716†	38914.4	37481.7	506.18 ug/L	506.18 ppb	11:48:29
1	Cu 324.752†	162140.9	150507.3	496.17 ug/L	496.17 ppb	11:48:29
1	Mn 257.610†	385799.1	371948.4	503.16 ug/L	503.16 ppb	11:48:23
1	Mo 202.031†	5809.7	5599.9	500.95 ug/L	500.95 ppb	11:48:49
1	Ni 231.604†	16363.8	15723.5	513.09 ug/L	513.09 ppb	11:48:29
1	P 214.914†	3489.0	3189.7	2428.0 ug/L	2428.0 ppb	11:48:49
1	Pb 220.353†	3219.8	3150.5	506.98 ug/L	506.98 ppb	11:48:49
1	S 181.975 Axial†	586.1	538.8	988.56 ug/L	988.56 ppb	11:48:49
1	Sb 206.836†	1226.0	1154.5	513.91 ug/L	513.91 ppb	11:48:49
1	Se 196.026†	607.7	605.2	530.62 ug/L	530.62 ppb	11:48:49
1	Si 251.611†	68774.3	65836.4	2523.7 ug/L	2523.7 ppb	11:48:29
1	Sn 189.927†	2202.3	2118.3	497.94 ug/L	497.94 ppb	11:48:49
1	Ti 334.940†	290205.3	281097.2	492.01 ug/L	492.01 ppb	11:48:29
1	Tl 190.801†	1265.6	1244.9	502.85 ug/L	502.85 ppb	11:48:49
1	U 409.014†	15743.5	17244.4	513.41 ug/L	513.41 ppb	11:48:29
1	V 292.402†	63336.9	62364.8	508.57 ug/L	508.57 ppb	11:48:29
1	Zn 213.857†	42434.7	40446.4	502.02 ug/L	502.02 ppb	11:48:29
1	SiO2†	68930.1	66000.6	5385.4 ug/L	5385.4 ppb	11:49:56
2	Sc Radial	3235.2	3235.2	96.2 %		11:47:51
2	Y RADIAL	2630.3	2630.3	94.32 %		11:47:51
2	Al 396.153Radial†	2169.0	2324.4	4910.2 ug/L	4910.2 ppb	11:47:31
2	Ca 317.933Radial†	1294.4	1334.8	5248.5 ug/L	5248.5 ppb	11:47:51
2	Fe 238.204 Radial†	190.8	191.1	5385.0 ug/L	5385.0 ppb	11:47:51
2	K 766.490 Radial†	13190.4	11557.6	5258.6 ug/L	5258.6 ppb	11:47:31
2	Mg 279.077 IEC†	54.4	55.0	5378.9 ug/L	5378.9 ppb	11:47:51
2	Na 589.592 Radial†	26428.5	28247.5	9356.7 ug/L	9356.7 ppb	11:47:31
2	Sr 421.552†	48315.8	50207.5	465.56 ug/L	465.56 ppb	11:47:31
2	Sc 361.383	832677.8	832677.8	102.23 %		11:48:54
2	Y 371.029	705541.5	705541.5	100.71 %		11:48:54

2	Ag 328.068†	99765.6	97375.4	509.97 ug/L	509.97 ppb	11:49:00
2	As 188.979†	886.6	884.7	514.94 ug/L	514.94 ppb	11:49:20
2	B 249.677†	17421.7	17233.6	488.97 ug/L	488.97 ppb	11:49:00
2	Ba 233.527†	53925.4	52744.7	508.60 ug/L	508.60 ppb	11:49:00
2	Be 313.107†	1164236.2	1142266.3	507.31 ug/L	507.31 ppb	11:48:54
2	Cd 226.502†	34769.5	34171.4	513.62 ug/L	513.62 ppb	11:49:00
2	Co 228.616†	19745.1	19356.2	519.20 ug/L	519.20 ppb	11:49:00
2	Cr 267.716†	38712.6	37790.9	510.36 ug/L	510.36 ppb	11:49:00
2	Cu 324.752†	161837.2	152320.7	502.16 ug/L	502.16 ppb	11:49:00
2	Mn 257.610†	383690.6	374907.6	507.17 ug/L	507.17 ppb	11:48:54
2	Mo 202.031†	5820.2	5685.8	508.64 ug/L	508.64 ppb	11:49:20
2	Ni 231.604†	16337.4	15910.7	519.20 ug/L	519.20 ppb	11:49:00
2	P 214.914†	3465.1	3211.8	2444.2 ug/L	2444.2 ppb	11:49:20
2	Pb 220.353†	3212.3	3185.1	512.51 ug/L	512.51 ppb	11:49:20
2	S 181.975 Axial†	584.0	544.4	998.85 ug/L	998.85 ppb	11:49:20
2	Sb 206.836†	1229.8	1174.2	522.57 ug/L	522.57 ppb	11:49:20
2	Se 196.026†	602.5	608.0	533.46 ug/L	533.46 ppb	11:49:20
2	Si 251.611†	68523.6	66486.3	2548.5 ug/L	2548.5 ppb	11:49:00
2	Sn 189.927†	2192.2	2137.1	502.35 ug/L	502.35 ppb	11:49:20
2	Ti 334.940†	289089.5	283783.1	496.71 ug/L	496.71 ppb	11:49:00
2	Tl 190.801†	1266.2	1262.0	509.74 ug/L	509.74 ppb	11:49:20
2	U 409.014†	15564.0	17273.7	514.26 ug/L	514.26 ppb	11:49:00
2	V 292.402†	63130.6	62987.3	513.66 ug/L	513.66 ppb	11:49:00
2	Zn 213.857†	42265.8	40833.5	506.80 ug/L	506.80 ppb	11:49:00
2	SiO2†	69250.0	67210.7	5484.2 ug/L	5484.2 ppb	11:50:01
3	Sc Radial	3278.4	3278.4	97.5 %		11:48:16
3	Y RADIAL	2661.8	2661.8	95.45 %		11:48:16
3	Al 396.153Radial†	2158.4	2283.8	4823.9 ug/L	4823.9 ppb	11:47:56
3	Ca 317.933Radial†	1289.9	1312.4	5160.7 ug/L	5160.7 ppb	11:48:16
3	Fe 238.204 Radial†	188.7	186.3	5248.8 ug/L	5248.8 ppb	11:48:16
3	K 766.490 Radial†	13160.8	11346.5	5162.5 ug/L	5162.5 ppb	11:47:56
3	Mg 279.077 IEC†	55.4	55.3	5400.9 ug/L	5400.9 ppb	11:48:16
3	Na 589.592 Radial†	26363.6	27818.9	9214.8 ug/L	9214.8 ppb	11:47:56
3	Sr 421.552†	48262.4	49491.0	458.92 ug/L	458.92 ppb	11:47:56
3	Sc 361.383	831873.4	831873.4	102.14 %		11:49:25
3	Y 371.029	705226.9	705226.9	100.66 %		11:49:25
3	Ag 328.068†	100736.7	98420.5	515.39 ug/L	515.39 ppb	11:49:31
3	As 188.979†	898.4	897.1	522.10 ug/L	522.10 ppb	11:49:51
3	B 249.677†	17555.3	17380.9	493.17 ug/L	493.17 ppb	11:49:31
3	Ba 233.527†	54617.4	53473.3	515.62 ug/L	515.62 ppb	11:49:31
3	Be 313.107†	1175070.7	1153975.4	512.51 ug/L	512.51 ppb	11:49:25
3	Cd 226.502†	35330.5	34753.6	522.39 ug/L	522.39 ppb	11:49:31
3	Co 228.616†	20011.3	19635.6	526.69 ug/L	526.69 ppb	11:49:31
3	Cr 267.716†	39226.0	38330.1	517.63 ug/L	517.63 ppb	11:49:31
3	Cu 324.752†	162583.0	153203.9	505.06 ug/L	505.06 ppb	11:49:31
3	Mn 257.610†	386333.3	377857.9	511.14 ug/L	511.14 ppb	11:49:25
3	Mo 202.031†	5848.9	5719.4	511.63 ug/L	511.63 ppb	11:49:51
3	Ni 231.604†	16530.2	16114.9	525.86 ug/L	525.86 ppb	11:49:31
3	P 214.914†	3511.8	3260.7	2482.6 ug/L	2482.6 ppb	11:49:51
3	Pb 220.353†	3252.9	3227.9	519.39 ug/L	519.39 ppb	11:49:51
3	S 181.975 Axial†	593.9	554.7	1017.8 ug/L	1017.8 ppb	11:49:51
3	Sb 206.836†	1248.9	1194.1	531.35 ug/L	531.35 ppb	11:49:51
3	Se 196.026†	612.4	618.2	541.80 ug/L	541.80 ppb	11:49:51
3	Si 251.611†	69216.1	67229.1	2577.0 ug/L	2577.0 ppb	11:49:31
3	Sn 189.927†	2228.4	2174.6	511.16 ug/L	511.16 ppb	11:49:51
3	Ti 334.940†	291918.8	286826.6	502.02 ug/L	502.02 ppb	11:49:31
3	Tl 190.801†	1275.0	1271.8	513.69 ug/L	513.69 ppb	11:49:51
3	U 409.014†	15653.8	17376.4	517.33 ug/L	517.33 ppb	11:49:31
3	V 292.402†	63889.9	63790.6	520.18 ug/L	520.18 ppb	11:49:31
3	Zn 213.857†	42734.2	41332.1	513.02 ug/L	513.02 ppb	11:49:31
3	SiO2†	69337.6	67361.9	5496.5 ug/L	5496.5 ppb	11:50:06

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	836152.9	102.66 %	0.826			0.80%
Sc Radial	3248.8	96.6 %	0.76			0.79%
Y 371.029	708174.4	101.09 %	0.690			0.68%
Y RADIAL	2637.5	94.58 %	0.777			0.82%
Ag 328.068†	97456.7	510.36 ug/L	4.843	510.36 ppb	4.843	0.95%

QC value within limits for Ag 328.068 Recovery = 102.07%							
Al 396.153Radial†	2314.9	4890.1 ug/L	58.83	4890.1 ppb	58.83	1.20%	
QC value within limits for Al 396.153Radial Recovery = 97.80%							
As 188.979†	883.9	514.44 ug/L	7.924	514.44 ppb	7.924	1.54%	
QC value within limits for As 188.979 Recovery = 102.89%							
B 249.677†	17223.8	488.70 ug/L	4.602	488.70 ppb	4.602	0.94%	
QC value within limits for B 249.677 Recovery = 97.74%							
Ba 233.527†	52822.9	509.35 ug/L	5.928	509.35 ppb	5.928	1.16%	
QC value within limits for Ba 233.527 Recovery = 101.87%							
Be 313.107†	1142199.7	507.28 ug/L	5.245	507.28 ppb	5.245	1.03%	
QC value within limits for Be 313.107 Recovery = 101.46%							
Ca 317.933Radial†	1319.4	5188.3 ug/L	52.27	5188.3 ppb	52.27	1.01%	
QC value within limits for Ca 317.933Radial Recovery = 103.77%							
Cd 226.502†	34259.9	514.96 ug/L	6.860	514.96 ppb	6.860	1.33%	
QC value within limits for Cd 226.502 Recovery = 102.99%							
Co 228.616†	19389.7	520.09 ug/L	6.197	520.09 ppb	6.197	1.19%	
QC value within limits for Co 228.616 Recovery = 104.02%							
Cr 267.716†	37867.6	511.39 ug/L	5.797	511.39 ppb	5.797	1.13%	
QC value within limits for Cr 267.716 Recovery = 102.28%							
Cu 324.752†	152010.7	501.13 ug/L	4.533	501.13 ppb	4.533	0.90%	
QC value within limits for Cu 324.752 Recovery = 100.23%							
Fe 238.204 Radial†	187.5	5283.1 ug/L	89.86	5283.1 ppb	89.86	1.70%	
QC value within limits for Fe 238.204 Radial Recovery = 105.66%							
K 766.490 Radial†	11469.0	5218.3 ug/L	49.87	5218.3 ppb	49.87	0.96%	
QC value within limits for K 766.490 Radial Recovery = 104.37%							
Mg 279.077 IEC†	54.7	5347.6 ug/L	74.20	5347.6 ppb	74.20	1.39%	
QC value within limits for Mg 279.077 IEC Recovery = 106.95%							
Mn 257.610†	374904.6	507.16 ug/L	3.994	507.16 ppb	3.994	0.79%	
QC value within limits for Mn 257.610 Recovery = 101.43%							
Mo 202.031†	5668.4	507.08 ug/L	5.510	507.08 ppb	5.510	1.09%	
QC value within limits for Mo 202.031 Recovery = 101.42%							
Na 589.592 Radial†	28233.7	9352.1 ug/L	135.15	9352.1 ppb	135.15	1.45%	
QC value within limits for Na 589.592 Radial Recovery = 93.52%							
Ni 231.604†	15916.4	519.39 ug/L	6.388	519.39 ppb	6.388	1.23%	
QC value within limits for Ni 231.604 Recovery = 103.88%							
P 214.914†	3220.7	2451.6 ug/L	28.02	2451.6 ppb	28.02	1.14%	
QC value within limits for P 214.914 Recovery = 98.07%							
Pb 220.353†	3187.8	512.96 ug/L	6.221	512.96 ppb	6.221	1.21%	
QC value within limits for Pb 220.353 Recovery = 102.59%							
S 181.975 Axial†	546.0	1001.7 ug/L	14.82	1001.7 ppb	14.82	1.48%	
QC value within limits for S 181.975 Axial Recovery = 100.17%							
Sb 206.836†	1174.3	522.61 ug/L	8.717	522.61 ppb	8.717	1.67%	
QC value within limits for Sb 206.836 Recovery = 104.52%							
Se 196.026†	610.5	535.29 ug/L	5.813	535.29 ppb	5.813	1.09%	
QC value within limits for Se 196.026 Recovery = 107.06%							
Si 251.611†	66517.3	2549.8 ug/L	26.71	2549.8 ppb	26.71	1.05%	
QC value within limits for Si 251.611 Recovery = 101.99%							
Sn 189.927†	2143.3	503.82 ug/L	6.727	503.82 ppb	6.727	1.34%	
QC value within limits for Sn 189.927 Recovery = 100.76%							
Sr 421.552†	50122.7	464.78 ug/L	5.508	464.78 ppb	5.508	1.18%	
QC value within limits for Sr 421.552 Recovery = 92.96%							
Ti 334.940†	283902.3	496.91 ug/L	5.010	496.91 ppb	5.010	1.01%	
QC value within limits for Ti 334.940 Recovery = 99.38%							
Tl 190.801†	1259.5	508.76 ug/L	5.484	508.76 ppb	5.484	1.08%	
QC value within limits for Tl 190.801 Recovery = 101.75%							
U 409.014†	17298.2	515.00 ug/L	2.059	515.00 ppb	2.059	0.40%	
QC value within limits for U 409.014 Recovery = 103.00%							
V 292.402†	63047.6	514.14 ug/L	5.822	514.14 ppb	5.822	1.13%	
QC value within limits for V 292.402 Recovery = 102.83%							
Zn 213.857†	40870.7	507.28 ug/L	5.514	507.28 ppb	5.514	1.09%	
QC value within limits for Zn 213.857 Recovery = 101.46%							
SiO2†	66857.7	5455.4 ug/L	60.89	5455.4 ppb	60.89	1.12%	
QC value within limits for SiO2 Recovery = 102.02%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/9/2010 11:52:16

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	3294.7	3294.7	98.0 %		11:54:29
1	Y RADIAL	2700.7	2700.7	96.84 %		11:54:29
1	Al 396.153Radial†	-70.6	-2.7	-5.8600 ug/L	-5.8600 ppb	11:54:29
1	Ca 317.933Radial†	6.4	-4.5	-17.634 ug/L	-17.634 ppb	11:54:29
1	Fe 238.204 Radial†	10.5	3.4	95.523 ug/L	95.523 ppb	11:54:29
1	K 766.490 Radial†	2194.9	84.8	38.627 ug/L	38.627 ppb	11:54:09
1	Mg 279.077 IEC†	2.3	0.8	78.114 ug/L	78.114 ppb	11:54:29
1	Na 589.592 Radial†	-818.2	-64.5	-21.375 ug/L	-21.375 ppb	11:54:09
1	Sr 421.552†	19.1	-5.0	-0.0464 ug/L	-0.0464 ppb	11:54:09
1	Sc 361.383	831446.1	831446.1	102.08 %		11:55:26
1	Y 371.029	712927.5	712927.5	101.76 %		11:55:26
1	Ag 328.068†	69.6	-141.7	-0.7105 ug/L	-0.7105 ppb	11:55:26
1	As 188.979†	-23.2	-5.3	-3.0476 ug/L	-3.0476 ppb	11:55:46
1	B 249.677†	-275.9	-77.6	-2.2267 ug/L	-2.2267 ppb	11:55:46
1	Ba 233.527†	4.1	1.8	0.0205 ug/L	0.0205 ppb	11:55:46
1	Be 313.107†	-3521.2	24.4	0.0111 ug/L	0.0111 ppb	11:55:26
1	Cd 226.502†	-156.5	8.5	0.1190 ug/L	0.1190 ppb	11:55:46
1	Co 228.616†	-57.5	-13.7	-0.3688 ug/L	-0.3688 ppb	11:55:46
1	Cr 267.716†	83.1	5.6	0.0787 ug/L	0.0787 ppb	11:55:46
1	Cu 324.752†	6027.6	-75.1	-0.2447 ug/L	-0.2447 ppb	11:55:26
1	Mn 257.610†	416.5	10.3	0.0202 ug/L	0.0202 ppb	11:55:46
1	Mo 202.031†	13.9	6.5	0.5842 ug/L	0.5842 ppb	11:55:46
1	Ni 231.604†	68.9	-2.2	-0.0711 ug/L	-0.0711 ppb	11:55:46
1	P 214.914†	173.6	-7.5	-5.9811 ug/L	-5.9811 ppb	11:55:46
1	Pb 220.353†	-54.6	-10.5	-1.6921 ug/L	-1.6921 ppb	11:55:46
1	S 181.975 Axial†	37.2	9.6	17.619 ug/L	17.619 ppb	11:55:46
1	Sb 206.836†	34.4	5.0	2.1965 ug/L	2.1965 ppb	11:55:46
1	Se 196.026†	-21.4	-2.3	-1.6928 ug/L	-1.6928 ppb	11:55:46
1	Si 251.611†	509.6	-40.6	-1.5657 ug/L	-1.5657 ppb	11:55:46
1	Sn 189.927†	17.5	10.0	2.3324 ug/L	2.3324 ppb	11:55:46
1	Ti 334.940†	-970.1	61.2	0.0966 ug/L	0.0966 ppb	11:55:26
1	Tl 190.801†	-30.0	-6.0	-2.3856 ug/L	-2.3856 ppb	11:55:46
1	U 409.014†	-1959.7	130.2	3.8788 ug/L	3.8788 ppb	11:55:26
1	V 292.402†	-1251.8	10.2	0.0855 ug/L	0.0855 ppb	11:55:26
1	Zn 213.857†	570.4	50.2	0.6155 ug/L	0.6155 ppb	11:55:46
1	SiO2†	540.6	3.6	0.2819 ug/L	0.2819 ppb	11:56:57
2	Sc Radial	3291.9	3291.9	97.9 %		11:54:54
2	Y RADIAL	2700.7	2700.7	96.85 %		11:54:54
2	Al 396.153Radial†	-63.8	4.1	8.7526 ug/L	8.7526 ppb	11:54:54
2	Ca 317.933Radial†	8.5	-2.3	-8.9747 ug/L	-8.9747 ppb	11:54:54
2	Fe 238.204 Radial†	9.1	2.1	57.799 ug/L	57.799 ppb	11:54:54
2	K 766.490 Radial†	2162.0	53.0	24.178 ug/L	24.178 ppb	11:54:34
2	Mg 279.077 IEC†	2.2	0.7	69.376 ug/L	69.376 ppb	11:54:54
2	Na 589.592 Radial†	-836.9	-84.3	-27.918 ug/L	-27.918 ppb	11:54:34
2	Sr 421.552†	-3.7	-28.3	-0.2626 ug/L	-0.2626 ppb	11:54:34
2	Sc 361.383	824403.2	824403.2	101.22 %		11:55:51
2	Y 371.029	707064.6	707064.6	100.93 %		11:55:51
2	Ag 328.068†	108.9	-102.3	-0.5143 ug/L	-0.5143 ppb	11:55:51
2	As 188.979†	-16.3	1.4	0.7995 ug/L	0.7995 ppb	11:56:11
2	B 249.677†	-271.2	-75.3	-2.1545 ug/L	-2.1545 ppb	11:56:11
2	Ba 233.527†	-0.7	-2.9	-0.0249 ug/L	-0.0249 ppb	11:56:11
2	Be 313.107†	-3466.1	49.4	0.0222 ug/L	0.0222 ppb	11:55:51
2	Cd 226.502†	-152.4	11.3	0.1639 ug/L	0.1639 ppb	11:56:11
2	Co 228.616†	-50.6	-7.3	-0.1975 ug/L	-0.1975 ppb	11:56:11
2	Cr 267.716†	74.1	-2.5	-0.0320 ug/L	-0.0320 ppb	11:56:11
2	Cu 324.752†	6020.4	-31.8	-0.1027 ug/L	-0.1027 ppb	11:55:51
2	Mn 257.610†	416.7	14.0	0.0218 ug/L	0.0218 ppb	11:56:11
2	Mo 202.031†	7.4	0.1	0.0164 ug/L	0.0164 ppb	11:56:11
2	Ni 231.604†	58.5	-11.9	-0.3881 ug/L	-0.3881 ppb	11:56:11

