

Tuesday, March 02, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.

LANL Request Number: 10-2194

2040 Savage Rd

Per Agreement Number: 126310011

Charleston, SC 29407

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 3/2/2010

TURNAROUND/REPORT DUE: 4/1/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0		1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA:300.0						
1	RE36-10-7441	R	2/25/2010			
1	RE36-10-7442	R	2/25/2010			
1	RE36-10-7443	R	2/25/2010			
1	RE36-10-7444	R	2/25/2010			
1	RE36-10-7445	R	2/25/2010			
1	RE36-10-7447	R	2/25/2010			
1	RE36-10-7448	R	2/25/2010			
1	RE36-10-7449	R	2/25/2010			
SW-846:6010B						
1	RE36-10-7407	R	2/25/2010			
1	RE36-10-7421	R	2/25/2010			
1	RE36-10-7422	R	2/25/2010			
1	RE36-10-7435	R	2/25/2010			
1	RE36-10-7436	R	2/25/2010			
1	RE36-10-7437	R	2/25/2010			
1	RE36-10-7438	R	2/25/2010			
1	RE36-10-7439	R	2/25/2010			
1	RE36-10-7440	R	2/25/2010			
1	RE36-10-7441	R	2/25/2010			
1	RE36-10-7442	R	2/25/2010			
1	RE36-10-7443	R	2/25/2010			
1	RE36-10-7444	R	2/25/2010			
1	RE36-10-7445	R	2/25/2010			
1	RE36-10-7447	R	2/25/2010			
1	RE36-10-7448	R	2/25/2010			
1	RE36-10-7449	R	2/25/2010			

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6010B	1	1	RE36-10-7450	R	2/25/2010	
			RE36-10-7451	R	2/25/2010	
			RE36-10-7452	R	2/25/2010	
			RE36-10-7407	R	2/25/2010	
			RE36-10-7421	R	2/25/2010	
			RE36-10-7422	R	2/25/2010	
			RE36-10-7435	R	2/25/2010	
			RE36-10-7436	R	2/25/2010	
			RE36-10-7437	R	2/25/2010	
			RE36-10-7438	R	2/25/2010	
SW-846:6020	1	1	RE36-10-7439	R	2/25/2010	
			RE36-10-7440	R	2/25/2010	
			RE36-10-7441	R	2/25/2010	
			RE36-10-7442	R	2/25/2010	
			RE36-10-7443	R	2/25/2010	
			RE36-10-7444	R	2/25/2010	
			RE36-10-7445	R	2/25/2010	
			RE36-10-7447	R	2/25/2010	
			RE36-10-7448	R	2/25/2010	
			RE36-10-7449	R	2/25/2010	
SW-846:6850	1	1	RE36-10-7450	R	2/25/2010	
			RE36-10-7451	R	2/25/2010	
			RE36-10-7452	R	2/25/2010	
			RE36-10-7407	R	2/25/2010	
			RE36-10-7421	R	2/25/2010	
			RE36-10-7422	R	2/25/2010	
			RE36-10-7435	R	2/25/2010	
			RE36-10-7436	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6850						
1	RE36-10-7437	R	2/25/2010			
1	RE36-10-7438	R	2/25/2010			
1	RE36-10-7439	R	2/25/2010			
1	RE36-10-7440	R	2/25/2010			
1	RE36-10-7441	R	2/25/2010			
1	RE36-10-7442	R	2/25/2010			
1	RE36-10-7443	R	2/25/2010			
1	RE36-10-7444	R	2/25/2010			
1	RE36-10-7445	R	2/25/2010			
1	RE36-10-7447	R	2/25/2010			
1	RE36-10-7448	R	2/25/2010			
1	RE36-10-7449	R	2/25/2010			
1	RE36-10-7450	R	2/25/2010			
1	RE36-10-7451	R	2/25/2010			
1	RE36-10-7452	R	2/25/2010			
SW-846:7471A						
1	RE36-10-7407	R	2/25/2010			
1	RE36-10-7421	R	2/25/2010			
1	RE36-10-7422	R	2/25/2010			
1	RE36-10-7435	R	2/25/2010			
1	RE36-10-7436	R	2/25/2010			
1	RE36-10-7437	R	2/25/2010			
1	RE36-10-7438	R	2/25/2010			
1	RE36-10-7439	R	2/25/2010			
1	RE36-10-7440	R	2/25/2010			
1	RE36-10-7441	R	2/25/2010			
1	RE36-10-7442	R	2/25/2010			
1	RE36-10-7443	R	2/25/2010			
1	RE36-10-7444	R	2/25/2010			

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:7471A						
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
		1	RE36-10-7407	R	2/25/2010	
SW-846:9012A						
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
SW-846:9045C						
		1	RE36-10-7407	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9045C						
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2194

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7407	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7407	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7421	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7421	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7422	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7422	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7451	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7451	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7449	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7449	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7445	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7445	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7450	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7450	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7444	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7444	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7448	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7448	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7447	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7447	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7443	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7443	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7452	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7452	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7437	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7437	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7440	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7440	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7435	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7435	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7441	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7441	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7442	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7442	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7436	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7436	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7438	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7438	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7439	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7439	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time


 Printed Name Signature

7/2/10 3:00

 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: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7407

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1134		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610576	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) / NA
BOREHOLE: YES (NO) / NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC:

Brown moist silty sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-27

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 25 dpm
Beta/Gamma = 1538 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

ThMcFarlane

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7421

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	OBT3		A11h
TIME COLLECTED (HH:MM)		0941		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610383	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	✓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	5		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES (NO) NA
BOREHOLE: YES (NO) NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown sandy silt, roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 8- 30

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 94 dpm
Beta/Gamma = 2290 dpm

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

COLLECTED BY (PRINT)

JLMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>Sherrill Newwood</i> (Signature) <i>Sherrill Newwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7422

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		AMH
TIME COLLECTED(HH:MM)		955		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610583	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		↓
FIELD MATRIX:	R	S		EXCAVATED: YES/NO	NA		↓
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO
BOREHOLE: YES/NO	NA			BOREHOLE DECLINATION:	NA		NA
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown sandy silt

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-30

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 29 dpm
Beta/Gamma \leq 2160 dpm

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

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

ThMcFarland

72m 2/25/10

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sheri Sherwood	2/25/10
(Signature) [Signature]	1530	(Signature) [Signature]	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7435

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		SED
TIME COLLECTED(HH:MM)		1100		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610590			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	SED		EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES (NO) / NA			
BOREHOLE: YES / (NO) NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Frozen brown silt

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 37

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 10 dpm
Beta/Gamma \leq 1734 dpm

PID $\frac{\text{Ambient Reading}}{734} = \text{ppm}$ 734 2/25/10

COLLECTED BY (PRINT)

Thm Farlang

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name)	2/25/10
(Signature)	1530	(Signature)	1550
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7436

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Alh
TIME COLLECTED (HH:MM)		1110		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610590			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Frozen black and brown silty sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-37

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 47 dpm
Beta/Gamma \leq 1950 dpm

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

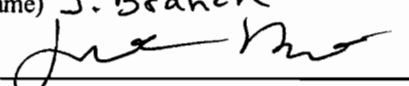

73m 2/25/10

COLLECTED BY (PRINT)

JLMCFarlane

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sherin Sherwood	2/25/10
(Signature) 	1530	(Signature) 	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7437

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1115		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610591		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		0.5	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		SED	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown loamy silt, roots

FD RE36-10-7524

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 38

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 58 dpm
 Beta/Gamma \leq 1785 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7438

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		ok
TIME COLLECTED (HH:MM)		1120		SUB-MEDIA:	TUFF 1		↓
PRS ID:	36-008		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610591		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		2.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		3.0	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		R	EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES (NO) / NA			
BOREHOLE: YES (NO) / NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Pinkish gray, tuff

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 36

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = ⁴¹ 30 dpm
Beta/Gamma = 2210 dpm

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

7 mm 2/25/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7439

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Alk
TIME COLLECTED (HH:MM)		1135		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610592	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

Brown silt, cobbles, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8 - 39

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 41 dpm
Beta/Gamma = 1644 dpm

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

72m 2/25/10

COLLECTED BY (PRINT)

Thmcfarlang

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherrie Newwood (Signature) <i>Sherrie Newwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7440

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		445		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610592			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		2.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		3.0	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		S	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC:

FR RE36-10-7536

Pinkish gray tuff and brown silty sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 8 - 39

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 72 dpm
Beta/Gamma = 2090 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

TLMCFarlane

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7441

WORK ORDER:

AS PLANNED		AS COLLECTED	AS PLANNED		AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		02/25/2010	MEDIA:	QBT3	Allh
TIME COLLECTED (HH:MM)		1104	SUB-MEDIA:	TUFF 1	NA
PRS ID:	36-008	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	36-610593	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA	
			WATER FLOWING: YES/NO/NA		
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA	
			BOREHOLE DIRECTION:	NA	

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

SAMPLE DESC:

Brown loamy silt

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-25

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 64 dpm
Beta/Gamma \leq 1834 dpm

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

Tm 2/25/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) [Signature]	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Jennifer Newwood (Signature) [Signature]	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7442

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED(HH:MM)		1111		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008		ok	SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610593		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0		2.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		3.0	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		S	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:
							NA

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

SAMPLE DESC:

Brown silt, moist, and pinkish gray till

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-25

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 15 dpm
Beta/Gamma \leq 1996 dpm

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

77m 2/25/10

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>[Signature]</i>	Date/Time 1530 2/25/10	RECEIVED BY (Printed Name) <i>[Signature]</i> (Signature) <i>[Signature]</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7443

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		allh
TIME COLLECTED (HH:MM)		1150		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610594	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO/NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC: moist brown silty sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-41

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 41 dpm
Beta/Gamma \leq 1805 dpm

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

73m 2/25/10

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sheri Sherwood	2/25/10
(Signature) <i>J. Branch</i>	1530	(Signature) <i>Sheri Sherwood</i>	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7444

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA: OBT3		A11h	
TIME COLLECTED(HH:MM)		1157		SUB-MEDIA: TUFF 1		NA	
PRS ID: 36-008		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 36-610594		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		2.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		3.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

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

SAMPLE DESC:

Brown silty sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8-41

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 61 dpm

Beta/Gamma ≤ 1623 dpm

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

72m 2/25/10

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>Shenig Henwood</i> (Signature) <i>Shenig Henwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7445

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		1152		SUB-MEDIA:	TUFF 1		NA
PRS ID:	36-008		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610595		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		0.5	SCREEN/PORT DESC:			NA
FIELD MATRIX:	R		S	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION: NA

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

SAMPLE DESC:

moist brown silt, some loam, turf fragments,
roots, pine needles

SAMPLE COMMENTS:

NA

LOCATION DESC: 8-28

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 25 dpm
Beta/Gamma \leq 1583 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 7m 2/25/10

COLLECTED BY (PRINT)

TLM c Farla10

REVIEWED BY (PRINT)

J. Branch

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) <i>Sheri Sherwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7447

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		A11h
TIME COLLECTED(HH:MM)		12:17		SUB-MEDIA:	TUFF 1		N/A
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610596	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) / NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES / (NO) / NA				WATER FLOWING: YES / (NO) / NA			
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: Dark Brown, moist, silty soil w/ roots + cobbles.

FTB: RE36-10-7543

SAMPLE COMMENTS: N/A

LOCATION DESC: 8-42

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \pm 29 dpm
Beta/Gamma \pm 1936 dpm

PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$ 72m 2/25/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT) L. Lopez

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) <i>Sherrill Newwood</i> (Signature) <i>Sherrill Newwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7448

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	OBT3		A11h
TIME COLLECTED (HH:MM)		1230		SUB-MEDIA:	TUFF 1		N/A
PRS ID:	36-008	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	36-610596	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:			NA
FIELD MATRIX:	R	5		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA	NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

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

SAMPLE DESC: Dark Brown, moist, silty soil w roots

FR: RE36-10-7537

SAMPLE COMMENTS: N/A

LOCATION DESC: 8-42

FIELD SCREENING/MEASUREMENT RESULTS:

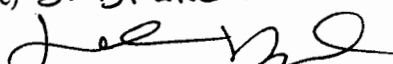

Alpha $\leq 4^7$ dpm
Beta/Gamma ≤ 2000 dpmPID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

73m 2/25/10

COLLECTED BY (PRINT)

J. Branch

REVIEWED BY (PRINT) L. Lopez

RELINQUISHED BY (Printed Name) J. Branch (Signature) 	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherril Greenwood (Signature) 	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7449

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		1711h
TIME COLLECTED (HH:MM)		1345		SUB-MEDIA:	TUFF 1		N/A
PRS ID:	36-008		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610597			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0		0.0	SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0		0.5	SCREEN/PORT DESC:	N/A		
FIELD MATRIX:	R			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	N/A			COMPOSITE TIME INTERVAL:	N/A		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	N/A		
				BOREHOLE DIRECTION:	N/A		

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

SAMPLE DESC: Brown, moist, silty soil w/roots & organics

FD: RE36-10-7525

SAMPLE COMMENTS:

N/A



LOCATION DESC: 8-40

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 29 dpm
Beta/Gamma = 1790 dpmPID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$
28 2/25/10

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

RELINQUISHED BY (Printed Name) J. Branch (Signature) 	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name) Sherrin Sherwood (Signature) 	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7450

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1400		SUB-MEDIA:	TUFF1		N/A
PRS ID:	36-008		OK	SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610597		↓	FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC		↓	FIELD PREP:	NA		↓
TOP DEPTH:	0		2.0	SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0		3.0	SCREEN/PORT DESC:	N/A		
FIELD MATRIX:	R		5	EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	N/A			COMPOSITE TIME INTERVAL:	N/A		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	N/A		
				BOREHOLE DIRECTION:	N/A		

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

SAMPLE DESC: Brown, silty, slightly moist soil w/tuff fragments

SAMPLE COMMENTS:

N/A

LOCATION DESC: 8-40

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 51 dpm
Beta/Gamma = 1996 dpm

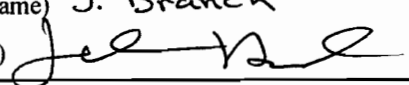
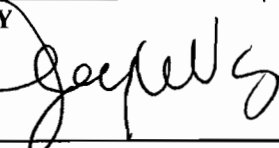
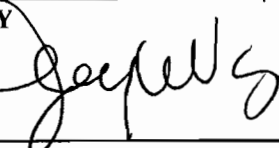
2g 2/25/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

J. Branch

REVIEWED BY (PRINT)

L. Lopez

RELINQUISHED BY (Printed Name) J. Branch (Signature) 	Date/Time 2/25/10 1530	RECEIVED BY (Printed Name)  (Signature) 	Date/Time 2/25/10 1550
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7451

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/2010		MEDIA:	QBT3		A11h
TIME COLLECTED (HH:MM)		1410		SUB-MEDIA:	TUFF 1		N/A
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610598			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	N/A		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NO/NA 2/25/10		
COMPOSITE TYPE:	N/A			COMPOSITE TIME INTERVAL:	N/A		
				WATER FLOWING: YES/NO/NA	NO/NA		
BOREHOLE: YES/NO/NA	NO/NA			BOREHOLE DECLINATION:	N/A		
				BOREHOLE DIRECTION:	N/A		

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

SAMPLE DESC: Brown, moist silty soil

SAMPLE COMMENTS: N/A

LOCATION DESC: 8-52

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 10 dpm
Beta/Gamma = 1578 dpm

PID ^{2.8 2/25/10} ~~Ambient~~ Reading = ppm

COLLECTED BY (PRINT) J. Branch

REVIEWED BY (PRINT) L. Lopez

RELINQUISHED BY (Printed Name) J. Branch (Signature) <i>J. Branch</i>	Date/Time 2/25/10 630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) <i>Sherri Sherwood</i>	Date/Time 2/25/10 1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7452

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/25/10		MEDIA:	OBT3		A11h
TIME COLLECTED(HH:MM)		1430		SUB-MEDIA:	TUFF 1		N/A
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610598			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	N/A		
FIELD MATRIX:	R	5		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	N/A			COMPOSITE TIME INTERVAL:	N/A		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	N/A		
				BOREHOLE DIRECTION:	N/A		

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

SAMPLE DESC: Brown, silty soil w/roots (moist)

SAMPLE COMMENTS:

N/A

LOCATION DESC: 8-52

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 25 dpm
Beta/Gamma = 1688 dpm

202/25/10
PID $\frac{\text{Ambient Reading}}{\text{Reading}} = \text{ppm}$

COLLECTED BY (PRINT)

J. Branch

REVIEWED BY (PRINT)

L. Lopez

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) J. Branch	2/25/10	(Printed Name) Sheri Sherwood	2/25/10
(Signature)	1530	(Signature)	1530
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2194 VALIDATION DATE: 04/27/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Kevin A. Lambert 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 | 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 %R for perchlorate was $< 75\%$ but $\geq 10\%$. However, the MS and MSD were diluted and, thus the associated sample results were not qualified, based on professional judgment.

Reviewed by: Mary Donovan

Level: I

Date: 04/28/10

VALIDATOR'S SIGNATURE: _____


A handwritten signature in black ink, appearing to read "Kevin A. Lambert".

DATE: 04/27/10


Form 5121-1, Revision 0.0

LOS ALAMOS


Environmental Restoration Project

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

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

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7407
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511001
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	3.24	13	54.1	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate Isotope Ratio			3.03			5	24-MAR-10 14:51	per0324012a
14797-73-0	Perchlorate-101	3.24	13	55.9	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate-O(18)			32.8	ug/kg		5	24-MAR-10 14:51	per0324012a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7421
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511002
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.588	2.35	1.81	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate Isotope Ratio			2.75			1	24-MAR-10 15:21	per0324015a
14797-73-0	Perchlorate-101	.588	2.35	2.06	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate-O(18)			6.27	ug/kg		1	24-MAR-10 15:21	per0324015a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7422
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511003
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 94.1

CAS No.	Analyte ^A	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	1.50	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate Isotope Ratio			2.81			1	24-MAR-10 03:24	per0323079a
14797-73-0	Perchlorate-101	.531	2.12	1.61	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate-O(18)			4.67	ug/kg		1	24-MAR-10 03:24	per0323079a

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

*Concentration =

Instrument Value X 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7451
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511004
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 61

CAS No.	Analyte ^A	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate Isotope Ratio						1	24-MAR-10 03:35	per0323080a
14797-73-0	Perchlorate-101	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate-Q(18)			7.63	ug/kg		1	24-MAR-10 03:35	per0323080a

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

*Concentration =
 Instrument Value X 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7449
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511005
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.608	2.43	0.714	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 03:45	per0323081a
14797-73-0	Perchlorate-101	.608	2.43	0.826	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate-O(18)			5.74	ug/kg		1	24-MAR-10 03:45	per0323081a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7445
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511006
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 74

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	31.9	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate Isotope Ratio			2.99			4	24-MAR-10 15:31	per0324016a
14797-73-0	Perchlorate-101	2.69	10.8	33.4	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate-O(18)			29.2	ug/kg		4	24-MAR-10 15:31	per0324016a

[^] 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: 962129
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-7450
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511007
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 % Solids: 90.1
 Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.555	2.22	0.672	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 15:41	per0324017a
14797-73-0	Perchlorate-101	.555	2.22	0.806	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate-O(18)			5.67	ug/kg		1	24-MAR-10 15:41	per0324017a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7444
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511008
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 79

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.63	2.52	0.673	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate Isotope Ratio			3.2			1	24-MAR-10 04:49	per0323087a
14797-73-0	Perchlorate-101	.63	2.52	0.634	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate-O(18)			5.78	ug/kg		1	24-MAR-10 04:49	per0323087a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7448
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511009
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 83

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:00	per0323088a
14797-73-0	Perchlorate-101	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate-O(18)			5.37	ug/kg		1	24-MAR-10 05:00	per0323088a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7447
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511010
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.699	2.8	0.994	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate Isotope Ratio			3.23			1	24-MAR-10 05:10	per0323089a
14797-73-0	Perchlorate-101	.699	2.8	0.927	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate-O(18)			6.14	ug/kg		1	24-MAR-10 05:10	per0323089a

[^] 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: 962129
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-7443
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511011
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 75
 Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:21	per0323090a
14797-73-0	Perchlorate-101	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate-O(18)			6.01	ug/kg		1	24-MAR-10 05:21	per0323090a

[^] 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: 962129
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No.
RE36-10-7452
Date Received: 03-MAR-10
GEL Job No (SDG): 10-2194
GEL Sample ID: 248511012
Date Filtered: 17-MAR-10
Injection Volume (uL): 20
%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:31	per0323091a
14797-73-0	Perchlorate-101	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate-O(18)			6.03	ug/kg		1	24-MAR-10 05:31	per0323091a

[^] 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 =

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

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: 262129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7437

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511013

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	1.80	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate Isotope Ratio			3.14			1	24-MAR-10 05:42	per0323092a
14797-73-0	Perchlorate-101	.597	2.39	1.72	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate-O(18)			5.80	ug/kg		1	24-MAR-10 05:42	per0323092a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7440
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511014
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 91.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.544	2.18	0.658	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate Isotope Ratio			3.06			1	24-MAR-10 05:52	per0323093a
14797-73-0	Perchlorate-101	.544	2.18	0.649	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate-O(18)			4.98	ug/kg		1	24-MAR-10 05:52	per0323093a

[^] 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: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7435

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511015

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 70

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate Isotope Ratio						1	24-MAR-10 06:03	per0323094a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate-O(18)			6.42	ug/kg		1	24-MAR-10 06:03	per0323094a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7441
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511016
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 78

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.644	2.58	2.68	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate Isotope Ratio			2.87			1	24-MAR-10 06:46	per0323098a
14797-73-0	Perchlorate-101	.644	2.58	2.81	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate-O(18)			5.97	ug/kg		1	24-MAR-10 06:46	per0323098a

^ 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: 962129
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-7442
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511017
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 87

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.576	2.31	1.64	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate Isotope Ratio			2.93			1	24-MAR-10 06:57	per0323099a
14797-73-0	Perchlorate-101	.576	2.31	1.68	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate-O(18)			5.23	ug/kg		1	24-MAR-10 06:57	per0323099a

[^] 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: 962129
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-7436
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511018
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 79

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.636	2.54	1.43	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate Isotope Ratio			2.91			1	24-MAR-10 07:07	per0323100a
14797-73-0	Perchlorate-101	.636	2.54	1.48	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate-O(18)			5.50	ug/kg		1	24-MAR-10 07:07	per0323100a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids Aliquot

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7438
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511019
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 94.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.528	2.11	0.633	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate Isotope Ratio			3			1	24-MAR-10 07:18	per0323101a
14797-73-0	Perchlorate-101	.528	2.11	0.635	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate-O(18)			4.92	ug/kg		1	24-MAR-10 07:18	per0323101a

[^] 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: 962129
 Extraction Type: Solid Prep
 Client Sample No. RE36-10-7439
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511020
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 82
 Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.61	2.44	0.991	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate Isotope Ratio			2.9			1	24-MAR-10 07:28	per0323102a
14797-73-0	Perchlorate-101	.61	2.44	1.03	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate-O(18)			5.88	ug/kg		1	24-MAR-10 07:28	per0323102a

[^] 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

DATA VALIDATION COVER SHEET

5118-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2194 VALIDATION DATE: 04/27/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Kevin A. Lambert 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):


1. In the ICB/CCB, K was detected. All associated sample results were detects >5X the greatest ICB/CCB concentrations and, thus, were not qualified.
2. In the FR blanks, samples RE36-10-7537 and -7536 from RN 10-2197, associated with all field samples in this RN, Fe and Na were detected. The Na results were detects ≤5X the FR blank concentration and, thus, were qualified U,I4d. The Fe results were detects >5X the FR blank concentration and, thus, were not qualified.
3. The MS %Rs for Al, Ba, Ca, Fe, Mg, Mn, Hg, and K were > the laboratory UAL. However, the associated parent sample concentrations for Al, Ca, Fe, Mn, and Hg were >4X the spike concentrations. Thus, no sample data were qualified as result, based on professional judgment. All Ba, Mg, and K results were detects and, thus, were qualified J+,I6b.