2	P 214.914†	169.2	-10.5	-8.2974 ug/L	-8.2974 ppb	11:56:11
2	Pb 220.353†	-52.1	-8.4	-1.3616 ug/L	-1.3616 ppb	11:56:11
2	S 181.975 Axial†	26.1	-1.0	-1.8424 ug/L	-1.8424 ppb	11:56:11
2	Sb 206.836†	32.7	3.6	1.5457 ug/L	1.5457 ppb	11:56:11
2	Se 196.026†	-22.7	-3.8	-3.0401 ug/L	-3.0401 ppb	11:56:11
2	Si 251.611†	499.0	-46.8	-1.7977 ug/L	-1.7977 ppb	11:56:11
2	Sn 189.927†	8.9	1.6	0.3614 ug/L	0.3614 ppb	11:56:11
2	Ti 334.940†	-941.7	81.1	0.1343 ug/L	0.1343 ppb	11:55:51
2	Tl 190.801†	-24.4	-0.7	-0.2679 ug/L	-0.2679 ppb	11:56:11
2	U 409.014†	-2017.8	56.4	1.6778 ug/L	1.6778 ppb	11:55:51
2	V 292.402†	-1205.2	45.7	0.3643 ug/L	0.3643 ppb	11:55:51
2	Zn 213.857†	569.7	54.2	0.6734 ug/L	0.6734 ppb	11:56:11
2	SiO2†	523.6	-8.6	-0.7033 ug/L	-0.7033 ppb	11:57:17
3	Sc Radial	3278.3	3278.3	97.5 %		11:55:19
3	Y RADIAL	2692.5	2692.5	96.55 %		11:55:19
3	Al 396.153Radial†	-71.4	-3.9	-8.2351 ug/L	-8.2351 ppb	11:55:19
3	Ca 317.933Radial†	10.6	-0.1	-0.2739 ug/L	-0.2739 ppb	11:55:19
3	Fe 238.204 Radial†	10.9	3.9	108.91 ug/L	108.91 ppb	11:55:19
3	K 766.490 Radial†	2150.5	50.4	22.961 ug/L	22.961 ppb	11:54:59
3	Mg 279.077 IEC†	0.1	-1.5	-144.29 ug/L	-144.29 ppb	11:55:19
3	Na 589.592 Radial†	-803.2	-53.3	-17.660 ug/L	-17.660 ppb	11:54:59
3	Sr 421.552†	-13.0	-37.9	-0.3513 ug/L	-0.3513 ppb	11:54:59
3	Sc 361.383	827623.0	827623.0	101.61 %		11:56:16
3	Y 371.029	710411.0	710411.0	101.40 %		11:56:16
3	Ag 328.068†	163.8	-48.7	-0.2176 ug/L	-0.2176 ppb	11:56:16
3	As 188.979†	-16.9	0.8	0.4882 ug/L	0.4882 ppb	11:56:36
3	B 249.677†	-289.6	-92.4	-2.6508 ug/L	-2.6508 ppb	11:56:36
3	Ba 233.527†	-5.1	-7.2	-0.0657 ug/L	-0.0657 ppb	11:56:36
3	Be 313.107†	-3552.9	-22.7	-0.0096 ug/L	-0.0096 ppb	11:56:16
3	Cd 226.502†	-163.6	0.8	0.0001 ug/L	0.0001 ppb	11:56:36
3	Co 228.616†	-62.6	-18.9	-0.5093 ug/L	-0.5093 ppb	11:56:36
3	Cr 267.716†	69.3	-7.5	-0.0955 ug/L	-0.0955 ppb	11:56:36
3	Cu 324.752†	6087.4	11.0	0.0434 ug/L	0.0434 ppb	11:56:16
3	Mn 257.610†	403.9	-0.2	0.0163 ug/L	0.0163 ppb	11:56:36
3	Mo 202.031†	9.7	2.3	0.2177 ug/L	0.2177 ppb	11:56:36
3	Ni 231.604†	58.4	-12.2	-0.3974 ug/L	-0.3974 ppb	11:56:36
3	P 214.914†	171.7	-8.7	-6.9687 ug/L	-6.9687 ppb	11:56:36
3	Pb 220.353†	-55.8	-11.9	-1.9264 ug/L	-1.9264 ppb	11:56:36
3	S 181.975 Axial†	30.8	3.5	6.3708 ug/L	6.3708 ppb	11:56:36
3	Sb 206.836†	23.4	-5.7	-2.4325 ug/L	-2.4325 ppb	11:56:36
3	Se 196.026†	-24.8	-5.7	-4.5705 ug/L	-4.5705 ppb	11:56:36
3	Si 251.611†	505.5	-42.3	-1.6289 ug/L	-1.6289 ppb	11:56:36
3	Sn 189.927†	12.8	5.4	1.2585 ug/L	1.2585 ppb	11:56:36
3	Ti 334.940†	-910.6	115.3	0.2146 ug/L	0.2146 ppb	11:56:16
3	Tl 190.801†	-30.5	-6.6	-2.6498 ug/L	-2.6498 ppb	11:56:36
3	U 409.014†	-2159.6	-75.4	-2.2654 ug/L	-2.2654 ppb	11:56:16
3	V 292.402†	-1242.7	13.5	0.0888 ug/L	0.0888 ppb	11:56:16
3	Zn 213.857†	547.5	30.3	0.3655 ug/L	0.3655 ppb	11:56:36
3	SiO2†	535.1	0.7	0.0520 ug/L	0.0520 ppb	11:57:37

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Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	827824.1	101.64 %	0.433			0.43%
Sc Radial	3288.3	97.8 %	0.26			0.27%
Y 371.029	710134.4	101.36 %	0.420			0.41%
Y RADIAL	2698.0	96.75 %	0.169			0.17%
Ag 328.068†	-97.6	-0.4808 ug/L	0.24818	-0.4808 ppb	0.24818	51.62%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.8	-1.7808 ug/L	9.19918	-1.7808 ppb	9.19918	516.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.1	-0.5866 ug/L	2.13693	-0.5866 ppb	2.13693	364.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-81.8	-2.3440 ug/L	0.26815	-2.3440 ppb	0.26815	11.44%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-2.7	-0.0233 ug/L	0.04310	-0.0233 ppb	0.04310	184.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	17.0	0.0079 ug/L	0.01614	0.0079 ppb	0.01614	204.73%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.3	-8.9609 ug/L	8.68003	-8.9609 ppb	8.68003	96.87%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	6.9	0.0943 ug/L	0.08466	0.0943 ppb	0.08466	89.75%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-13.3	-0.3586 ug/L	0.15617	-0.3586 ppb	0.15617	43.55%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-1.5	-0.0163 ug/L	0.08816	-0.0163 ppb	0.08816	541.47%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-31.9	-0.1013 ug/L	0.14404	-0.1013 ppb	0.14404	142.20%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	3.1	87.411 ug/L	26.5040	87.411 ppb	26.5040	30.32%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	62.7	28.589 ug/L	8.7144	28.589 ppb	8.7144	30.48%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.0	1.0664 ug/L	125.95858	1.0664 ppb	125.95858	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	8.0	0.0195 ug/L	0.00282	0.0195 ppb	0.00282	14.51%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	3.0	0.2728 ug/L	0.28789	0.2728 ppb	0.28789	105.54%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-67.4	-22.318 ug/L	5.1937	-22.318 ppb	5.1937	23.27%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-8.8	-0.2855 ug/L	0.18577	-0.2855 ppb	0.18577	65.06%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-8.9	-7.0824 ug/L	1.16229	-7.0824 ppb	1.16229	16.41%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-10.3	-1.6600 ug/L	0.28372	-1.6600 ppb	0.28372	17.09%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	4.0	7.3824 ug/L	9.76991	7.3824 ppb	9.76991	132.34%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	1.0	0.4366 ug/L	2.50589	0.4366 ppb	2.50589	573.99%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-3.9	-3.1011 ug/L	1.43982	-3.1011 ppb	1.43982	46.43%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-43.2	-1.6641 ug/L	0.11994	-1.6641 ppb	0.11994	7.21%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.6	1.3174 ug/L	0.98680	1.3174 ppb	0.98680	74.90%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-23.7	-0.2201 ug/L	0.15680	-0.2201 ppb	0.15680	71.25%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	85.8	0.1485 ug/L	0.06027	0.1485 ppb	0.06027	40.58%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.4	-1.7678 ug/L	1.30562	-1.7678 ppb	1.30562	73.86%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	37.1	1.0971 ug/L	3.11297	1.0971 ppb	3.11297	283.75%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	23.2	0.1795 ug/L	0.16001	0.1795 ppb	0.16001	89.12%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	44.9	0.5514 ug/L	0.16365	0.5514 ppb	0.16365	29.68%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-1.4	-0.1231 ug/L	0.51542	-0.1231 ppb	0.51542	418.54%	
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							



## ICPMS #5 Daily Performance Report

### Sample ID: Sample

Sample Date/Time: Saturday, March 06, 2010 12:09:34

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.661

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	4777.6	4777.599	78.513	1.6
Mg	24.0	48634.0	48634.045	234.209	0.5
Co	58.9	90810.3	90810.329	749.980	0.8
Rh	102.9	182759.1	182759.120	2080.782	1.1
In	114.9	251410.0	251410.017	1585.778	0.6
Pb	208.0	269712.7	269712.731	1579.796	0.6
[> Ba	137.9	240159.5	240159.536	2766.790	1.2
[ Ba++	69.0	3561.9	0.015	0.000	2.0
[> Ce	139.9	293604.7	293604.702	1492.439	0.5
[ CeO	155.9	6296.5	0.021	0.000	1.8
Bkgd	220.0	22.2	22.200	3.915	17.6

### Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.50	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

### Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	6.5	5313.7
Co	59	17	7.3	86868.6
In	115	17	8.0	235041.8

## ICPMS #5 Instrument Tuning Report

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

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	585	2050	0.658
Be	9.0	9.0	2046	2075	0.619
Mg	24.0	24.0	5699	2080	0.646
Mg	25.0	25.0	5927	2080	0.613
Mg	26.0	25.9	6172	2080	0.645
Co	58.9	59.0	14193	2110	0.623
Rh	102.9	102.9	24880	2160	0.639
In	114.9	114.9	27795	2180	0.649
Ce	139.9	139.9	33866	2200	0.642
Pb	206.0	206.0	49948	2295	0.612
Pb	207.0	207.0	50159	2240	0.638
Pb	208.0	208.0	50451	2265	0.700
U	238.1	238.1	57734	2275	0.727

## ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, March 06, 2010 20:36:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\Blank.630

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9		ug/L		26	
>	Sc	45		ug/L		828043	
[	Ni	60		ug/L		91	
[>	Ge	74		ug/L		350217	
	As	75		ug/L		67	
	Se	77		ug/L		9069	
	Se	82		ug/L		23	
[	Kr	83		ug/L		109	
[>	Lu	175		ug/L		478432	
[	Tl	205		ug/L		852	

Sample ID: Blank

Report Date/Time: Saturday, March 06, 2010 20:36:48

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175					
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, March 06, 2010 20:39:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\Standard 1.631

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	4.007	4222	0.005
[>	Sc	45		ug/L		847581	847581.483
[	Ni	60	10.000	ug/L	0.713	13011	0.015
[>	Ge	74		ug/L		353538	353538.328
[	As	75	10.000	ug/L	4.907	10649	0.030
[	Se	77		ug/L		8896	-0.001
[	Se	82	10.000	ug/L	2.675	1074	0.003
[	Kr	83		ug/L		122	0.000
[>	Lu	175		ug/L		484626	484625.610
[	Tl	205	10.000	ug/L	0.767	226344	0.465

Sample ID: Standard 1

Report Date/Time: Saturday, March 06, 2010 20:40:23

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175					
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, March 06, 2010 20:43:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\Standard 2.632

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	99.994	ug/L	0.946	42140	0.049
{ >	Sc	45		ug/L		855961	855960.580
[	Ni	60	100.005	ug/L	3.758	131233	0.153
[ >	Ge	74		ug/L		365567	365567.448
	As	75	100.014	ug/L	2.103	111006	0.304
	Se	77		ug/L		17251	0.021
	Se	82	100.002	ug/L	3.069	10907	0.030
[	Kr	83		ug/L		129	0.000
[ >	Lu	175		ug/L		485507	485506.681
[	Tl	205	99.828	ug/L	0.779	1925606	3.964

Sample ID: Standard 2

Report Date/Time: Saturday, March 06, 2010 20:43:58

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45					
[	Ni	60					
[>	Ge	74					
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175					
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, March 06, 2010 20:46:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 1.633

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.988	ug/L	3.029	22339	0.026
[>	Sc	45		ug/L		872260	872260.414
[	Ni	60	52.485	ug/L	2.209	70248	0.080
[>	Ge	74		ug/L		376932	376931.909
	As	75	49.546	ug/L	2.098	56740	0.150
	Se	77		ug/L		13279	0.009
	Se	82	51.154	ug/L	0.643	5767	0.015
[	Kr	83		ug/L		133	0.000
[>	Lu	175		ug/L		494169	494169.401
[	Tl	205	54.012	ug/L	2.102	1060700	2.145

Sample ID: QC Std 1

Report Date/Time: Saturday, March 06, 2010 20:47:33

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate	Rel. % Difference
	Be	9	103.976					
>	Sc	45		105.3				
	Ni	60	104.971					
>	Ge	74		107.6				
	As	75	99.092					
	Se	77						
	Se	82	102.308					
	Kr	83						
>	Lu	175		103.3				
	Tl	205	108.024					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, March 06, 2010 20:50:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 2.634

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.008	ug/L	88.649	24	-0.000
>	Sc	45		ug/L		878842	878842.032
[	Ni	60	-0.000	ug/L	1835.419	96	-0.000
[>	Ge	74		ug/L		377951	377951.440
	As	75	-0.234	ug/L	311.832	-203	-0.001
	Se	77		ug/L		10813	0.003
	Se	82	-0.035	ug/L	528.201	21	-0.000
[	Kr	83		ug/L		123	0.000
[>	Lu	175		ug/L		494254	494254.204
[	Tl	205	0.183	ug/L	4.659	4480	0.007

Sample ID: QC Std 2

Report Date/Time: Saturday, March 06, 2010 20:51:13

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999



### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		106.1			
[	Ni	60					
[>	Ge	74		107.9			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		103.3			
[	Tl	205					

### QC Out Of Limits

Measurement Type   Analyte                      MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, March 06, 2010 20:54:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 3.635

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.533	ug/L	1.834	260	0.000
>	Sc	45		ug/L		882938	882937.505
[	Ni	60	2.159	ug/L	5.506	3016	0.003
[>	Ge	74		ug/L		374005	374005.247
	As	75	6.050	ug/L	2.285	6937	0.018
	Se	77		ug/L		9332	-0.001
	Se	82	5.695	ug/L	1.007	659	0.002
[	Kr	83		ug/L		127	0.000
[>	Lu	175		ug/L		497109	497109.083
[	Tl	205	1.290	ug/L	2.491	26354	0.051

Sample ID: QC Std 3

Report Date/Time: Saturday, March 06, 2010 20:54:49

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	106.628				
[>	Sc	45		106.6			
[	Ni	60	107.952				
[>	Ge	74		106.8			
[	As	75	120.995				
[	Se	77					
[	Se	82	113.904				
[	Kr	83					
[>	Lu	175		103.9			
[	Tl	205	129.038				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, March 06, 2010 20:57:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 4.636

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.076	ug/L	17.674	55	0.000
>	Sc	45		ug/L		789746	789745.738
[	Ni	60	3.205	ug/L	1.091	3965	0.005
[>	Ge	74		ug/L		339327	339327.426
	As	75	0.214	ug/L	335.761	284	0.001
	Se	77		ug/L		8763	-0.000
	Se	82	-1.624	ug/L	8.969	-142	-0.000
[	Kr	83		ug/L		316	0.001
[>	Lu	175		ug/L		463130	463129.668
[	Tl	205	0.028	ug/L	5.970	1333	0.001

Sample ID: QC Std 4

Report Date/Time: Saturday, March 06, 2010 20:58:26

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			95.4		
[	Ni	60	96.829				
[>	Ge	74			96.9		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175			96.8		
[	Ti	205					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, March 06, 2010 21:01:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 5.637

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	17.738	ug/L	2.750	7172	0.009
>	Sc	45		ug/L		818867	818866.854
[	Ni	60	21.157	ug/L	0.702	26636	0.032
[>	Ge	74		ug/L		352065	352065.274
	As	75	19.293	ug/L	4.271	20681	0.059
	Se	77		ug/L		10646	0.004
	Se	82	17.784	ug/L	2.068	1888	0.005
[	Kr	83		ug/L		308	0.001
[>	Lu	175		ug/L		485784	485783.767
[	Tl	205	19.611	ug/L	2.520	379170	0.779



## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	88.690				
[>	Sc	45		98.9			
[	Ni	60	90.763				
[>	Ge	74		100.5			
	As	75	96.464				
	Se	77					
	Se	82	88.921				
[	Kr	83					
[>	Lu	175		101.5			
[	Tl	205	98.057				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, March 06, 2010 21:05:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.638

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.113	ug/L	2.412	21960	0.026
[>	Sc	45		ug/L		839405	839405.485
[	Ni	60	51.603	ug/L	2.339	66455	0.079
[>	Ge	74		ug/L		357195	357195.410
	As	75	49.408	ug/L	1.905	53621	0.150
	Se	77		ug/L		12389	0.009
	Se	82	51.389	ug/L	2.080	5490	0.015
[	Kr	83		ug/L		136	0.000
[>	Lu	175		ug/L		484532	484531.999
[	Tl	205	53.843	ug/L	1.220	1036942	2.138

Sample ID: QC Std 6

Report Date/Time: Saturday, March 06, 2010 21:05:41

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	106.226				
[>	Sc	45		101.4			
[	Ni	60	103.206				
[>	Ge	74		102.0			
	As	75	98.815				
	Se	77					
	Se	82	102.779				
[	Kr	83					
[>	Lu	175		101.3			
[	Tl	205	107.686				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, March 06, 2010 21:08:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.639

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.001	ug/L	1539.380	27	-0.000
>	Sc	45		ug/L		858462	858461.512
[	Ni	60	-0.005	ug/L	144.573	88	-0.000
>	Ge	74		ug/L		364858	364858.180
	As	75	-0.119	ug/L	629.690	-62	-0.000
	Se	77		ug/L		10448	0.003
	Se	82	-0.108	ug/L	111.948	12	-0.000
[	Kr	83		ug/L		121	0.000
>	Lu	175		ug/L		488836	488836.045
[	Tl	205	0.248	ug/L	3.683	5681	0.010

Sample ID: QC Std 7

Report Date/Time: Saturday, March 06, 2010 21:09:21

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		103.7			
[	Ni	60					
[>	Ge	74		104.2			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		102.2			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, March 06, 2010 21:26:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl sol1.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.644

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.151	ug/L	2.966	21057	0.026
>	Sc	45		ug/L		804485	804485.395
[	Ni	60	52.299	ug/L	2.677	64551	0.080
[>	Ge	74		ug/L		343263	343262.633
	As	75	48.806	ug/L	2.474	50899	0.148
	Se	77		ug/L		11476	0.008
	Se	82	50.883	ug/L	4.234	5223	0.015
[	Kr	83		ug/L		130	0.000
[>	Lu	175		ug/L		473619	473619.212
[	Tl	205	53.613	ug/L	1.995	1009054	2.129

Sample ID: QC Std 8

Report Date/Time: Saturday, March 06, 2010 21:27:38

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	106.302				
[>	Sc	45		97.2			
[	Ni	60	104.598				
[>	Ge	74		98.0			
	As	75	97.612				
	Se	77					
	Se	82	101.766				
[	Kr	83					
[>	Lu	175		99.0			
[	Tl	205	107.226				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, March 06, 2010 21:30:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.645

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.009	ug/L	135.676	22	-0.000
[>	Sc	45		ug/L		802475	802474.555
[	Ni	60	0.000	ug/L	1104.771	88	0.000
[>	Ge	74		ug/L		337049	337048.727
	As	75	-0.321	ug/L	18.628	-264	-0.001
	Se	77		ug/L		9041	0.001
	Se	82	-0.041	ug/L	288.329	18	-0.000
[	Kr	83		ug/L		123	0.000
[>	Lu	175		ug/L		469884	469884.278
[	Tl	205	0.225	ug/L	6.857	5035	0.009

Sample ID: QC Std 9

Report Date/Time: Saturday, March 06, 2010 21:31:18

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			96.9			
[	Ni	60						
[>	Ge	74			96.2			
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175			98.2			
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, March 06, 2010 22:00:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.653

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.671	ug/L	1.891	20505	0.027
[>	Sc	45		ug/L		761358	761358.058
[	Ni	60	52.699	ug/L	0.793	61560	0.081
[>	Ge	74		ug/L		331653	331652.918
	As	75	48.864	ug/L	2.804	49239	0.148
	Se	77		ug/L		10549	0.006
	Se	82	49.822	ug/L	3.694	4942	0.015
[	Kr	83		ug/L		103	-0.000
[>	Lu	175		ug/L		464418	464417.901
[	Tl	205	53.791	ug/L	1.849	993005	2.136

Sample ID: QC Std 8

Report Date/Time: Saturday, March 06, 2010 22:00:41

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999



### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	109.342				
[>	Sc	45		91.9			
[	Ni	60	105.397				
[>	Ge	74		94.7			
	As	75	97.728				
	Se	77					
	Se	82	99.644				
[	Kr	83					
[>	Lu	175		97.1			
[	Tl	205	107.583				

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, March 06, 2010 22:03:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.654

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.002	ug/L	716.794	24	-0.000
>	Sc	45		ug/L		771213	771213.414
[	Ni	60	0.003	ug/L	137.311	88	0.000
[>	Ge	74		ug/L		327351	327351.240
	As	75	0.088	ug/L	590.586	143	0.000
	Se	77		ug/L		7879	-0.002
	Se	82	0.116	ug/L	147.063	32	0.000
[	Kr	83		ug/L		101	-0.000
[>	Lu	175		ug/L		456460	456460.439
[	Tl	205	0.212	ug/L	6.772	4647	0.008

Sample ID: QC Std 9

Report Date/Time: Saturday, March 06, 2010 22:04:21

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		93.1			
[	Ni	60					
[>	Ge	74		93.5			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		95.4			
[	Tl	205					

### 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: Saturday, March 06, 2010 22:33:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.662

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.981	ug/L	0.377	20355	0.027
[>	Sc	45		ug/L		765368	765368.400
[	Ni	60	51.619	ug/L	1.525	60620	0.079
[>	Ge	74		ug/L		324904	324903.622
	As	75	49.816	ug/L	1.805	49175	0.151
	Se	77		ug/L		10584	0.007
	Se	82	51.812	ug/L	0.650	5034	0.015
[	Kr	83		ug/L		118	0.000
[>	Lu	175		ug/L		458285	458285.021
[	Tl	205	54.104	ug/L	0.824	985463	2.149

Sample ID: QC Std 8

Report Date/Time: Saturday, March 06, 2010 22:33:50

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Dil	Duplicate Rel. % Difference
[	Be	9	107.962					
[>	Sc	45		92.4				
[	Ni	60	103.237					
[>	Ge	74		92.8				
	As	75	99.632					
	Se	77						
	Se	82	103.624					
[	Kr	83						
[>	Lu	175		95.8				
[	Tl	205	108.208					

### 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: Saturday, March 06, 2010 22:36:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.663

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.001	ug/L	855.701	26	0.000
{>	Sc	45		ug/L		788821	788821.010
[	Ni	60	0.007	ug/L	63.508	95	0.000
[>	Ge	74		ug/L		335210	335209.968
	As	75	-0.029	ug/L	994.254	36	-0.000
	Se	77		ug/L		8269	-0.001
	Se	82	-0.308	ug/L	68.433	-9	-0.000
[	Kr	83		ug/L		125	0.000
[>	Lu	175		ug/L		465050	465050.264
[	Tl	205	0.225	ug/L	1.194	4987	0.009

Sample ID: QC Std 9

Report Date/Time: Saturday, March 06, 2010 22:37:30

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		95.3			
[	Ni	60					
[>	Ge	74		95.7			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		97.2			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041640

Sample Date/Time: Saturday, March 06, 2010 22:40:31

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041640.664

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.005	ug/L	573.580	23	-0.000
>	Sc	45		ug/L		762843	762842.863
[	Ni	60	0.109	ug/L	7.824	211	0.000
[>	Ge	74		ug/L		324391	324390.804
	As	75	0.384	ug/L	53.987	440	0.001
	Se	77		ug/L		4470	-0.012
	Se	82	-0.177	ug/L	46.283	4	-0.000
[	Kr	83		ug/L		111	0.000
[>	Lu	175		ug/L		465684	465684.041
[	Tl	205	0.082	ug/L	3.388	2341	0.003

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			92.1		
[	Ni	60					
[>	Ge	74			92.6		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175			97.3		
[	Tl	205					

### QC Out Of Limits

Measurement Type   Analyte   Mass   Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041645

Sample Date/Time: Saturday, March 06, 2010 22:44:14

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 952564|40|ba|

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041645.665

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	21.773	ug/L	2.469	8446	0.011
>	Sc	45		ug/L		786148	786148.088
[	Ni	60	36.951	ug/L	1.758	44591	0.057
[>	Ge	74		ug/L		337045	337045.023
	As	75	28.366	ug/L	2.130	29079	0.086
	Se	77		ug/L		11645	0.009
	Se	82	76.741	ug/L	0.800	7725	0.023
[	Kr	83		ug/L		126	0.000
[>	Lu	175		ug/L		479771	479770.575
[	Tl	205	36.834	ug/L	0.865	702634	1.463

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			94.9		
[	Ni	60					
[>	Ge	74			96.2		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175			100.3		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 246679001

Sample Date/Time: Saturday, March 06, 2010 22:47:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|ba|

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679001.666

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	14.974	ug/L	2.691	5895	0.007
[>	Sc	45		ug/L		796603	796602.555
[	Ni	60	11.911	ug/L	1.451	14627	0.018
[>	Ge	74		ug/L		320553	320553.384
	As	75	3.472	ug/L	9.542	3441	0.011
	Se	77		ug/L		4022	-0.013
	Se	82	0.077	ug/L	625.036	28	0.000
[	Kr	83		ug/L		279	0.001
[>	Lu	175		ug/L		523984	523983.997
[	Tl	205	0.314	ug/L	2.639	7467	0.012

Sample ID: 246679001

Report Date/Time: Saturday, March 06, 2010 22:48:39

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			96.2		
[	Ni	60					
[>	Ge	74			91.5		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175			109.5		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041641

Sample Date/Time: Saturday, March 06, 2010 22:51:39

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041641.667

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	17.410	ug/L	1.547	6787	0.009
[>	Sc	45		ug/L		789431	789430.982
[	Ni	60	12.913	ug/L	2.817	15702	0.020
[>	Ge	74		ug/L		313182	313181.921
	As	75	3.715	ug/L	10.701	3588	0.011
	Se	77		ug/L		3823	-0.014
	Se	82	0.062	ug/L	383.746	26	0.000
[	Kr	83		ug/L		291	0.001
[>	Lu	175		ug/L		507942	507942.181
[	Tl	205	0.350	ug/L	2.393	7970	0.014

Sample ID: 1202041641

Report Date/Time: Saturday, March 06, 2010 22:52:19

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45			95.3		
[	Ni	60					
>	Ge	74			89.4		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
>	Lu	175			106.2		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041643

Sample Date/Time: Saturday, March 06, 2010 22:55:20

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041643.668

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	30.631	ug/L	2.123	12362	0.015
>	Sc	45		ug/L		818582	818581.873
[	Ni	60	28.622	ug/L	2.667	35987	0.044
[>	Ge	74		ug/L		332576	332576.390
	As	75	31.035	ug/L	0.477	31387	0.094
	Se	77		ug/L		4352	-0.013
	Se	82	6.676	ug/L	4.012	683	0.002
[	Kr	83		ug/L		301	0.001
[>	Lu	175		ug/L		540873	540873.174
[	Tl	205	37.018	ug/L	1.666	796083	1.470

## Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999



### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		98.9			
[	Ni	60					
[>	Ge	74		95.0			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		113.1			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041644

Sample Date/Time: Saturday, March 06, 2010 22:59:02

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 952564|2|ba|

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041644.669

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	39.350	ug/L	0.873	15461	0.019
>	Sc	45		ug/L		797222	797222.069
[	Ni	60	34.803	ug/L	1.115	42600	0.053
[>	Ge	74		ug/L		315627	315627.428
	As	75	35.338	ug/L	1.655	33907	0.107
	Se	77		ug/L		4255	-0.012
	Se	82	6.854	ug/L	1.993	665	0.002
[	Kr	83		ug/L		340	0.001
[>	Lu	175		ug/L		521528	521527.637
[	Tl	205	40.233	ug/L	1.638	834105	1.598

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Be	9						
[>	Sc	45			96.3			
[	Ni	60						
[>	Ge	74			90.1			
[	As	75						
[	Se	77						
[	Se	82						
[	Kr	83						
[>	Lu	175			109.0			
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 1202041642

Sample Date/Time: Saturday, March 06, 2010 23:02:44

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 952564|10|baj

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: c:\elandata\Dataset\100305\1202041642.670

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.020	ug/L	4.636	1156	0.001
>	Sc	45		ug/L		761789	761788.542
[	Ni	60	2.481	ug/L	0.927	2980	0.004
[>	Ge	74		ug/L		324777	324777.035
	As	75	1.021	ug/L	33.591	1070	0.003
	Se	77		ug/L		4681	-0.011
	Se	82	0.098	ug/L	146.733	31	0.000
[	Kr	83		ug/L		129	0.000
[>	Lu	175		ug/L		481714	481713.924
[	Tl	205	0.092	ug/L	2.362	2627	0.004

Sample ID: 1202041642

Report Date/Time: Saturday, March 06, 2010 23:03:25

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45		92.0				
[	Ni	60						
[>	Ge	74		92.7				
[	As	75						
[	Se	77						
[	Se	82						
[	Kr	83						
[>	Lu	175		100.7				
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, March 06, 2010 23:06:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 8.671

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.884	ug/L	0.603	20297	0.026
[>	Sc	45		ug/L		778992	778992.495
[	Ni	60	52.284	ug/L	0.645	62495	0.080
[>	Ge	74		ug/L		334626	334625.864
[	As	75	49.226	ug/L	2.744	50039	0.149
[	Se	77		ug/L		10374	0.005
[	Se	82	50.086	ug/L	1.050	5013	0.015
[	Kr	83		ug/L		129	0.000
[>	Lu	175		ug/L		465739	465739.335
[	Tl	205	52.836	ug/L	1.485	978067	2.098

Sample ID: QC Std 8

Report Date/Time: Saturday, March 06, 2010 23:07:03

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9	105.767				
[>	Sc	45		94.1			
[	Ni	60	104.569				
[>	Ge	74		95.5			
	As	75	98.453				
	Se	77					
	Se	82	100.172				
[	Kr	83					
[>	Lu	175		97.3			
[	Ti	205	105.672				

### 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: Saturday, March 06, 2010 23:10:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 9.672

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.011	ug/L	94.444	28	0.000
[>	Sc	45		ug/L		764440	764439.628
[	Ni	60	0.009	ug/L	66.230	94	0.000
[>	Ge	74		ug/L		329358	329357.674
	As	75	-0.023	ug/L	1558.028	42	-0.000
	Se	77		ug/L		7838	-0.002
	Se	82	-0.040	ug/L	440.561	17	-0.000
[	Kr	83		ug/L		108	0.000
[>	Lu	175		ug/L		464944	464943.515
[	Tl	205	0.239	ug/L	4.895	5230	0.009

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			92.3			
[	Ni	60						
[>	Ge	74			94.0			
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175			97.2			
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679002

Sample Date/Time: Saturday, March 06, 2010 23:13:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679002.673

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	7.671	ug/L	1.061	2929	0.004
[>	Sc	45		ug/L		769362	769362.093
[	Ni	60	4.740	ug/L	3.086	5672	0.007
[>	Ge	74		ug/L		323325	323324.764
[	As	75	3.156	ug/L	1.091	3158	0.010
[	Se	77		ug/L		4010	-0.013
[	Se	82	0.463	ug/L	37.899	66	0.000
[	Kr	83		ug/L		232	0.000
[>	Lu	175		ug/L		511652	511651.854
[	Tl	205	0.180	ug/L	0.232	4563	0.007

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45			92.9			
[	Ni	60						
[>	Ge	74			92.3			
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175			106.9			
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected



## ICPMS#5 - Summary Report

Sample ID: 246679003

Sample Date/Time: Saturday, March 06, 2010 23:17:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|ba|

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: c:\elandata\Dataset\100305\246679003.674

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.207	ug/L	1.954	489	0.001
[>	Sc	45		ug/L		781914	781913.995
[	Ni	60	4.707	ug/L	1.957	5726	0.007
[>	Ge	74		ug/L		326685	326685.430
[	As	75	0.573	ug/L	18.278	630	0.002
[	Se	77		ug/L		4039	-0.014
[	Se	82	0.218	ug/L	69.080	42	0.000
[	Kr	83		ug/L		185	0.000
[>	Lu	175		ug/L		497076	497076.041
[	Tl	205	0.058	ug/L	1.653	2037	0.002

Sample ID: 246679003

Report Date/Time: Saturday, March 06, 2010 23:18:09

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			94.4		
[	Ni	60					
[>	Ge	74			93.3		
	As	75					
	Se	77					
!	Se	82					
[	Kr	83					
[>	Lu	175			103.9		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679004

Sample Date/Time: Saturday, March 06, 2010 23:21:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|ba|

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679004.675

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	42.174	ug/L	1.455	16539	0.021
>	Sc	45		ug/L		795791	795791.302
[	Ni	60	17.147	ug/L	3.012	20991	0.026
[>	Ge	74		ug/L		307860	307860.174
	As	75	5.284	ug/L	5.534	4994	0.016
	Se	77		ug/L		3648	-0.014
	Se	82	-0.930	ug/L	29.873	-65	-0.000
[	Kr	83		ug/L		334	0.001
[>	Lu	175		ug/L		489714	489713.929
[	Tl	205	0.404	ug/L	3.100	8728	0.016

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
[>	Sc	45		96.1				
[	Ni	60						
[>	Ge	74		87.9				
	As	75						
	Se	77						
	Se	82						
[	Kr	83						
[>	Lu	175		102.4				
[	Tl	205						

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679005

Sample Date/Time: Saturday, March 06, 2010 23:24:54

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679005.676

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.658	ug/L	3.677	638	0.001
[>	Sc	45		ug/L		752144	752144.451
[	Ni	60	3.223	ug/L	2.706	3797	0.005
[>	Ge	74		ug/L		319872	319871.539
	As	75	0.831	ug/L	26.879	868	0.003
	Se	77		ug/L		3757	-0.014
	Se	82	0.265	ug/L	91.830	46	0.000
[	Kr	83		ug/L		168	0.000
[>	Lu	175		ug/L		492652	492652.485
[	Tl	205	0.024	ug/L	8.814	1352	0.001

Sample ID: 246679005

Report Date/Time: Saturday, March 06, 2010 23:25:34

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999



### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
>	Sc	45		90.8			
[	Ni	60					
[>	Ge	74		91.3			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		103.0			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679006

Sample Date/Time: Saturday, March 06, 2010 23:28:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679006.677

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	1.407	ug/L	10.919	559	0.001
>	Sc	45		ug/L		771345	771344.798
[	Ni	60	3.331	ug/L	0.587	4021	0.005
[>	Ge	74		ug/L		324814	324814.229
	As	75	0.809	ug/L	30.231	860	0.002
	Se	77		ug/L		3931	-0.014
	Se	82	0.137	ug/L	139.704	34	0.000
[	Kr	83		ug/L		181	0.000
[>	Lu	175		ug/L		489686	489686.393
[	Tl	205	0.014	ug/L	12.150	1140	0.001

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Sample ID: 246679006

Report Date/Time: Saturday, March 06, 2010 23:29:16

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		93.2			
[	Ni	60					
[>	Ge	74		92.7			
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175		102.4			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679007

Sample Date/Time: Saturday, March 06, 2010 23:32:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679007.678

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	4.128	ug/L	4.976	1648	0.002
>	Sc	45		ug/L		798831	798831.276
[	Ni	60	6.375	ug/L	3.967	7891	0.010
[>	Ge	74		ug/L		333493	333493.244
	As	75	2.035	ug/L	20.428	2125	0.006
	Se	77		ug/L		4037	-0.014
	Se	82	0.578	ug/L	34.396	79	0.000
[	Kr	83		ug/L		252	0.000
[>	Lu	175		ug/L		533215	533214.724
[	Tl	205	0.031	ug/L	2.446	1612	0.001

## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45		96.5			
[	Ni	60					
[>	Ge	74		95.2			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		111.5			
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: 246679008

Sample Date/Time: Saturday, March 06, 2010 23:36:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 952564|2|baj

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\246679008.679

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	11.492	ug/L	1.550	4415	0.006
>	Sc	45		ug/L		776472	776472.101
[	Ni	60	11.325	ug/L	2.362	13558	0.017
[>	Ge	74		ug/L		312475	312474.807
	As	75	3.327	ug/L	2.863	3216	0.010
	Se	77		ug/L		3546	-0.015
	Se	82	-0.000	ug/L	28240.590	20	-0.000
[	Kr	83		ug/L		266	0.001
[>	Lu	175		ug/L		502980	502979.781
[	Tl	205	0.248	ug/L	2.865	5853	0.010

Sample ID: 246679008

Report Date/Time: Saturday, March 06, 2010 23:36:42

Page 1



## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			93.8		
[	Ni	60					
[>	Ge	74			89.2		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			105.1		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, March 06, 2010 23:39:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 6.680

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.780	ug/L	2.091	20116	0.026
[>	Sc	45		ug/L		759361	759360.828
[	Ni	60	51.835	ug/L	1.870	60404	0.079
[>	Ge	74		ug/L		325423	325422.641
	As	75	50.056	ug/L	1.402	49499	0.152
	Se	77		ug/L		10157	0.005
	Se	82	50.977	ug/L	2.189	4962	0.015
[	Kr	83		ug/L		118	0.000
[>	Lu	175		ug/L		463284	463283.981
[	Tl	205	53.181	ug/L	2.097	978941	2.112

Sample ID: QC Std 6

Report Date/Time: Saturday, March 06, 2010 23:40:19

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	107.560				
>	Sc	45		91.7			
[	Ni	60	103.671				
[>	Ge	74		92.9			
	As	75	100.113				
	Se	77					
	Se	82	101.955				
[	Kr	83					
[>	Lu	175		96.8			
[	Tl	205	106.362				

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected

## ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, March 06, 2010 23:43:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: c:\elandata\Dataset\100305\QC Std 7.681

### Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.006	ug/L	303.107	22	-0.000
[>	Sc	45		ug/L		759097	759097.059
[	Ni	60	0.001	ug/L	614.173	84	0.000
[>	Ge	74		ug/L		326090	326090.329
	As	75	-0.468	ug/L	25.315	-402	-0.001
	Se	77		ug/L		7673	-0.002
	Se	82	-0.067	ug/L	474.163	15	-0.000
[	Kr	83		ug/L		117	0.000
[>	Lu	175		ug/L		460590	460589.614
[	Tl	205	0.234	ug/L	6.792	5091	0.009

Sample ID: QC Std 7

Report Date/Time: Saturday, March 06, 2010 23:43:59

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## Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear 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	0.9999

### QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
[>	Sc	45			91.7		
[	Ni	60					
[>	Ge	74			93.1		
	As	75					
	Se	77					
	Se	82					
[	Kr	83					
[>	Lu	175			96.3		
[	Tl	205					

### QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

### QC Action

QC Action Line: No QC out of limits detected



Method Name: SOIL  
 Method Description: 7471A, ILM04 ANALYST JXL1  
 Element: Hg

Date: 02/24/2010  
 Technique: FI-MHS  
 Calibration Type:  
 Hg, Calc. Intercept : Linear  
 Wavelength: 253.7 nm  
 Sample Info Name: 022410S1.SIF

Results Data Set Name: 022410S1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 02/24/2010  
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0037	0.0037	09:52:57	No
2			0.0036	0.0036	09:53:32	No
Mean:			0.0037			
SD :			0.0000			
%RSD:			0.4405			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 02/24/2010  
 Sample ID: S0.2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0024	0.0060	09:54:55	No
2			0.0023	0.0059	09:55:30	No
Mean:			0.0023			
SD :			0.0001			
%RSD:			3.2692			

[Hg] Standard number 1 applied. [0.200]  
 Correlation Coefficient: 1.00000 Slope: 0.01163  
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 02/24/2010  
 Sample ID: S0.5

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0049	0.0085	09:56:53	No
2			0.0049	0.0086	09:57:28	No
Mean:			0.0049			
SD :			0.0000			
%RSD:			0.2995			

[Hg] Standard number 2 applied. [0.500]  
 Correlation Coefficient: 0.99635 Slope: 0.00971  
 Intercept : 0.00014

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 02/24/2010  
 Sample ID: S2.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0188	0.0224	09:58:53	No
2			0.0182	0.0219	09:59:28	No
Mean:			0.0185			
SD :			0.0004			
%RSD:			2.1293			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99968  
Intercept : 0.00026

Slope: 0.00914

=====  
Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 02/24/2010  
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0460	0.0496	10:00:53	No
2			0.0454	0.0490	10:01:28	No
Mean:			0.0457			
SD :			0.0004			
%RSD:			0.9490			

[Hg] Standard number 4 applied. [5.000]  
Correlation Coefficient: 0.99995 Slope: 0.00909  
Intercept : 0.00029

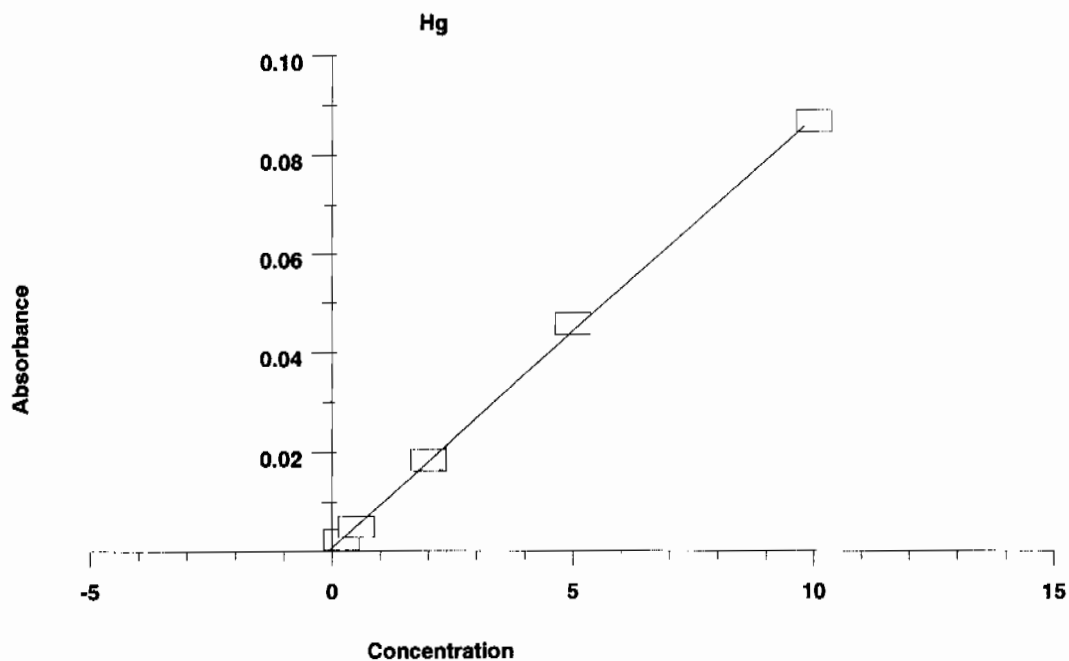
=====  
Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 02/24/2010  
Sample ID: S10