Reviewed by: Mary DonovanLevel: IDate: 04/28/10


VALIDATOR'S SIGNATURE: _____

Kevin A. LambertDATE: 04/27/10


DATA VALIDATION COVER SHEET	
5118-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1945
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

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

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input 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 windows.	R, I1a	J, I1a

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

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input 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: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511001

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7407

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4260000	ug/Kg		8000	23500	23500	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-36-0	Antimony	1180	ug/Kg	U	388	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-38-2	Arsenic	1.7	mg/kg		0.248	1.24	1.24	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-39-3	Barium	48900	ug/Kg	N	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-41-7	Beryllium	0.644	mg/kg		0.0248	0.124	0.124	2	MS	PRB	04/18/10 12:38	100418-3	961535
7440-43-9	Cadmium	209	ug/Kg	J	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-70-2	Calcium	2570000	ug/Kg		9410	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-47-3	Chromium	7390	ug/Kg		176	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-48-4	Cobalt	1610	ug/Kg		176	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-50-8	Copper	4980	ug/Kg		353	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-89-6	Iron	7620000	ug/Kg	*	9410	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-92-1	Lead	7450	ug/Kg		294	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-95-4	Magnesium	997000	ug/Kg	N	10000	35300	35300	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-96-5	Manganese	368000	ug/Kg		235	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-97-6	Mercury	706	ug/kg		4.92	14.5	14.5	1	AV	JXL1	03/17/10 10:12	031710S1-5	964746
7440-02-0	Nickel	6	mg/kg		0.124	0.496	0.496	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-09-7	Potassium	1100000	ug/Kg	N	7530	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7782-49-2	Selenium	1.24	mg/kg	U	0.62	1.24	1.24	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-22-4	Silver	588	ug/Kg	U	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-23-5	Sodium	54200	ug/Kg		8230	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-28-0	Thallium	0.102	mg/kg	J	0.0744	0.248	0.248	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-61-1	Uranium	1.07	mg/kg		0.0164	0.0496	0.0496	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-62-2	Vanadium	7680	ug/Kg		118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-66-6	Zinc	72800	ug/Kg		388	1180	1180	1	P	HSC	04/12/10 19:25	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.551	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.523	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.537	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.551	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511002

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7421

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	5150000	ug/Kg		7850	23100	23100	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 36 0	Antimony	1160	ug/Kg	U	381	1160	1160	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 38 2	Arsenic	0.934	mg/kg	J	0.224	1.12	1.12	2	MS	BCD1	04/17/10 19:06	100417 4	961535
7440 39 3	Barium	69100	ug/Kg	N	116	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 41 7	Beryllium	0.378	mg/kg		0.0224	0.112	0.112	2	MS	PRB	04/18/10 12:52	100418 3	961535
7440 43 9	Cadmium	578	ug/Kg	U	116	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 70 2	Calcium	2500000	ug/Kg		9240	28900	28900	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 47 3	Chromium	13100	ug/Kg		173	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 48 4	Cobalt	2700	ug/Kg		173	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 50 8	Copper	7330	ug/Kg		347	1160	1160	1	P	HSC	03/31/10 15:55	033110A 1	961532
7439 89 6	Iron	8690000	ug/Kg	*	9240	28900	28900	1	P	HSC	03/31/10 15:55	033110A 1	961532
7439 92 1	Lead	13600	ug/Kg		289	1160	1160	1	P	HSC	03/31/10 15:55	033110A 1	961532
7439 95 4	Magnesium	1100000	ug/Kg	N	9820	34700	34700	1	P	HSC	03/31/10 15:55	033110A 1	961532
7439 96 5	Manganese	325000	ug/Kg		231	1160	1160	1	P	HSC	03/31/10 15:55	033110A 1	961532
7439 97 6	Mercury	27.6	ug/kg		4.68	13.8	13.8	1	AV	JXL1	03/17/10 10:22	031710S1 5	964746
7440 02 0	Nickel	4.28	mg/kg		0.112	0.448	0.448	2	MS	BCD1	04/17/10 19:06	100417 4	961535
7440 09 7	Potassium	867000	ug/Kg	N	7390	28900	28900	1	P	HSC	03/31/10 15:55	033110A 1	961532
7782 49 2	Selenium	1.12	mg/kg	U	0.56	1.12	1.12	2	MS	BCD1	04/17/10 19:06	100417 4	961535
7440 22 4	Silver	578	ug/Kg	U	116	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 23 5	Sodium	63900	ug/Kg		8090	28900	28900	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 28 0	Thallium	0.0726	mg/kg	J	0.0672	0.224	0.224	2	MS	BCD1	04/17/10 19:06	100417 4	961535
7440 61 1	Uranium	0.947	mg/kg		0.0148	0.0448	0.0448	2	MS	BCD1	04/17/10 19:06	100417 4	961535
7440 62 2	Vanadium	11500	ug/Kg		116	578	578	1	P	HSC	03/31/10 15:55	033110A 1	961532
7440 66 6	Zinc	42200	ug/Kg		369	1120	1120	1	P	HSC	04/12/10 20:00	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.509	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.525	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.526	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7422

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 94.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5990000	ug/Kg		7120	21000	21000	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-36-0	Antimony	1050	ug/Kg	U	346	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-38-2	Arsenic	1.35	mg/kg		0.209	1.05	1.05	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-39-3	Barium J+,I6b	40200	ug/Kg	N	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-41-7	Beryllium	0.443	mg/kg		0.0209	0.105	0.105	2	MS	PRB	04/18/10 12:54	100418-3	961535
7440-43-9	Cadmium	524	ug/Kg	U	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-70-2	Calcium	1160000	ug/Kg		8380	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-47-3	Chromium	12000	ug/Kg		157	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-48-4	Cobalt	2530	ug/Kg		157	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-50-8	Copper	3940	ug/Kg		314	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-89-6	Iron	10200000	ug/Kg	*	8380	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-92-1	Lead	6390	ug/Kg		262	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-95-4	Magnesium J+,I6b	1080000	ug/Kg	N	8900	31400	31400	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-96-5	Manganese	186000	ug/Kg		210	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-97-6	Mercury	15.6	ug/kg		3.87	11.4	11.4	1	AV	JXL1	03/17/10 10:24	031710S1-5	964746
7440-02-0	Nickel	3.71	mg/kg		0.105	0.418	0.418	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-09-7	Potassium J+,I6b	728000	ug/Kg	N	6700	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7782-49-2	Selenium	1.05	mg/kg	U	0.523	1.05	1.05	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-22-4	Silver	524	ug/Kg	U	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-23-5	Sodium U,I4d	72900	ug/Kg		7330	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-28-0	Thallium	0.209	mg/kg	U	0.0627	0.209	0.209	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-61-1	Uranium	0.542	mg/kg		0.0138	0.0418	0.0418	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-62-2	Vanadium	12200	ug/Kg		105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-66-6	Zinc	28000	ug/Kg		326	989	989	1	P	HSC	04/12/10 20:06	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.507	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.508	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.56	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.537	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511004

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7451

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 61

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	8550000	ug/Kg		10700	31400	31400	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 36 0	Antimony	1570	ug/Kg	U	519	1570	1570	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 38 2	Arsenic	1.86	mg/kg		0.298	1.49	1.49	2	MS	BCD1	04/17/10 19:14	100417 4	961535
7440 39 3	Barium	169000	ug/Kg	N	157	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 41 7	Beryllium	0.492	mg/kg		0.0298	0.149	0.149	2	MS	PRB	04/18/10 12:56	100418 3	961535
7440 43 9	Cadmium	786	ug/Kg	U	157	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 70 2	Calcium	5230000	ug/Kg		12600	39300	39300	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 47 3	Chromium	21500	ug/Kg		236	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 48 4	Cobalt	4570	ug/Kg		236	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 50 8	Copper	8510	ug/Kg		472	1570	1570	1	P	HSC	03/31/10 16:04	033110A 1	961532
7439 89 6	Iron	11000000	ug/Kg	*	12600	39300	39300	1	P	HSC	03/31/10 16:04	033110A 1	961532
7439 92 1	Lead	13100	ug/Kg		393	1570	1570	1	P	HSC	03/31/10 16:04	033110A 1	961532
7439 95 4	Magnesium	1830000	ug/Kg	N	13400	47200	47200	1	P	HSC	03/31/10 16:04	033110A 1	961532
7439 96 5	Manganese	638000	ug/Kg		314	1570	1570	1	P	HSC	03/31/10 16:04	033110A 1	961532
7439 97 6	Mercury	38.1	ug/kg		6.55	19.3	19.3	1	AV	JXL1	03/17/10 10:26	031710S1 5	964746
7440 02 0	Nickel	6.33	mg/kg		0.149	0.596	0.596	2	MS	BCD1	04/17/10 19:14	100417 4	961535
7440 09 7	Potassium	1800000	ug/Kg	N	10100	39300	39300	1	P	HSC	03/31/10 16:04	033110A 1	961532
7782 49 2	Selenium	1.49	mg/kg	U	0.745	1.49	1.49	2	MS	BCD1	04/17/10 19:14	100417 4	961535
7440 22 4	Silver	786	ug/Kg	U	157	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 23 5	Sodium	68300	ug/Kg		11000	39300	39300	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 28 0	Thallium	0.0947	mg/kg	J	0.0894	0.298	0.298	2	MS	BCD1	04/17/10 19:14	100417 4	961535
7440 61 1	Uranium	1.46	mg/kg		0.0197	0.0596	0.0596	2	MS	BCD1	04/17/10 19:14	100417 4	961535
7440 62 2	Vanadium	17100	ug/Kg		157	786	786	1	P	HSC	03/31/10 16:04	033110A 1	961532
7440 66 6	Zinc	32900	ug/Kg		465	1410	1410	1	P	HSC	04/12/10 20:28	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.525	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.554	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.514	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.585	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511005

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7449

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6460000	ug/Kg		8030	23600	23600	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-36-0	Antimony	1180	ug/Kg	U	390	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-38-2	Arsenic	1.97	mg/kg		0.23	1.15	1.15	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-39-3	Barium J+,I6b	65500	ug/Kg	N	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-41-7	Beryllium	0.440	mg/kg		0.023	0.115	0.115	2	MS	PRB	04/18/10 12:59	100418-3	961535
7440-43-9	Cadmium	591	ug/Kg	U	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-70-2	Calcium	3400000	ug/Kg		9450	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-47-3	Chromium	6570	ug/Kg		177	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-48-4	Cobalt	2850	ug/Kg		177	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-50-8	Copper	4980	ug/Kg		354	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-89-6	Iron	10300000	ug/Kg	*	9450	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-92-1	Lead	7780	ug/Kg		295	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-95-4	Magnesium J+,I6b	1440000	ug/Kg	N	10000	35400	35400	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-96-5	Manganese	252000	ug/Kg		236	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-97-6	Mercury	24.4	ug/kg		4.93	14.5	14.5	1	AV	JXL1	03/17/10 10:28	031710S1-5	964746
7440-02-0	Nickel	4.36	mg/kg		0.115	0.46	0.46	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-09-7	Potassium J+,I6b	1210000	ug/Kg	N	7560	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-22-4	Silver	591	ug/Kg	U	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-23-5	Sodium U,I4d	54600	ug/Kg		8270	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-28-0	Thallium	0.0865	mg/kg	J	0.069	0.23	0.23	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-61-1	Uranium	1.01	mg/kg		0.0152	0.046	0.046	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-62-2	Vanadium	17900	ug/Kg		118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-66-6	Zinc	28600	ug/Kg		352	1070	1070	1	P	HSC	04/12/10 20:35	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.515	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.529	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.503	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.57	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511006

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7445

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 74

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	5110000	ug/Kg		8620	25400	25400	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 36 0	Antimony	1270	ug/Kg	U	418	1270	1270	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 38 2	Arsenic	1.87	mg/kg		0.257	1.28	1.28	2	MS	BCD1	04/17/10 19:23	100417 4	961535
7440 39 3	Barium	71700	ug/Kg	N	127	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 41 7	Beryllium	0.447	mg/kg		0.0257	0.128	0.128	2	MS	PRB	04/18/10 13:01	100418 3	961535
7440 43 9	Cadmium	149	ug/Kg	J	127	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 70 2	Calcium	3320000	ug/Kg		10100	31700	31700	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 47 3	Chromium	13200	ug/Kg		190	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 48 4	Cobalt	2390	ug/Kg		190	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 50 8	Copper	6990	ug/Kg		380	1270	1270	1	P	HSC	03/31/10 16:08	033110A 1	961532
7439 89 6	Iron	9680000	ug/Kg	*	10100	31700	31700	1	P	HSC	03/31/10 16:08	033110A 1	961532
7439 92 1	Lead	11500	ug/Kg		317	1270	1270	1	P	HSC	03/31/10 16:08	033110A 1	961532
7439 95 4	Magnesium	1210000	ug/Kg	N	10800	38000	38000	1	P	HSC	03/31/10 16:08	033110A 1	961532
7439 96 5	Manganese	692000	ug/Kg		254	1270	1270	1	P	HSC	03/31/10 16:08	033110A 1	961532
7439 97 6	Mercury	199	ug/kg		5.3	15.6	15.6	1	AV	JXL1	03/17/10 10:34	031710S1 5	964746
7440 02 0	Nickel	4.98	mg/kg		0.128	0.514	0.514	2	MS	BCD1	04/17/10 19:23	100417 4	961535
7440 09 7	Potassium	1120000	ug/Kg	N	8120	31700	31700	1	P	HSC	03/31/10 16:08	033110A 1	961532
7782 49 2	Selenium	1.28	mg/kg	U	0.642	1.28	1.28	2	MS	BCD1	04/17/10 19:23	100417 4	961535
7440 22 4	Silver	634	ug/Kg	U	127	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 23 5	Sodium	91400	ug/Kg		8880	31700	31700	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 28 0	Thallium	0.257	mg/kg	U	0.0771	0.257	0.257	2	MS	BCD1	04/17/10 19:23	100417 4	961535
7440 61 1	Uranium	1.34	mg/kg		0.017	0.0514	0.0514	2	MS	BCD1	04/17/10 19:23	100417 4	961535
7440 62 2	Vanadium	10500	ug/Kg		127	634	634	1	P	HSC	03/31/10 16:08	033110A 1	961532
7440 66 6	Zinc	53700	ug/Kg		405	1230	1230	1	P	HSC	04/12/10 20:42	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.53	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.523	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.548	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511007

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7450

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 90.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9290000	ug/Kg		7470	22000	22000	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-36-0	Antimony	1100	ug/Kg	U	363	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-38-2	Arsenic	1.94	mg/kg		0.204	1.02	1.02	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-39-3	Barium J+,I6b	53800	ug/Kg	N	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-41-7	Beryllium	0.397	mg/kg		0.0204	0.102	0.102	2	MS	PRB	04/18/10 13:03	100418-3	961535
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-70-2	Calcium	1620000	ug/Kg		8790	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-47-3	Chromium	10400	ug/Kg		165	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-48-4	Cobalt	3600	ug/Kg		165	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-50-8	Copper	5210	ug/Kg		330	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-89-6	Iron	13400000	ug/Kg	*	8790	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-92-1	Lead	8880	ug/Kg		275	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-95-4	Magnesium J+,I6b	1880000	ug/Kg	N	9340	33000	33000	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-96-5	Manganese	188000	ug/Kg		220	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-97-6	Mercury	8.55	ug/kg	J	4.38	12.9	12.9	1	AV	JXL1	03/17/10 10:36	031710S1-5	964746
7440-02-0	Nickel	4.03	mg/kg		0.102	0.409	0.409	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-09-7	Potassium J+,I6b	1400000	ug/Kg	N	7030	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7782-49-2	Selenium	1.02	mg/kg	U	0.511	1.02	1.02	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-22-4	Silver	549	ug/Kg	U	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-23-5	Sodium U,I4d	105000	ug/Kg		7690	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-28-0	Thallium	0.0817	mg/kg	J	0.0613	0.204	0.204	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-61-1	Uranium	0.628	mg/kg		0.0135	0.0409	0.0409	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-62-2	Vanadium	23100	ug/Kg		110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-66-6	Zinc	33200	ug/Kg		329	998	998	1	P	HSC	04/12/10 20:49	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.505	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.543	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.556	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511008

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7444

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	9660000	ug/Kg		8110	23800	23800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 36 0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 38 2	Arsenic	1.88	mg/kg		0.239	1.2	1.2	2	MS	BCD1	04/17/10 19:31	100417 4	961535
7440 39 3	Barium J+,I6b	109000	ug/Kg	N	119	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 41 7	Beryllium	0.449	mg/kg		0.0239	0.12	0.12	2	MS	PRB	04/18/10 13:05	100418 3	961535
7440 43 9	Cadmium	596	ug/Kg	U	119	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 70 2	Calcium	2620000	ug/Kg		9540	29800	29800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 47 3	Chromium	32700	ug/Kg		179	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 48 4	Cobalt	11300	ug/Kg		179	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 50 8	Copper	7830	ug/Kg		358	1190	1190	1	P	HSC	03/31/10 16:12	033110A 1	961532
7439 89 6	Iron	13900000	ug/Kg	*	9540	29800	29800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7439 92 1	Lead	14000	ug/Kg		298	1190	1190	1	P	HSC	03/31/10 16:12	033110A 1	961532
7439 95 4	Magnesium J+,I6b	2010000	ug/Kg	N	10100	35800	35800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7439 96 5	Manganese	470000	ug/Kg		238	1190	1190	1	P	HSC	03/31/10 16:12	033110A 1	961532
7439 97 6	Mercury	26	ug/kg		4.89	14.4	14.4	1	AV	JXL1	03/17/10 10:38	031710S1 5	964746
7440 02 0	Nickel	5.79	mg/kg		0.12	0.479	0.479	2	MS	BCD1	04/17/10 19:31	100417 4	961535
7440 09 7	Potassium J+,I6b	1650000	ug/Kg	N	7630	29800	29800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7782 49 2	Selenium	1.2	mg/kg	U	0.598	1.2	1.2	2	MS	BCD1	04/17/10 19:31	100417 4	961535
7440 22 4	Silver	596	ug/Kg	U	119	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 23 5	Sodium U,I4d	94800	ug/Kg		8350	29800	29800	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 28 0	Thallium	0.0893	mg/kg	J	0.0718	0.239	0.239	2	MS	BCD1	04/17/10 19:31	100417 4	961535
7440 61 1	Uranium	0.981	mg/kg		0.0158	0.0479	0.0479	2	MS	BCD1	04/17/10 19:31	100417 4	961535
7440 62 2	Vanadium	25400	ug/Kg		119	596	596	1	P	HSC	03/31/10 16:12	033110A 1	961532
7440 66 6	Zinc	33800	ug/Kg		400	1210	1210	1	P	HSC	04/12/10 20:56	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.528	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.526	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.525	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.52	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511009

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7448

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6690000	ug/Kg		8190	24100	24100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-36-0	Antimony	1200	ug/Kg	U	398	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-38-2	Arsenic	1.46	mg/kg		0.24	1.2	1.2	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-39-3	Barium J+,I6b	73100	ug/Kg	N	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-41-7	Beryllium	0.514	mg/kg		0.024	0.12	0.12	2	MS	PRB	04/18/10 13:07	100418-3	961535
7440-43-9	Cadmium	602	ug/Kg	U	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-70-2	Calcium	3650000	ug/Kg		9640	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-47-3	Chromium	14800	ug/Kg		181	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-48-4	Cobalt	3110	ug/Kg		181	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-50-8	Copper	5510	ug/Kg		361	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-89-6	Iron	11300000	ug/Kg	*	9640	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-92-1	Lead	8030	ug/Kg		301	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-95-4	Magnesium J+,I6b	1380000	ug/Kg	N	10200	36100	36100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-96-5	Manganese	297000	ug/Kg		241	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-97-6	Mercury	8.13	ug/kg	J	4.66	13.7	13.7	1	AV	JXL1	03/17/10 10:40	031710S1-5	964746
7440-02-0	Nickel	4.93	mg/kg		0.12	0.479	0.479	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-09-7	Potassium J+,I6b	1710000	ug/Kg	N	7710	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7782-49-2	Selenium	1.2	mg/kg	U	0.599	1.2	1.2	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-22-4	Silver	602	ug/Kg	U	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-23-5	Sodium U,I4d	62300	ug/Kg		8430	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-28-0	Thallium	0.240	mg/kg	U	0.0719	0.24	0.24	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-61-1	Uranium	0.756	mg/kg		0.0158	0.0479	0.0479	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-62-2	Vanadium	14000	ug/Kg		120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-66-6	Zinc	46900	ug/Kg		378	1150	1150	1	P	HSC	04/12/10 21:03	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.503	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.506	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.531	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.529	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511010

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7447

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	4780000	ug/Kg		8510	25000	25000	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 36 0	Antimony	1250	ug/Kg	U	413	1250	1250	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 38 2	Arsenic	1.79	mg/kg		0.279	1.4	1.4	2	MS	BCD1	04/17/10 19:39	100417 4	961535
7440 39 3	Barium	108000	ug/Kg	N	125	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 41 7	Beryllium	0.553	mg/kg		0.0279	0.14	0.14	2	MS	PRB	04/18/10 13:09	100418 3	961535
7440 43 9	Cadmium	626	ug/Kg	U	125	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 70 2	Calcium	5420000	ug/Kg		10000	31300	31300	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 47 3	Chromium	8810	ug/Kg		188	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 48 4	Cobalt	2280	ug/Kg		188	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 50 8	Copper	6400	ug/Kg		375	1250	1250	1	P	HSC	03/31/10 16:16	033110A 1	961532
7439 89 6	Iron	7830000	ug/Kg	*	10000	31300	31300	1	P	HSC	03/31/10 16:16	033110A 1	961532
7439 92 1	Lead	7790	ug/Kg		313	1250	1250	1	P	HSC	03/31/10 16:16	033110A 1	961532
7439 95 4	Magnesium	1220000	ug/Kg	N	10600	37500	37500	1	P	HSC	03/31/10 16:16	033110A 1	961532
7439 96 5	Manganese	419000	ug/Kg		250	1250	1250	1	P	HSC	03/31/10 16:16	033110A 1	961532
7439 97 6	Mercury	23.1	ug/kg		4.84	14.2	14.2	1	AV	JXL1	03/17/10 10:42	031710S1 5	964746
7440 02 0	Nickel	6.56	mg/kg		0.14	0.558	0.558	2	MS	BCD1	04/17/10 19:39	100417 4	961535
7440 09 7	Potassium	1490000	ug/Kg	N	8010	31300	31300	1	P	HSC	03/31/10 16:16	033110A 1	961532
7782 49 2	Selenium	1.4	mg/kg	U	0.698	1.4	1.4	2	MS	BCD1	04/17/10 19:39	100417 4	961535
7440 22 4	Silver	626	ug/Kg	U	125	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 23 5	Sodium	43600	ug/Kg		8760	31300	31300	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 28 0	Thallium	0.279	mg/kg	U	0.0838	0.279	0.279	2	MS	BCD1	04/17/10 19:39	100417 4	961535
7440 61 1	Uranium	1.31	mg/kg		0.0184	0.0558	0.0558	2	MS	BCD1	04/17/10 19:39	100417 4	961535
7440 62 2	Vanadium	10100	ug/Kg		125	626	626	1	P	HSC	03/31/10 16:16	033110A 1	961532
7440 66 6	Zinc	45300	ug/Kg		443	1340	1340	1	P	HSC	04/12/10 21:10	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.559	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.501	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.589	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.521	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511011

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7443

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8390000	ug/Kg		8750	25700	25700	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-36-0	Antimony	1290	ug/Kg	U	425	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-38-2	Arsenic	1.87	mg/kg		0.257	1.28	1.28	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-39-3	Barium	88200	ug/Kg	N	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-41-7	Beryllium	0.474	mg/kg		0.0257	0.128	0.128	2	MS	PRB	04/18/10 13:15	100418-3	961535
7440-43-9	Cadmium	643	ug/Kg	U	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-70-2	Calcium	2640000	ug/Kg		10300	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-47-3	Chromium	14500	ug/Kg		193	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-48-4	Cobalt	4110	ug/Kg		193	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-50-8	Copper	7460	ug/Kg		386	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-89-6	Iron	12300000	ug/Kg	*	10300	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-92-1	Lead	13000	ug/Kg		322	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-95-4	Magnesium	1740000	ug/Kg	N	10900	38600	38600	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-96-5	Manganese	290000	ug/Kg		257	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-97-6	Mercury	24.4	ug/kg		4.64	13.6	13.6	1	AV	JXL1	03/17/10 10:44	031710S1-5	964746
7440-02-0	Nickel	5.57	mg/kg		0.128	0.514	0.514	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-09-7	Potassium	1640000	ug/Kg	N	8230	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7782-49-2	Selenium	1.28	mg/kg	U	0.642	1.28	1.28	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-22-4	Silver	643	ug/Kg	U	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-23-5	Sodium	65800	ug/Kg		9010	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-28-0	Thallium	0.0922	mg/kg	J	0.077	0.257	0.257	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-61-1	Uranium	1.53	mg/kg		0.0169	0.0514	0.0514	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-62-2	Vanadium	20300	ug/Kg		129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-66-6	Zinc	35100	ug/Kg		403	1220	1220	1	P	HSC	04/12/10 21:17	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.519	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.52	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.587	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.547	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511012