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0866	0.0902	10:02:55	No
2			0.0872	0.0909	10:03:29	No
Mean:			0.0869			
SD :			0.0005			
%RSD:			0.5509			

[Hg] Standard number 5 applied. [10.00]  
Correlation Coefficient: 0.99970 Slope: 0.00870  
Intercept : 0.00073

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0037	---	---	---	---
S0.2	0.0023	0.200	0.184	0.0001	3.3
S0.5	0.0049	0.500	0.480	0.0000	0.3
S2.0	0.0185	2.000	2.043	0.0004	2.1
S5.0	0.0457	5.000	5.170	0.0004	0.9
S10	0.0869	10.000	9.908	0.0005	0.6
Calib Blank	0.0037	---	---	---	---
Correlation Coefficient: 0.99970 Slope: 0.00870 Intercept: 0.0007					



=====  
 Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 02/24/2010  
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.226	5.226	0.0462	0.0498	10:04:57	No
2	5.186	5.186	0.0458	0.0495	10:05:32	No
Mean:	5.206	5.206	0.0460			
SD :	0.0283	0.0283	0.0002			
%RSD:	0.5	0.5	0.5344			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 02/24/2010  
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.043	-0.043	0.0004	0.0040	10:06:54	No
2	-0.053	-0.053	0.0003	0.0039	10:07:30	No
Mean:	-0.048	-0.048	0.0003			
SD :	0.0069	0.0069	0.0001			
%RSD:	14.2	14.2	19.2733			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 02/24/2010  
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.228	0.228	0.0027	0.0064	10:08:53	No
2	0.230	0.230	0.0027	0.0064	10:09:28	No
Mean:	0.229	0.229	0.0027			
SD :	0.0010	0.0010	0.0000			
%RSD:	0.4	0.4	0.3068			

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 02/24/2010

Sample ID: CCV

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.201	5.201	0.0460	0.0496	10:10:53	No
2	5.281	5.281	0.0467	0.0503	10:11:28	No
Mean:	5.241	5.241	0.0463			
SD :	0.0564	0.0564	0.0005			
%RSD:	1.1	1.1	1.0586			

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 02/24/2010

Sample ID: CCB

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.050	-0.050	0.0003	0.0039	10:12:56	No
2	-0.053	-0.053	0.0003	0.0039	10:13:31	No
Mean:	-0.051	-0.051	0.0003			
SD :	0.0021	0.0021	0.0000			
%RSD:	4.1	4.1	6.5260			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 02/24/2010

Sample ID: 1202047314|i||954961|MB

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0008	0.0045	10:14:57	No
2	0.007	0.007	0.0008	0.0044	10:15:32	No
Mean:	0.009	0.009	0.0008			
SD :	0.0035	0.0035	0.0000			
%RSD:	38.3	38.3	3.7409			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 02/24/2010

Sample ID: 1202047315|i||10||LCS

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.352	4.352	0.0386	0.0422	10:16:57	No
2	4.337	4.337	0.0385	0.0421	10:17:32	No
Mean:	4.345	4.345	0.0385			
SD :	0.0104	0.0104	0.0001			
%RSD:	0.2	0.2	0.2357			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 02/24/2010

Sample ID: 246847001|i|||

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.149	0.149	0.0020	0.0057	10:18:59	No
2	0.140	0.140	0.0019	0.0056	10:19:34	No
Mean:	0.145	0.145	0.0020			
SD :	0.0066	0.0066	0.0001			
%RSD:	4.6	4.6	2.9050			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 02/24/2010

Sample ID: 1202047316|i|||DUP

%RSD: 3.0 3.0 13.4597

=====

Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 02/24/2010  
 Sample ID: 1202047321|i|10|LCS

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.256	4.256	0.0377	0.0414	10:32:48	No
2	4.322	4.322	0.0383	0.0420	10:33:23	No
Mean:	4.289	4.289	0.0380			
SD :	0.0462	0.0462	0.0004			
%RSD:	1.1	1.1	1.0556			

=====

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 02/24/2010  
 Sample ID: CCV

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.067	5.067	0.0448	0.0484	10:34:48	No
2	5.197	5.197	0.0459	0.0496	10:35:23	No
Mean:	5.132	5.132	0.0454			
SD :	0.0918	0.0918	0.0008			
%RSD:	1.8	1.8	1.7609			

QC value within specified limits.

=====

Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 02/24/2010  
 Sample ID: CCB

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.067	-0.067	0.0001	0.0038	10:36:51	No
2	-0.065	-0.065	0.0002	0.0038	10:37:26	No
Mean:	-0.066	-0.066	0.0002			
SD :	0.0012	0.0012	0.0000			
%RSD:	1.9	1.9	6.8505			

QC value within specified limits.

=====

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 02/24/2010  
 Sample ID: 246854001|i|||

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.355	0.355	0.0038	0.0075	10:38:51	No
2	0.354	0.354	0.0038	0.0075	10:39:26	No
Mean:	0.355	0.355	0.0038			
SD :	0.0007	0.0007	0.0000			
%RSD:	0.2	0.2	0.1633			

=====

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 02/24/2010  
 Sample ID: 246854002|i|||

-----

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.358	0.358	0.0038	0.0075	10:40:49	No
2	0.368	0.368	0.0039	0.0076	10:41:25	No
Mean:	0.363	0.363	0.0039			
SD :	0.0073	0.0073	0.0001			
%RSD:	2.0	2.0	1.6312			

=====

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 02/24/2010  
 Sample ID: 246854003|i|||

%RSD: 0.4 0.4 0.3474

=====  
 Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 02/24/2010  
 Sample ID: 246854009|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.302	0.302	0.0034	0.0070	10:54:47	No
2	0.303	0.303	0.0034	0.0070	10:55:22	No
Mean:	0.302	0.302	0.0034			
SD :	0.0008	0.0008	0.0000			
%RSD:	0.3	0.3	0.2179			

=====  
 Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 02/24/2010  
 Sample ID: 246854010|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.491	0.491	0.0050	0.0087	10:56:49	No
2	0.484	0.484	0.0049	0.0086	10:57:24	No
Mean:	0.487	0.487	0.0050			
SD :	0.0054	0.0054	0.0000			
%RSD:	1.1	1.1	0.9475			

=====  
 Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 02/24/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.455	5.455	0.0482	0.0518	10:58:50	No
2	5.382	5.382	0.0475	0.0512	10:59:25	No
Mean:	5.419	5.419	0.0479			
SD :	0.0513	0.0513	0.0004			
%RSD:	0.9	0.9	0.9325			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 02/24/2010  
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.064	-0.064	0.0002	0.0038	11:00:53	No
2	-0.081	-0.081	0.0000	0.0037	11:01:27	No
Mean:	-0.073	-0.073	0.0001			
SD :	0.0117	0.0117	0.0001			
%RSD:	16.1	16.1	104.0019			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 02/24/2010  
 Sample ID: 246854011|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.306	0.306	0.0034	0.0070	11:02:51	No
2	0.300	0.300	0.0033	0.0070	11:03:26	No
Mean:	0.303	0.303	0.0034			
SD :	0.0042	0.0042	0.0000			
%RSD:	1.4	1.4	1.0833			

=====  
 Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 02/24/2010  
 Sample ID: 246861001|i|||

%RSD: 3.0 3.0 2.5220

=====  
 Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 02/24/2010  
 Sample ID: 246861003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.439	0.439	0.0045	0.0082	11:16:25	No
2	0.432	0.432	0.0045	0.0081	11:16:59	No
Mean:	0.435	0.435	0.0045			
SD :	0.0050	0.0050	0.0000			
%RSD:	1.2	1.2	0.9665			

=====  
 Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 02/24/2010  
 Sample ID: 246861004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.285	0.285	0.0032	0.0069	11:18:23	No
2	0.276	0.276	0.0031	0.0068	11:18:58	No
Mean:	0.281	0.281	0.0032			
SD :	0.0060	0.0060	0.0001			
%RSD:	2.1	2.1	1.6482			

=====  
 Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 02/24/2010  
 Sample ID: 246861005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.172	0.172	0.0022	0.0059	11:20:22	No
2	0.148	0.148	0.0020	0.0057	11:20:57	No
Mean:	0.160	0.160	0.0021			
SD :	0.0169	0.0169	0.0001			
%RSD:	10.5	10.5	6.9136			

=====  
 Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 02/24/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.220	5.220	0.0461	0.0498	11:22:22	No
2	5.227	5.227	0.0462	0.0498	11:22:57	No
Mean:	5.224	5.224	0.0462			
SD :	0.0050	0.0050	0.0000			
%RSD:						

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 02/24/2010  
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.047	-0.047	0.0003	0.0040	11:24:25	No
2	-0.059	-0.059	0.0002	0.0039	11:25:00	No
Mean:	-0.053	-0.053	0.0003			
SD :	0.0086	0.0086	0.0001			
%RSD:	16.3	16.3	27.5383			

=====  
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 02/24/2010  
 Sample ID: 246861006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.316	0.316	0.0035	0.0071	11:27:35	No
2	0.317	0.317	0.0035	0.0071	11:28:11	No
Mean:	0.317	0.317	0.0035			
SD :	0.0010	0.0010	0.0000			
%RSD:	0.3	0.3	0.2584			

=====  
 Element: Hg Seq. No.: 49 AS Loc.: 43 Date: 02/24/2010  
 Sample ID: 246861007|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	1.339	1.339	0.0124	0.0160	11:29:36	No
2	1.312	1.312	0.0121	0.0158	11:30:11	No
Mean:	1.325	1.325	0.0123			
SD :	0.0194	0.0194	0.0002			
%RSD:	1.5	1.5	1.3760			

=====  
 Element: Hg Seq. No.: 50 AS Loc.: 44 Date: 02/24/2010  
 Sample ID: 246861008|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	18.43	18.43	0.1610	0.1646	11:31:37	No
Sample absorbance is greater than that of the highest standard.						
2	18.55	18.55	0.1621	0.1657	11:32:12	No
Sample absorbance is greater than that of the highest standard.						
Mean:	18.49	18.49	0.1615			
SD :	0.0868	0.0868	0.0008			
%RSD:	0.5	0.5	0.4673			
Sample absorbance is greater than that of the highest standard.						

=====  
 Element: Hg Seq. No.: 51 AS Loc.: 45 Date: 02/24/2010  
 Sample ID: 246861009|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	6.485	6.485	0.0571	0.0608	11:33:38	No
2	6.505	6.505	0.0573	0.0610	11:34:13	No
Mean:	6.495	6.495	0.0572			
SD :	0.0137	0.0137	0.0001			
%RSD:	0.2	0.2	0.2081			

=====  
 Element: Hg Seq. No.: 52 AS Loc.: 46 Date: 02/24/2010  
 Sample ID: 1202047366|i||954989|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.090	-0.090	-0.0001	0.0036	11:35:40	No
2	-0.092	-0.092	-0.0001	0.0036	11:36:15	No
Mean:	-0.091	-0.091	-0.0001			
SD :	0.0011	0.0011	0.0000			
%RSD:	1.2	1.2	15.1967			

=====  
 Element: Hg Seq. No.: 53 AS Loc.: 47 Date: 02/24/2010  
 Sample ID: 1202047367|i|10|LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.272	4.272	0.0379	0.0415	11:37:42	No
2	4.272	4.272	0.0379	0.0415	11:38:17	No



Mean: 4.272 4.272 0.0379  
 SD : 0.0007 0.0007 0.0000  
 %RSD:

=====  
 Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 02/24/2010  
 Sample ID: 246679001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.015	-0.015	0.0006	0.0042	11:39:41	No
2	-0.018	-0.018	0.0006	0.0042	11:40:17	No
Mean:	-0.017	-0.017	0.0006			
SD :	0.0018	0.0018	0.0000			
%RSD:	11.0	11.0	2.7335			

=====  
 Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 02/24/2010  
 Sample ID: 246679002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.031	-0.031	0.0005	0.0041	11:41:36	No
2	-0.028	-0.028	0.0005	0.0041	11:42:11	No
Mean:	-0.029	-0.029	0.0005			
SD :	0.0024	0.0024	0.0000			
%RSD:	8.1	8.1	4.3327			

=====  
 Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 02/24/2010  
 Sample ID: 246679003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.083	-0.083	0.0000	0.0037	11:43:31	No
2	-0.103	-0.103	-0.0002	0.0035	11:44:05	No
Mean:	-0.093	-0.093	-0.0001			
SD :	0.0142	0.0142	0.0001			
%RSD:	15.2	15.2	149.5096			

=====  
 Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 02/24/2010  
 Sample ID: 246679004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.187	0.187	0.0024	0.0060	11:45:25	No
2	0.183	0.183	0.0023	0.0060	11:46:00	No
Mean:	0.185	0.185	0.0023			
SD :	0.0032	0.0032	0.0000			
%RSD:	1.7	1.7	1.1801			

=====  
 Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 02/24/2010  
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.451	5.451	0.0481	0.0518	11:47:24	No
2	5.401	5.401	0.0477	0.0514	11:47:59	No
Mean:	5.426	5.426	0.0479			
SD :	0.0358	0.0358	0.0003			
%RSD:	0.7	0.7	0.6489			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 02/24/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	-0.087	-0.087	0.0000	0.0036	11:49:27	No
2	-0.086	-0.086	0.0000	0.0036	11:50:02	No
Mean:	-0.087	-0.087	0.0000			
SD :	0.0006	0.0006	0.0000			
%RSD:	0.7	0.7	21.0794			

QC value within specified limits.

=====  
 Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 02/24/2010  
 Sample ID: 246679005|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	-0.089	-0.089	0.0000	0.0036	11:51:28	No
2	-0.076	-0.076	0.0001	0.0037	11:52:04	No
Mean:	-0.083	-0.083	0.0000			
SD :	0.0091	0.0091	0.0001			
%RSD:	11.0	11.0	731.8591			

=====  
 Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 02/24/2010  
 Sample ID: 246679006|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	-0.076	-0.076	0.0001	0.0037	11:53:26	No
2	-0.097	-0.097	-0.0001	0.0035	11:54:01	No
Mean:	-0.086	-0.086	0.0000			
SD :	0.0148	0.0148	0.0001			
%RSD:	17.1	17.1	602.9581			

=====  
 Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 02/24/2010  
 Sample ID: 246679007|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	-0.095	-0.095	-0.0001	0.0036	11:55:23	No
2	-0.098	-0.098	-0.0001	0.0035	11:55:58	No
Mean:	-0.097	-0.097	-0.0001			
SD :	0.0019	0.0019	0.0000			
%RSD:	2.0	2.0	14.8445			

=====  
 Element: Hg Seq. No.: 63 AS Loc.: 55 Date: 02/24/2010  
 Sample ID: 246679008|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	0.265	0.265	0.0030	0.0067	11:57:21	No
2	0.277	0.277	0.0031	0.0068	11:57:56	No
Mean:	0.271	0.271	0.0031			
SD :	0.0085	0.0085	0.0001			
%RSD:	3.1	3.1	2.3972			

=====  
 Element: Hg Seq. No.: 64 AS Loc.: 56 Date: 02/24/2010  
 Sample ID: 246754001|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Height	Time	Peak Stored
1	0.191	0.191	0.0024	0.0060	11:59:20	No
2	0.175	0.175	0.0023	0.0059	11:59:55	No

Mean: 0.183 0.183 0.0023  
 SD : 0.0111 0.0111 0.0001  
 %RSD: 6.1 6.1 4.1638

=====  
 Element: Hg Seq. No.: 65 AS Loc.: 57 Date: 02/24/2010  
 Sample ID: 1202047368|i|||DUP  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.293	0.293	0.0033	0.0069	12:01:19	No
2	0.284	0.284	0.0032	0.0068	12:01:55	No
Mean:	0.288	0.288	0.0032			
SD :	0.0064	0.0064	0.0001			
%RSD:	2.2	2.2	1.7109			

=====  
 Element: Hg Seq. No.: 66 AS Loc.: 58 Date: 02/24/2010  
 Sample ID: 1202047369|i|||MS  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.759	2.759	0.0247	0.0284	12:03:19	No
2	2.720	2.720	0.0244	0.0280	12:03:54	No
Mean:	2.740	2.740	0.0246			
SD :	0.0274	0.0274	0.0002			
%RSD:	1.0	1.0	0.9711			

=====  
 Element: Hg Seq. No.: 67 AS Loc.: 59 Date: 02/24/2010  
 Sample ID: 1202047371|i|||MSD  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.561	2.561	0.0230	0.0267	12:05:18	No
2	2.602	2.602	0.0234	0.0270	12:05:53	No
Mean:	2.582	2.582	0.0232			
SD :	0.0289	0.0289	0.0003			
%RSD:	1.1	1.1	1.0849			

=====  
 Element: Hg Seq. No.: 68 AS Loc.: 60 Date: 02/24/2010  
 Sample ID: 1202047370|i|5||SDILT  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.122	-0.122	-0.0003	0.0033	12:07:18	No
2	-0.146	-0.146	-0.0005	0.0031	12:07:52	No
Mean:	-0.134	-0.134	-0.0004			
SD :	0.0169	0.0169	0.0001			
%RSD:	12.6	12.6	33.7468			

=====  
 Element: Hg Seq. No.: 69 AS Loc.: 61 Date: 02/24/2010  
 Sample ID: 246754002|i|||  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.010	-0.010	0.0006	0.0043	12:09:18	No
2	-0.014	-0.014	0.0006	0.0043	12:09:53	No
Mean:	-0.012	-0.012	0.0006			
SD :	0.0032	0.0032	0.0000			
%RSD:	26.2	26.2	4.4308			

=====  
 Element: Hg Seq. No.: 70 AS Loc.: 7 Date: 02/24/2010  
 Sample ID: CCV  
 =====

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      5.305      5.305      0.0469    0.0505    12:11:19    No
2      5.287      5.287      0.0467    0.0504    12:11:53    No
Mean:   5.296      5.296      0.0468
SD :    0.0131     0.0131     0.0001
%RSD:   0.2        0.2        0.2439
QC value within specified limits.

```

```

=====
Element: Hg      Seq. No.: 71      AS Loc.: 8      Date: 02/24/2010
Sample ID: CCB

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      -0.093     -0.093    -0.0001    0.0036    12:13:22    No
2      -0.090     -0.090    -0.0001    0.0036    12:13:57    No
Mean:   -0.092     -0.092    -0.0001
SD :    0.0025     0.0025     0.0000
%RSD:   2.7        2.7       32.7252
QC value within specified limits.

```

```

=====
Element: Hg      Seq. No.: 72      AS Loc.: 62     Date: 02/24/2010
Sample ID: 246754003|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.389      0.389      0.0041    0.0078    12:15:23    No
2      0.377      0.377      0.0040    0.0077    12:15:58    No
Mean:   0.383      0.383      0.0041
SD :    0.0090     0.0090     0.0001
%RSD:   2.3        2.3       1.9256

```

```

=====
Element: Hg      Seq. No.: 73      AS Loc.: 63     Date: 02/24/2010
Sample ID: 246754004|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      1.720      1.720      0.0157    0.0193    12:17:21    No
2      1.734      1.734      0.0158    0.0195    12:17:56    No
Mean:   1.727      1.727      0.0158
SD :    0.0101     0.0101     0.0001
%RSD:   0.6        0.6       0.5590

```

```

=====
Element: Hg      Seq. No.: 74      AS Loc.: 64     Date: 02/24/2010
Sample ID: 246754005|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.132      0.132      0.0019    0.0055    12:19:16    No
2      0.124      0.124      0.0018    0.0055    12:19:51    No
Mean:   0.128      0.128      0.0018
SD :    0.0053     0.0053     0.0000
%RSD:   4.1        4.1       2.4887

```