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7452

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	8310000	ug/Kg		8320	24500	24500	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 36 0	Antimony	1220	ug/Kg	U	404	1220	1220	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 38 2	Arsenic	1.57	mg/kg		0.263	1.32	1.32	2	MS	BCD1	04/17/10 19:56	100417 4	961535
7440 39 3	Barium	144000	ug/Kg	N	122	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 41 7	Beryllium	0.573	mg/kg		0.0263	0.132	0.132	2	MS	PRB	04/18/10 13:17	100418 3	961535
7440 43 9	Cadmium	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 70 2	Calcium	3750000	ug/Kg		9790	30600	30600	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 47 3	Chromium	23200	ug/Kg		183	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 48 4	Cobalt	4370	ug/Kg		183	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 50 8	Copper	7450	ug/Kg		367	1220	1220	1	P	HSC	03/31/10 16:21	033110A 1	961532
7439 89 6	Iron	11400000	ug/Kg	*	9790	30600	30600	1	P	HSC	03/31/10 16:21	033110A 1	961532
7439 92 1	Lead	11900	ug/Kg		306	1220	1220	1	P	HSC	03/31/10 16:21	033110A 1	961532
7439 95 4	Magnesium	1600000	ug/Kg	N	10400	36700	36700	1	P	HSC	03/31/10 16:21	033110A 1	961532
7439 96 5	Manganese	564000	ug/Kg		245	1220	1220	1	P	HSC	03/31/10 16:21	033110A 1	961532
7439 97 6	Mercury	11.3	ug/kg	J	5.19	15.3	15.3	1	AV	JXL1	03/17/10 10:46	031710S1 5	964746
7440 02 0	Nickel	6.83	mg/kg		0.132	0.526	0.526	2	MS	BCD1	04/17/10 19:56	100417 4	961535
7440 09 7	Potassium	1650000	ug/Kg	N	7830	30600	30600	1	P	HSC	03/31/10 16:21	033110A 1	961532
7782 49 2	Selenium	1.32	mg/kg	U	0.658	1.32	1.32	2	MS	BCD1	04/17/10 19:56	100417 4	961535
7440 22 4	Silver	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 23 5	Sodium	87600	ug/Kg		8560	30600	30600	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 28 0	Thallium	0.0965	mg/kg	J	0.0789	0.263	0.263	2	MS	BCD1	04/17/10 19:56	100417 4	961535
7440 61 1	Uranium	1.09	mg/kg		0.0174	0.0526	0.0526	2	MS	BCD1	04/17/10 19:56	100417 4	961535
7440 62 2	Vanadium	17000	ug/Kg		122	612	612	1	P	HSC	03/31/10 16:21	033110A 1	961532
7440 66 6	Zinc	33300	ug/Kg		432	1310	1310	1	P	HSC	04/12/10 21:24	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.544	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.506	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.523	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.508	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511013

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7437

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4380000	ug/Kg		7580	22300	22300	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-36-0	Antimony	1110	ug/Kg	U	368	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-38-2	Arsenic	1.22	mg/kg		0.236	1.18	1.18	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-39-3	Barium J+,I6b	46900	ug/Kg	N	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-41-7	Beryllium	0.495	mg/kg		0.0236	0.118	0.118	2	MS	PRB	04/18/10 13:19	100418-3	961535
7440-43-9	Cadmium	557	ug/Kg	U	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-70-2	Calcium	2500000	ug/Kg		8910	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-47-3	Chromium	4070	ug/Kg		167	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-48-4	Cobalt	1610	ug/Kg		167	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-50-8	Copper	4060	ug/Kg		334	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-89-6	Iron	7080000	ug/Kg	*	8910	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-92-1	Lead	6850	ug/Kg		279	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-95-4	Magnesium J+,I6b	985000	ug/Kg	N	9470	33400	33400	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-96-5	Manganese	441000	ug/Kg		223	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-97-6	Mercury	99.3	ug/kg		4.51	13.3	13.3	1	AV	JXL1	03/17/10 10:48	031710S1-5	964746
7440-02-0	Nickel	4.71	mg/kg		0.118	0.471	0.471	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-09-7	Potassium J+,I6b	890000	ug/Kg	N	7130	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7782-49-2	Selenium	1.18	mg/kg	U	0.589	1.18	1.18	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-22-4	Silver	557	ug/Kg	U	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-23-5	Sodium U,I4d	46800	ug/Kg		7800	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-28-0	Thallium	0.236	mg/kg	U	0.0707	0.236	0.236	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-61-1	Uranium	1.96	mg/kg		0.0155	0.0471	0.0471	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-62-2	Vanadium	7560	ug/Kg		111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-66-6	Zinc	34600	ug/Kg		367	1110	1110	1	P	HSC	04/12/10 21:45	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.536	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.507	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.54	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.537	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511014

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7440

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 91.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	5410000	ug/Kg		7000	20600	20600	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 36 0	Antimony	1030	ug/Kg	U	340	1030	1030	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 38 2	Arsenic	1.21	mg/kg		0.212	1.06	1.06	2	MS	BCD1	04/17/10 20:04	100417 4	961535
7440 39 3	Barium J+,16b	44800	ug/Kg	N	103	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 41 7	Beryllium	0.488	mg/kg		0.0212	0.106	0.106	2	MS	PRB	04/18/10 13:21	100418 3	961535
7440 43 9	Cadmium	514	ug/Kg	U	103	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 70 2	Calcium	1580000	ug/Kg		8230	25700	25700	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 47 3	Chromium	11700	ug/Kg		154	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 48 4	Cobalt	2150	ug/Kg		154	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 50 8	Copper	3900	ug/Kg		309	1030	1030	1	P	HSC	03/31/10 16:30	033110A 1	961532
7439 89 6	Iron	9260000	ug/Kg	*	8230	25700	25700	1	P	HSC	03/31/10 16:30	033110A 1	961532
7439 92 1	Lead	6630	ug/Kg		257	1030	1030	1	P	HSC	03/31/10 16:30	033110A 1	961532
7439 95 4	Magnesium J+,16b	1100000	ug/Kg	N	8750	30900	30900	1	P	HSC	03/31/10 16:30	033110A 1	961532
7439 96 5	Manganese	301000	ug/Kg		206	1030	1030	1	P	HSC	03/31/10 16:30	033110A 1	961532
7439 97 6	Mercury	7.58	ug/kg	J	4.29	12.6	12.6	1	AV	JXL1	03/17/10 10:50	031710S1 5	964746
7440 02 0	Nickel	3.37	mg/kg		0.106	0.424	0.424	2	MS	BCD1	04/17/10 20:04	100417 4	961535
7440 09 7	Potassium J+,16b	871000	ug/Kg	N	6580	25700	25700	1	P	HSC	03/31/10 16:30	033110A 1	961532
7782 49 2	Selenium	1.06	mg/kg	U	0.53	1.06	1.06	2	MS	BCD1	04/17/10 20:04	100417 4	961535
7440 22 4	Silver	514	ug/Kg	U	103	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 23 5	Sodium U,14d	69600	ug/Kg		7200	25700	25700	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 28 0	Thallium	0.212	mg/kg	U	0.0637	0.212	0.212	2	MS	BCD1	04/17/10 20:04	100417 4	961535
7440 61 1	Uranium	0.558	mg/kg		0.014	0.0424	0.0424	2	MS	BCD1	04/17/10 20:04	100417 4	961535
7440 62 2	Vanadium	9360	ug/Kg		103	514	514	1	P	HSC	03/31/10 16:30	033110A 1	961532
7440 66 6	Zinc	37300	ug/Kg		321	972	972	1	P	HSC	04/12/10 21:52	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.529	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.513	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.518	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.56	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511015

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7435

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 70

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8310000	ug/Kg		9700	28500	28500	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-36-0	Antimony	1430	ug/Kg	U	471	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-38-2	Arsenic	1.77	mg/kg		0.265	1.33	1.33	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-39-3	Barium J+,I6b	77700	ug/Kg	N	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-41-7	Beryllium	0.755	mg/kg		0.0265	0.133	0.133	2	MS	PRB	04/18/10 13:23	100418-3	961535
7440-43-9	Cadmium	713	ug/Kg	U	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-70-2	Calcium	3710000	ug/Kg		11400	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-47-3	Chromium	9240	ug/Kg		214	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-48-4	Cobalt	2760	ug/Kg		214	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-50-8	Copper	6820	ug/Kg		428	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-89-6	Iron	10600000	ug/Kg	*	11400	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-92-1	Lead	11400	ug/Kg		356	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-95-4	Magnesium J+,I6b	1620000	ug/Kg	N	12100	42800	42800	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-96-5	Manganese	646000	ug/Kg		285	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-97-6	Mercury	52.3	ug/kg		4.87	14.3	14.3	1	AV	JXL1	03/17/10 10:52	031710S1-5	964746
7440-02-0	Nickel	6.84	mg/kg		0.133	0.53	0.53	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-09-7	Potassium J+,I6b	1450000	ug/Kg	N	9130	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7782-49-2	Selenium	1.33	mg/kg	U	0.663	1.33	1.33	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-22-4	Silver	713	ug/Kg	U	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-23-5	Sodium U,I4d	62800	ug/Kg		9980	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-28-0	Thallium	0.0867	mg/kg	J	0.0795	0.265	0.265	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-61-1	Uranium	1.54	mg/kg		0.0175	0.053	0.053	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-62-2	Vanadium	13500	ug/Kg		143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-66-6	Zinc	40000	ug/Kg		423	1280	1280	1	P	HSC	04/12/10 22:00	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.502	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.54	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.6	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.558	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511016

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7441

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	4650000	ug/Kg		8330	24500	24500	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 36 0	Antimony	1220	ug/Kg	U	404	1220	1220	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 38 2	Arsenic	1.79	mg/kg		0.233	1.16	1.16	2	MS	BCD1	04/17/10 20:13	100417 4	961535
7440 39 3	Barium J+,I6b	52000	ug/Kg	N	122	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 41 7	Beryllium	0.644	mg/kg		0.0233	0.116	0.116	2	MS	PRB	04/18/10 13:25	100418 3	961535
7440 43 9	Cadmium	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 70 2	Calcium	2260000	ug/Kg		9800	30600	30600	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 47 3	Chromium	5390	ug/Kg		184	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 48 4	Cobalt	1830	ug/Kg		184	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 50 8	Copper	4130	ug/Kg		367	1220	1220	1	P	HSC	03/31/10 16:34	033110A 1	961532
7439 89 6	Iron	8000000	ug/Kg	*	9800	30600	30600	1	P	HSC	03/31/10 16:34	033110A 1	961532
7439 92 1	Lead	9470	ug/Kg		306	1220	1220	1	P	HSC	03/31/10 16:34	033110A 1	961532
7439 95 4	Magnesium J+,I6b	970000	ug/Kg	N	10400	36700	36700	1	P	HSC	03/31/10 16:34	033110A 1	961532
7439 96 5	Manganese	465000	ug/Kg		245	1220	1220	1	P	HSC	03/31/10 16:34	033110A 1	961532
7439 97 6	Mercury	109	ug/kg		4.6	13.5	13.5	1	AV	JXL1	03/17/10 10:58	031710S1 5	964746
7440 02 0	Nickel	5.15	mg/kg		0.116	0.466	0.466	2	MS	BCD1	04/17/10 20:13	100417 4	961535
7440 09 7	Potassium J+,I6b	913000	ug/Kg	N	7840	30600	30600	1	P	HSC	03/31/10 16:34	033110A 1	961532
7782 49 2	Selenium	1.16	mg/kg	U	0.582	1.16	1.16	2	MS	BCD1	04/17/10 20:13	100417 4	961535
7440 22 4	Silver	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 23 5	Sodium U,I4d	45600	ug/Kg		8570	30600	30600	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 28 0	Thallium	0.0818	mg/kg	J	0.0699	0.233	0.233	2	MS	BCD1	04/17/10 20:13	100417 4	961535
7440 61 1	Uranium	2.68	mg/kg		0.0154	0.0466	0.0466	2	MS	BCD1	04/17/10 20:13	100417 4	961535
7440 62 2	Vanadium	8680	ug/Kg		122	612	612	1	P	HSC	03/31/10 16:34	033110A 1	961532
7440 66 6	Zinc	40400	ug/Kg		403	1220	1220	1	P	HSC	04/12/10 22:07	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.526	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.553	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.571	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.528	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511017

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7442

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4900000	ug/Kg		7330	21500	21500	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-36-0	Antimony	1080	ug/Kg	U	356	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-38-2	Arsenic	1.63	mg/kg		0.231	1.15	1.15	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-39-3	Barium J+,16b	30800	ug/Kg	N	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-41-7	Beryllium	0.542	mg/kg		0.0231	0.115	0.115	2	MS	PRB	04/18/10 13:27	100418-3	961535
7440-43-9	Cadmium	539	ug/Kg	U	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-70-2	Calcium	1330000	ug/Kg		8620	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-47-3	Chromium	12600	ug/Kg		162	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-48-4	Cobalt	1830	ug/Kg		162	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-50-8	Copper	3420	ug/Kg		323	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-89-6	Iron	9420000	ug/Kg	*	8620	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-92-1	Lead	6530	ug/Kg		269	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-95-4	Magnesium J+,16b	828000	ug/Kg	N	9160	32300	32300	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-96-5	Manganese	245000	ug/Kg		215	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-97-6	Mercury	16	ug/kg		4.7	13.8	13.8	1	AV	JXL1	03/17/10 11:00	031710S1-5	964746
7440-02-0	Nickel	3.31	mg/kg		0.115	0.461	0.461	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-09-7	Potassium J+,16b	752000	ug/Kg	N	6900	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7782-49-2	Selenium	1.15	mg/kg	U	0.576	1.15	1.15	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-22-4	Silver	539	ug/Kg	U	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-23-5	Sodium U,14d	72200	ug/Kg		7540	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-28-0	Thallium	0.231	mg/kg	U	0.0692	0.231	0.231	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-61-1	Uranium	0.801	mg/kg		0.0152	0.0461	0.0461	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-62-2	Vanadium	9400	ug/Kg		108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-66-6	Zinc	39000	ug/Kg		378	1150	1150	1	P	HSC	04/12/10 22:14	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.535	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.5	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.503	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511018

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7436

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	9450000	ug/Kg		8430	24800	24800	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 36 0	Antimony	1240	ug/Kg	U	409	1240	1240	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 38 2	Arsenic	2.58	mg/kg		0.245	1.22	1.22	2	MS	BCD1	04/17/10 20:21	100417 4	961535
7440 39 3	Barium	33900	ug/Kg	N	124	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 41 7	Beryllium	0.90	mg/kg		0.0245	0.122	0.122	2	MS	PRB	04/18/10 13:29	100418 3	961535
7440 43 9	Cadmium	620	ug/Kg	U	124	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 70 2	Calcium	2060000	ug/Kg		9910	31000	31000	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 47 3	Chromium	17700	ug/Kg		186	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 48 4	Cobalt	2030	ug/Kg		186	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 50 8	Copper	5410	ug/Kg		372	1240	1240	1	P	HSC	03/31/10 16:38	033110A 1	961532
7439 89 6	Iron	11900000	ug/Kg	*	9910	31000	31000	1	P	HSC	03/31/10 16:38	033110A 1	961532
7439 92 1	Lead	8800	ug/Kg		310	1240	1240	1	P	HSC	03/31/10 16:38	033110A 1	961532
7439 95 4	Magnesium	1600000	ug/Kg	N	10500	37200	37200	1	P	HSC	03/31/10 16:38	033110A 1	961532
7439 96 5	Manganese	216000	ug/Kg		248	1240	1240	1	P	HSC	03/31/10 16:38	033110A 1	961532
7439 97 6	Mercury	36.1	ug/kg		4.93	14.5	14.5	1	AV	JXL1	03/17/10 11:02	031710S1 5	964746
7440 02 0	Nickel	5.99	mg/kg		0.122	0.49	0.49	2	MS	BCD1	04/17/10 20:21	100417 4	961535
7440 09 7	Potassium	1190000	ug/Kg	N	7930	31000	31000	1	P	HSC	03/31/10 16:38	033110A 1	961532
7782 49 2	Selenium	1.22	mg/kg	U	0.612	1.22	1.22	2	MS	BCD1	04/17/10 20:21	100417 4	961535
7440 22 4	Silver	620	ug/Kg	U	124	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 23 5	Sodium	63200	ug/Kg		8670	31000	31000	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 28 0	Thallium	0.085	mg/kg	J	0.0735	0.245	0.245	2	MS	BCD1	04/17/10 20:21	100417 4	961535
7440 61 1	Uranium	0.876	mg/kg		0.0162	0.049	0.049	2	MS	BCD1	04/17/10 20:21	100417 4	961535
7440 62 2	Vanadium	13400	ug/Kg		124	620	620	1	P	HSC	03/31/10 16:38	033110A 1	961532
7440 66 6	Zinc	38900	ug/Kg		416	1260	1260	1	P	HSC	04/12/10 22:21	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.513	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.519	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.526	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.504	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511019

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36 10 7438

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 94.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4360000	ug/Kg		6730	19800	19800	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-36-0	Antimony	989	ug/Kg	U	326	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-38-2	Arsenic	1.23	mg/kg		0.204	1.02	1.02	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-39-3	Barium J+,I6b	15500	ug/Kg	N	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-41-7	Beryllium	0.335	mg/kg		0.0204	0.102	0.102	2	MS	PRB	04/18/10 13:31	100418-3	961535
7440-43-9	Cadmium	495	ug/Kg	U	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-70-2	Calcium	958000	ug/Kg		7910	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-47-3	Chromium	12200	ug/Kg		148	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-48-4	Cobalt	1440	ug/Kg		148	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-50-8	Copper	2820	ug/Kg		297	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-89-6	Iron	9160000	ug/Kg	*	7910	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-92-1	Lead	4410	ug/Kg		247	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-95-4	Magnesium J+,I6b	745000	ug/Kg	N	8410	29700	29700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-96-5	Manganesec	165000	ug/Kg		198	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-97-6	Mercury	12.5	ug/kg	U	4.26	12.5	12.5	1	AV	JXL1	03/17/10 11:04	031710S1-5	964746
7440-02-0	Nickel	2.6	mg/kg		0.102	0.409	0.409	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-09-7	Potassium J+,I6b	519000	ug/Kg	N	6330	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7782-49-2	Selenium	1.02	mg/kg	U	0.511	1.02	1.02	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-22-4	Silver	495	ug/Kg	U	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-23-5	Sodium U,I4d	62000	ug/Kg		6920	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-28-0	Thallium	0.204	mg/kg	U	0.0613	0.204	0.204	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-61-1	Uranium	0.494	mg/kg		0.0135	0.0409	0.0409	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-62-2	Vanadium	7700	ug/Kg		98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-66-6	Zinc	40200	ug/Kg		335	1010	1010	1	P	HSC	04/12/10 22:27	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.534	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.517	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.506	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.521	g	50	mL	04/12/10	AXG2

KAL
04/27/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10 2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511020

BASIS: Dry Weight

DATE COLLECTED 25 FEB 10

CLIENT ID: RE36 10 7439

LEVEL: Low

DATE RECEIVED 03 MAR 10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429 90 5	Aluminum	6640000	ug/Kg		8060	23700	23700	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 36 0	Antimony	1190	ug/Kg	U	391	1190	1190	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 38 2	Arsenic	1.44	mg/kg		0.244	1.22	1.22	2	MS	BCD1	04/17/10 20:29	100417 4	961535
7440 39 3	Barium	76600	ug/Kg	N	119	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 41 7	Beryllium	0.519	mg/kg		0.0244	0.122	0.122	2	MS	PRB	04/18/10 13:33	100418 3	961535
7440 43 9	Cadmium	593	ug/Kg	U	119	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 70 2	Calcium	2840000	ug/Kg		9480	29600	29600	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 47 3	Chromium	5710	ug/Kg		178	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 48 4	Cobalt	2740	ug/Kg		178	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 50 8	Copper	6090	ug/Kg		356	1190	1190	1	P	HSC	03/31/10 16:42	033110A 1	961532
7439 89 6	Iron	10200000	ug/Kg	*	9480	29600	29600	1	P	HSC	03/31/10 16:42	033110A 1	961532
7439 92 1	Lead	14000	ug/Kg		296	1190	1190	1	P	HSC	03/31/10 16:42	033110A 1	961532
7439 95 4	Magnesium	1410000	ug/Kg	N	10100	35600	35600	1	P	HSC	03/31/10 16:42	033110A 1	961532
7439 96 5	Manganese	655000	ug/Kg		237	1190	1190	1	P	HSC	03/31/10 16:42	033110A 1	961532
7439 97 6	Mercury	40.2	ug/kg		4.98	14.6	14.6	1	AV	JXL1	03/17/10 11:06	031710S1 5	964746
7440 02 0	Nickel	4.44	mg/kg		0.122	0.488	0.488	2	MS	BCD1	04/17/10 20:29	100417 4	961535
7440 09 7	Potassium	1320000	ug/Kg	N	7590	29600	29600	1	P	HSC	03/31/10 16:42	033110A 1	961532
7782 49 2	Selenium	1.22	mg/kg	U	0.61	1.22	1.22	2	MS	BCD1	04/17/10 20:29	100417 4	961535
7440 22 4	Silver	593	ug/Kg	U	119	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 23 5	Sodium	75600	ug/Kg		8300	29600	29600	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 28 0	Thallium	0.244	mg/kg	U	0.0732	0.244	0.244	2	MS	BCD1	04/17/10 20:29	100417 4	961535
7440 61 1	Uranium	1.47	mg/kg		0.0161	0.0488	0.0488	2	MS	BCD1	04/17/10 20:29	100417 4	961535
7440 62 2	Vanadium	11500	ug/Kg		119	593	593	1	P	HSC	03/31/10 16:42	033110A 1	961532
7440 66 6	Zinc	37600	ug/Kg		353	1070	1070	1	P	HSC	04/12/10 22:34	041210D 2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.515	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.5	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.57	g	50	mL	04/12/10	AXG2

KAL
04/27/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-2194 VALIDATION DATE: 04/27/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Kevin A. Lambert 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): _____ | | | |

Section II. Completeness Check


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

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


1. It should be noted that the parent sample for matrix QC analyses for pH analysis in Batch # 961559 was a LANL sample from another other RN. No sample data were qualified as a result.

Reviewed by: Mary Donovan Level: I Date: 04/28/10


VALIDATOR'S SIGNATURE: Kevin A. Lambert DATE: 04/27/10

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

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

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 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"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J, I4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The associate matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input 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 RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package.	UJ, I10b	J, I10b

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

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

Certificate of Analysis

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Address : PO Box 1663
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Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7448
Sample ID: 248511009
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 17.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	7.68	0.010	0.100	SU	1	TXT1	03/05/10	1652	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		888	72.3	266	ug/kg	1	AXC2	03/11/10	1751	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.29	0.347	1.16	mg/kg	1	MAR103/25/10	0008	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7447
Sample ID: 248511010
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 28.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	7.58	0.010	0.100	SU	1	TXT1	03/05/10	1656	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1780	95.1	350	ug/kg	1	AXC2	03/11/10	1752	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		7.51	0.376	1.25	mg/kg	1	MAR103/25/10	0035	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7443
Sample ID: 248511011
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 25.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.40	0.010	0.100	SU	1	TXT1	03/05/10	1659	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		306	82.5	303	ug/kg	1	AXC2	03/11/10	1753	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.83	0.395	1.32	mg/kg	1	MAR1	03/25/10	0102	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7452
Sample ID: 248511012
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 24.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.68	0.010	0.100	SU	1	TXT1	03/05/10	1702	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		4240	83.8	308	ug/kg	1	AXC2	03/11/10	1754	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.56	0.361	1.20	mg/kg	1	MAR103/25/10	0129	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7437
Sample ID: 248511013
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 16.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.13	0.010	0.100	SU	1	TXT1	03/05/10	1704	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		875	70.0	257	ug/kg	1	AXC2	03/11/10	1758	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.61	0.348	1.16	mg/kg	1	MAR1	03/25/10	0156	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7440
Sample ID: 248511014
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 8.13%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.29	0.010	0.100	SU	1	TXT1	03/05/10	1705	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	156	66.1	243	ug/kg	1	AXC2	03/11/10	1759	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.17	0.323	1.08	mg/kg	1	MAR103/25/10	0223	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7435
Sample ID: 248511015
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 30.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.54	0.010	0.100	SU	1	TXT1	03/05/10	1708	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	93.6	344	ug/kg	1	AXC2	03/11/10	1800	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.58	0.410	1.37	mg/kg	1	MAR10	03/25/10	0249	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7441
Sample ID: 248511016
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 22.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	6.09	0.010	0.100	SU	1	TXT1	03/05/10	1710	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	269	74.2	273	ug/kg	1	AXC2	03/11/10	1801	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.29	0.356	1.19	mg/kg	1	MAR10	03/25/10	0410	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7442
Sample ID: 248511017
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 13.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	5.74	0.010	0.100	SU	1	TXT1	03/05/10	1712	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	71.3	262	ug/kg	1	AXC2	03/11/10	1802	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.24	0.339	1.13	mg/kg	1	MAR1	03/25/10	0437	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID:	RE36-10-7436	Project:	LANL01004
Sample ID:	248511018	Client ID:	LANL010
Matrix:	R		
Collect Date:	25-FEB-10 12:00		
Receive Date:	03-MAR-10		
Collector:	Client		
Moisture:	21.4%		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	6.44	0.010	0.100	SU	1	TXT1	03/05/10	1715	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.5	274	ug/kg	1	AXC2	03/11/10	1802	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.25	0.364	1.21	mg/kg	1	MAR103/25/10	0504	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7438
Sample ID: 248511019
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 5.34%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	5.59	0.010	0.100	SU	1	TXT1	03/05/10	1718	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.1	254	ug/kg	1	AXC2	03/11/10	1803	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.03	0.298	0.992	mg/kg	1	MAR1	03/25/10	0531	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Certificate of Analysis

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7439
Sample ID: 248511020
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 18.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.13	0.010	0.100	SU	1	TXT1	03/05/10	1721	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	157	75.5	277	ug/kg	1	AXC2	03/11/10	1804	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.350	1.17	mg/kg	1	MAR1	03/25/10	0558	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7407
Sample ID: 248511001
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 22.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.4C	H	7.05	0.010	0.100	SU	1	EXF1	03/05/10	1512	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		572	78.7	289	ug/kg	1	AXC2	03/11/10	1735	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.25	0.342	1.14	mg/kg	1	MAR1	03/24/10	1818	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7421
Sample ID: 248511002
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 15%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.0C	H	5.95	0.010	0.100	SU	1	EXF1	03/05/10	1513	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.1	258	ug/kg	1	AXC2	03/11/10	1738	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	0.348	1.16	mg/kg	1	MAR103/24/10	2006	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7422
Sample ID: 248511003
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 5.86%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.4C	H	5.80	0.010	0.100	SU	1	EXF1	03/05/10	1515	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	68.1	251	ug/kg	1	AXC2	03/11/10	1745	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.01	0.290	0.968	mg/kg	1	MAR1	03/24/10	2033	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7451
Sample ID: 248511004
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 39.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.7C	H	6.55	0.010	0.100	SU	1	EXF1	03/05/10	1516	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		2880	95.1	350	ug/kg	1	AXC2	03/11/10	1746	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.69	0.476	1.59	mg/kg	1	MAR1	03/24/10	2100	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7449
Sample ID: 248511005
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 17.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	6.46	0.010	0.100	SU	1	EXF1	03/05/10	1519	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		477	70.1	258	ug/kg	1	AXC2	03/11/10	1747	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.95	0.355	1.18	mg/kg	1	MAR10	03/24/10	2127	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7445
Sample ID: 248511006
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 25.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.4C	H	6.40	0.010	0.100	SU	1	EXF1	03/05/10	1523	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		621	77.5	285	ug/kg	1	AXC2	03/11/10	1748	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.64	0.402	1.34	mg/kg	1	MAR1	03/24/10	2247	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7450
Sample ID: 248511007
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 9.88%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.3C	H	6.45	0.010	0.100	SU	1	EXF1	03/05/10	1524	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	82.1	75.5	277	ug/kg	1	AXC2	03/11/10	1749	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.22	0.296	0.986	mg/kg	1	MAR1	03/24/10	2314	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7444
Sample ID: 248511008
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 20.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.8C	H	6.47	0.010	0.100	SU	1	TXT1	03/05/10	1644	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		370	85.6	315	ug/kg	1	AXC2	03/11/10	1750	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.86	0.375	1.25	mg/kg	1	MAR10	03/24/10	2341	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248511

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7407	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7407	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7421	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7421	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7422	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7422	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7451	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7451	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7449	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7449	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7445	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7445	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7450	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7450	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7444	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7444	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7448	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7448	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7447	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7447	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7443	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7443	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7452	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7452	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7437	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7437	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407


LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7440	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7440	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7435	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7435	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7441	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7441	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7442	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7442	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7436	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7436	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7438	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7438	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7439	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7439	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Relinquished By:

Date

Time


 Printed Name Signature

Received By:

Date

Time


 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, March 02, 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: 10-2194
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

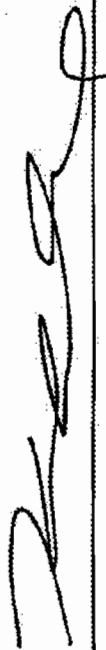
Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 3/2/2010
TURNAROUND/REPORT DUE: 4/1/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
EPA-300.0						
		1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846.60108	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:60108	1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:6020	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:6850	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-6850	1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846-7471A	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-7471A	1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846-9012A	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846-9045C	1	RE36-10-7407	R	2/25/2010	

Tuesday, March 02, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-9045C	1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2194



March 10, 2010

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: 248511
SDG: 10-2194

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on March 03, 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: 10-2194
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 248511
SDG: 10-2194

TABLE OF CONTENTS

Case Narrative.....	1
Chain of Custody and Supporting Documentation.....	5
Data Review Qualifier Flag Definition Sheet.....	20
LC/MS/MS Perchlorate Analysis.....	22
Sample Data Summary	27
Quality Control Summary.....	48
Sample Data	88
Standards Data.....	129
Quality Control	167
Miscellaneous Data	176
Metals Analysis.....	188
Case Narrative.....	189
Sample Data Summary.....	195
Quality Control Summary.....	216
Standards.....	281
Raw Data.....	301
Miscellaneous.....	851
General Chemistry Analysis.....	904
Case Narrative.....	905
Sample Data Summary.....	916
Quality Control Summary.....	938
Instrument QC Data Summary.....	942
Cyanide, Total.....	945
Ion Chromatography.....	959
pH.....	1022

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 248511
SDG # : 10-2194**

March 10, 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 March 03, 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:

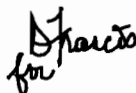
<u>Laboratory ID</u>	<u>Client ID</u>
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439

Case Narrative

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

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

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



Valerie Davis

Project Manager

List of current GEL Certifications as of 10 March 2010

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

Chain of Custody and Supporting Documentation

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

248511

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7407	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7407	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7421	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7421	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7422	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7422	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7451	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7451	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7449	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7449	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7445	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7445	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7450	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7450	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7444	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7444	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7448	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7448	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7447	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7447	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7443	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7443	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7452	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7452	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7437	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7437	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Thursday, March 04, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-2194C

LOS ALAMOS

REQUEST NUMBER: 10-2194

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 4/1/2010

General Engineering Laboratories, Inc., Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7440	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7440	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7435	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7435	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7441	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7441	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7442	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7442	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7436	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7436	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7438	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7438	1	POLY	Perchlorate+CN+N03+ pH	Ice	R
RE36-10-7439	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7439	1	POLY	Perchlorate+CN+N03+ pH	Ice	R

Relinquished By:

Date
3/2/10Time
3:00

Received By:

Patricia Dover-Dent P. U. Dent

Date

Time

3/3/10 08:50

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, March 02, 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: 3/2/2010

TURNAROUND/REPORT DUE: 4/1/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:
LANL Request Number: 10-2194
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0					
		1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:6010B	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	

Tuesday, March 02, 2010

Page 3 of 6

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6010B	1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:6020	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:6850	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	

Tuesday, March 02, 2010

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:8850	1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:7471A	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	

Tuesday, March 02, 2010

Page 5 of 6

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
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		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:9012A	1	RE36-10-7407	R	2/25/2010	
		1	RE36-10-7421	R	2/25/2010	
		1	RE36-10-7422	R	2/25/2010	
		1	RE36-10-7435	R	2/25/2010	
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		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
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		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	
	SW-846:9045C	1	RE36-10-7407	R	2/25/2010	

Tuesday, March 02, 2010

Page 6 of 6

REQUEST NUMBER: 10-2194

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9045C					
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		1	RE36-10-7436	R	2/25/2010	
		1	RE36-10-7437	R	2/25/2010	
		1	RE36-10-7438	R	2/25/2010	
		1	RE36-10-7439	R	2/25/2010	
		1	RE36-10-7440	R	2/25/2010	
		1	RE36-10-7441	R	2/25/2010	
		1	RE36-10-7442	R	2/25/2010	
		1	RE36-10-7443	R	2/25/2010	
		1	RE36-10-7444	R	2/25/2010	
		1	RE36-10-7445	R	2/25/2010	
		1	RE36-10-7447	R	2/25/2010	
		1	RE36-10-7448	R	2/25/2010	
		1	RE36-10-7449	R	2/25/2010	
		1	RE36-10-7450	R	2/25/2010	
		1	RE36-10-7451	R	2/25/2010	
		1	RE36-10-7452	R	2/25/2010	

Final Page of REQUEST NUMBER 10-2194



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL		SDG/ARCOC/Work Order: 10-2194	
Received By: Greg Tyler		Date Received: 3/3/10	
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*: 60cpm
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 $0 \leq 6$ deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 1-5 14,15,17
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?		X		Sample ID's affected: No time on Chain of Custody.
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments:

Fed Ex Tracking Numbers:

7209 7850 3083 1C 7209 7850 3061 2C 7209 7850 3028 17C
 7209 7850 3040 1C 7209 7850 3072 3C
 7209 7850 3094 1C 7209 7850 3120 4C
 7209 7850 3109 2C 7209 7850 3110 5C
 7209 7850 3039 2C 7209 7850 3153 5C
 7209 7850 3050 2C 7209 7850 3006 14C
 7209 7850 3142 2C 7209 7850 2992 14C
 7209 7850 3131 2C 7209 7850 3071 15C

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: 02MAR10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

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: 02MAR10
ACTWGT: 47.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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

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LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

CAD: 0014176/CAFE2450

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 02MAR10
ACTWGT: 52.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

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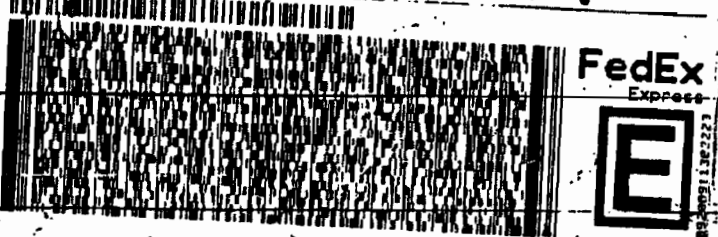
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PRIORITY OVERNIGHT

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TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

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2040 SAVAGE RD

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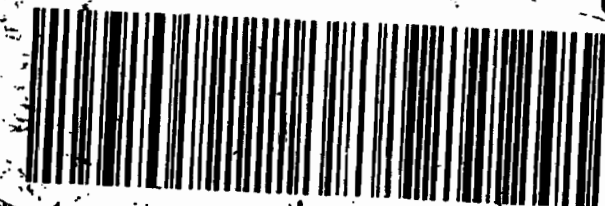


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UNITED STATES US

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

SHIP DATE: 02MAR10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

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TO VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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

SHIP DATE: 02MAR10
ACTWGT: 49.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

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PRIORITY OVERNIGHT



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

SHIP DATE: 02MAR10
ACTWGT: 29.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

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2040 SAVAGE RD

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(843) 556-8171

REF: 6B010AMR3A05529E00

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

SHIP DATE: 02MAR10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2450

LOS ALAMOS, NM 87545
UNITED STATES US

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 865-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 02MAR10
ACTWGT: 48.0 LB MAN
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GENERAL ENGINEERING LAB
2040 SAVAGE RD

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REF: 6B010AMR3A05529E00

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 02MAR10
ACTWGT: 57.0 LB MAN
CAD: 0014178/CAFE2450

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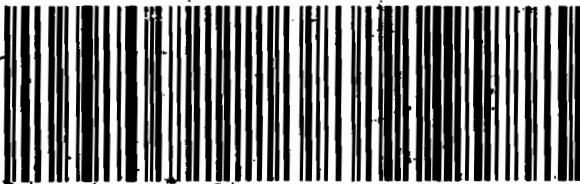


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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 865-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

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UNITED STATES US

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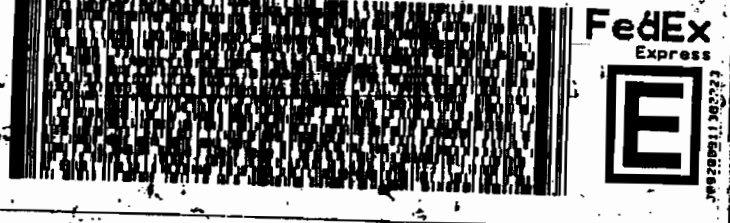
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ORIGIN ID: SAFA (606) 666-9968

JOYLENE VALDEZ

LOS ALAMOS NATL LAB

TAGS BLDG 1237 DPU 03

LOS ALAMOS, NM 87545

UNITED STATES US

SHIP DATE: 02MAR10

ACTWGT: 21 OZ 8 MON

CRD: 00141763CAFE2450

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TO **VALERIE DAVIS**

**GENERAL ENGINEERING LAB
2040 SAVAGE RD**

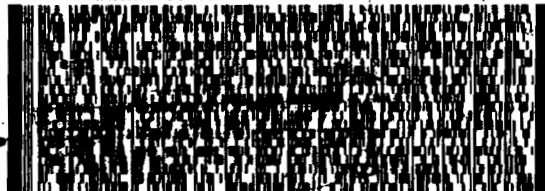
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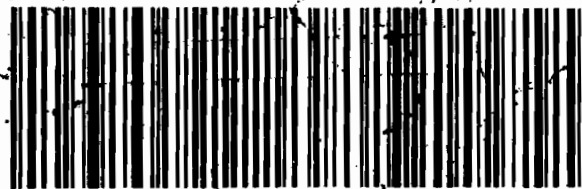
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Matr-H 7209 7850 3017 0201

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PRIORITY OVERNIGHT

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Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-2194**

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: 962130

Prep Batch Number: 962129

Sample Analysis

Sample ID	Client ID
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439
1202063751	Interference Check Sample (ICS)
1202063747	Method Blank (MB)
1202063748	Laboratory Control Sample (LCS)
1202063749	248511001(RE36-10-7407) Matrix Spike (MS)
1202063750	248511001(RE36-10-7407) Matrix Spike Duplicate (MSD)

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

10-2194-PERLCMS

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.

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 248511001 (RE36-10-7407) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recovered Perchlorate at 21% and at -38% for Perchlorate-101. The acceptance range is 75-125%. The outliers observed for the MS may be the result of the background concentration present in the parent sample, 248511001 (RE36-10-7407), and the need to dilute all at 1:5 prior to analysis. Please see data exception report 809987.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovered Perchlorate-101 at 140% and the acceptance range is 75-125%. The high recovery may be the result of the background concentration present in the parent sample, 248511001 (RE36-10-7407), and the need to dilute all at 1:5 prior to analysis. Please see data exception report 809987.

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

Samples 1202063749 (RE36-10-7407MS), 1202063750 (RE36-10-7407MSD), 248511001 (RE36-10-7407) and 248511006 (RE36-10-7445) were diluted to bring the over range concentrations within the calibration range. The diluted analyses are reported.

Sample Re-extraction/Re-analysis

Samples 248511002 (RE36-10-7421) and 248511007 (RE36-10-7450) were re-analyzed to confirm the potential of carryover from the previous sample. The re-analysis data are reported.

Miscellaneous Information

Data Exception (DER) Documentation

Data exception report 809987 was generated for this SDG.

The MS recovered Perchlorate at 21% and at -38% for Perchlorate-101. The MSD recovered Perchlorate-101 at 140%. The acceptance range is 75-125%. The outliers observed for the MS and MSD may be the result of the background concentration present in the parent sample, 248511001 (RE36-10-7407), and the need to dilute all at 1:5 prior to analysis.

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: Nepher M. Maup Date: 03/26/16

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7407

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511001

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	3.24	13	54.1	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate Isotope Ratio			3.03			5	24-MAR-10 14:51	per0324012a
14797-73-0	Perchlorate-101	3.24	13	55.9	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate-O(18)			32.8	ug/kg		5	24-MAR-10 14:51	per0324012a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7421

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511002

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.588	2.35	1.81	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate Isotope Ratio			2.75			1	24-MAR-10 15:21	per0324015a
14797-73-0	Perchlorate-101	.588	2.35	2.06	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate-O(18)			6.27	ug/kg		1	24-MAR-10 15:21	per0324015a

[^] 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 $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7422

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511003

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 94.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	1.50	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate Isotope Ratio			2.81			1	24-MAR-10 03:24	per0323079a
14797-73-0	Perchlorate-101	.531	2.12	1.61	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate-O(18)			4.67	ug/kg		1	24-MAR-10 03:24	per0323079a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 262129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7451

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511004

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 61

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate Isotope Ratio						1	24-MAR-10 03:35	per0323080a
14797-73-0	Perchlorate-101	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate-O(18)			7.63	ug/kg		1	24-MAR-10 03:35	per0323080a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7449

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511005

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.608	2.43	0.714	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 03:45	per0323081a
14797-73-0	Perchlorate-101	.608	2.43	0.826	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate-O(18)			5.74	ug/kg		1	24-MAR-10 03:45	per0323081a

[^] 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 $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7445

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511006

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 74

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	31.9	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate Isotope Ratio			2.99			4	24-MAR-10 15:31	per0324016a
14797-73-0	Perchlorate-101	2.69	10.8	33.4	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate-O(18)			29.2	ug/kg		4	24-MAR-10 15:31	per0324016a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7450

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511007

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 90.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.555	2.22	0.672	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 15:41	per0324017a
14797-73-0	Perchlorate-101	.555	2.22	0.806	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate-O(18)			5.67	ug/kg		1	24-MAR-10 15:41	per0324017a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7444

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511008

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 79

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.63	2.52	0.673	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate Isotope Ratio			3.2			1	24-MAR-10 04:49	per0323087a
14797-73-0	Perchlorate-101	.63	2.52	0.634	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate-O(18)			5.78	ug/kg		1	24-MAR-10 04:49	per0323087a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7448

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511009

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 83

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:00	per0323088a
14797-73-0	Perchlorate-101	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate-O(18)			5.37	ug/kg		1	24-MAR-10 05:00	per0323088a

[^] 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: 962129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7447
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511010
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.699	2.8	0.994	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate Isotope Ratio			3.23			1	24-MAR-10 05:10	per0323089a
14797-73-0	Perchlorate-101	.699	2.8	0.927	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate-O(18)			6.14	ug/kg		1	24-MAR-10 05:10	per0323089a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7443

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511011

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:21	per0323090a
14797-73-0	Perchlorate-101	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate-O(18)			6.01	ug/kg		1	24-MAR-10 05:21	per0323090a

[^] 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 $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7452

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511012

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:31	per0323091a
14797-73-0	Perchlorate-101	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate-O(18)			6.03	ug/kg		1	24-MAR-10 05:31	per0323091a

[^] 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 $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7437

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511013

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	1.80	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate Isotope Ratio			3.14			1	24-MAR-10 05:42	per0323092a
14797-73-0	Perchlorate-101	.597	2.39	1.72	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate-O(18)			5.80	ug/kg		1	24-MAR-10 05:42	per0323092a

[^] 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 $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7440

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511014

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 91.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.544	2.18	0.658	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate Isotope Ratio			3.06			1	24-MAR-10 05:52	per0323093a
14797-73-0	Perchlorate-101	.544	2.18	0.649	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate-O(18)			4.98	ug/kg		1	24-MAR-10 05:52	per0323093a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Client Sample No.

RE36-10-7435

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511015

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 70

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate Isotope Ratio						1	24-MAR-10 06:03	per0323094a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate-O(18)			6.42	ug/kg		1	24-MAR-10 06:03	per0323094a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7441

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511016

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.644	2.58	2.68	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate Isotope Ratio			2.87			1	24-MAR-10 06:46	per0323098a
14797-73-0	Perchlorate-101	.644	2.58	2.81	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate-O(18)			5.97	ug/kg		1	24-MAR-10 06:46	per0323098a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7442

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511017

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.576	2.31	1.64	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate Isotope Ratio			2.93			1	24-MAR-10 06:57	per0323099a
14797-73-0	Perchlorate-101	.576	2.31	1.68	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate-O(18)			5.23	ug/kg		1	24-MAR-10 06:57	per0323099a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7436

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511018

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 79

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.636	2.54	1.43	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate Isotope Ratio			2.91			1	24-MAR-10 07:07	per0323100a
14797-73-0	Perchlorate-101	.636	2.54	1.48	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate-O(18)			5.50	ug/kg		1	24-MAR-10 07:07	per0323100a

^ 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 262129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7438

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511019

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 94.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.528	2.11	0.633	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate Isotope Ratio			3			1	24-MAR-10 07:18	per0323101a
14797-73-0	Perchlorate-101	.528	2.11	0.635	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate-O(18)			4.92	ug/kg		1	24-MAR-10 07:18	per0323101a

[^] 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

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Client Sample No.

RE36-10-7439

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511020

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 82

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.61	2.44	0.991	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate Isotope Ratio			2.9			1	24-MAR-10 07:28	per0323102a
14797-73-0	Perchlorate-101	.61	2.44	1.03	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate-O(18)			5.88	ug/kg		1	24-MAR-10 07:28	per0323102a

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

*Concentration =

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-2194

Extract Batch Code: 962129

Date Filtered: 17-MAR-10

Matrix: SOIL

Sample ID: 1202063748

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.86	ug/kg	93.2		70 - 130
Perchlorate Isotope Ratio		2.91				-
Perchlorate-101	2.00	1.93	ug/kg	96.5		70 - 130
Perchlorate-O(18)		4.46	ug/kg			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL GEL Job No. (SDG): 10-2194

Extract Batch Code: 262129 Date Filtered: 17-MAR-10

Matrix: SOIL Sample ID: 1202063751

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.08	ug/kg	104		70 - 130
Perchlorate Isotope Ratio		3.01				
Perchlorate-101	2.00	2.08	ug/kg	104		70 - 130
Perchlorate-O(18)		5.24	ug/kg			

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

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

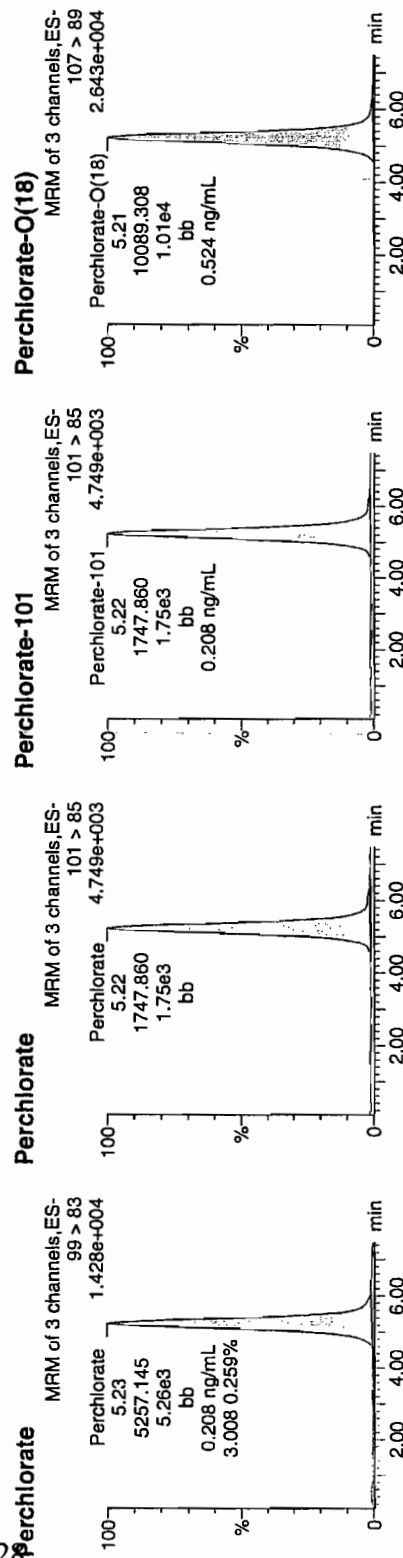
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Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323074a
Date: 24-Mar-2010
Time: 02:32:20
ID: 1202063751
Vial: 3:1,C

03-24-10

LANU | 162130 | 3000 | 1.03 | 1.1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202063751	Perchlorate	99 > 83	5.23	5257.145	5257.145	bb			0.2078	103.92	3.92	2398.8...	3.01
1202063751	Perchlorate-101	101 > 85	5.22	1747.860	1747.860	bb			0.2082	104.12	4.12	338.352	
1202063751	Perchlorate-O(18)	107 > 89	5.21	10089.308	10089.308	bb			0.5241	104.83	4.83	1007.5...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-2194

Extract Batch Code: 962129

Date Extracted: 17-MAR-10

GEL MS/PS ID: 1202063749

Client ID: RE36-10-7407

GEL MSD/PSD ID: 1202063750

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.59	54.1	ug/kg	54.6	21.1	*	56.8	107		3.98		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.12			2.99			0			-
Perchlorate-101	2.59	55.9	ug/kg	54.9	-38	*	59.6	140	*	8.07		30	75 - 125
Perchlorate-O(18)	0	32.8	ug/kg	32.2			33.1			2.5			-