```

=====
Element: Hg      Seq. No.: 75      AS Loc.: 65     Date: 02/24/2010
Sample ID: 246754006|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.670      0.670      0.0066    0.0102    12:21:11    No
2      0.621      0.621      0.0061    0.0098    12:21:45    No

```

# Miscellaneous

# Prep LogBook

Analyst: LYH1  
 Batch: 952563  
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: \_\_\_\_\_

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202041640		SW846 3050B	18-FEB-2010 09:00	<2	0.511 g	50 mL	97.84736	.504	g
LCS	1202041645		SW846 3050B	18-FEB-2010 09:00	<2	0.504 g	50 mL	99.20635	.5	mL
SAMPLE	246679001		SW846 3050B	18-FEB-2010 09:00	<2	0.524 g	50 mL	95.41985	.5	mL
DUP	1202041641	246679001	SW846 3050B	18-FEB-2010 09:00	<2	0.501 g	50 mL	99.8004	.5	mL
SDILT	1202041642	246679001	SW846 3050B	18-FEB-2010 09:00	<2	0.524 g	50 mL	95.41985	.5	mL
MS	1202041643	246679001	SW846 3050B	18-FEB-2010 09:00	<2	0.503 g	50 mL	99.40358	.5	mL
MSD	1202041644	246679001	SW846 3050B	18-FEB-2010 09:00	<2	0.524 g	50 mL	95.41985	.5	mL
SAMPLE	246679002		SW846 3050B	18-FEB-2010 09:00	<2	0.514 g	50 mL	97.27626	.5	mL
SAMPLE	246679003		SW846 3050B	18-FEB-2010 09:00	<2	0.503 g	50 mL	99.40358	.5	mL
SAMPLE	246679004		SW846 3050B	18-FEB-2010 09:00	<2	0.5 g	50 mL	100	.5	mL
SAMPLE	246679005		SW846 3050B	18-FEB-2010 09:00	<2	0.516 g	50 mL	96.89922	.5	mL
SAMPLE	246679006		SW846 3050B	18-FEB-2010 09:00	<2	0.501 g	50 mL	99.8004	.5	mL
SAMPLE	246679007		SW846 3050B	18-FEB-2010 09:00	<2	0.541 g	50 mL	92.42144	.5	mL
SAMPLE	246679008		SW846 3050B	18-FEB-2010 09:00	<2	0.5 g	50 mL	100	.5	mL

Comments

# Prep LogBook

Analyst: BCDJ Verified by: \_\_\_\_\_  
 Batch: 951772  
 Lab SOP: GL-MA-E-009 REV# 19

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Type	Sample Id	Lot. Id	Spike Amount	Spike Units
MB	1202039807		SW846 3050B	21-FEB-2010 09:25	LCS	1202039808	U1062540-1	.501	g
LCS	1202039808		SW846 3050B	21-FEB-2010 09:25	MS	1202039810	U11268741-01	.25	mL
SAMPLE	246679001		SW846 3050B	21-FEB-2010 09:25	MS	1202039810	U11268744-06	.25	mL
DUP	1202039809	246679001	SW846 3050B	21-FEB-2010 09:25	MSD	1202039812	U11268741-01	.25	mL
MS	1202039810	246679001	SW846 3050B	21-FEB-2010 09:25	MSD	1202039812	U11268744-06	.25	mL
MSD	1202039812	246679001	SW846 3050B	21-FEB-2010 09:25					
SDILT	1202039811	246679001	SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679002		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679003		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679004		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679005		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679006		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679007		SW846 3050B	21-FEB-2010 09:25					
SAMPLE	246679008		SW846 3050B	21-FEB-2010 09:25					

Reagent/Solvent Lot ID Amount Description  
 1265209 10 mL HYDROCHLORIC ACID  
 1268732 1.25 mL Nitric Acid CONC.

Comments The QC sample is a grey, rocky soil.

# Prep LogBook

Analyst: TXB3  
Batch: 954986  
Lab SOP: GL-MA-E-010 REV# 2.3

Verified by: \_\_\_\_\_  
Type: LCS  
Sample Id: 1202047367  
Lot Id: UI031809A  
Spike Amount: .204  
Spike Units: g  
MS  
1202047369  
WHG100223-14  
.3  
mL  
MSD  
1202047371  
WHG100223-14  
.3  
mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Type	Sample Id	Lot Id	Spike Amount	Spike Units
MB	1202047366		SW846 7471A Prep	23-FEB-2010 19:00	LCS	1202047367	UI031809A	.204	g
LCS	1202047367		SW846 7471A Prep	23-FEB-2010 19:00	MS	1202047369	WHG100223-14	.3	mL
SAMPLE	246679001		SW846 7471A Prep	23-FEB-2010 19:00	MSD	1202047371	WHG100223-14	.3	mL
SAMPLE	246679002		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679003		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679004		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679005		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679006		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679007		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246679008		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754001		SW846 7471A Prep	23-FEB-2010 19:00					
DUP	1202047368	246754001	SW846 7471A Prep	23-FEB-2010 19:00					
MS	1202047369	246754001	SW846 7471A Prep	23-FEB-2010 19:00					
MSD	1202047371	246754001	SW846 7471A Prep	23-FEB-2010 19:00					
SDILT	1202047370	246754001	SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754002		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754003		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754004		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754005		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754006		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754007		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754008		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754009		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754010		SW846 7471A Prep	23-FEB-2010 19:00					
SAMPLE	246754011		SW846 7471A Prep	23-FEB-2010 19:00					

Reagent/Solvent Lot ID	Amount	Description
1264796-A	1.125 mL	Hydrochloric Acid Conc.
1257474-1	.375 mL	NITRIC ACID
1264984-C	7.5 mL	5% KMnO4 solution
1255532-C	2 mL	Hg reducing agent

Comments: Sample 246754001 is a dry brown soil.  
Digestion Start Date: 23-FEB-10 19:00  
Digestion End Date: 23-FEB-10 19:30

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GEL Laboratories LLC

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Prep LogBook

WHG100223-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100223-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100223-11	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100223-09	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100223-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
WHG100223-12	750 uL	Mercury Working 2nd Source S 5.0/ICV

### DATA EXCEPTION REPORT

**Mo.Day Yr.**  
24-FEB-10

**Division:**  
Industrial

**Quality Criteria:**  
Specifications

**Type:**  
Process

**Instrument Type:**  
MERCURY

**Test / Method:**  
SW846 7471A

**Matrix Type:**  
Solid

**Client Code:**  
LANL

**Batch ID:**  
954989

**Sample Numbers:**  
See Below

**Potentially affected work order(s)(SDG):** 246679(10-1704),246754(10-1714)

**Application Issues:**

Failed Recovery for MS/PS

**Specification and Requirements  
Exception Description:**

1. Failed Recovery for MS/PS:

QC 1202047369MS

**DER Disposition:**

1. The matrix spike recovery failed outside of the control limits for Hg due to possible matrix interferences and/or non-homogeneity. Sample is a dry brown soil. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

**Originator's Name:**

Jason Loy

24-FEB-10

**Data Validator/Group Leader:**

Eric Lawson

25-FEB-10

### DATA EXCEPTION REPORT

<b>Mo.Day Yr.</b> 07-MAR-10	<b>Division:</b> Industrial	<b>Quality Criteria:</b> Specifications	<b>Type:</b> Process
<b>Instrument Type:</b> ICP/MS	<b>Test / Method:</b> SW846 3050B/6020	<b>Matrix Type:</b> Solid	<b>Client Code:</b> LANL
<b>Batch ID:</b> 952564	<b>Sample Numbers:</b> See Below		

Potentially affected work order(s)(SDG): 246679(10-1704)

**Application Issues:**

Failed Recovery for MS/PS  
Failed RPD for MS/MSD, or PS/PSD  
Failed Recovery for MSD/PSD

**Specification and Requirements  
Exception Description:**

1. Failed Recovery for MS/PS:  
QC 1202041643MS
2. Failed RPD for MS/MSD, or PS/PSD:  
QC 1202041644MSD
3. Failed Recovery for MSD/PSD:  
QC 1202041644MSD

**DER Disposition:**

The matrix spike recovery failed outside of the control limits for As, Be, Ni, Se and Tl 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.

The matrix spike duplicate recovery failed outside of the control limits for Se 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.

The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for Be 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:**

Elizabeth Janssen 08-MAR-10

**Data Validator/Group Leader:**

Jamie Johnson 08-MAR-10

### DATA EXCEPTION REPORT

**Mo. Day Yr.**  
09-MAR-10

**Division:**  
Industrial

**Quality Criteria:**  
Specifications

**Type:**  
Process

**Instrument Type:**  
ICP

**Test / Method:**  
SW846 3050B/6010B

**Matrix Type:**  
Solid

**Client Code:**  
LANL

**Batch ID:**  
951773

**Sample Numbers:**  
See Below

**Potentially affected work order(s)(SDG): 246679(10-1704)**

**Application Issues:**

Failed Recovery for MS/PS

Failed RPD for DUP

Failed Recovery for MSD/PSD

**Specification and Requirements  
Exception Description:**

**DER Disposition:**

1. Failed Recovery for MS/PS:

QC 1202039810MS

2. Failed RPD for DUP:

QC 1202039809DUP

3. Failed Recovery for MSD/PSD:

QC 1202039812MSD

1./3. The matrix spike and matrix spike duplicate recovery failed outside of the control limits for magnesium and potassium 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 aluminum and chromium 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.

**Originator's Name:**

Helen Camello 09-MAR-10

**Data Validator/Group Leader:**

Christopher Louviere 09-MAR-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:** 31-JAN-12  
**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      **Expires:** 31-JAN-12  
**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:** 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

**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 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
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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:** UI090828-42      **Opened:** 16-SEP-09      **Amount :** 500 mL  
**Name:** TRACE ICP Na-1000SOUR      **Received:** 27-AUG-09      **Catalog Number :** 060011-02-03  
**Type:** Source Material      **Expires:** 01-MAR-10      **Lot Number :** 1017098  
**Employee:** Helen Camello      **Solvent :** 1%HNO3  
**Supplier:** Q2SI  
**Description:** Sodium 1000 +/- 3 ug/mL in 1% HNO3  
**Comments:** None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

**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% $\text{HNO}_3$ ,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:** 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% $\text{H}_2\text{O}$ ( $\text{NH}_4$ ) $2\text{SiF}_6$   
**Supplier:** o2si  
**Description:** Silicon 1000mg/L+/-0.3%in  $\text{H}_2\text{O}$ ( $\text{NH}_4$ ) $2\text{SiF}_6$   
**Comments:** None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

**Serial ID:** UI091015-A      **Opened:** 15-OCT-09      **Catalog Number :** 160067-03  
**Name:** ICP-MS DOE SOIL SPIKE      **Received:** 15-OCT-09      **Lot Number :** 1017142  
**Type:** Source Material      **Expires:** 15-OCT-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

# Standard Logbook

Analyte	Concentration	Analyte	Concentration
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

**Serial ID:** UI091015-B      **Opened:** 15-OCT-09      **Catalog Number :** 160067-03  
**Name:** ICP-MS DOE SOIL SPIKE      **Received:** 15-OCT-09      **Lot Number :** 1017142  
**Type:** Source Material      **Expires:** 15-OCT-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:** 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:** UI091217-06      **Opened:** 17-DEC-09      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master A      **Received:** 17-DEC-09      **Catalog Number :** 160055-01  
**Type:** Source Material      **Expires:** 17-DEC-10      **Lot Number :** 1018209  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 5% HNO3 100 cm2  
**Supplier:** 02SI  
**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:** UI091217-07      **Opened:** 17-DEC-09      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master B      **Received:** 17-DEC-09      **Catalog Number :** 160054-02  
**Type:** Source Material      **Expres:** 17-DEC-10      **Lot Number :** 1018210  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 5% HNO3 100 cm2  
**Supplier:** 02SI  
**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:** UI091217-08      **Opened:** 17-DEC-09      **Amount :** 250 mL  
**Name:** ICP-MS ICV/CCV Master C      **Received:** 17-DEC-09      **Catalog Number :** 160054-03  
**Type:** Source Material      **Expires:** 17-DEC-10      **Lot Number :** 1018211  
**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:** UI091217-12      **Opened:** 17-DEC-09      **Amount :** 250 mL  
**Name:** ICP-MS ICSAB Master B      **Received:** 17-DEC-09      **Catalog Number :** 160033-02  
**Type:** Source Material      **Expires:** 17-DEC-10      **Lot Number :** 1018212  
**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
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		

# Standard Logbook

**Serial ID:** UI091217-13      **Opened:** 17-DEC-09      **Amount :** 250 mL  
**Name:** ICP-MS ICSAB Master C      **Received:** 17-DEC-09      **Catalog Number :** 160033-03  
**Type:** Source Material      **Expires:** 17-DEC-10      **Lot Number :** 1016926  
**Employee:** Paul Boyd      **Solvent :** +/- 0.5% in 2% HNO3  
**Supplier:** 02SI  
**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:** UI100210-48      **Opened:** 11-FEB-10      **Amount :** 1000 mL  
**Name:** Trace ICP ICSA      **Received:** 10-FEB-10      **Catalog Number :** 160005-02  
**Type:** Source Material      **Expires:** 04-MAR-10      **Lot Number :** 1018807  
**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:** UI100211-40      **Opened:** 11-FEB-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD-A      **Received:** 10-FEB-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 11-FEB-11      **Lot Number :** 1018409  
**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

# Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	10000 ug/L	Zinc	15000 ug/L

**Serial ID:** UI100211-41      **Opened:** 11-FEB-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD B      **Received:** 10-FEB-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 11-FEB-11      **Lot Number :** 1018409  
**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:** UI100217-48      **Opened:** 04-MAR-10      **Amount :** 1000 mL  
**Name:** Trace ICP ICESA      **Received:** 17-FEB-10      **Catalog Number :** 160005-02  
**Type:** Source Material      **Expires:** 04-MAR-11      **Lot Number :** 1018878  
**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:** UI100219-11      **Opened:** 19-FEB-10      **Amount :** 1000 mL  
**Name:** ICP-MS ICESA Master A      **Received:** 19-FEB-10      **Catalog Number :** 160013-01-01L  
**Type:** Source Material      **Expires:** 19-FEB-11      **Lot Number :** 1018321  
**Employee:** Paul Boyd      **Solvent :** 2% HNO3  
**Supplier:** 02SI  
**Description:** ICP-MS ICESA 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:** UI100226-40      **Opened:** 26-FEB-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD-A      **Received:** 25-FEB-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 26-FEB-11      **Lot Number :** 1018981  
**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:** UI100226-41      **Opened:** 26-FEB-10      **Amount :** 500 mL  
**Name:** ICP HIGH RANGE STD B      **Received:** 25-FEB-10      **Catalog Number :** 160211-05-03  
**Type:** Source Material      **Expires:** 26-FEB-11      **Lot Number :** 1018981  
**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:** UI1268741-01      **Opened:** 11-FEB-10      **Lot Number :** 1018514  
**Name:** METALSPIKE-1      **Received:** 11-FEB-10  
**Type:** Source Material      **Expires:** 11-FEB-11  
**Employee:** Bryan Davis  
**Supplier:** OS2I  
**Description:** Metals Spike Mix I  
**Comments:** None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL



# Standard Logbook

Analyte	Concentration	Analyte	Concentration
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:** UI1268744-06      **Opened:** 11-FEB-10      **Lot Number :** 1018515  
**Name:** METALSPIKE-2      **Received:** 11-FEB-10  
**Type:** Source Material      **Expires:** 11-FEB-11  
**Employee:** Bryan Davis  
**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:** 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

# Standard Logbook

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
Vanadium	10 mg/L	Zinc	10 mg/L

**Serial ID:** UMS100226-02      **Opened:** 26-FEB-10      **Catalog Number :** ZGEL-102-250  
**Name:** ICPMSCalSPIKEA      **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

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
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:** 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

<b>Analyte</b>	<b>Concentration</b>	<b>Analyte</b>	<b>Concentration</b>
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

**Serial ID:** IHG100223-01      **Opened:** 23-FEB-10      **Instrument Id :** Mercury  
**Name:** MHGINTER1      **Received:** 23-FEB-10      **Pipet Id :** Minou1  
**Type:** Intermediate      **Expires:** 24-FEB-10      **Solvent :** 1mL HNO3 + TypeI H2O  
**Employee:** Tara Griffin  
**Supplier:** GEL  
**Description:** Mercury Intermediate 1st Source 200 ug/L  
**Comments:** Prepare fresh daily

<b>Parent Material</b>	<b>Analyte</b>	<b>Parent Conc.</b>	<b>Aliquot</b>	<b>Final Vol.</b>	<b>Final Conc.</b>
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

# Standard Logbook

**Serial ID:** IHG100223-02      **Opened:** 23-FEB-10      **Pipet Id :** Minou1  
**Name:** MHGINTER2      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Intermediate      **Expires:** 24-FEB-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:** WHG100223-07      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS0.2CRA      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-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.
IHG100223-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

**Serial ID:** WHG100223-08      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS0.5      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-MAR-10  
**Employee:** Tara Griffin      **Verified:** 20-JUL-07  
**Supplier:** GEL  
**Description:** Mercury Working Standard 1st Source CAL S 0.5  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100223-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

**Serial ID:** WHG100223-09      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS2.0      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-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.
IHG100223-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

# Standard Logbook

**Serial ID:** WHG100223-10      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS5.0CCV      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-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.
IHG100223-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

**Serial ID:** WHG100223-11      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKCALS10.0      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-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.
IHG100223-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