[^] 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

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GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	23-MAR-10	per0323001a	IPB001
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323001a	IPB001
Perchlorate	0.00	0	NA	23-MAR-10	per0323002a	IPB001
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323002a	IPB001
Perchlorate	0.00	0	NA	24-MAR-10	per0324001a	IPB001
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324001a	IPB001
Perchlorate	0.00	0	NA	24-MAR-10	per0324002a	IPB001
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324002a	IPB001

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time

Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032310a.mdb 24 Mar 2010 08:57:43

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032310a.cdb 24 Mar 2010 11:22:00

Name: per0323001a

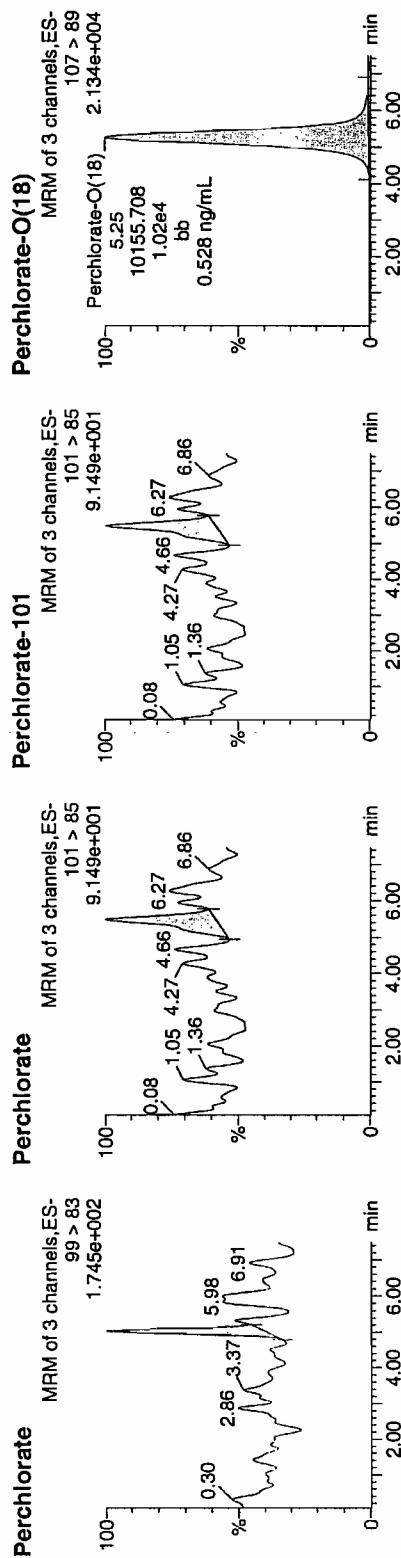
Date: 23-Mar-2010

Time: 13:39:15

ID: IPB001

Vial: 1:1,A

03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	5.02	18.993	18.993	bb			0.0008			21.485	1.52
IPB001	Perchlorate-101	101 > 85	5.47	12.514	12.514	bb			0.0015			15.456	
IPB001	Perchlorate-O(18)	107 > 89	5.25	10155.708	10155.708	bb			0.5276	✓105.52	5.52	532.996	

0.94
20.0503
1.47
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 2 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323002a

Date: 23-Mar-2010

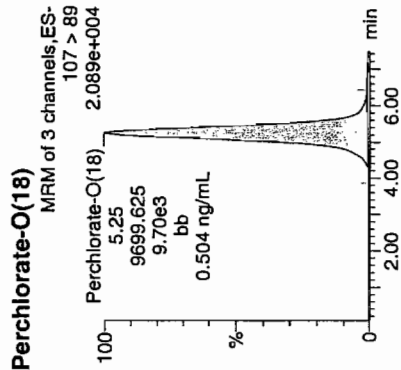
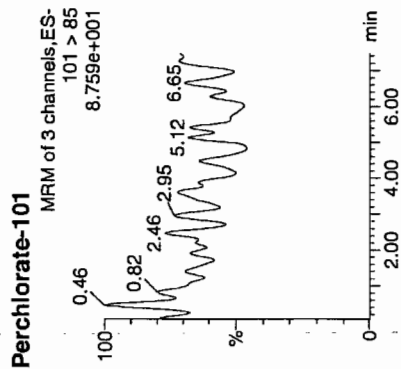
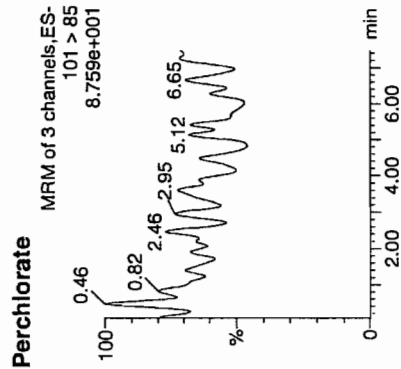
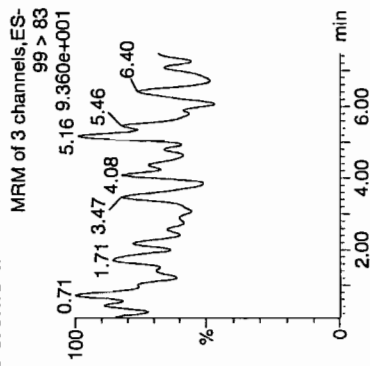
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ID: IPB001

Vial: 1:1,A

228

Perchlorate



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	5.25	9699.625	9699.625	bb			0.5039	100.78	0.78	896.157	

107
3/24/10

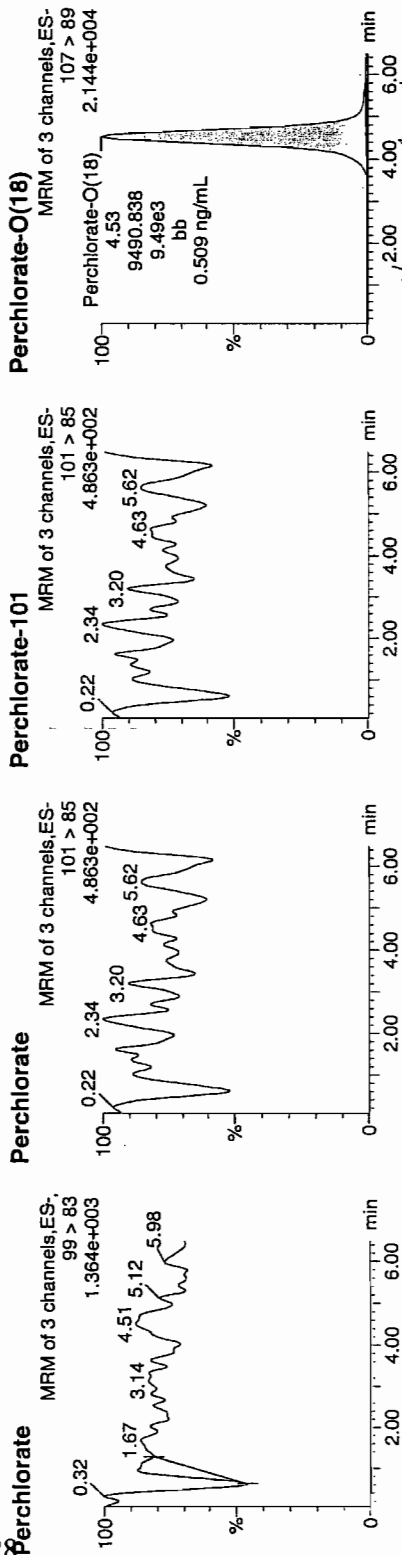
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324002a
Date: 24-Mar-2010
Time: 13:16:33
ID: IPB001
Vial: 1:1,A

0325-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83	0.95	124.896	124.896	bb			0.0051			5.564	0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	4.53	9490.838	9490.838	bb			0.5087	101.75	1.75	1845.3...	

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2194

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-MAR-10	per0323008a	IPB002
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323008a	IPB002
Perchlorate	0.00	0	NA	23-MAR-10	per0323010a	IPB003
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323010a	IPB003
Perchlorate	0.00	0	NA	23-MAR-10	per0323023a	IPB004
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323023a	IPB004
Perchlorate	0.00	0	NA	23-MAR-10	per0323036a	IPB005
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323036a	IPB005
Perchlorate	0.00	0	NA	23-MAR-10	per0323048a	IPB006
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323048a	IPB006
Perchlorate	0.00	0	NA	23-MAR-10	per0323059a	IPB007
Perchlorate-101	0.00	0	NA	23-MAR-10	per0323059a	IPB007
Perchlorate	0.00	0	NA	24-MAR-10	per0323070a	IPB008

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	24-MAR-10	per0323070a	IPB008
Perchlorate	0.00	0	NA	24-MAR-10	per0323083a	IPB009
Perchlorate-101	0.00	0	NA	24-MAR-10	per0323083a	IPB009
Perchlorate	0.00	0	NA	24-MAR-10	per0323096a	IPB010
Perchlorate-101	0.00	0	NA	24-MAR-10	per0323096a	IPB010
Perchlorate	0.00	0	NA	24-MAR-10	per0323104a	IPB011
Perchlorate-101	0.00	0	NA	24-MAR-10	per0323104a	IPB011
Perchlorate	0.00	0	NA	24-MAR-10	per0324008a	IPB002
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324008a	IPB002
Perchlorate	0.00	0	NA	24-MAR-10	per0324010a	IPB003
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324010a	IPB003
Perchlorate	0.00	0	NA	24-MAR-10	per0324018a	IPB004
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324018a	IPB004

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-2194

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	24-MAR-10	per0324021a	IPB005
Perchlorate-101	0.00	0	NA	24-MAR-10	per0324021a	IPB005

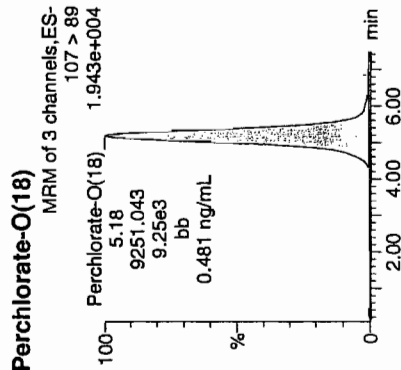
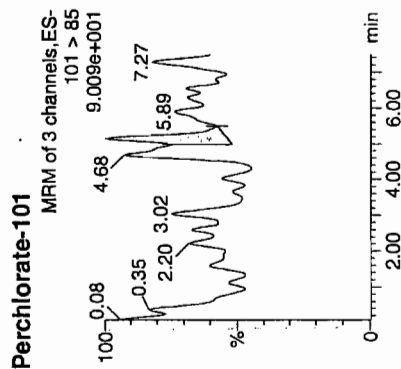
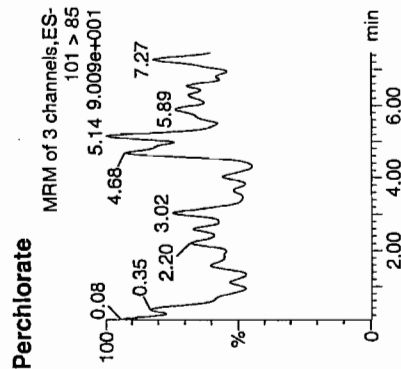
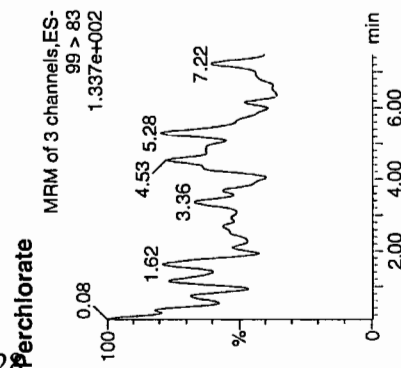
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323008a
Date: 23-Mar-2010
Time: 14:53:07
Vial: 1:1,A

Cur
03.24.10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											
IPB002	Perchlorate-101	101 > 85	5.14	10.282	10.282	db			0.0012	✓	96.12	10.098	
IPB002	Perchlorate-O(18)	107 > 89	5.18	9251.043	9251.043	bb			0.4806	✓	-3.88	536.190	

Cur
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

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Date: 23-Mar-2010

Time: 15:14:12

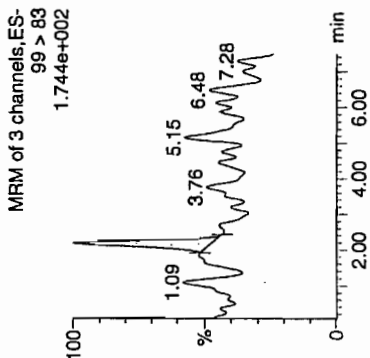
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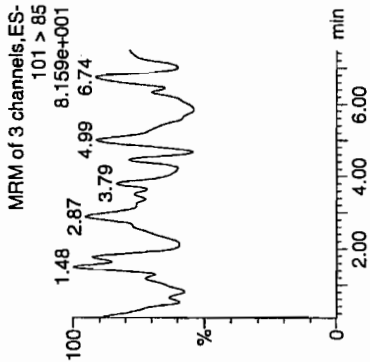
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03-24-10

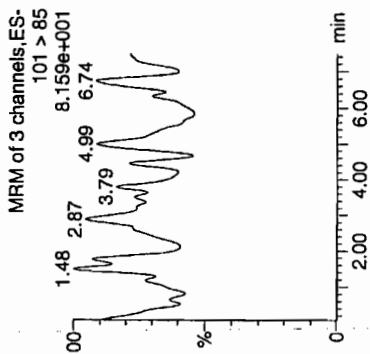
Perchlorate



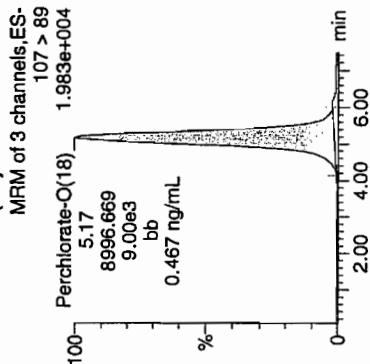
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	2.18	19.309	19.309	bb			0.0008			17.365	0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	5.17	8996.669	8996.669	bb			0.4674	93.47	-6.53	1789.5...	

0.467
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

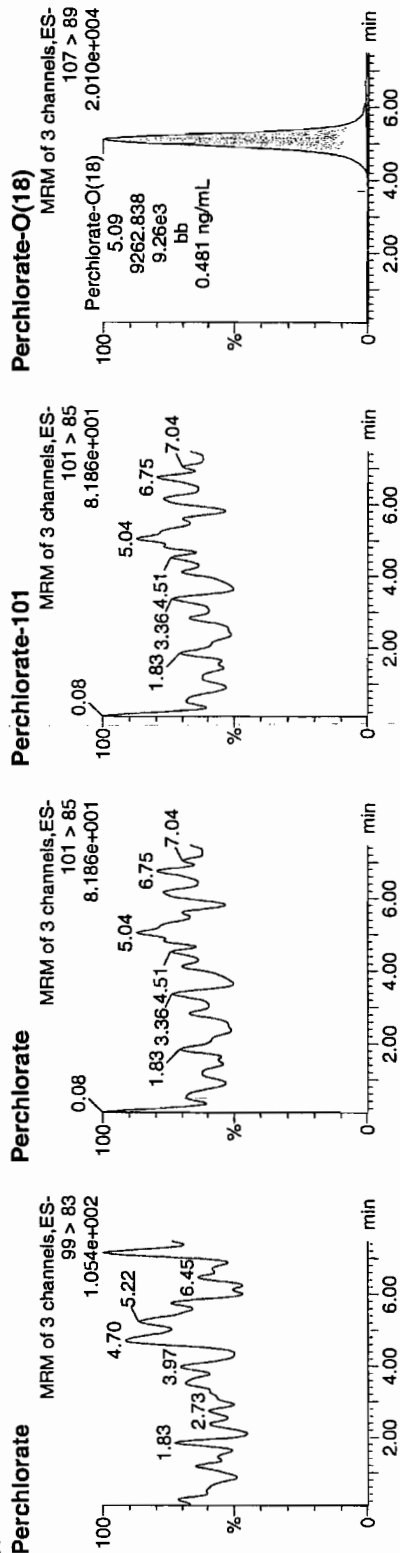
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323023a
 Date: 23-Mar-2010
 Time: 17:31:40
 ID: IPB004
 Vial: 1:1,A
 028

0.00
 0.24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	5.09	9262.838	9262.838	bb			0.4812	96.24	-3.76	374.465	

1.00
 3/24/10

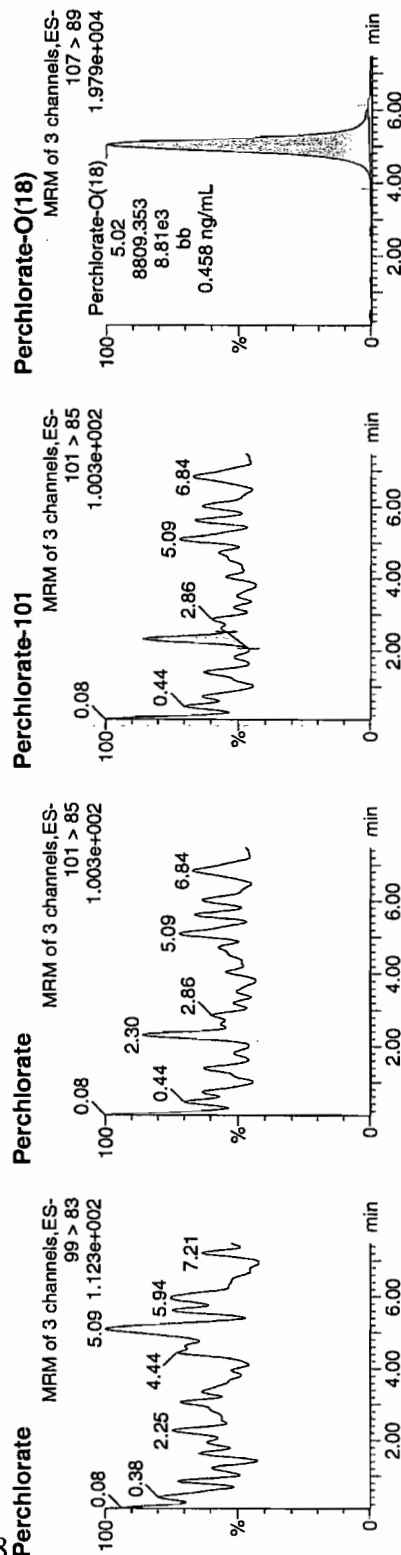
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323036a
Date: 23-Mar-2010
Time: 19:49:23
ID: IPB005
Vial: 1:1,A
28

00-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85	2.30	7.245	7.245	bb			0.0009	91.53	-8.47	16.434	
IPB005	Perchlorate-O(18)	107 > 89	5.02	8809.353	8809.353	bb			0.4576	✓		717.166	

100%
3/24/10

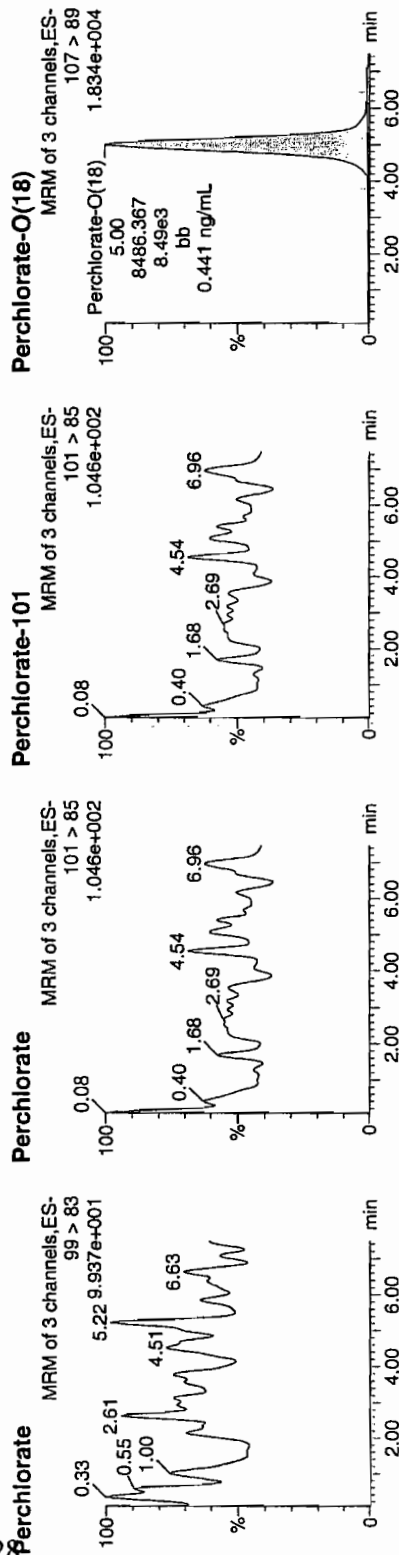
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323048a
Date: 23-Mar-2010
Time: 21:56:41
SP: IPB006
Vial: 1:1,A

03-24-10



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	5.00	8486.367	8486.367	bb			0.4409	88.17	-11.83	2084.5...	
IPB006	Perchlorate-O(18)	107 > 89	5.00	8486.367	8486.367	bb			0.4409	88.17	-11.83	2084.5...	

1477
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 59 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323059a

Date: 23-Mar-2010

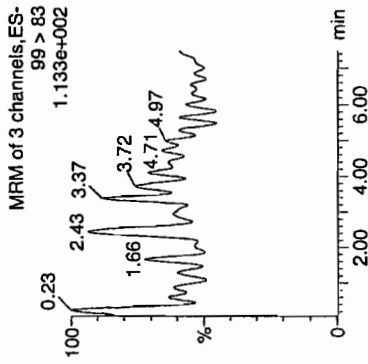
Time: 23:53:12

ID: IPB007

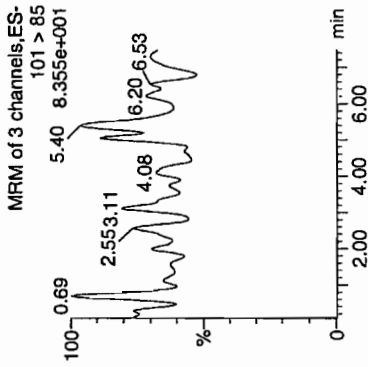
Vial: 1:1,A

228

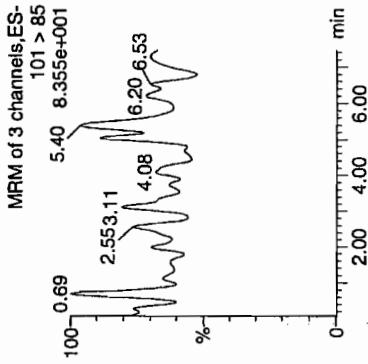
Perchlorate



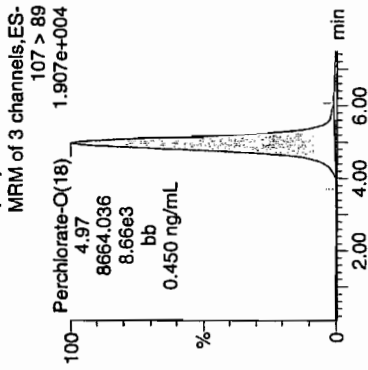
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85											
IPB007	Perchlorate-O(18)	107 > 89	4.97	8664.036	8664.036	bb			0.4501	90.02	-9.98	500.070	

107
3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323070a

Date: 24-Mar-2010

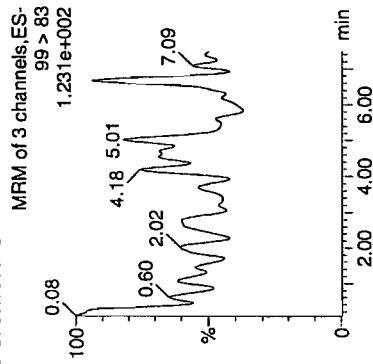
Time: 01:49:51

ID: IPB008

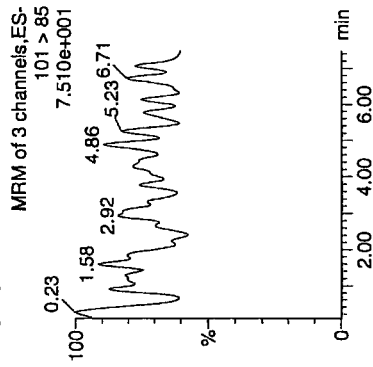
Qual: 1:1,A

28

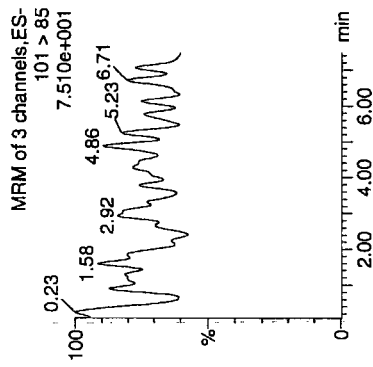
Perchlorate



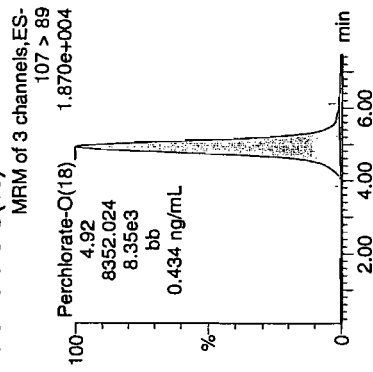
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83											0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	4.92	8352.024	8352.024	bb			0.4339	86.78	-13.22	887.020	

not
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 83 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

File Name: per0323083a

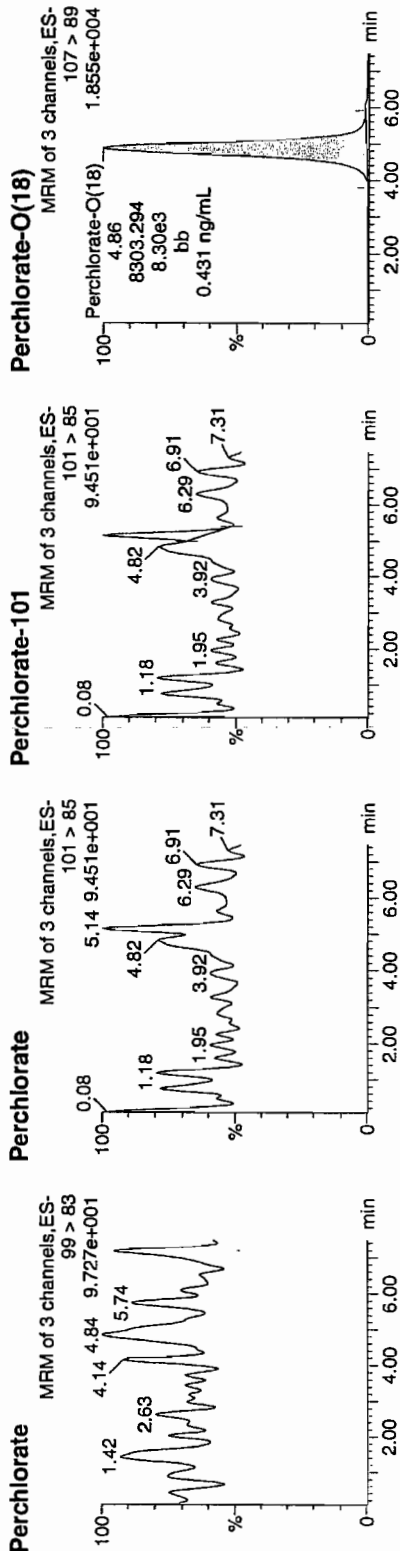
Date: 24-Mar-2010

Time: 04:07:15

ID: IPB009

Vial: 1:1,A

03-24-10



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	5.14	6.555	6.555	bb			0.0008	86.27	-13.73	16.541	
IPB009	Perchlorate-O(18)	107 > 89	4.86	8303.294	8303.294	bb			0.4314	✓	1593.4...		

14077
3/24/10

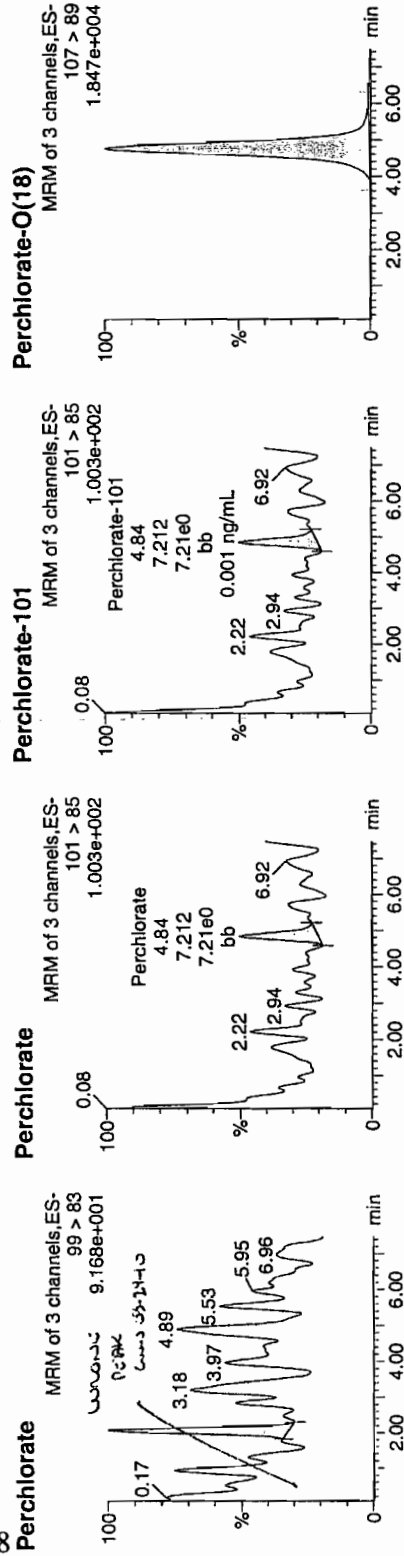
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323096a
Date: 24-Mar-2010
Time: 06:25:03
ID: IPB010
Vial: 1:1,A

and
03-24-17



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83	2.05	12.677	12.677	bb			0.0005			13.151	1.76
IPB010	Perchlorate-101	101 > 85	4.84	7.212	7.212	bb			0.0009			14.128	
IPB010	Perchlorate-O(18)	107 > 89	4.75	8346.123	8346.123	bb			0.4336	86.72	-13.28	2940.3...	

OKAY
200500
1047
5/14/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Page 68

Name: per0323104a

Date: 24-Mar-2010

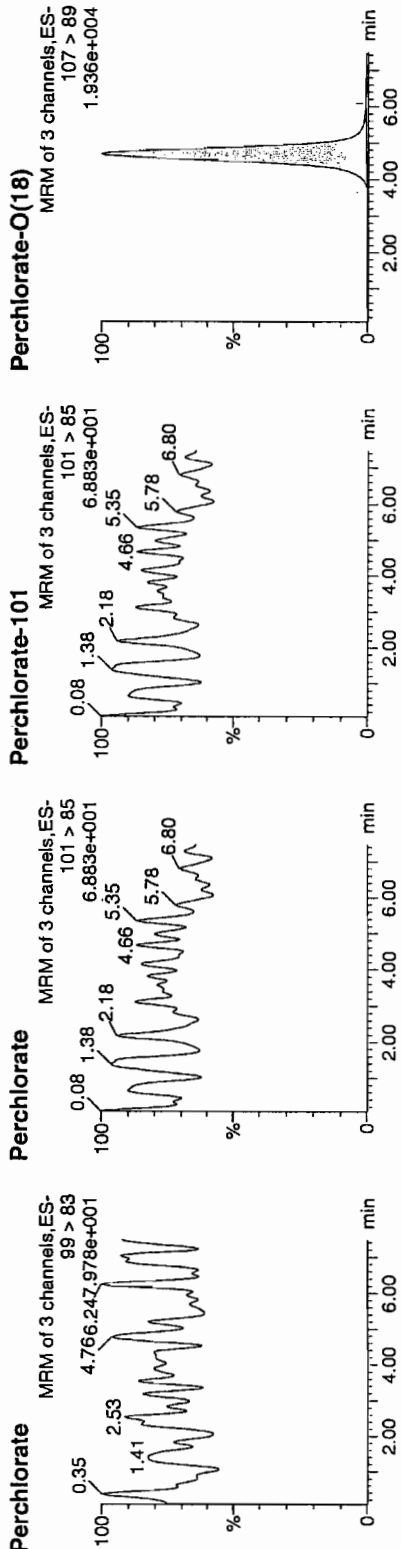
Time: 07:51:42

ID: IPB011

Sample: 1:1A

28

03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB011	Perchlorate	99 > 83											0.00
IPB011	Perchlorate-101	101 > 85	4.69	8746.398	8746.398	bb			0.4544	90.87	-9.13	356.324	
IPB011	Perchlorate-O(18)	107 > 89											

MTT
5/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Page 8 of 116

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324008a

Date: 24-Mar-2010

Time: 14:13:42

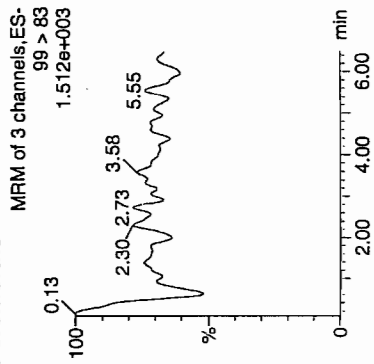
ID: IPB002

Dial: 1:1A

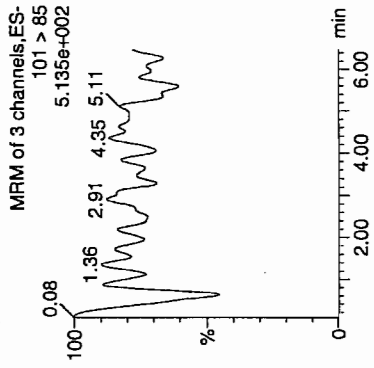
28

0.072510

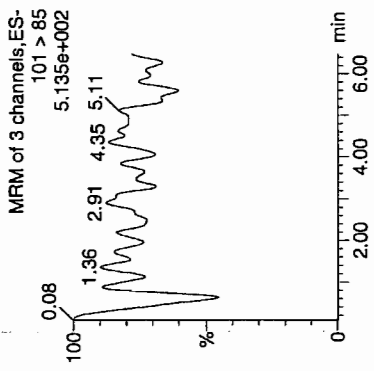
Perchlorate



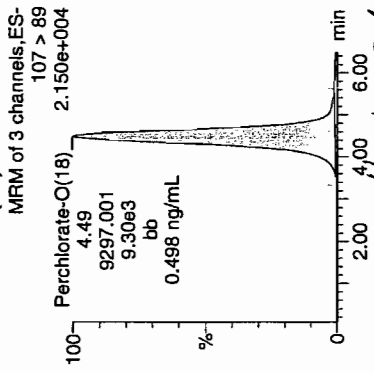
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	4.49	9297.001	9297.001	bb			0.4984	99.67	-0.33	544.973	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 10 of 116

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324010a

Date: 24-Mar-2010

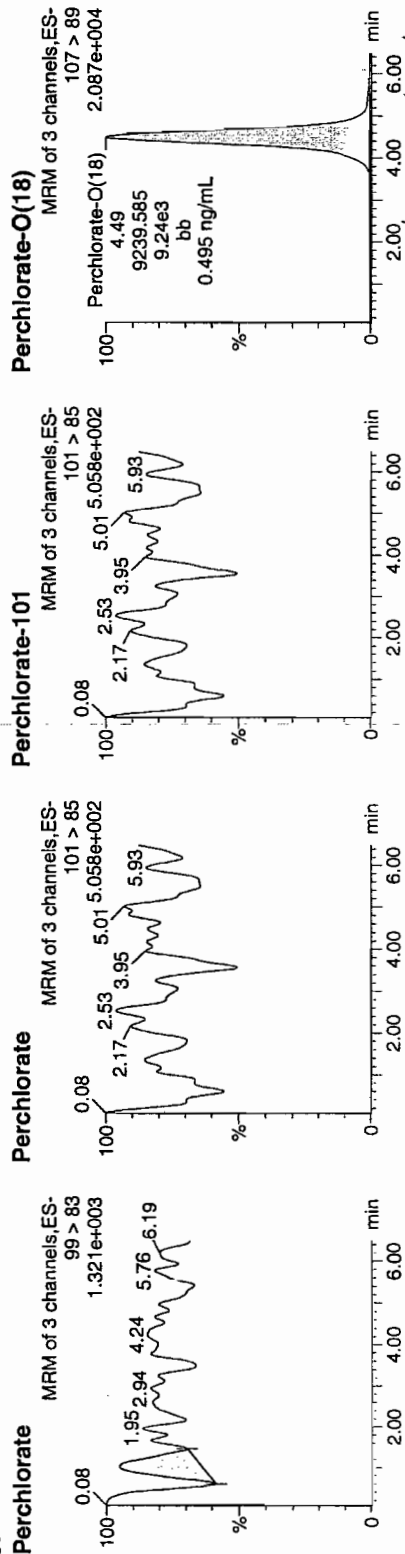
Time: 14:32:48

ID: IPB003

Gal: 1:1,A

28

03-25-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83	1.02	205.139	205.139	bb			0.0083			6.530	0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	4.49	9239.585	9239.585	bb			0.4953	99.06	-0.94	1550.3...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charliers W. Wilson

Page 18 of 116

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
 Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324018a

Date: 24-Mar-2010

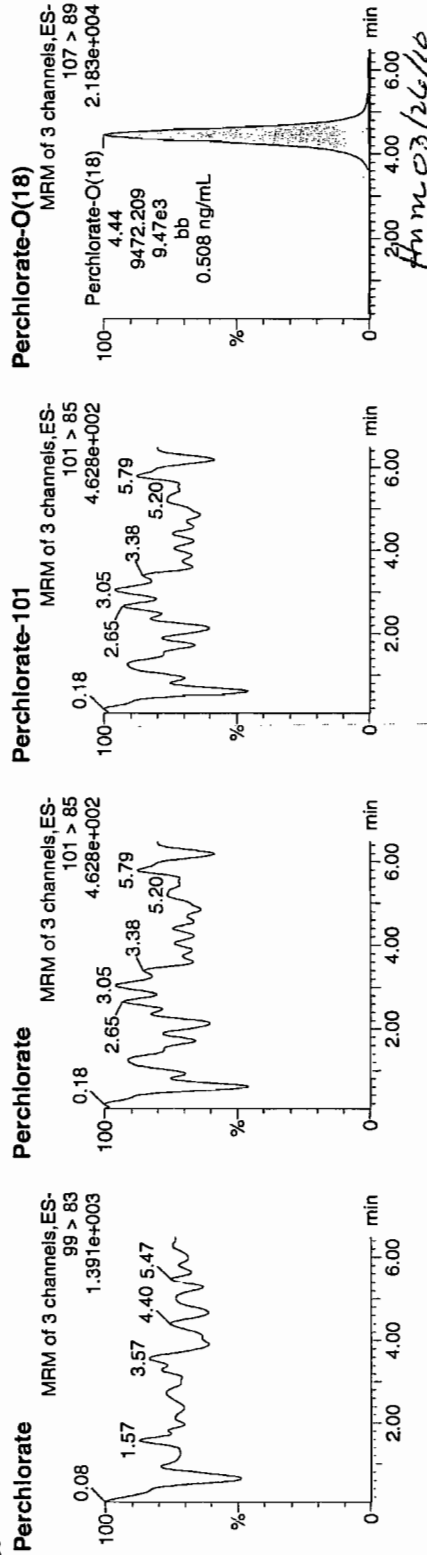
Time: 15:50:32

ID: IPB004

Vial: 1:1,A

28

6000
 30-25-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	4.44	9472.209	9472.209	bb			0.5077	101.55	1.55	218.838	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlefs W. Wilson

Page 21 of 116

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324021a

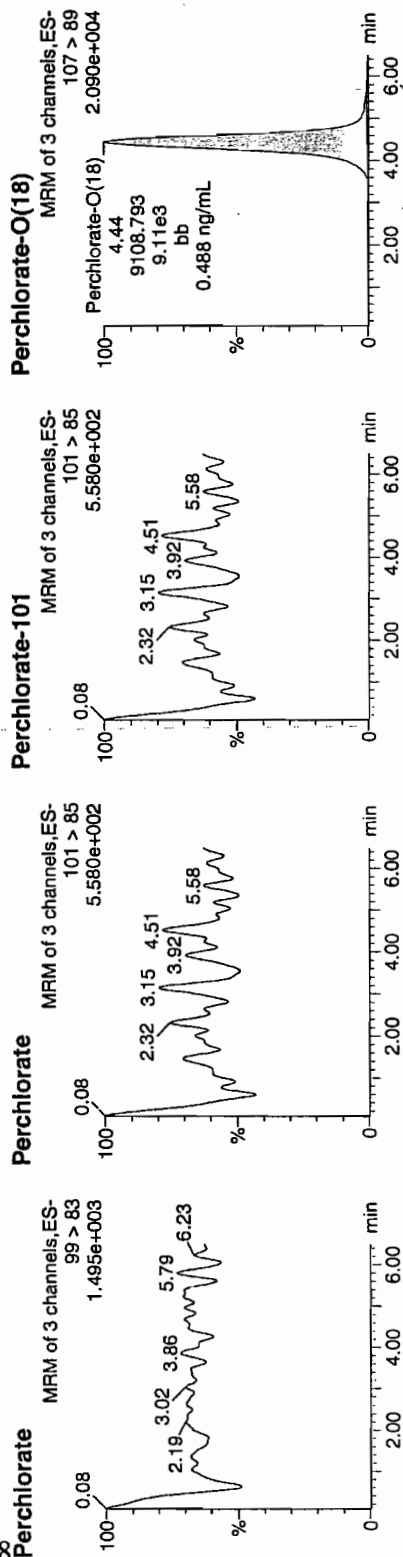
Date: 24-Mar-2010

Time: 16:19:24

ID: IPB005

Dial: 1:1,A

2028



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	4.44	9108.793	9108.793	bb			0.4883	97.65	-2.35	1333.5...	

Nairb.ref

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

Updated 20 April '95

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

QUANTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

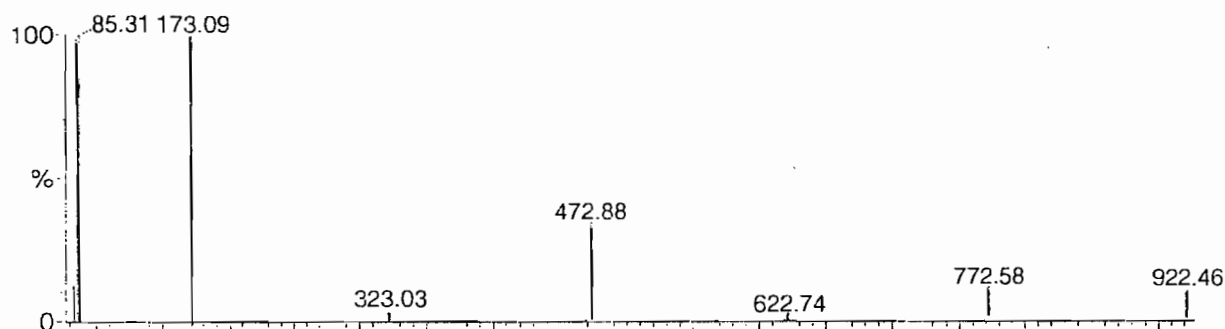
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

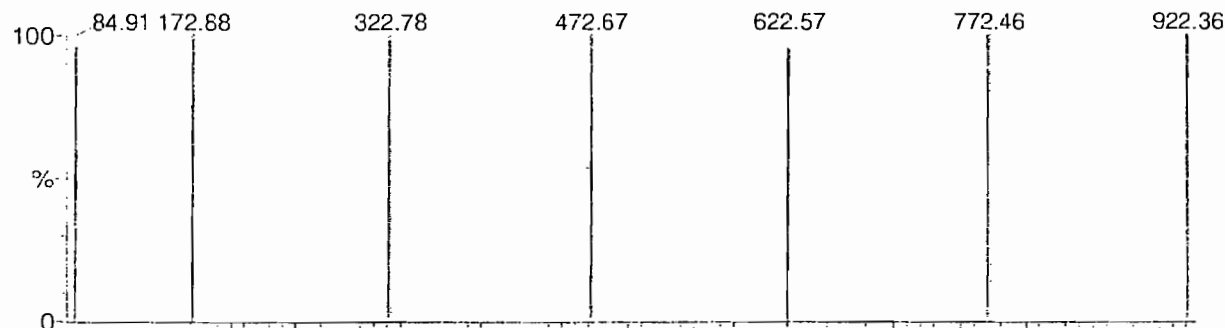
POINTS HIGHLIGHTED BY CURVE 01-01-03

Data file: STATMS1 - Uncalibrated

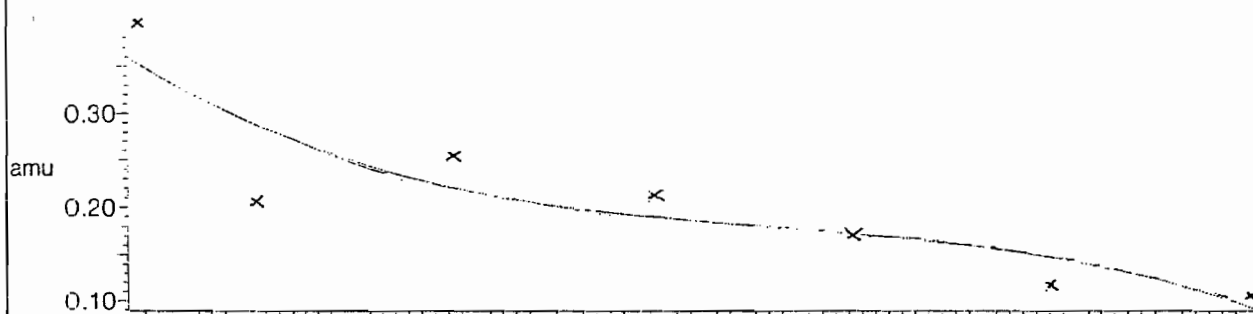
7 matches of 7 tested references



Reference file: Nairb

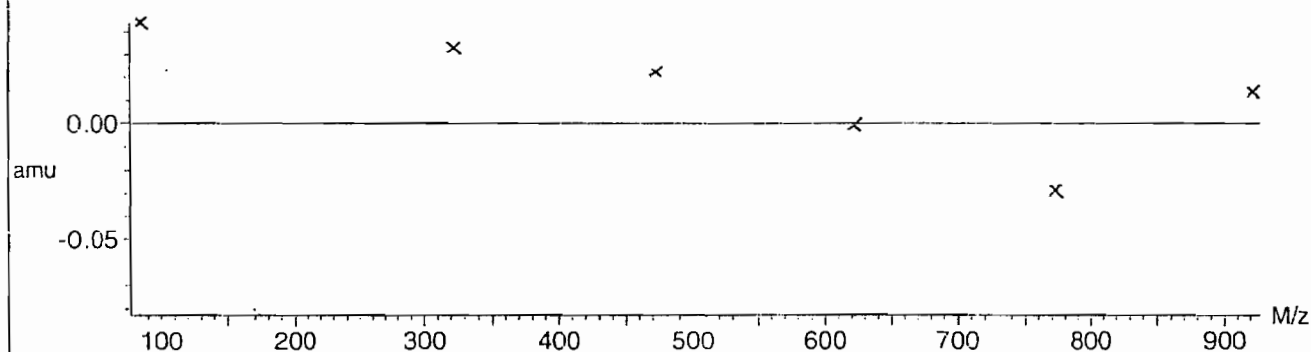


Mass difference (Raw - Ref mass)



Residuals

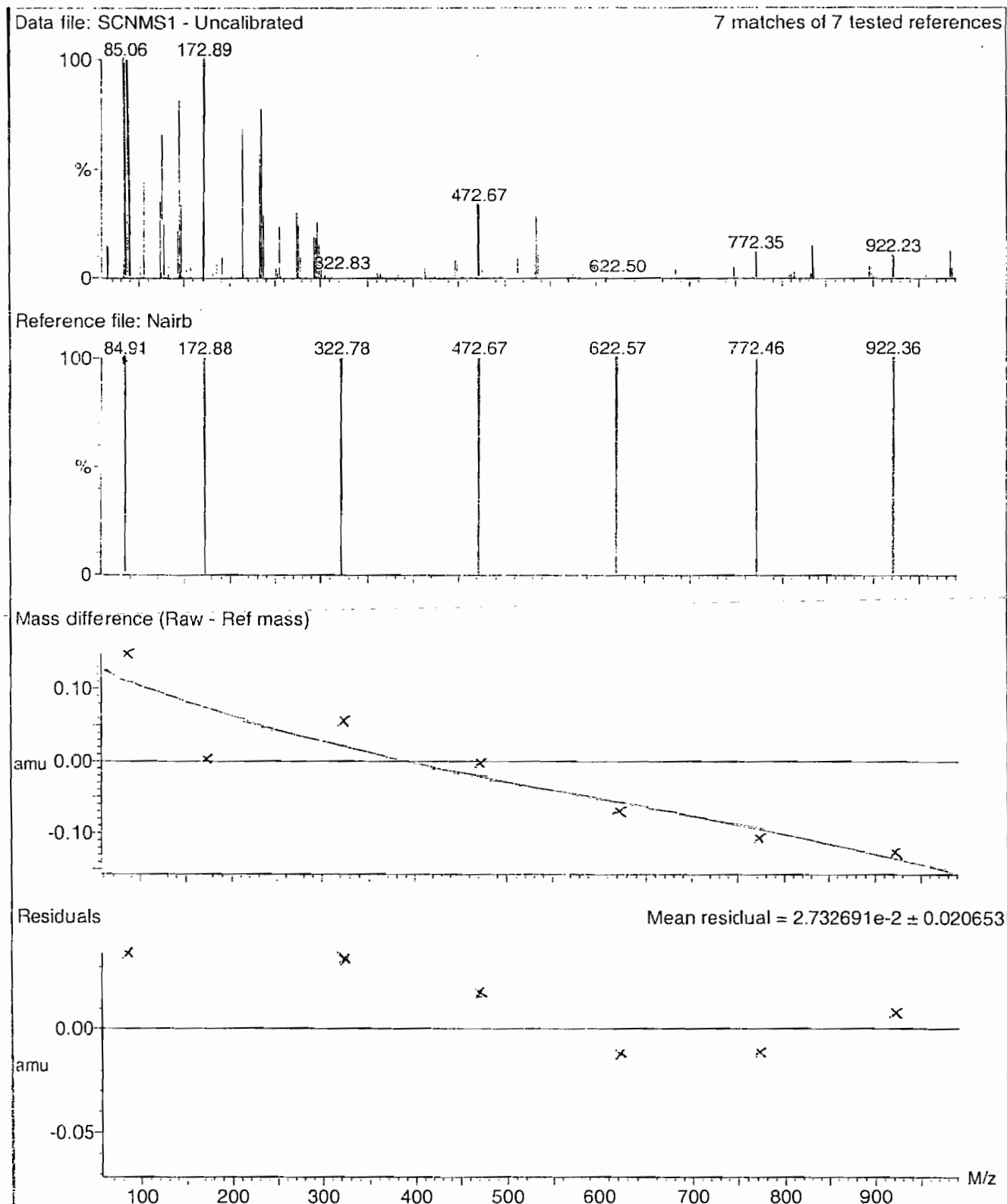
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