**Serial ID:** WHG100223-12      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGWORKS5.0ICV      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-MAR-10  
**Employee:** Tara Griffin      **Verified:** 20-JUL-07  
**Supplier:** GEL  
**Description:** Mercury Working 2nd Source S 5.0/ICV  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100223-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

**Serial ID:** WHG100223-14      **Opened:** 23-FEB-10      **Pipet Id :** Hg1289245  
**Name:** MHGSOILMSSPIKE      **Received:** 23-FEB-10      **Solvent :** 2% HNO3-1257474  
**Type:** Working      **Expires:** 02-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

# Standard Logbook

**Serial ID:** WI100226-42      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.1 PPM STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL and 1%HNO3 -1272839  
**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.
WI100226-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100226-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100226-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100226-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100226-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100226-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100226-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

# Standard Logbook

**Serial ID:** WI100226-43      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.5/CCV STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL and 1%HNO3 -1272839  
**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.
UI090828-42	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
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

# Standard Logbook

**Serial ID:** WI100226-44      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** TRACE ICP SCAL 1.0      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL and 1 %HNO3-1272839  
**Employee:** Helen Camello  
**Supplier:** o2si  
**Description:** Trace ICP Calibration Standard 1.0ppm  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI0911015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI0911015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI0911102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI0911102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI0911102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

# Standard Logbook

**Serial ID:** W100226-45      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** TRACE ICP S-10 STD      **Received:** 22-APR-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL and 1%HNO3 -1272839  
**Employee:** Helen Camello  
**Supplier:** GEL  
**Description:** TRACE ICP S-10 CALIBRATION STD.  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
UI090828-42	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

**Serial ID:** W100226-46      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** ICP TRACE ICV      **Received:** 25-SEP-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL AND 1%HNO3-1272839  
**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
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



# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100226-47      **Opened:** 26-FEB-10      **Balance Id :** 216  
**Name:** PQL Working Standard      **Received:** 30-JUN-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 27-FEB-10      **Solvent :** 3%HCL & 1%HNO3-1272839  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100308-42      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.1 PPM STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL and 1%HNO3 -1281689  
**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.
WI100308-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100308-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100308-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100308-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100308-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100308-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100308-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100308-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

**Serial ID:** WI100308-43      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP 0.5/CCV STD.      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL and 1%HNO3 -1281689  
**Employee:** Helen Carnello  
**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
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

# Standard Logbook

**Serial ID:** WI100308-44      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP SCAL 1.0      **Received:** 02-NOV-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL and 1 %HNO3-1281689  
**Employee:** Helen Camello  
**Supplier:** o2si  
**Description:** Trace ICP Calibration Standard 1.0ppm  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI0911015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI0911015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI0911102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI0911102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI0911102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI0911102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI0911102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

# Standard Logbook

**Serial ID:** W1100308-45      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** TRACE ICP S-10 STD      **Received:** 22-APR-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL and 1%HNO3 -1281689  
**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:** W1100308-46      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** ICP TRACE ICV      **Received:** 25-SEP-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL AND 1%HNO3-1281689  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WI100308-47      **Opened:** 08-MAR-10      **Balance Id :** 216  
**Name:** PQL Working Standard      **Received:** 30-JUN-09      **Pipet Id :** 3581809  
**Type:** Working      **Expires:** 09-MAR-10      **Solvent :** 3%HCL &1%HNO3-1281689  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WMS100306-04      **Opened:** 06-MAR-10      **Amount :** 50 mL  
**Name:** ICPMS Cal Standard 100      **Received:** 06-MAR-10      **Balance Id :** 4025216  
**Type:** Working      **Expires:** 07-MAR-10      **Pipet Id :** 3541598  
**Employee:** Elizabeth Janssen      **Solvent :** 2%HNO3/1%HCl-1276824  
**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
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

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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:** WMS100306-04A      **Opened:** 06-MAR-10      **Balance Id :** 4025216  
**Name:** ICPMS Cal Standard 10      **Received:** 06-MAR-10      **Pipet Id :** 3541598  
**Type:** Working      **Expires:** 07-MAR-10      **Solvent :** 2%HNO3/1%HCl - 1276824  
**Employee:** Elizabeth Janssen  
**Supplier:** GEL  
**Description:** ICPMS Calibration Standard (10 ppb)  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100306-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100306-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100306-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100306-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100306-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l



# Standard Logbook

<b>Parent Material</b>	<b>Analyte</b>	<b>Parent Conc.</b>	<b>Aliquot</b>	<b>Final Vol.</b>	<b>Final Conc.</b>
WMS100306-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

<b>Serial ID:</b> <u>WMS100306-05</u>	<b>Opened:</b> <u>06-MAR-10</u>	<b>Balance Id :</b> <u>40245216</u>
<b>Name:</b> <u>ICPMS ICV</u>	<b>Received:</b> <u>06-MAR-10</u>	<b>Pipet Id :</b> <u>3541598</u>
<b>Type:</b> <u>Working</u>	<b>Expires:</b> <u>07-MAR-10</u>	<b>Solvent :</b> <u>2%HNO3/1%HCl - 1276824</u>
<b>Employee:</b> <u>Elizabeth Janssen</u>		
<b>Supplier:</b> <u>GEL</u>		
<b>Description:</b> <u>ICPMS ICV</u>		
<b>Comments:</b> <u>None</u>		

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

# Standard Logbook

**Serial ID:** WMS100306-06      **Opened:** 06-MAR-10      **Balance Id :** 40245216  
**Name:** ICPMS CRDL      **Received:** 06-MAR-10      **Pipet Id :** 3820544  
**Type:** Working      **Expires:** 07-MAR-10      **Solvent :** 2%HNO3/1%HCl - 1276824  
**Employee:** Elizabeth Janssen  
**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
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:** WMS100306-07      **Opened:** 06-MAR-10      **Balance Id :** 40245216  
**Name:** ICPMS ICSA      **Received:** 06-MAR-10      **Lot Number :** 1010773  
**Type:** Working      **Expires:** 07-MAR-10      **Pipet Id :** 3541598  
**Employee:** Elizabeth Janssen      **Solvent :** 2%HNO3/1%HCl - 1276824  
**Supplier:** GEL  
**Description:** ICPMS ICSA  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

**Serial ID:** WMS100306-08      **Opened:** 06-MAR-10      **Balance Id :** 40245216  
**Name:** ICPMS ICSAB      **Received:** 06-MAR-10      **Pipet Id :** 1758088  
**Type:** Working      **Expires:** 07-MAR-10      **Solvent :** 2%HNO3/1%HCl - 1276824  
**Employee:** Elizabeth Janssen  
**Supplier:** GEL  
**Description:** ICPMS ICSAB  
**Comments:** None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

**Serial ID:** 100202      **Opened:** 02-FEB-10      **Lot Number :** 200930201  
**Name:** I-HCL      **Received:** 02-FEB-10  
**Type:** Reagent/Solvent      **Expires:** 02-FEB-11  
**Employee:** Francena Armstrong  
**Supplier:** J.T. BAKER  
**Description:** HYDROCHLORIC ACID  
**Comments:** None

**Serial ID:** 1100721TCLP      **Opened:** 16-APR-09      **Lot Number :** H02026 L  
**Name:** I-HNO3      **Received:** 02-APR-09  
**Type:** Reagent/Solvent      **Expires:** 02-APR-10  
**Employee:** Clifford Postell  
**Supplier:** BAKER  
**Description:** Nitric Acid CONC.  
**Comments:** None

**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

# Standard Logbook

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

---

Serial ID: 1257474-1      Opened: 20-JAN-10      Instrument Id : MERCURY  
Name: B-HNO3-MER      Received: 20-JAN-10      Lot Number : H20053  
Type: Reagent/Solvent      Expires: 20-JAN-11  
Employee: Tara Griffin  
Supplier: Mallinckrodt Chemicals  
Description: NITRIC ACID  
Comments: None

---

Serial ID: 1264796-A      Opened: 04-FEB-10      Lot Number : 200930201  
Name: B-HCl-MER      Received: 04-FEB-10  
Type: Reagent/Solvent      Expires: 04-FEB-11  
Employee: Tara Griffin  
Supplier: Aristar  
Description: Hydrochloric Acid Conc.  
Comments: None

---

Serial ID: 1264984-C      Opened: 04-FEB-10      Balance Id : BAL-002  
Name: B-KMnO4-MER      Received: 04-FEB-10  
Type: Reagent/Solvent      Expires: 20-JUL-10  
Employee: Tara Griffin  
Supplier: GEL  
Description: 5% KMnO4 solution  
Comments: None

---

# Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1265209      Opened: 04-FEB-10      Lot Number : J02039  
 Name: I-HCL      Received: 04-FEB-10      Preservative\_Id : 5 none  
 Type: Reagent/Solvent      Expires: 04-FEB-11  
 Employee: Bryan Davis  
 Supplier: J.T. BAKER  
 Description: HYDROCHLORIC ACID  
 Comments: None

Serial ID: 1268732      Opened: 11-FEB-10      Lot Number : H12022 L  
 Name: I-HNO3      Received: 11-FEB-10  
 Type: Reagent/Solvent      Expires: 11-FEB-11  
 Employee: Bryan Davis  
 Supplier: BAKER  
 Description: Nitric Acid CONC.  
 Comments: None

Serial ID: 1272839      Opened: 22-FEB-10      Amount : 20 L  
 Name: B-ICP-RINSE SOLN      Received: 12-FEB-10      Lot Number : H04040+G34050  
 Type: Reagent/Solvent      Expires: 28-FEB-10      Solvent : 3%HCL+1%HNO3  
 Employee: Helen Camello  
 Supplier: GEL  
 Description: 3%HCL+1%HNO3 RINSE SOLN.  
 Comments: None

Serial ID: 1276824      Opened: 01-MAR-10      Solvent : Type I Water  
 Name: B-2%HNO3/1%HCl-ICPMS      Received: 01-MAR-10  
 Type: Reagent/Solvent      Expires: 08-MAR-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.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

## Standard Logbook

Serial ID: 1281689      Opened: 08-MAR-10      Amount : 20 L  
Name: B-ICP-RINSE SOLN      Received: 01-MAR-10      Lot Number : H04040+G34050  
Type: Reagent/Solvent      Expires: 14-MAR-10      Solvent : 3%HCL+1%HNO3  
Employee: Helen Camello  
Supplier: GEL  
Description: 3%HCL+1%HNO3 RINSE SOLN.  
Comments: None

---

# **General Chemistry Analysis**



# Case Narrative

**General Chemistry Narrative  
Los Alamos National Laboratory (LANL)  
SDG 10-1704**

**Method/Analysis Information**

**Product:** Cyanide, Total

**Analytical Batch:** 951954      **Method:** SW9012A Cyanide and Total

**Prep Batch :** 951953      **Method:** SSW846 9010B Prep

**Sample Analysis**

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

<b>Sample ID</b>	<b>Client ID</b>
246679001	RE15-10-8185
246679002	RE15-10-8183
246679003	RE15-10-8179
246679004	RE15-10-8184
246679005	RE15-10-8180
246679006	RE15-10-8181
246679007	RE15-10-8182
246679008	RE15-10-8210
1202040247	Method Blank (MB)
1202040248	246566004(RE46-10-11494) Sample Duplicate (DUP)
1202040249	246566005(RE46-10-11491) Sample Duplicate (DUP)
1202040250	246566004(RE46-10-11494) Matrix Spike (MS)
1202040251	246566005(RE46-10-11491) Matrix Spike (MS)
1202040252	246566004(RE46-10-11494) Matrix Spike Duplicate (MSD)
1202040253	246566005(RE46-10-11491) Matrix Spike Duplicate (MSD)
1202040254	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: 246566004 (RE46-10-11494) and 246566005 (RE46-10-11491).

**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. 1202040249 (RE46-10-11491).

**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: 1202040254 (LCS).

**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**

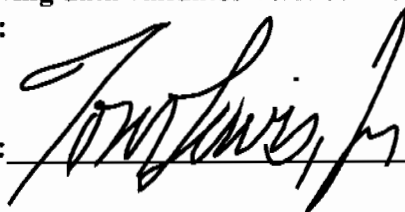
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

**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:



Date:

09Mar10

# Sample Data Summary

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - [www.gel.com](http://www.gel.com)

### Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1704 GEL Work Order: 246679

**The Qualifiers in this report are defined as follows:**

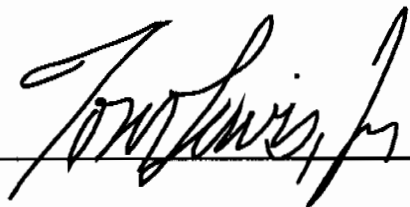
- \* Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- \*\* Indicates the analyte is a surrogate compound.

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

A handwritten signature in black ink, appearing to read "Tom Davis, Jr.", is written over a horizontal line.

# 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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8185  
Sample ID: 246679001  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 9.04%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.8	275	ug/kg	1	AXC2	02/18/10	1602	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	



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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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8183  
Sample ID: 246679002  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 3.1%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.2	258	ug/kg	1	AXC2	02/18/10	1603	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Los Alamos, New Mexico 87545

Contact: Ms. Joylene Valdez

Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8179  
Sample ID: 246679003  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.51%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	02/18/10	1604	951954	1

### **The following Prep Methods were performed**

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### **The following Analytical Methods were performed**

Method	Description	Analyst Comments
1	SW846 9012A	

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Los Alamos, New Mexico 87545

Contact: Ms. Joylene Valdez

Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8184  
Sample ID: 246679004  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 2.86%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	68.6	252	ug/kg	1	AXC2	02/18/10	1605	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8180  
Sample ID: 246679005  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.59%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.1	254	ug/kg	1	AXC2	02/18/10	1606	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8181  
Sample ID: 246679006  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 1.92%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.3	255	ug/kg	1	AXC2	02/18/10	1607	951954	I

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst	Comments
J	SW846 9012A		

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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 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8182  
Sample ID: 246679007  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 2.06%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.4	255	ug/kg	1	AXC2	02/18/10	1610	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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## Certificate of Analysis

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Los Alamos, New Mexico 87545  
Contact: Ms. Joylene Valdez  
Project: LANL ER Project

Report Date: March 5, 2010

Client SDG: 10-1704

Client Sample ID: RE15-10-8210  
Sample ID: 246679008  
Matrix: R  
Collect Date: 05-FEB-10 12:00  
Receive Date: 10-FEB-10  
Collector: Client  
Moisture: 6.75%

Project: LANL01004  
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
<b>Flow Injection Analysis</b>											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.1	258	ug/kg	1	AXC2	02/18/10	1610	951954	1

### The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/18/10	1450	951953

### The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

# **Quality Control Summary**



# GEL LABORATORIES LLC

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## QC Summary

Report Date: March 5, 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: 246679

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Flow Injection Analysis</b>											
Batch	951954										
QC1202040248	246566004	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	02/18/10	15:47
QC1202040249	246566005	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			02/18/10	15:51
QC1202040254	LCS										
Cyanide, Total	67900				67000	ug/kg	98.7	(32%-157%)		02/18/10	15:42
QC1202040247	MB										
Cyanide, Total			U		250	ug/kg				02/18/10	15:41
QC1202040250	246566004	MS									
Cyanide, Total	5370	U	ND		5860	ug/kg	109	(26%-158%)		02/18/10	15:48
QC1202040251	246566005	MS									
Cyanide, Total	4790	U	ND		4840	ug/kg	99.9	(26%-158%)		02/18/10	15:52
QC1202040252	246566004	MSD									
Cyanide, Total	4890	U	ND		5570	ug/kg	5.04	114	(0%-30%)	02/18/10	15:49
QC1202040253	246566005	MSD									
Cyanide, Total	4790	U	ND		5130	ug/kg	5.77	106	(0%-30%)	02/18/10	15:53

### 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

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### QC Summary

Workorder: 246679

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
		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									
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: 05-MAR-2010 08:20

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1704

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
<b>ICV</b>	<b>18-FEB-2010 10:15:42</b>	<b>OM_2-18-2010_10-05-11</b>	<b>162</b>	<b>150</b>	<b>108</b>	<b>(90%-110%)</b>	<b>Yes</b>
CCV	18-FEB-2010 15:30:55	OM_2-18-2010_15-02-39	103	100	103	(90%-110%)	Yes
CCV	18-FEB-2010 15:43:18	OM_2-18-2010_15-02-39	103	100	103	(90%-110%)	Yes
CCV	18-FEB-2010 15:55:50	OM_2-18-2010_15-02-39	103	100	103	(90%-110%)	Yes
CCV	18-FEB-2010 16:08:18	OM_2-18-2010_15-02-39	102	100	102	(90%-110%)	Yes
CCV	18-FEB-2010 16:18:53	OM_2-18-2010_15-02-39	100	100	100	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
<b>ICB</b>	<b>18-FEB-2010 10:17:32</b>	<b>OM_2-18-2010_10-05-11</b>	<b>-0.607</b>	<b>10</b>	<b>Yes</b>
CCB	18-FEB-2010 15:32:45	OM_2-18-2010_15-02-39	-1.05	10	Yes
CCB	18-FEB-2010 15:45:09	OM_2-18-2010_15-02-39	-1.15	10	Yes
CCB	18-FEB-2010 15:57:39	OM_2-18-2010_15-02-39	-0.819	10	Yes
CCB	18-FEB-2010 16:09:13	OM_2-18-2010_15-02-39	-1.11	10	Yes
CCB	18-FEB-2010 16:19:47	OM_2-18-2010_15-02-39	-0.912	10	Yes

# Cyanide, Total

# Prep LogBook

Analyst: AXS5  
Batch: 951953  
Lab SOP: GL-GC-E-067 REV# 13

Verified by: \_\_\_\_\_

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Lot. Id	Prep Factor	Spike Amount	Spike Units
MB	1202040247		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1200957-01	50	.25	g
LCS	1202040254		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.25 g	URF1269274-02	100	.025	mL
SAMPLE	246566004		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	49.01961	.025	mL
DUP	1202040248	246566004	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	50	.025	mL
MS	1202040250	246566004	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	45.45455	.025	mL
MSD	1202040252	246566004	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.55 g	URF1269274-02	50	.025	mL
SAMPLE	246566005		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	46.2963	.025	mL
DUP	1202040249	246566005	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.54 g	URF1269274-02	46.2963	.025	mL
MS	1202040251	246566005	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.54 g	URF1269274-02	46.2963	.025	mL
MSD	1202040253	246566005	SW846 9010B Prep	18-FEB-2010 14:50	>12	0.54 g	URF1269274-02	49.01961	.025	mL
SAMPLE	246566006		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	50	.025	mL
SAMPLE	246566007		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	46.2963	.025	mL
SAMPLE	246566008		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.54 g	URF1269274-02	46.2963	.025	mL
SAMPLE	246566009		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	49.01961	.025	mL
SAMPLE	246566010		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.56 g	URF1269274-02	44.64286	.025	mL
SAMPLE	246566011		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679001		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679002		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679003		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679004		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	49.01961	.025	mL
SAMPLE	246679005		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679006		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679007		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246679008		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.52 g	URF1269274-02	48.07692	.025	mL
SAMPLE	246688001		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246688003		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.5 g	URF1269274-02	50	.025	mL
SAMPLE	246688004		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	49.01961	.025	mL
SAMPLE	246688005		SW846 9010B Prep	18-FEB-2010 14:50	>12	0.51 g	URF1269274-02	49.01961	.025	mL

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description
100210-C	25 mL	0.25N Sodium Hydroxide Solution
WCN100218-07	.0375 mL	150 ppb CN Distilled ICV Standard
1270663-C	1.25 mL	0.8N H3NO3S
1260189-C	2.5 mL	50% H2SO4 CN Prep
1270669-C	1 mL	51% MgCl2 Soln
1270661-C	1.25 mL	Bismuth Nitrate Solution

Comments

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/18/2010 10:08:32	OM_2-18-2010_10-05-11
150 ppb		1	axc2	2/18/2010 10:09:24	OM_2-18-2010_10-05-11
100 ppb		1	axc2	2/18/2010 10:10:17	OM_2-18-2010_10-05-11
50 ppb		1	axc2	2/18/2010 10:11:10	OM_2-18-2010_10-05-11
10 ppb		1	axc2	2/18/2010 10:12:03	OM_2-18-2010_10-05-11
CRDL 5.0 ppb		1	axc2	2/18/2010 10:12:57	OM_2-18-2010_10-05-11
ICAL-00		1	axc2	2/18/2010 10:13:51	OM_2-18-2010_10-05-11
ICV		1	axc2	2/18/2010 10:15:42	OM_2-18-2010_10-05-11
ICB		1	axc2	2/18/2010 10:17:32	OM_2-18-2010_10-05-11
		1	axc2	2/18/2010 10:19:22	OM_2-18-2010_10-05-11
1202040210	951942	1	axc2	2/18/2010 10:21:11	OM_2-18-2010_10-05-11
1202040217	951942	25	axc2	2/18/2010 10:22:05	OM_2-18-2010_10-05-11
246554001	951942	1	axc2	2/18/2010 10:22:58	OM_2-18-2010_10-05-11
246554002	951942	1	axc2	2/18/2010 10:23:51	OM_2-18-2010_10-05-11
246554003	951942	1	axc2	2/18/2010 10:24:44	OM_2-18-2010_10-05-11
246554004	951942	1	axc2	2/18/2010 10:25:37	OM_2-18-2010_10-05-11
246592005	951942	1	axc2	2/18/2010 10:26:30	OM_2-18-2010_10-05-11
1202040211	951942	1	axc2	2/18/2010 10:27:22	OM_2-18-2010_10-05-11
1202040213	951942	1	axc2	2/18/2010 10:28:15	OM_2-18-2010_10-05-11
1202040215	951942	1	axc2	2/18/2010 10:29:07	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010 10:29:59	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010 10:31:49	OM_2-18-2010_10-05-11
246592006	951942	1	axc2	2/18/2010 10:33:37	OM_2-18-2010_10-05-11
1202040212	951942	1	axc2	2/18/2010 10:34:29	OM_2-18-2010_10-05-11
1202040214	951942	1	axc2	2/18/2010 10:35:21	OM_2-18-2010_10-05-11
1202040216	951942	1	axc2	2/18/2010 10:36:12	OM_2-18-2010_10-05-11
246592007	951942	1	axc2	2/18/2010 10:37:04	OM_2-18-2010_10-05-11
246592008	951942	1	axc2	2/18/2010 10:37:58	OM_2-18-2010_10-05-11
246592009	951942	1	axc2	2/18/2010 10:38:52	OM_2-18-2010_10-05-11
246592010	951942	1	axc2	2/18/2010 10:39:45	OM_2-18-2010_10-05-11
246592011	951942	1	axc2	2/18/2010 10:40:38	OM_2-18-2010_10-05-11
246607001	951942	1	axc2	2/18/2010 10:41:31	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010 10:42:23	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010 10:44:14	OM_2-18-2010_10-05-11
246607002	951942	1	axc2	2/18/2010 10:46:03	OM_2-18-2010_10-05-11
246607003*	951942	1	axc2	2/18/2010 10:46:55	OM_2-18-2010_10-05-11
246607004*	951942	1	axc2	2/18/2010 10:47:48	OM_2-18-2010_10-05-11
246607005	951942	1	axc2	2/18/2010 10:48:41	OM_2-18-2010_10-05-11
246607006	951942	1	axc2	2/18/2010 10:49:33	OM_2-18-2010_10-05-11
246611001	951942	1	axc2	2/18/2010 10:50:26	OM_2-18-2010_10-05-11
246611002	951942	1	axc2	2/18/2010 10:51:18	OM_2-18-2010_10-05-11
246611003	951942	1	axc2	2/18/2010 10:52:10	OM_2-18-2010_10-05-11
1202042848	953084	1	axc2	2/18/2010 10:53:02	OM_2-18-2010_10-05-11
1202042855	953084	25	axc2	2/18/2010 10:53:53	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010 10:54:46	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010 10:56:36	OM_2-18-2010_10-05-11
246837001	953084	1	axc2	2/18/2010 10:58:27	OM_2-18-2010_10-05-11
1202042850	953084	1	axc2	2/18/2010 10:59:21	OM_2-18-2010_10-05-11
1202042852	953084	1	axc2	2/18/2010 11:00:14	OM_2-18-2010_10-05-11
1202042854	953084	1	axc2	2/18/2010 11:01:06	OM_2-18-2010_10-05-11
246837002	953084	1	axc2	2/18/2010 11:02:00	OM_2-18-2010_10-05-11
246837003	953084	1	axc2	2/18/2010 11:02:53	OM_2-18-2010_10-05-11
246837004	953084	1	axc2	2/18/2010 11:03:46	OM_2-18-2010_10-05-11
246837005	953084	1	axc2	2/18/2010 11:04:39	OM_2-18-2010_10-05-11
246837006	953084	1	axc2	2/18/2010 11:05:32	OM_2-18-2010_10-05-11
246854011	953084	1	axc2	2/18/2010 11:06:24	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010 11:07:17	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010 11:09:07	OM_2-18-2010_10-05-11



1202042849	953084	1	axc2	2/18/2010	11:10:55	OM_2-18-2010_10-05-11
1202042851	953084	1	axc2	2/18/2010	11:11:47	OM_2-18-2010_10-05-11
1202042853	953084	1	axc2	2/18/2010	11:12:40	OM_2-18-2010_10-05-11
246870001	953084	1	axc2	2/18/2010	11:13:32	OM_2-18-2010_10-05-11
246870002	953084	1	axc2	2/18/2010	11:14:24	OM_2-18-2010_10-05-11
246870003	953084	1	axc2	2/18/2010	11:15:18	OM_2-18-2010_10-05-11
246870004	953084	1	axc2	2/18/2010	11:16:12	OM_2-18-2010_10-05-11
246870005	953084	1	axc2	2/18/2010	11:17:07	OM_2-18-2010_10-05-11
246870006	953084	1	axc2	2/18/2010	11:18:00	OM_2-18-2010_10-05-11
246870007	953084	1	axc2	2/18/2010	11:18:53	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010	11:19:46	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010	11:21:36	OM_2-18-2010_10-05-11
246870008	953084	1	axc2	2/18/2010	11:23:26	OM_2-18-2010_10-05-11
246870009	953084	1	axc2	2/18/2010	11:24:19	OM_2-18-2010_10-05-11
246900001	953084	1	axc2	2/18/2010	11:25:13	OM_2-18-2010_10-05-11
246900002	953084	1	axc2	2/18/2010	11:26:05	OM_2-18-2010_10-05-11
246901001	953084	1	axc2	2/18/2010	11:26:58	OM_2-18-2010_10-05-11
246901002	953084	1	axc2	2/18/2010	11:27:51	OM_2-18-2010_10-05-11
246607003	951942	1	axc2	2/18/2010	11:28:44	OM_2-18-2010_10-05-11
246607004	951942	1	axc2	2/18/2010	11:29:37	OM_2-18-2010_10-05-11
1202042899	953097	1	axc2	2/18/2010	11:30:29	OM_2-18-2010_10-05-11
1202042900	953097	1	axc2	2/18/2010	11:31:21	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010	11:32:14	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010	11:34:04	OM_2-18-2010_10-05-11
1202042901*	953097	1	axc2	2/18/2010	11:35:52	OM_2-18-2010_10-05-11
246900001*	953097	1	axc2	2/18/2010	11:36:45	OM_2-18-2010_10-05-11
246900002*	953097	1	axc2	2/18/2010	11:37:39	OM_2-18-2010_10-05-11
246901001*	953097	1	axc2	2/18/2010	11:38:33	OM_2-18-2010_10-05-11
246901002*	953097	1	axc2	2/18/2010	11:39:27	OM_2-18-2010_10-05-11
CCV		1	axc2	2/18/2010	11:40:20	OM_2-18-2010_10-05-11
CCB		1	axc2	2/18/2010	11:42:11	OM_2-18-2010_10-05-11

Original Run Filename: OM\_2-18-2010\_10-05-11.OMN created 2/18/2010 10:05:11  
 Original Run Author's Signature: [axc2]  
 Current Run Filename: OM\_2-18-2010\_10-05-11.OMN last modified 2/18/2010 11:43:16  
 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)				
WCN100218-01	1	S1	200	9.28	2/18/2010@10:08:32			200 ppb
WCN100218-02	1	S2	150	6.90	2/18/2010@10:09:24			150 ppb
WCN100218-03	1	S3	100	4.37	2/18/2010@10:10:17			100 ppb
WCN100218-04	1	S4	50.0	2.39	2/18/2010@10:11:10			50 ppb
WCN100218-05	1	S5	10.0	0.630	2/18/2010@10:12:03			10 ppb
WCN100218-06	1	S6	5.00	0.361	2/18/2010@10:12:57			CRDL 5.0 ppb
WCN100218-08	1	S7	0.00	0.0272	2/18/2010@10:13:51			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99939 > 0.99500					
Message			Pass					
Action			Continue					
WCN100218-07	1	S8	162	7.44	2/18/2010@10:15:42			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			7.9 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			7.9 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100218-08	1	S7	-0.607	0.0455	2/18/2010@10:17:32			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.607 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.607 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100218-06	1	S6	6.08	0.350	2/18/2010@10:19:22			
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.08 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.08 > 2.50					
Message			Pass					
Action			None					
1202040210 951942 MB	1	1	-1.01	0.0272	2/18/2010@10:21:11			
1202040217  LCS	1	2	38.3	1.82	2/18/2010@10:22:05		25.00	
246554001	1	3	-0.863	0.0339	2/18/2010@10:22:58			
246554002	1	4	-0.890	0.0327	2/18/2010@10:23:51			
246554003	1	5	-0.517	0.0497	2/18/2010@10:24:44			
246554004	1	6	-1.24	0.0165	2/18/2010@10:25:37			
246592005	1	7	0.591	0.100	2/18/2010@10:26:30			
1202040211  DUP	1	8	0.508	0.0963	2/18/2010@10:27:22			
1202040213  MS	1	9	86.8	4.03	2/18/2010@10:28:15			
1202040215  MSD	1	10	87.7	4.07	2/18/2010@10:29:07			
WCN100218-03	1	S3	100	4.65	2/18/2010@10:29:59			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.4 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	0.4 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100218-08	1	S7	-0.746	0.0392	2/18/2010@10:31:49			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-0.746 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-0.746 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246592006	1	11	0.583	0.0997	2/18/2010@10:33:37			
1202040212  DUP	1	12	0.675	0.104	2/18/2010@10:34:29			
1202040214  MS	1	13	98.7	4.57	2/18/2010@10:35:21			
1202040216  MSD	1	14	96.5	4.47	2/18/2010@10:36:12			
246592007	1	15	0.211	0.0828	2/18/2010@10:37:04			
246592008	1	16	0.633	0.102	2/18/2010@10:37:58			
246592009	1	17	1.69	0.150	2/18/2010@10:38:52			
246592010	1	18	0.740	0.107	2/18/2010@10:39:45			
246592011	1	19	0.405	0.0916	2/18/2010@10:40:38			
246607001	1	20	2.67	0.195	2/18/2010@10:41:31			
WCN100218-03	1	S3	101	4.68	2/18/2010@10:42:23			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	1.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	1.2 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100218-08	1	S7	-0.840	0.0349	2/18/2010@10:44:14			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-0.840 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-0.840 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246607002	1	21	2.85	0.203	2/18/2010@10:46:03			
246607003	1	22	1.41	0.137	2/18/2010@10:46:55			
246607004	1	23	5.55	0.326	2/18/2010@10:47:48			
246607005	1	24	0.447	0.0935	2/18/2010@10:48:41			
246607006	1	25	3.74	0.244	2/18/2010@10:49:33			
246611001	1	26	-0.787	0.0374	2/18/2010@10:50:26			
246611002	1	27	-0.830	0.0354	2/18/2010@10:51:18			
246611003	1	28	-1.19	0.0192	2/18/2010@10:52:10			
1202042848 953084 MB	1	29	-1.00	0.0274	2/18/2010@10:53:02			
1202042855  LCS	1	30	29.1	1.40	2/18/2010@10:53:53		25.00	
WCN100218-03	1	S3	101	4.65	2/18/2010@10:54:46			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	0.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	0.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100218-08	1	S7	-0.857	0.0342	2/18/2010@10:56:36			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:		-0.857 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-0.857 > -5.00				
Message		CCB Passed				
Action		Continue				
246837001	1	31	-0.928	0.0309	2/18/2010@10:58:27	
1202042850  DUP	1	32	-0.794	0.0370	2/18/2010@10:59:21	
1202042852  MS	1	33	110	5.09	2/18/2010@11:00:14	
1202042854  MSD	1	34	102	4.74	2/18/2010@11:01:06	
246837002	1	35	-1.61	0.00	2/18/2010@11:02:00	
246837003	1	36	-0.339	0.0577	2/18/2010@11:02:53	
246837004	1	37	2.51	0.187	2/18/2010@11:03:46	
246837005	1	38	-0.475	0.0516	2/18/2010@11:04:39	
246837006	1	39	0.371	0.0901	2/18/2010@11:05:32	
246854011	1	40	3.12	0.215	2/18/2010@11:06:24	
WCN100218-03	1	S3	101	4.67	2/18/2010@11:07:17	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		1.0 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		1.0 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100218-08	1	S7	-0.997	0.0278	2/18/2010@11:09:07	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-0.997 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-0.997 > -5.00				
Message		CCB Passed				
Action		Continue				
1202042849  DUP	1	41	3.16	0.217	2/18/2010@11:10:55	
1202042851  MS	1	42	94.9	4.40	2/18/2010@11:11:47	
1202042853  MSD	1	43	104	4.82	2/18/2010@11:12:40	
246870001	1	44	0.237	0.0840	2/18/2010@11:13:32	
246870002	1	45	0.780	0.109	2/18/2010@11:14:24	
246870003	1	46	0.521	0.0969	2/18/2010@11:15:18	
246870004	1	47	-0.493	0.0508	2/18/2010@11:16:12	
246870005	1	48	-0.0192	0.0723	2/18/2010@11:17:07	
246870006	1	49	-1.05	0.0254	2/18/2010@11:18:00	
246870007	1	50	0.231	0.0837	2/18/2010@11:18:53	
WCN100218-03	1	S3	103	4.75	2/18/2010@11:19:46	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		2.8 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		2.8 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100218-08	1	S7	-1.17	0.0200	2/18/2010@11:21:36	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.17 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.17 > -5.00				
Message		CCB Passed				
Action		Continue				

246870008	1	51	1.99	0.164	2/18/2010@11:23:26		
246870009	1	52	-0.104	0.0685	2/18/2010@11:24:19		
246900001	1	53	73.4	3.42	2/18/2010@11:25:13		
246900002	1	54	14.4	0.730	2/18/2010@11:26:05		
246901001	1	55	20.8	1.02	2/18/2010@11:26:58		
246901002	1	56	190	8.71	2/18/2010@11:27:51		
246607003 951942	1	22	1.17	0.126	2/18/2010@11:28:44		
246607004	1	23	0.346	0.0889	2/18/2010@11:29:37		
1202042899 953097 MB	1	57	-1.53	0.00344	2/18/2010@11:30:29		
1202042900 LCS	1	58	-0.759	0.0386	2/18/2010@11:31:21		
WCN100218-03	1	S3	103	4.76	2/18/2010@11:32:14		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 2.9 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 2.9 < 10.0							
Message CCV Passed							
Action Continue							
WCN100218-08	1	S7	-0.952	0.0299	2/18/2010@11:34:04		CCB
Known Conc: 0.00							
DQM Test: > + Concentration Limit							
Result: -0.952 < 5.00							
Message CCB Passed							
Action Continue							
DQM Test: < - Concentration Limit							
Result: -0.952 > -5.00							
Message CCB Passed							
Action Continue							
1202042901 LCSD	1	59	-0.844	0.0348	2/18/2010@11:35:52		
246900001	1	60	79.5	3.69	2/18/2010@11:36:45		
246900002	1	61	21.1	1.04	2/18/2010@11:37:39		
246901001	1	62	42.4	2.00	2/18/2010@11:38:33		
246901002	1	63	196	8.98	2/18/2010@11:39:27		
WCN100218-03	1	S3	103	4.77	2/18/2010@11:40:20		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 3.2 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 3.2 < 10.0							
Message CCV Passed							
Action Continue							
WCN100218-08	1	S7	6.95	0.390	2/18/2010@11:42:11		CCB
Known Conc: 0.00							
DQM Test: > + Concentration Limit							
Result: 6.95 > 5.00							
Message CCB Failed							
Action Stop Run							
DQM Test: < - Concentration Limit							
Result: 6.95 > -5.00							
Message CCB Passed							
Action Continue							

Analyte Properties Table for OM\_2-18-2010\_10-05-11.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Callibration 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

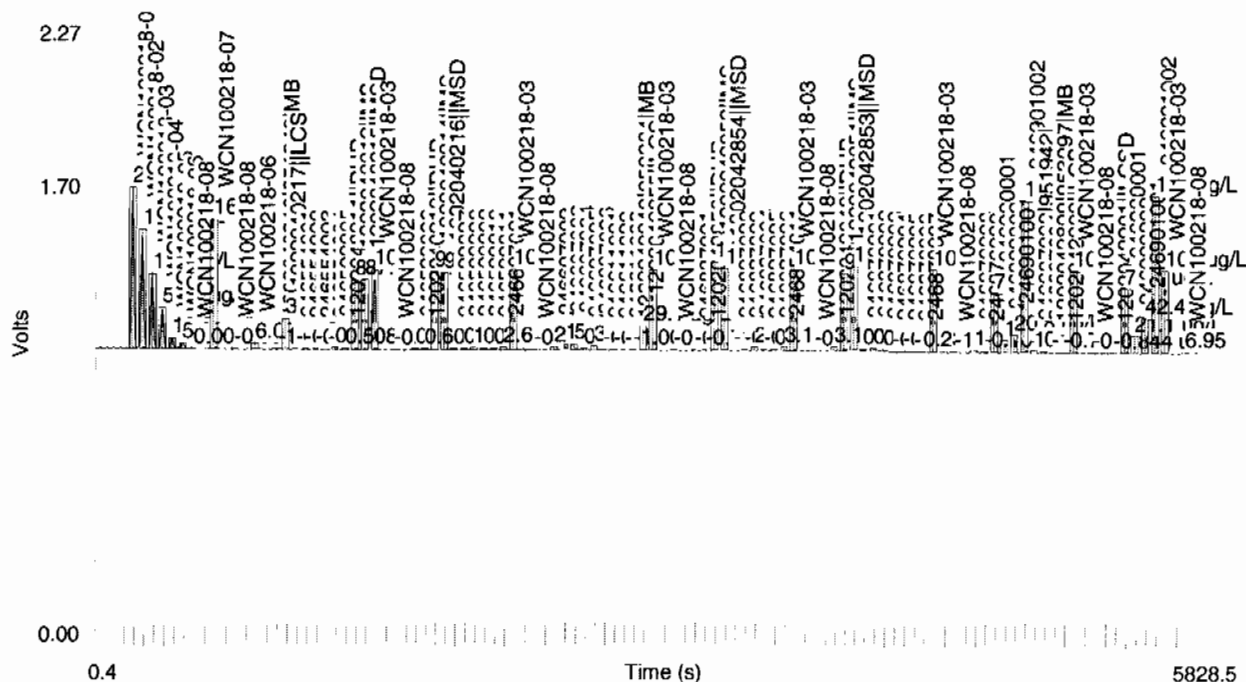
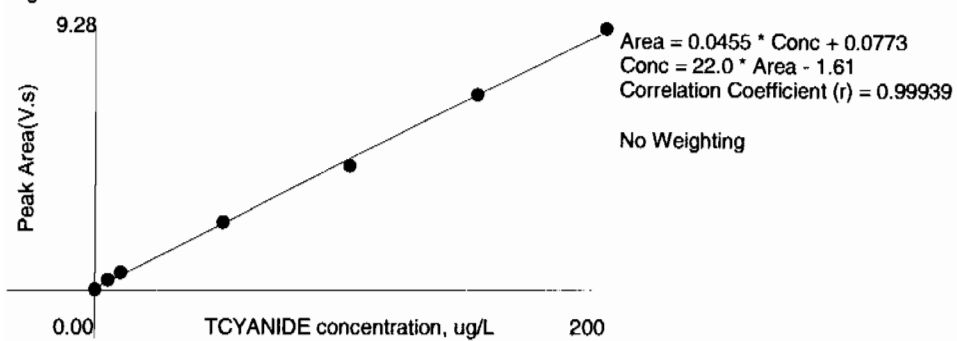


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.28	0.608	-1.2	2/18/2010	10:09:35
2	150	1	6.90	0.453	-0.0	2/18/2010	10:10:27
3	100	1	4.37	0.285	5.5	2/18/2010	10:11:20
4	50.0	1	2.39	0.155	-1.6	2/18/2010	10:12:13
5	10.0	1	0.630	0.0408	-18.4	2/18/2010	10:13:06
6	5.00	1	0.361	0.0225	-18.6	2/18/2010	10:14:00
7	0.00	1	0.0272	0.00121		2/18/2010	10:14:54

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	2/18/2010 15:06:02	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010 15:07:53	OM_2-18-2010_15-02-39
1202040239	951952	1	axc2	2/18/2010 15:09:42	OM_2-18-2010_15-02-39
1202040246	951952	25	axc2	2/18/2010 15:10:35	OM_2-18-2010_15-02-39
246566001	951952	1	axc2	2/18/2010 15:11:28	OM_2-18-2010_15-02-39
246566002	951952	1	axc2	2/18/2010 15:12:22	OM_2-18-2010_15-02-39
246566003	951952	1	axc2	2/18/2010 15:13:15	OM_2-18-2010_15-02-39
246738005	951952	1	axc2	2/18/2010 15:14:07	OM_2-18-2010_15-02-39
1202040240	951952	1	axc2	2/18/2010 15:15:00	OM_2-18-2010_15-02-39
1202040242	951952	1	axc2	2/18/2010 15:15:53	OM_2-18-2010_15-02-39
1202040244	951952	1	axc2	2/18/2010 15:16:45	OM_2-18-2010_15-02-39
246738006	951952	1	axc2	2/18/2010 15:17:37	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010 15:18:30	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010 15:20:20	OM_2-18-2010_15-02-39
1202040241	951952	1	axc2	2/18/2010 15:22:08	OM_2-18-2010_15-02-39
1202040243	951952	1	axc2	2/18/2010 15:23:00	OM_2-18-2010_15-02-39
1202040245	951952	1	axc2	2/18/2010 15:23:52	OM_2-18-2010_15-02-39
246738007	951952	1	axc2	2/18/2010 15:24:44	OM_2-18-2010_15-02-39
246738008	951952	1	axc2	2/18/2010 15:25:36	OM_2-18-2010_15-02-39
246738009	951952	1	axc2	2/18/2010 15:26:30	OM_2-18-2010_15-02-39
246738010	951952	1	axc2	2/18/2010 15:27:23	OM_2-18-2010_15-02-39