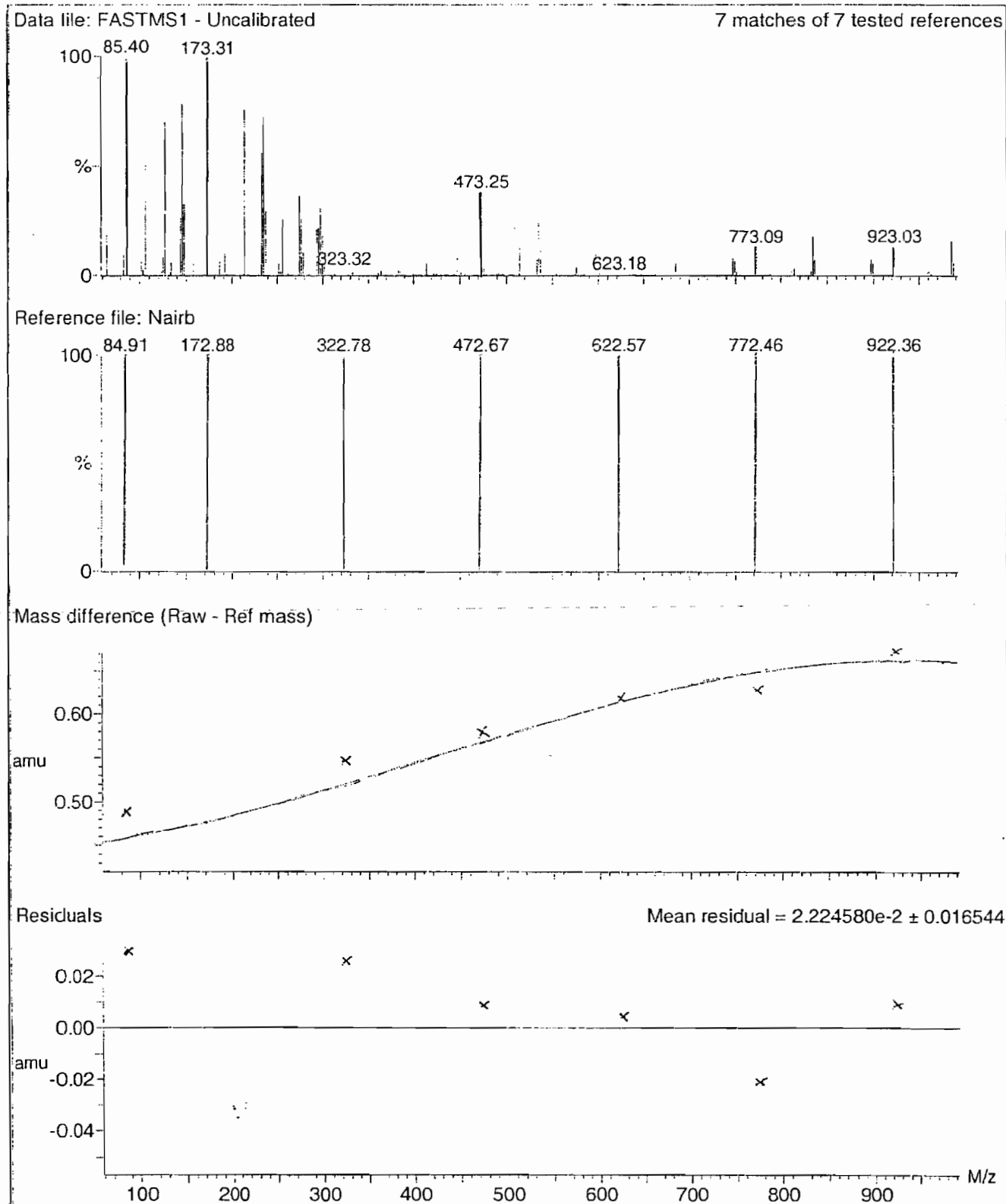
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

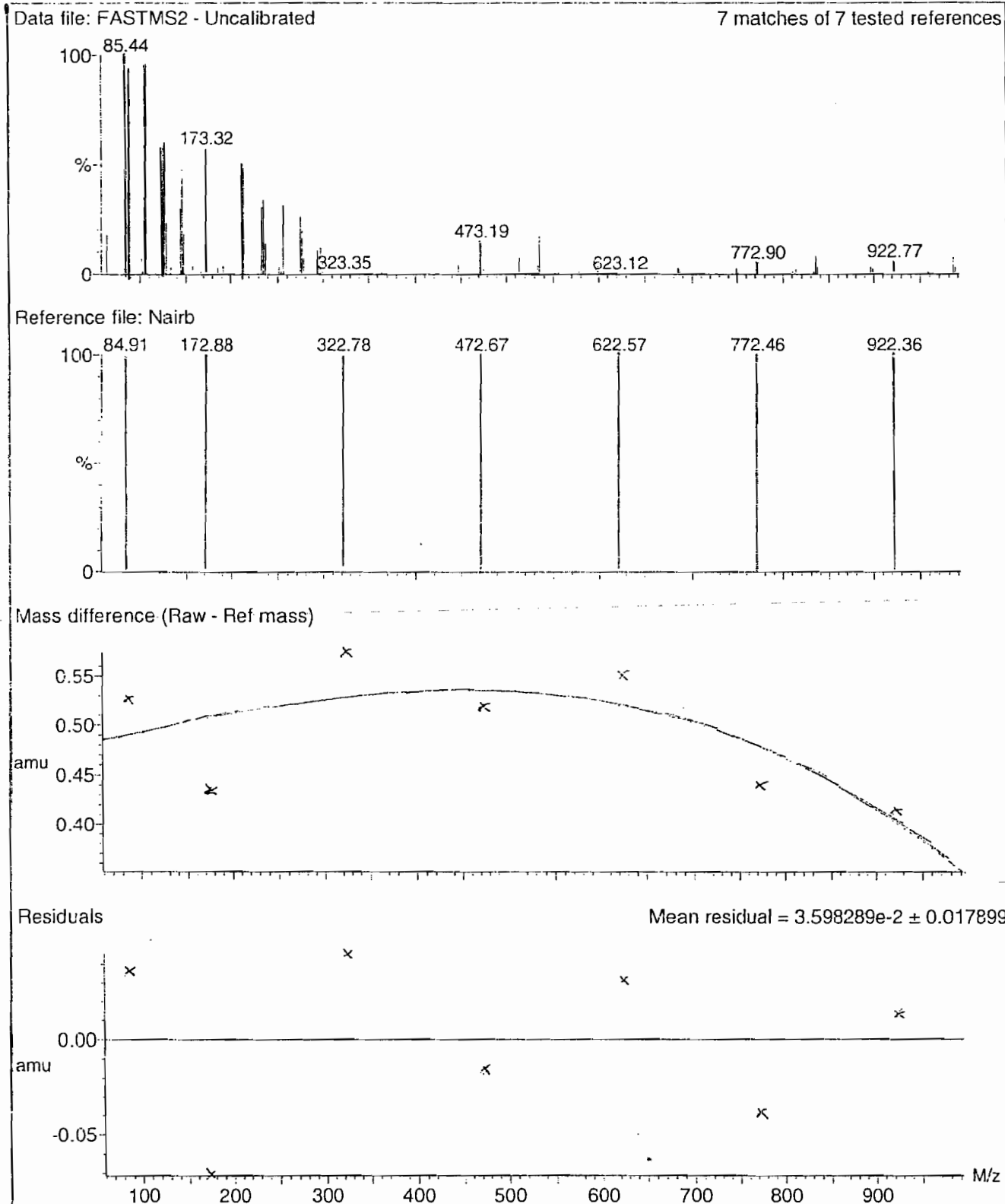
Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:23:51 2008



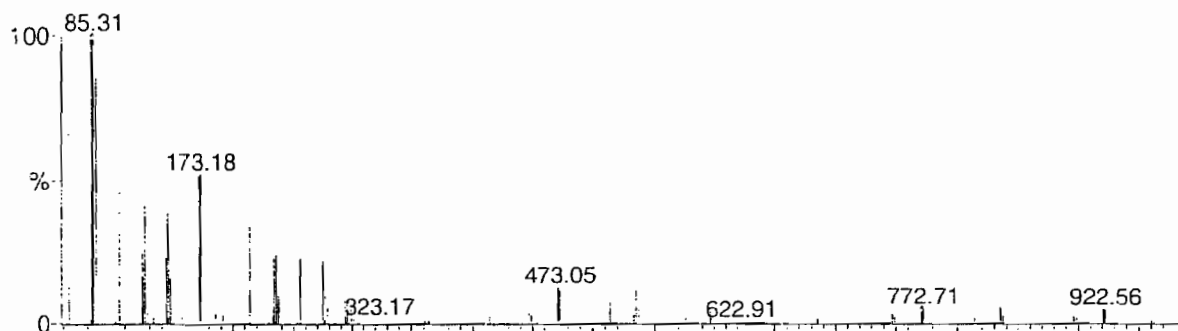
Calibration Report - MS2 Scanning

Page 1 of 1

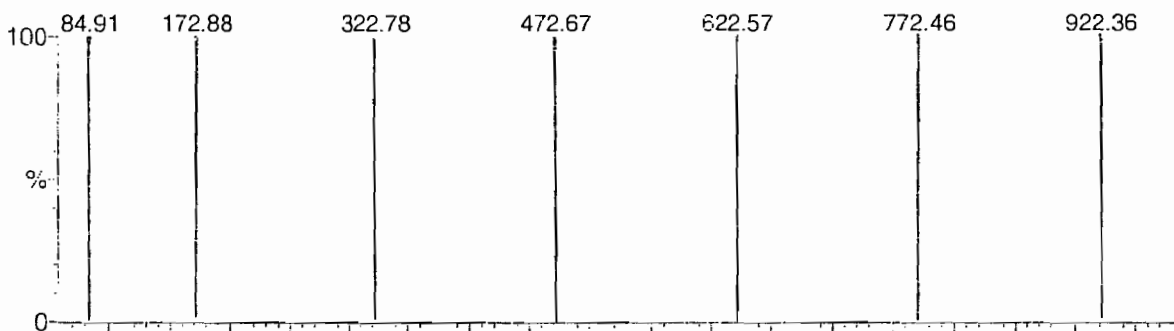
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

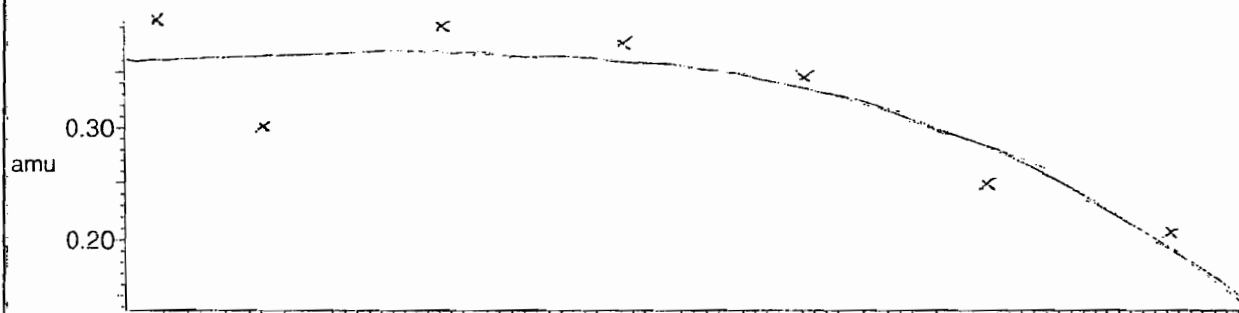
7 matches of 7 tested references



Reference file: Nairb

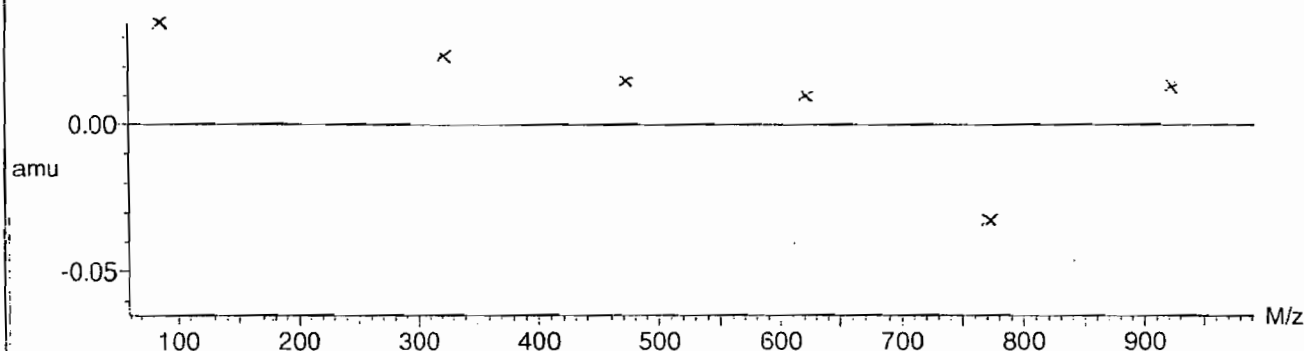


Mass difference (Raw - Ref mass)



Residuals

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



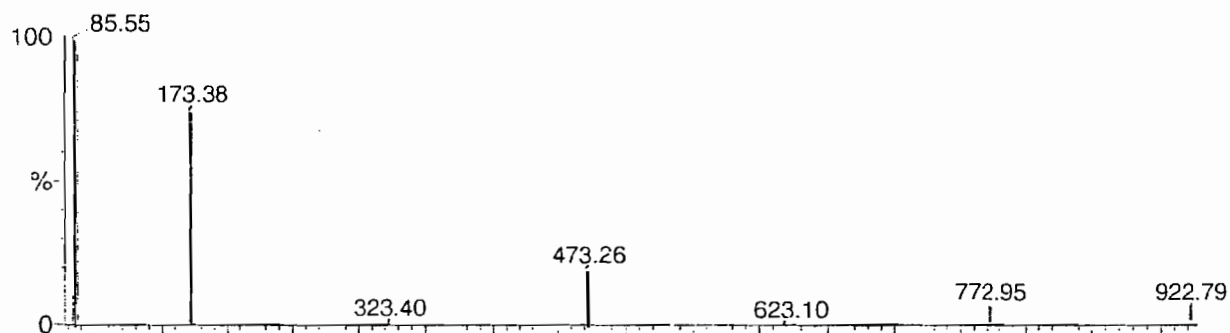
Calibration Report - MS2 Static

Page 1 of 1

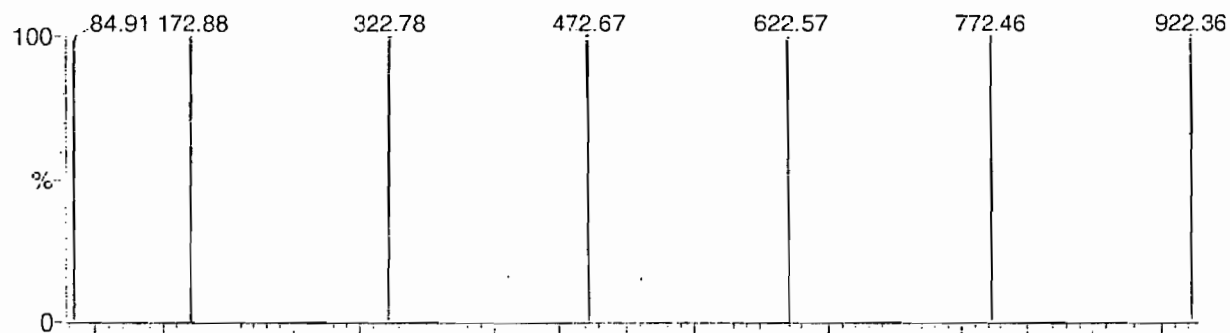
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

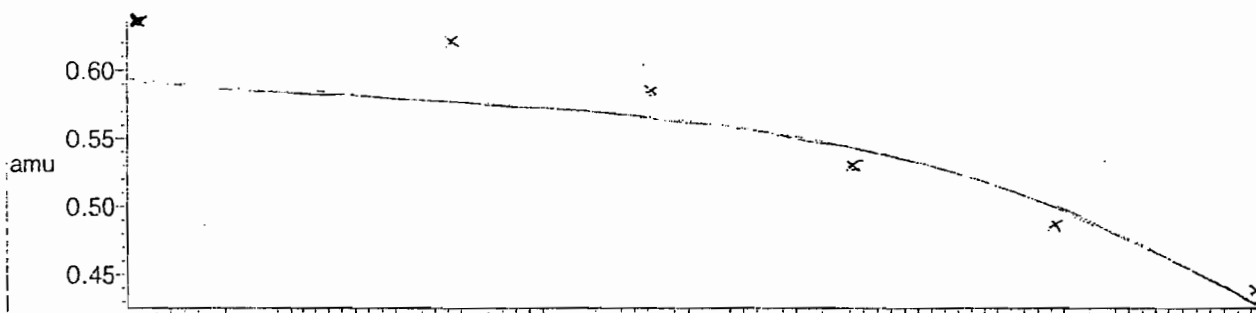
7 matches of 7 tested references



Reference file: Nairb

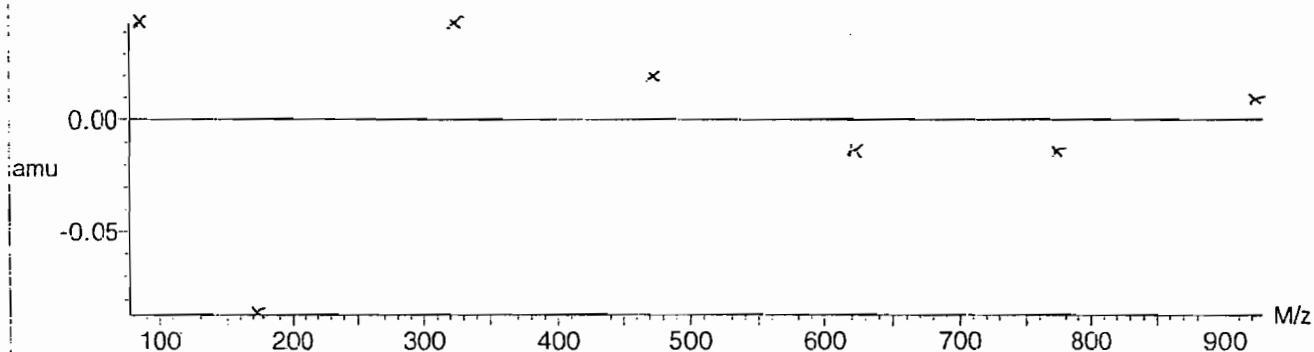


Mass difference (Raw - Ref mass)



Residuals

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



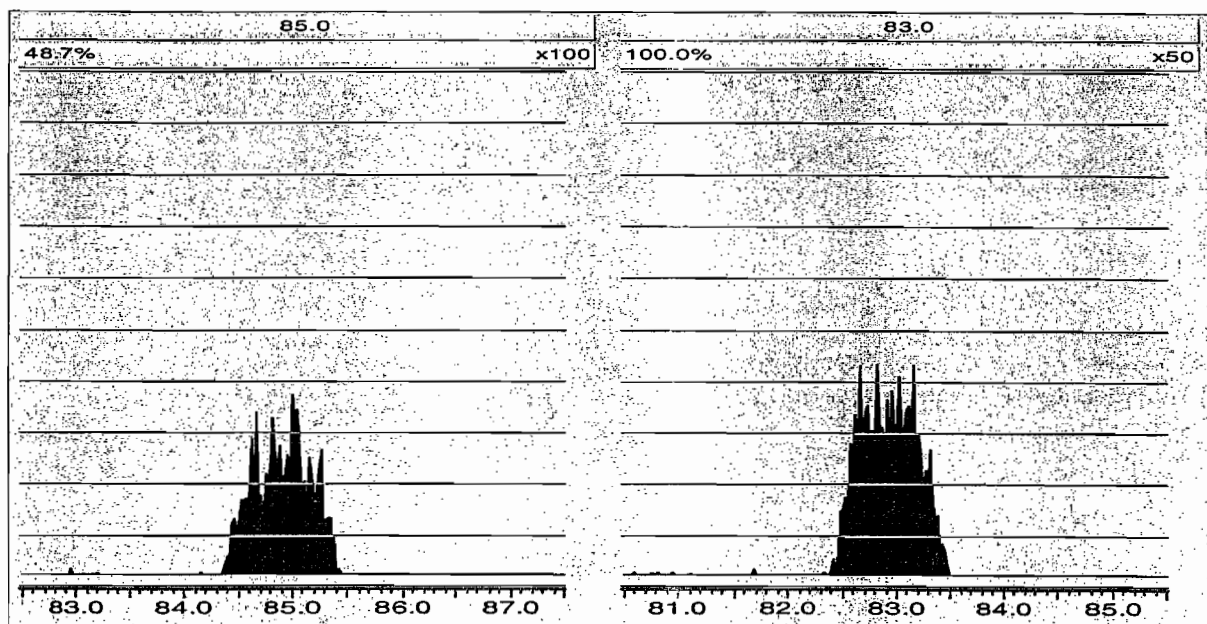
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Tuesday, March 23, 2010 11:26:54 Eastern Standard Time



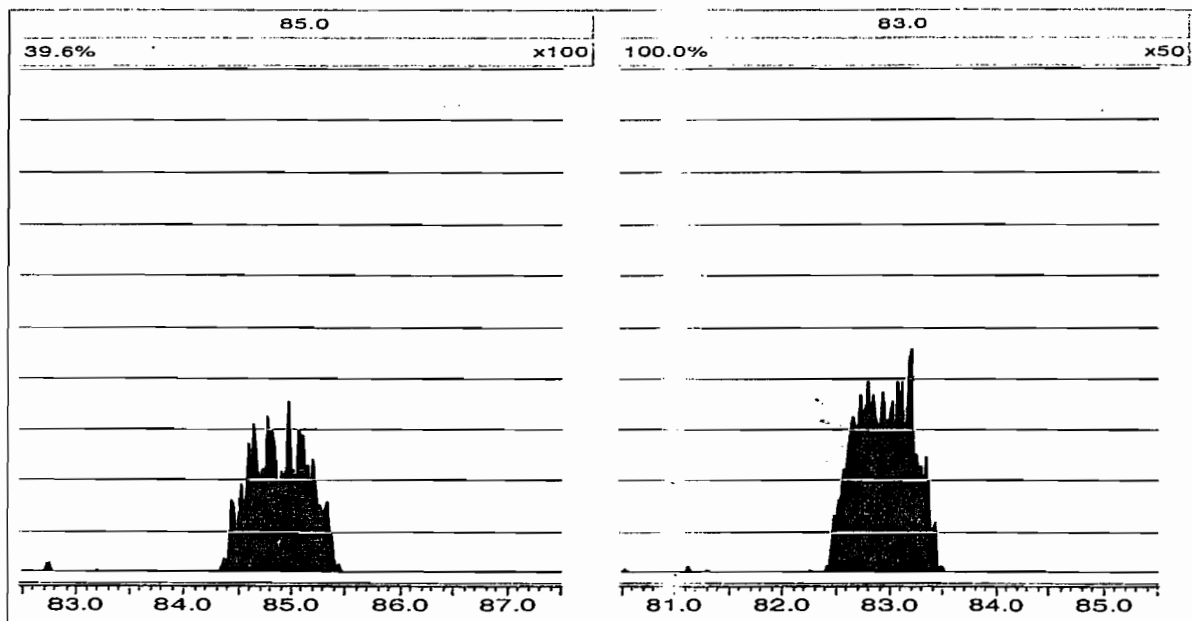
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, March 24, 2010 09:36:50 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0323006a	23-MAR-10	10086.3				
Lower Area Limit			5043.15				
Upper Area Limit			20172.6				
1202063747	per0323072a	24-MAR-10 02:11	8732.64	4.91	4.87418	.993	
1202063748	per0323073a	24-MAR-10 02:21	8592.83	4.9	4.92402	1.005	
1202063751	per0323074a	24-MAR-10 02:32	10089.3	5.21	5.23437	1.005	
248511003	per0323079a	24-MAR-10 03:24	8465.03	4.87	4.89908	1.006	
248511004	per0323080a	24-MAR-10 03:35	8895.32	4.86	4.83685	.995	
248511005	per0323081a	24-MAR-10 03:45	9085.12	4.85	4.86167	1.002	
248511008	per0323087a	24-MAR-10 04:49	8841.36	4.84	4.84937	1.002	
248511009	per0323088a	24-MAR-10 05:00	8524.95	4.82	4.84945	1.006	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