246752002	951952	1	axc2	2/18/2010 15:28:16	OM_2-18-2010_15-02-39
246752003	951952	1	axc2	2/18/2010 15:29:10	OM_2-18-2010_15-02-39
246767001	951952	1	axc2	2/18/2010 15:30:03	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010 15:30:55	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010 15:32:45	OM_2-18-2010_15-02-39
246767002	951952	1	axc2	2/18/2010 15:34:34	OM_2-18-2010_15-02-39
246767003	951952	1	axc2	2/18/2010 15:35:27	OM_2-18-2010_15-02-39
246767004	951952	1	axc2	2/18/2010 15:36:20	OM_2-18-2010_15-02-39
246767005	951952	1	axc2	2/18/2010 15:37:12	OM_2-18-2010_15-02-39
246767006	951952	1	axc2	2/18/2010 15:38:05	OM_2-18-2010_15-02-39
246767007	951952	1	axc2	2/18/2010 15:38:57	OM_2-18-2010_15-02-39
246767008	951952	1	axc2	2/18/2010 15:39:50	OM_2-18-2010_15-02-39
246767009	951952	1	axc2	2/18/2010 15:40:41	OM_2-18-2010_15-02-39
1202040247	951954	1	axc2	2/18/2010 15:41:34	OM_2-18-2010_15-02-39
1202040254	951954	25	axc2	2/18/2010 15:42:25	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010 15:43:18	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010 15:45:09	OM_2-18-2010_15-02-39
246566004	951954	1	axc2	2/18/2010 15:46:58	OM_2-18-2010_15-02-39
1202040248	951954	1	axc2	2/18/2010 15:47:52	OM_2-18-2010_15-02-39
1202040250	951954	1	axc2	2/18/2010 15:48:46	OM_2-18-2010_15-02-39
1202040252	951954	1	axc2	2/18/2010 15:49:39	OM_2-18-2010_15-02-39
246566005	951954	1	axc2	2/18/2010 15:50:33	OM_2-18-2010_15-02-39
1202040249	951954	1	axc2	2/18/2010 15:51:26	OM_2-18-2010_15-02-39
1202040251	951954	1	axc2	2/18/2010 15:52:19	OM_2-18-2010_15-02-39
1202040253	951954	1	axc2	2/18/2010 15:53:11	OM_2-18-2010_15-02-39
246566006	951954	1	axc2	2/18/2010 15:54:05	OM_2-18-2010_15-02-39
246566007	951954	1	axc2	2/18/2010 15:54:57	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010 15:55:50	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010 15:57:39	OM_2-18-2010_15-02-39
246566008	951954	1	axc2	2/18/2010 15:59:28	OM_2-18-2010_15-02-39
246566009	951954	1	axc2	2/18/2010 16:00:20	OM_2-18-2010_15-02-39
246566010	951954	1	axc2	2/18/2010 16:01:13	OM_2-18-2010_15-02-39
246566011	951954	1	axc2	2/18/2010 16:02:05	OM_2-18-2010_15-02-39
246679001	951954	1	axc2	2/18/2010 16:02:56	OM_2-18-2010_15-02-39
246679002	951954	1	axc2	2/18/2010 16:03:52	OM_2-18-2010_15-02-39
246679003	951954	1	axc2	2/18/2010 16:04:45	OM_2-18-2010_15-02-39
246679004	951954	1	axc2	2/18/2010 16:05:39	OM_2-18-2010_15-02-39



246679005	951954	1	axc2	2/18/2010	16:06:32	OM_2-18-2010_15-02-39
246679006	951954	1	axc2	2/18/2010	16:07:26	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	16:08:18	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	16:09:13	OM_2-18-2010_15-02-39
246679007	951954	1	axc2	2/18/2010	16:10:06	OM_2-18-2010_15-02-39
246679008	951954	1	axc2	2/18/2010	16:10:59	OM_2-18-2010_15-02-39
246688001	951954	1	axc2	2/18/2010	16:11:53	OM_2-18-2010_15-02-39
246688003	951954	1	axc2	2/18/2010	16:12:46	OM_2-18-2010_15-02-39
246688004	951954	1	axc2	2/18/2010	16:13:38	OM_2-18-2010_15-02-39
246688005	951954	1	axc2	2/18/2010	16:14:31	OM_2-18-2010_15-02-39
1202042840	953082	1	axc2	2/18/2010	16:15:24	OM_2-18-2010_15-02-39
1202042847	953082	25	axc2	2/18/2010	16:16:16	OM_2-18-2010_15-02-39
246841001	953082	1	axc2	2/18/2010	16:17:08	OM_2-18-2010_15-02-39
1202042841	953082	1	axc2	2/18/2010	16:18:00	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	16:18:53	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	16:19:47	OM_2-18-2010_15-02-39
1202042843	953082	1	axc2	2/18/2010	16:20:41	OM_2-18-2010_15-02-39
1202042845	953082	1	axc2	2/18/2010	16:21:36	OM_2-18-2010_15-02-39
246841002	953082	1	axc2	2/18/2010	16:22:30	OM_2-18-2010_15-02-39
1202042842	953082	1	axc2	2/18/2010	16:23:23	OM_2-18-2010_15-02-39
1202042844	953082	1	axc2	2/18/2010	16:24:17	OM_2-18-2010_15-02-39
1202042846	953082	1	axc2	2/18/2010	16:25:11	OM_2-18-2010_15-02-39
246841003	953082	1	axc2	2/18/2010	16:26:04	OM_2-18-2010_15-02-39
246843002	953082	1	axc2	2/18/2010	16:26:57	OM_2-18-2010_15-02-39
246843003	953082	1	axc2	2/18/2010	16:27:50	OM_2-18-2010_15-02-39
246843004	953082	1	axc2	2/18/2010	16:28:45	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	16:29:37	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	16:31:26	OM_2-18-2010_15-02-39
246846001	953082	1	axc2	2/18/2010	16:33:16	OM_2-18-2010_15-02-39
246846002	953082	1	axc2	2/18/2010	16:34:07	OM_2-18-2010_15-02-39
246847001	953082	1	axc2	2/18/2010	16:35:00	OM_2-18-2010_15-02-39
246847002	953082	1	axc2	2/18/2010	16:35:52	OM_2-18-2010_15-02-39
246854001	953082	1	axc2	2/18/2010	16:36:46	OM_2-18-2010_15-02-39
246854002	953082	1	axc2	2/18/2010	16:37:39	OM_2-18-2010_15-02-39
246854003	953082	1	axc2	2/18/2010	16:38:33	OM_2-18-2010_15-02-39
246854004*	953082	1	axc2	2/18/2010	16:39:28	OM_2-18-2010_15-02-39
246854005	953082	1	axc2	2/18/2010	16:40:22	OM_2-18-2010_15-02-39
246854006	953082	1	axc2	2/18/2010	16:41:16	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	16:42:09	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	16:43:59	OM_2-18-2010_15-02-39
246854007	953082	1	axc2	2/18/2010	16:45:48	OM_2-18-2010_15-02-39
246854008	953082	1	axc2	2/18/2010	16:46:42	OM_2-18-2010_15-02-39
246854009	953082	1	axc2	2/18/2010	16:47:35	OM_2-18-2010_15-02-39
246854010	953082	1	axc2	2/18/2010	16:48:28	OM_2-18-2010_15-02-39
246854004	953082	1	axc2	2/18/2010	16:49:23	OM_2-18-2010_15-02-39
1202040261	951957	1	axc2	2/18/2010	16:50:15	OM_2-18-2010_15-02-39
1202040268	951957	25	axc2	2/18/2010	16:51:08	OM_2-18-2010_15-02-39
246688006	951957	1	axc2	2/18/2010	16:52:02	OM_2-18-2010_15-02-39
1202040262	951957	1	axc2	2/18/2010	16:52:54	OM_2-18-2010_15-02-39
1202040264	951957	1	axc2	2/18/2010	16:53:47	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	16:54:39	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	16:56:29	OM_2-18-2010_15-02-39
1202040266	951957	1	axc2	2/18/2010	16:58:18	OM_2-18-2010_15-02-39
246688007	951957	1	axc2	2/18/2010	16:59:12	OM_2-18-2010_15-02-39
1202040263	951957	1	axc2	2/18/2010	17:00:07	OM_2-18-2010_15-02-39
1202040265	951957	1	axc2	2/18/2010	17:01:01	OM_2-18-2010_15-02-39
1202040267	951957	1	axc2	2/18/2010	17:01:55	OM_2-18-2010_15-02-39
246741001*	951957	1	axc2	2/18/2010	17:02:49	OM_2-18-2010_15-02-39
246741002	951957	1	axc2	2/18/2010	17:03:44	OM_2-18-2010_15-02-39
246741003	951957	1	axc2	2/18/2010	17:04:38	OM_2-18-2010_15-02-39

246741004	951957	1	axc2	2/18/2010	17:05:31	OM_2-18-2010_15-02-39
246741005	951957	1	axc2	2/18/2010	17:06:25	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	17:07:17	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	17:09:07	OM_2-18-2010_15-02-39
246741001	951957	1	axc2	2/18/2010	17:10:58	OM_2-18-2010_15-02-39
246741006	951957	1	axc2	2/18/2010	17:11:51	OM_2-18-2010_15-02-39
246741007	951957	1	axc2	2/18/2010	17:12:45	OM_2-18-2010_15-02-39
246741008	951957	1	axc2	2/18/2010	17:13:38	OM_2-18-2010_15-02-39
246741009	951957	1	axc2	2/18/2010	17:14:30	OM_2-18-2010_15-02-39
246741010	951957	1	axc2	2/18/2010	17:15:23	OM_2-18-2010_15-02-39
246741011	951957	1	axc2	2/18/2010	17:16:16	OM_2-18-2010_15-02-39
246754001	951957	1	axc2	2/18/2010	17:17:11	OM_2-18-2010_15-02-39
246754002	951957	1	axc2	2/18/2010	17:18:05	OM_2-18-2010_15-02-39
246754003	951957	1	axc2	2/18/2010	17:19:00	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	17:19:52	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	17:21:43	OM_2-18-2010_15-02-39
246754004	951957	1	axc2	2/18/2010	17:23:33	OM_2-18-2010_15-02-39
246757001	951957	1	axc2	2/18/2010	17:24:28	OM_2-18-2010_15-02-39
246757002	951957	1	axc2	2/18/2010	17:25:22	OM_2-18-2010_15-02-39
246757003	951957	1	axc2	2/18/2010	17:26:16	OM_2-18-2010_15-02-39
CCV		1	axc2	2/18/2010	17:27:09	OM_2-18-2010_15-02-39
CCB		1	axc2	2/18/2010	17:28:59	OM_2-18-2010_15-02-39

Original Run Filename: OM\_2-18-2010\_15-02-39.OMN created 2/18/2010 15:02:39  
 Original Run Author's Signature: [axc2]  
 Current Run Filename: OM\_2-18-2010\_15-02-39.OMN last modified 2/18/2010 17:30:04  
 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)				
WCN100218-03	1	S3	97.2	4.50	2/18/2010@15:06:02			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-2.8 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-2.8 < 10.0					
Message			CCV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100218-08	1	S7	-0.777	0.0378	2/18/2010@15:07:53			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.777 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.777 > -5.00					
Message			CCB Passed					
Action			Continue					
1202040239 951952 MB	1	1	-1.07	0.0246	2/18/2010@15:09:42			
1202040246 LCS	1	2	28.7	1.38	2/18/2010@15:10:35		25.00	
246566001	1	3	-0.918	0.0314	2/18/2010@15:11:28			
246566002	1	4	-0.578	0.0469	2/18/2010@15:12:22			
246566003	1	5	0.291	0.0865	2/18/2010@15:13:15			
246738005	1	6	0.405	0.0916	2/18/2010@15:14:07			
1202040240 DUP	1	7	0.343	0.0888	2/18/2010@15:15:00			
1202040242 MS	1	8	102	4.70	2/18/2010@15:15:53			
1202040244 MSD	1	9	101	4.67	2/18/2010@15:16:45			
246738006	1	10	0.106	0.0780	2/18/2010@15:17:37			
WCN100218-03	1	S3	100	4.64	2/18/2010@15:18:30			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100218-08	1	S7	-1.02	0.0267	2/18/2010@15:20:20			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.02 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.02 > -5.00					
Message			CCB Passed					
Action			Continue					
1202040241 DUP	1	11	0.991	0.118	2/18/2010@15:22:08			
1202040243 MS	1	12	110	5.10	2/18/2010@15:23:00			
1202040245 MSD	1	13	105	4.86	2/18/2010@15:23:52			
246738007	1	14	0.363	0.0897	2/18/2010@15:24:44			
246738008	1	15	3.55	0.235	2/18/2010@15:25:36			

246738009	1	16	0.306	0.0871	2/18/2010@15:26:30		
246738010	1	17	2.85	0.203	2/18/2010@15:27:23		
246752002	1	18	1.70	0.151	2/18/2010@15:28:16		
246752003	1	19	0.415	0.0921	2/18/2010@15:29:10		
246767001	1	20	-0.835	0.0352	2/18/2010@15:30:03		
WCN100218-03	1	S3	103	4.75	2/18/2010@15:30:55		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 2.6 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 2.6 < 10.0							
Message CCV Passed							
Action Continue							
WCN100218-08	1	S7	-1.05	0.0255	2/18/2010@15:32:45		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							
246767002	1	21	0.864	0.113	2/18/2010@15:34:34		
246767003	1	22	-0.638	0.0441	2/18/2010@15:35:27		
246767004	1	23	0.350	0.0891	2/18/2010@15:36:20		
246767005	1	24	-0.178	0.0651	2/18/2010@15:37:12		
246767006	1	25	-1.01	0.0272	2/18/2010@15:38:05		
246767007	1	26	3.55	0.235	2/18/2010@15:38:57		
246767008	1	27	2.52	0.188	2/18/2010@15:39:50		
246767009	1	28	0.792	0.109	2/18/2010@15:40:41		
1202040247 951954 MB	1	29	-0.407	0.0547	2/18/2010@15:41:34		
1202040254 LCS	1	30	26.8	1.29	2/18/2010@15:42:25	25.00	
WCN100218-03	1	S3	103	4.75	2/18/2010@15:43:18		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 2.8 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 2.8 < 10.0							
Message CCV Passed							
Action Continue							
WCN100218-08	1	S7	-1.15	0.0210	2/18/2010@15:45:09		CCB
Known Conc: 0.00							
DQM Test: > + Concentration Limit							
Result: -1.15 < 5.00							
Message CCB Passed							
Action Continue							
DQM Test: < - Concentration Limit							
Result: -1.15 > -5.00							
Message CCB Passed							
Action Continue							
246566004	1	31	-0.606	0.0456	2/18/2010@15:46:58		
1202040248 DUP	1	32	-0.579	0.0468	2/18/2010@15:47:52		
1202040250 MS	1	33	109	5.05	2/18/2010@15:48:46		
1202040252 MSD	1	34	114	5.27	2/18/2010@15:49:39		
246566005	1	35	1.01	0.119	2/18/2010@15:50:33		
1202040249 DUP	1	36	0.391	0.0910	2/18/2010@15:51:26		
1202040251 MS	1	37	101	4.69	2/18/2010@15:52:19		
1202040253 MSD	1	38	107	4.97	2/18/2010@15:53:11		
246566006	1	39	-0.566	0.0474	2/18/2010@15:54:05		
246566007	1	40	-1.09	0.0235	2/18/2010@15:54:57		
WCN100218-03	1	S3	103	4.77	2/18/2010@15:55:50		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				
WCN100218-08	1	S7		-0.819	0.0359	2/18/2010@15:57:39		CCB
Known Conc:				0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.819 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.819 > -5.00				
			Message	CCB Passed				
			Action	Continue				
246566008	1	41		-0.446	0.0529	2/18/2010@15:59:28		
246566009	1	42		-0.380	0.0559	2/18/2010@16:00:20		
246566010	1	43		0.0123	0.0738	2/18/2010@16:01:13		
246566011	1	44		1.96	0.163	2/18/2010@16:02:05		
246679001	1	45		-0.775	0.0379	2/18/2010@16:02:56		
246679002	1	46		-0.712	0.0408	2/18/2010@16:03:52		
246679003	1	47		-0.804	0.0366	2/18/2010@16:04:45		
246679004	1	48		-0.622	0.0449	2/18/2010@16:05:39		
246679005	1	49		-1.15	0.0207	2/18/2010@16:06:32		
246679006	1	50		-0.907	0.0319	2/18/2010@16:07:26		
WCN100218-03	1	S3		102	4.70	2/18/2010@16:08:18		CCV
Known Conc:				0.00				
WCN100218-08	1	S7		-1.11	0.0224	2/18/2010@16:09:13		CCB
Known Conc:				0.00				
246679007	1	51		-0.875	0.0333	2/18/2010@16:10:06		
246679008	1	52		-0.874	0.0334	2/18/2010@16:10:59		
246688001	1	53		-0.268	0.0610	2/18/2010@16:11:53		
246688003	1	54		-0.621	0.0449	2/18/2010@16:12:46		
246688004	1	55		-0.628	0.0446	2/18/2010@16:13:38		
246688005	1	56		-0.206	0.0638	2/18/2010@16:14:31		
1202042840 953082 MB	1	57		-1.04	0.0257	2/18/2010@16:15:24		
1202042847 LCS	1	58		19.2	0.947	2/18/2010@16:16:16	25.00	
246841001	1	59		-0.657	0.0433	2/18/2010@16:17:08		
1202042841 DUP	1	60		-1.49	0.00522	2/18/2010@16:18:00		
WCN100218-03	1	S3		100	4.64	2/18/2010@16:18:53		CCV
Known Conc:				0.00				
WCN100218-08	1	S7		-0.912	0.0317	2/18/2010@16:19:47		CCB
Known Conc:				0.00				
1202042843 MS	1	61		111	5.12	2/18/2010@16:20:41		
1202042845 MSD	1	62		110	5.07	2/18/2010@16:21:36		
246841002	1	63		-0.752	0.0390	2/18/2010@16:22:30		
1202042842 DUP	1	64		-0.791	0.0372	2/18/2010@16:23:23		
1202042844 MS	1	65		88.1	4.09	2/18/2010@16:24:17		
1202042846 MSD	1	66		109	5.05	2/18/2010@16:25:11		
246841003	1	67		-0.523	0.0494	2/18/2010@16:26:04		
246843002	1	68		-1.61	-1.87e-4	2/18/2010@16:26:57		
246843003	1	69		-0.766	0.0383	2/18/2010@16:27:50		
246843004	1	70		-0.749	0.0391	2/18/2010@16:28:45		
WCN100218-03	1	S3		104	4.80	2/18/2010@16:29:37		CCV
Known Conc:				100				
DQM Test: > + Percent Relative Difference								
			Result:	3.8 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	3.8 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100218-08	1	S7		-0.898	0.0323	2/18/2010@16:31:26		CCB
Known Conc:				0.00				
DQM Test: > + Concentration Limit								

Result:			-0.898 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.898 > -5.00				
Message			CCB Passed				
Action			Continue				
246846001	1	71	-1.06	0.0247	2/18/2010@16:33:16		
246846002	1	72	-0.522	0.0494	2/18/2010@16:34:07		
246847001	1	73	-0.782	0.0376	2/18/2010@16:35:00		
246847002	1	74	-0.990	0.0281	2/18/2010@16:35:52		
246854001	1	75	1.29	0.132	2/18/2010@16:36:46		
246854002	1	76	1.98	0.164	2/18/2010@16:37:39		
246854003	1	77	0.375	0.0903	2/18/2010@16:38:33		
246854004	1	78	3.61	0.238	2/18/2010@16:39:28		
246854005	1	79	1.67	0.149	2/18/2010@16:40:22		
246854006	1	80	0.519	0.0968	2/18/2010@16:41:16		
WCN100218-03	1	S3	101	4.65	2/18/2010@16:42:09		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			0.6 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			0.6 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100218-08	1	S7	-0.842	0.0348	2/18/2010@16:43:59		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.842 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.842 > -5.00				
Message			CCB Passed				
Action			Continue				
246854007	1	81	0.0651	0.0762	2/18/2010@16:45:48		
246854008	1	82	3.71	0.242	2/18/2010@16:46:42		
246854009	1	83	2.78	0.200	2/18/2010@16:47:35		
246854010	1	84	3.26	0.222	2/18/2010@16:48:28		
246854004	1	78	0.380	0.0905	2/18/2010@16:49:23		
1202040261 951957 MB	1	85	-0.857	0.0342	2/18/2010@16:50:15		
1202040268  LCS	1	86	24.1	1.17	2/18/2010@16:51:08	25.00	
246688006	1	87	0.0605	0.0759	2/18/2010@16:52:02		
1202040262  DUP	1	88	0.736	0.107	2/18/2010@16:52:54		
1202040264  MS	1	89	107	4.97	2/18/2010@16:53:47		
WCN100218-03	1	S3	102	4.72	2/18/2010@16:54:39		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			2.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			2.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100218-08	1	S7	-1.05	0.0253	2/18/2010@16:56:29		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				
1202040266  MSD	1	90	98.3	4.55	2/18/2010@16:58:18		

246688007	1	91	-0.402	0.0549	2/18/2010@16:59:12		
1202040263	DUP	1	92	-0.891	0.0326	2/18/2010@17:00:07	
1202040265	MS	1	93	108	4.98	2/18/2010@17:01:01	
1202040267	MSD	1	94	99.3	4.60	2/18/2010@17:01:55	
246741001		1	95	3.99	0.255	2/18/2010@17:02:49	
246741002		1	96	-0.819	0.0359	2/18/2010@17:03:44	
246741003		1	97	-1.13	0.0217	2/18/2010@17:04:38	
246741004		1	98	0.559	0.0987	2/18/2010@17:05:31	
246741005		1	99	-0.525	0.0493	2/18/2010@17:06:25	
WCN100218-03		1	S3	103	4.75	2/18/2010@17:07:17	CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			2.7 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			2.7 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100218-08		1	S7	-1.10	0.0230	2/18/2010@17:09:07	CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.10 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.10 > -5.00				
Message			CCB Passed				
Action			Continue				
246741001		1	95	-0.289	0.0600	2/18/2010@17:10:58	
246741006		1	100	-0.502	0.0503	2/18/2010@17:11:51	
246741007		1	101	-0.0464	0.0711	2/18/2010@17:12:45	
246741008		1	102	-0.490	0.0509	2/18/2010@17:13:38	
246741009		1	103	-1.61	-1.71e-4	2/18/2010@17:14:30	
246741010		1	104	-0.349	0.0573	2/18/2010@17:15:23	
246741011		1	105	-0.920	0.0313	2/18/2010@17:16:16	
246754001		1	106	-0.532	0.0490	2/18/2010@17:17:11	
246754002		1	107	-1.94	-0.0152	2/18/2010@17:18:05	
246754003		1	108	-0.766	0.0383	2/18/2010@17:19:00	
WCN100218-03		1	S3	102	4.70	2/18/2010@17:19:52	CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			1.6 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			1.6 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100218-08		1	S7	-0.969	0.0291	2/18/2010@17:21:43	CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.969 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.969 > -5.00				
Message			CCB Passed				
Action			Continue				
246754004		1	109	-0.645	0.0438	2/18/2010@17:23:33	
246757001		1	110	-0.549	0.0482	2/18/2010@17:24:28	
246757002		1	111	0.366	0.0899	2/18/2010@17:25:22	
246757003		1	112	-0.238	0.0624	2/18/2010@17:26:16	
WCN100218-03		1	S3	102	4.73	2/18/2010@17:27:09	CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			2.2 < 10.0				
Message			CCV Passed				

Action		Continue					
DQM Test: < - Percent Relative Difference							
Result:		2.2 < 10.0					
Message		CCV Passed					
Action		Continue					
WCN100218-08	1	S7	-0.477	0.0515	2/18/2010@17:28:59	CCB	
Known Conc:		0.00					
DQM Test: > + Concentration Limit							
Result:		-0.477 < 5.00					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		-0.477 > -5.00					
Message		CCB Passed					
Action		Continue					

Analyte Properties Table for OM\_2-18-2010\_15-02-39.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

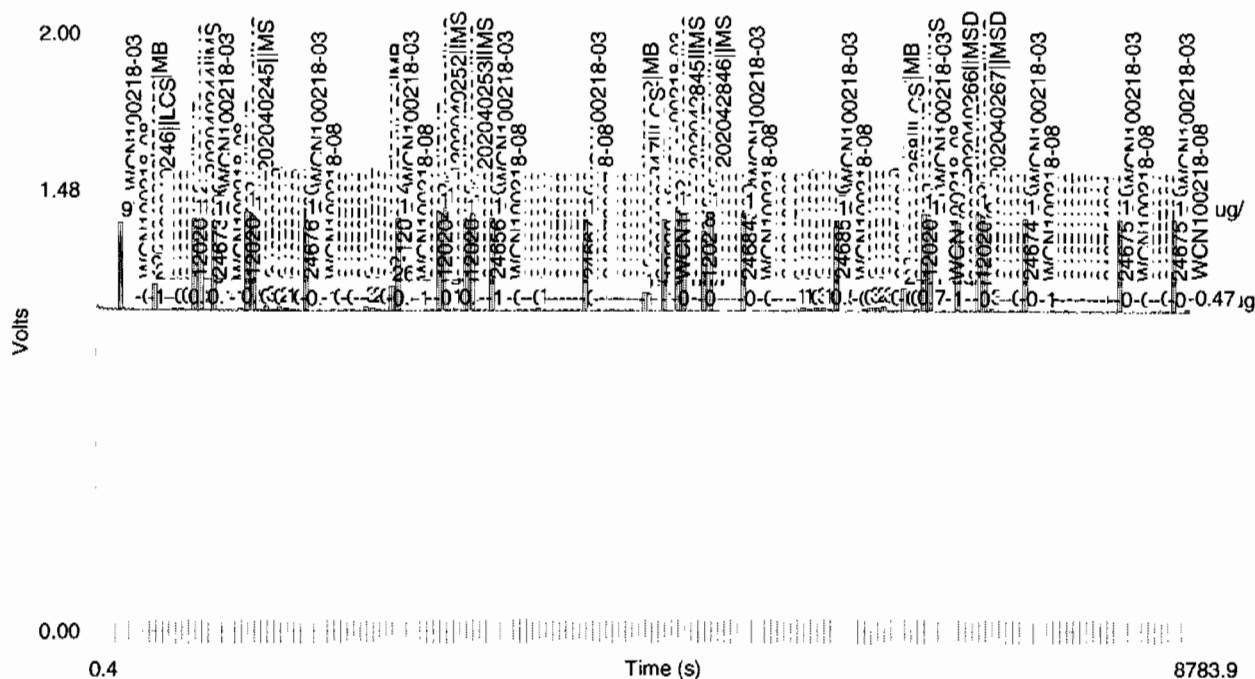




Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.28	0.608	-1.2	2/18/2010	10:09:35
2	150	1	6.90	0.453	-0.0	2/18/2010	10:10:27
3	100	1	4.37	0.285	5.5	2/18/2010	10:11:20
4	50.0	1	2.39	0.155	-1.6	2/18/2010	10:12:13
5	10.0	1	0.630	0.0408	-18.4	2/18/2010	10:13:06
6	5.00	1	0.361	0.0225	-18.6	2/18/2010	10:14:00
7	0.00	1	0.0272	0.00121		2/18/2010	10:14:54

Figure 1: TCYANIDE