GEL Job No.(SDG): 10-2194

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0323006a	23-MAR-10	10086.3				
Lower Area Limit			5043.15				
Upper Area Limit			20172.6				
248511010	per0323089a	24-MAR-10 05:10	8443.9	4.81	4.83688	1.006	
248511011	per0323090a	24-MAR-10 05:21	8664.08	4.81	4.82438	1.003	
248511012	per0323091a	24-MAR-10 05:31	8715.01	4.79	4.83687	1.01	
248511013	per0323092a	24-MAR-10 05:42	9346.39	4.77	4.7872	1.004	
248511014	per0323093a	24-MAR-10 05:52	8800.01	4.76	4.7748	1.003	
248511015	per0323094a	24-MAR-10 06:03	8634.58	4.76	4.81213	1.011	
248511016	per0323098a	24-MAR-10 06:46	8917.54	4.74	4.76232	1.005	
248511017	per0323099a	24-MAR-10 06:57	8728.59	4.74	4.76238	1.005	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

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	per0323006a	23-MAR-10	10086.3				
Lower Area Limit			5043.15				
Upper Area Limit			20172.6				
248511018	per0323100a	24-MAR-10 07:07	8326.9	4.74	4.76235	1.005	
248511019	per0323101a	24-MAR-10 07:18	8961.48	4.71	4.74988	1.008	
248511020	per0323102a	24-MAR-10 07:28	9271.15	4.7	4.72513	1.005	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0324006a	24-MAR-10	9839.1				
Lower Area Limit			4919.55				
Upper Area Limit			19678.2				
248511001	per0324012a	24-MAR-10 14:51	9442.74	4.49	4.51407	1.005	
1202063749	per0324013a	24-MAR-10 15:01	9281.89	4.48	4.50158	1.005	
1202063750	per0324014a	24-MAR-10 15:11	9517.1	4.46	4.47663	1.004	
248511002	per0324015a	24-MAR-10 15:21	9949.97	4.45	4.47668	1.006	
248511006	per0324016a	24-MAR-10 15:31	10143.1	4.48	4.48907	1.002	
248511007	per0324017a	24-MAR-10 15:41	9527.41	4.45	4.47665	1.006	

SAMPLE DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7407

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511001

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	3.24	13	54.1	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate Isotope Ratio			3.03			5	24-MAR-10 14:51	per0324012a
14797-73-0	Perchlorate-101	3.24	13	55.9	ug/kg		5	24-MAR-10 14:51	per0324012a
	Perchlorate-O(18)			32.8	ug/kg		5	24-MAR-10 14:51	per0324012a

[^] 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\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324012a

Date: 24-Mar-2010

Time: 14:51:54

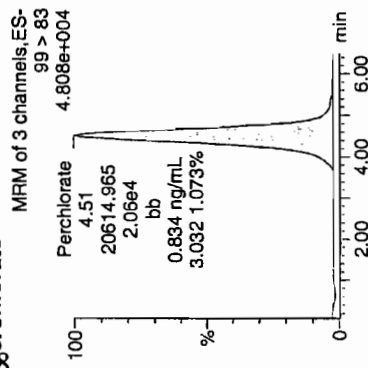
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Serial: 1:3,A

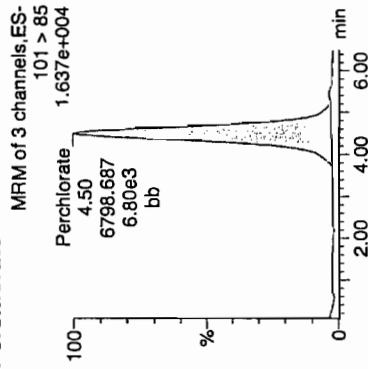
03-25-10

LAN-1962130 | 3000 | 5 | DL

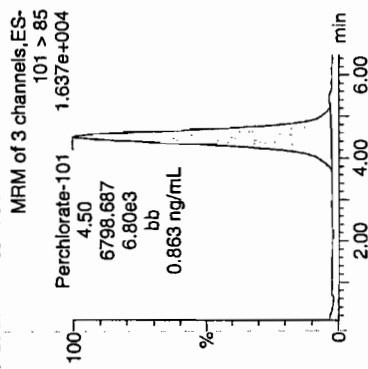
Perchlorate



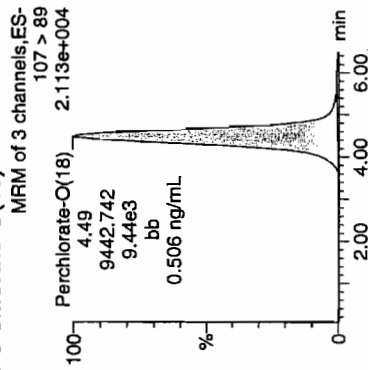
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511001	Perchlorate	99 > 83	4.51	20614.965	20614.965	bb			0.8340	-		362.803	3.03
248511001	Perchlorate-101	101 > 85	4.50	6798.687	6798.687	bb			0.8629			407.713	
248511001	Perchlorate-O(18)	107 > 89	4.49	9442.742	9442.742	bb			0.5062	101.23	1.23	1560.5...	

= 4.17
x5
= 4.31

20614.965	10	100	5
24716.9	77.1		54.1

03-25-10

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7421

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511002

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 85

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.588	2.35	1.81	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate Isotope Ratio			2.75			1	24-MAR-10 15:21	per0324015a
14797-73-0	Perchlorate-101	.588	2.35	2.06	ug/kg	J	1	24-MAR-10 15:21	per0324015a
	Perchlorate-O(18)			6.27	ug/kg		1	24-MAR-10 15:21	per0324015a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324015a

Date: 24-Mar-2010

Time: 15:21:56

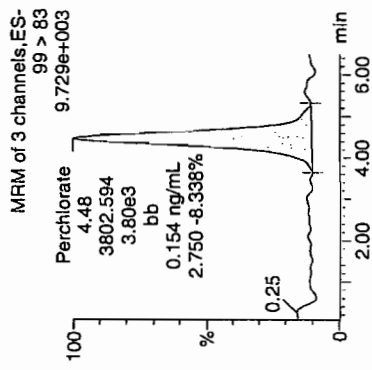
ID: 248511002

Vial: 1:3,D

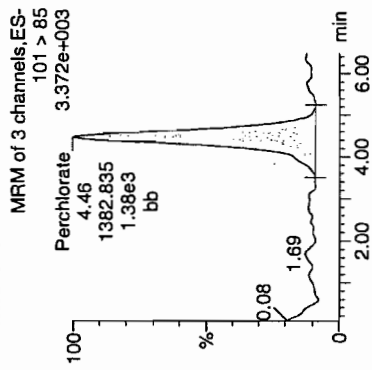
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Law 1902130 | 2010/11/10

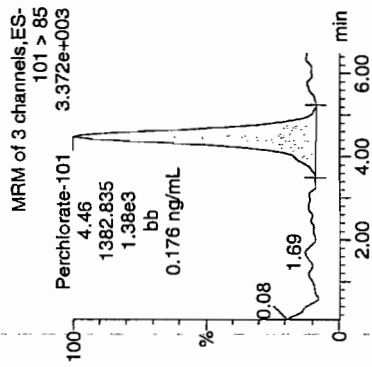
Perchlorate



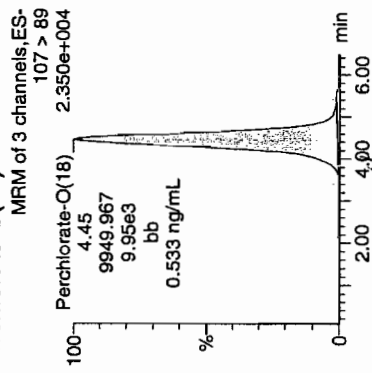
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511002	Perchlorate	99 > 83	4.48	3802.594	3802.594	bb			0.1538			88.663	2.75
248511002	Perchlorate-101	101 > 85	4.46	1382.835	1382.835	bb			0.1755			53.017	
248511002	Perchlorate-O(18)	107 > 89	4.45	9949.967	9949.967	bb			0.5334	106.67	6.67	824.572	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7422

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511003

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 94.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.531	2.12	1.50	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate Isotope Ratio			2.81			1	24-MAR-10 03:24	per0323079a
14797-73-0	Perchlorate-101	.531	2.12	1.61	ug/kg	J	1	24-MAR-10 03:24	per0323079a
	Perchlorate-O(18)			4.67	ug/kg		1	24-MAR-10 03:24	per0323079a

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

*Concentration =

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

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

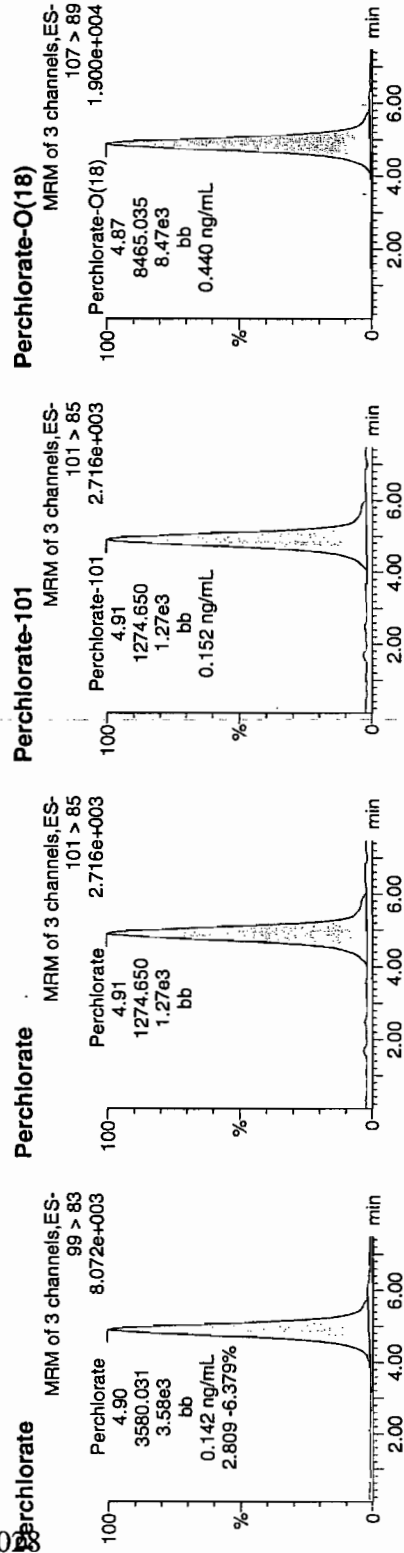
Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323079a
Date: 24-Mar-2010
Time: 03:24:55
ID: 248511003
Vial: 3:2,B

03-24-10

1274.650 | 3580.031 | 1.1



4/10 03/26/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511003	Perchlorate	99 > 83	4.90	3580.031	3580.031	bb			0.1415			459.712	2.81
248511003	Perchlorate-101	101 > 85	4.91	1274.650	1274.650	bb			0.1519			312.880	
248511003	Perchlorate-O(18)	107 > 89	4.87	8465.035	8465.035	bb			0.4398	87.95	-12.05	1476.9...	

$$\frac{3580.031}{25275.2} \times 100 = 1.50$$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7451

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511004

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 61

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate Isotope Ratio						1	24-MAR-10 03:35	per0323080a
14797-73-0	Perchlorate-101	.825	3.3	0.825	ug/kg	U	1	24-MAR-10 03:35	per0323080a
	Perchlorate-O(18)			7.63	ug/kg		1	24-MAR-10 03:35	per0323080a

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

*Concentration =

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

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323080a

Date: 24-Mar-2010

Time: 03:35:27

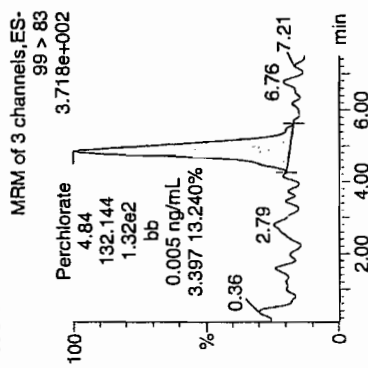
ID: 248511004

Vial: 3:2,C

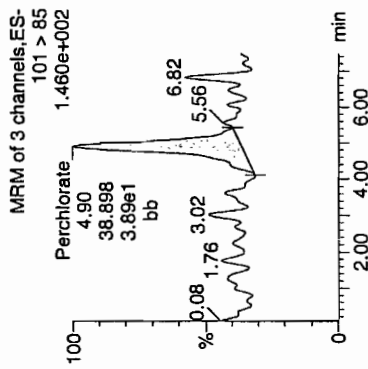
03-24-10

1722 | 962130 | 3020 | 11

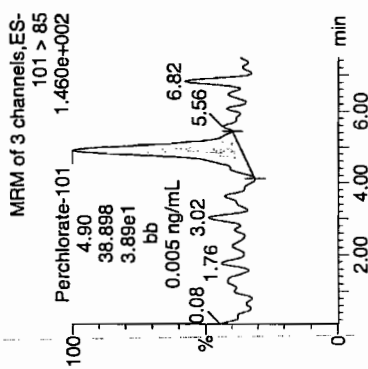
Perchlorate



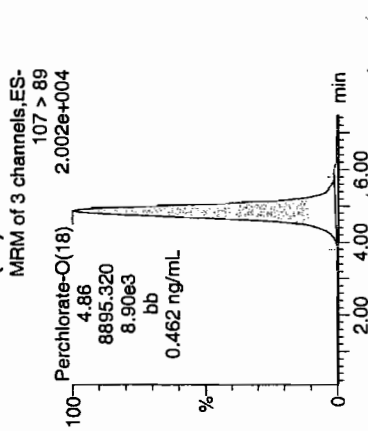
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511004	Perchlorate	99 > 83	4.84	132.144	132.144	bb			0.0052	-		112.428	3.40
248511004	Perchlorate-101	101 > 85	4.90	38.898	38.898	bb			0.0046			36.806	
248511004	Perchlorate-O(18)	107 > 89	4.86	8895.320	8895.320	bb			0.4621	92.42	-7.58	743.608	

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: 262129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7449

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511005

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.608	2.43	0.714	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 03:45	per0323081a
14797-73-0	Perchlorate-101	.608	2.43	0.826	ug/kg	J	1	24-MAR-10 03:45	per0323081a
	Perchlorate-O(18)			5.74	ug/kg		1	24-MAR-10 03:45	per0323081a

[^] 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

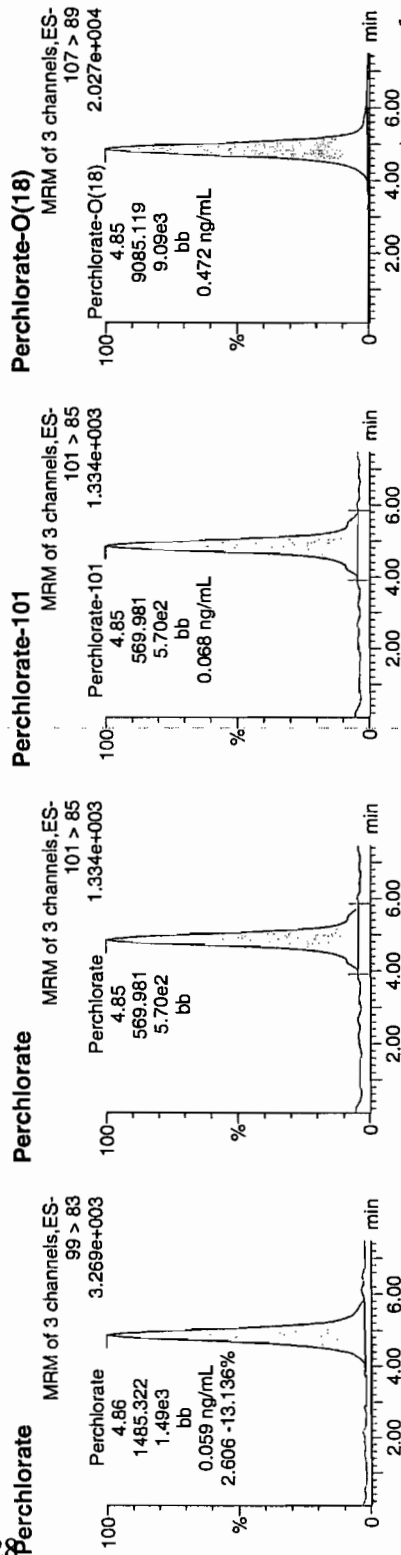
Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323081a
Date: 24-Mar-2010
Time: 03:45:59
ID: 248511005
Vial: 3:2,D

LANC | 962130 | 5055 | 11

UNW
0324-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511005	Perchlorate	99 > 83	4.86	1485.322	1485.322	bb			0.0587	-		317.685	2.61
248511005	Perchlorate-101	101 > 85	4.85	569.981	569.981	bb			0.0679	-		59.807	
248511005	Perchlorate-O(18)	107 > 89	4.85	9085.119	9085.119	bb			0.4720	94.39	-5.61	1698.2...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7445

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511006

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 74

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	2.69	10.8	31.9	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate Isotope Ratio			2.99			4	24-MAR-10 15:31	per0324016a
14797-73-0	Perchlorate-101	2.69	10.8	33.4	ug/kg		4	24-MAR-10 15:31	per0324016a
	Perchlorate-O(18)			29.2	ug/kg		4	24-MAR-10 15:31	per0324016a

[^] 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

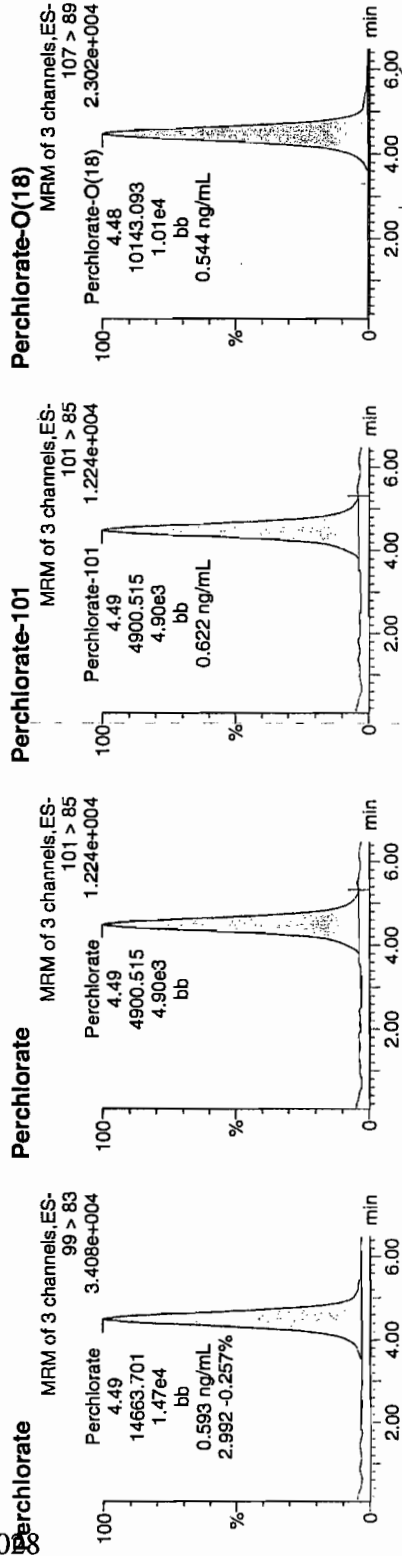
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324016a
Date: 24-Mar-2010
Time: 15:31:28
ID: 248511006
Sample: 1:3,E

W3
03-24-10
LAW | 962130 | 5070 | 4 | 02



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511006	Perchlorate	99 > 83	4.49	14663.701	14663.701	bb			0.5933			325.965	2.99
248511006	Perchlorate-101	101 > 85	4.49	4900.515	4900.515	bb			0.6220			454.961	
248511006	Perchlorate-O(18)	107 > 89	4.48	10143.093	10143.093	bb			0.5437	108.74	8.74	1607.8...	

2.37
2.44

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7450

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511007

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 90.1

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.555	2.22	0.672	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate Isotope Ratio			2.61			1	24-MAR-10 15:41	per0324017a
14797-73-0	Perchlorate-101	.555	2.22	0.806	ug/kg	J	1	24-MAR-10 15:41	per0324017a
	Perchlorate-O(18)			5.67	ug/kg		1	24-MAR-10 15:41	per0324017a

[^] 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: Charliers W. Wilson

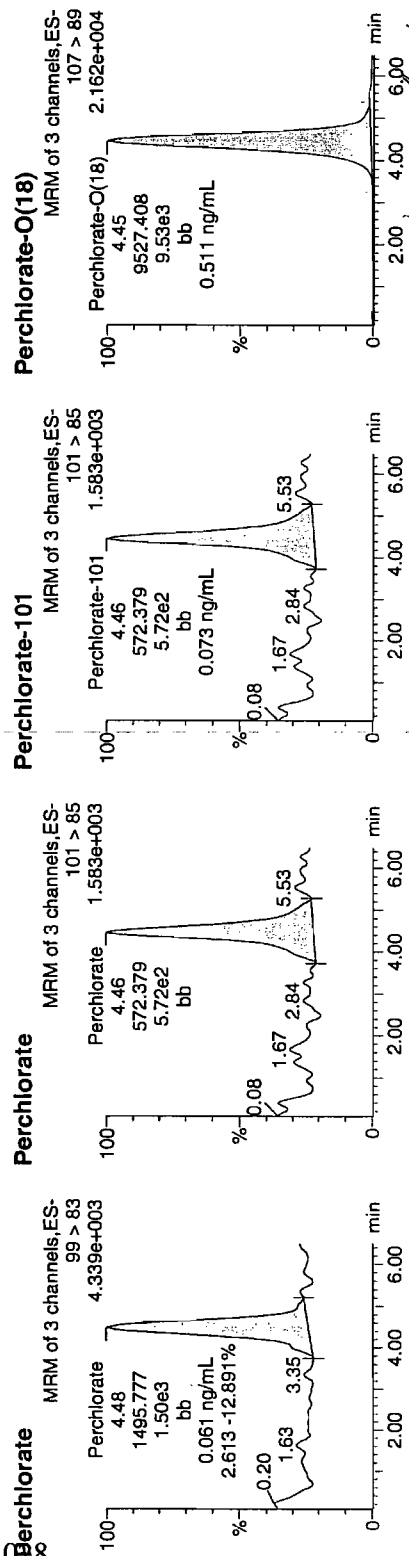
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Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

File Name: per0324017a
Date: 24-Mar-2010
Time: 15:41:00
ID: 248511007
Q/tal: 1:3,F

03-25-10

1222 | 962130 | 5022 | 1 | NA



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
248511007	Perchlorate	99 > 83	4.48	1495.777	1495.777	bb			0.0605			73.932	2.61
248511007	Perchlorate-101	101 > 85	4.46	572.379	572.379	bb			0.0726			20.828	
248511007	Perchlorate-O(18)	107 > 89	4.45	9527.408	9527.408	bb			0.5107	102.14	2.14	441.594	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7444

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511008

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 79

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.63	2.52	0.673	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate Isotope Ratio			3.2			1	24-MAR-10 04:49	per0323087a
14797-73-0	Perchlorate-101	.63	2.52	0.634	ug/kg	J	1	24-MAR-10 04:49	per0323087a
	Perchlorate-O(18)			5.78	ug/kg		1	24-MAR-10 04:49	per0323087a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323087a

Date: 24-Mar-2010

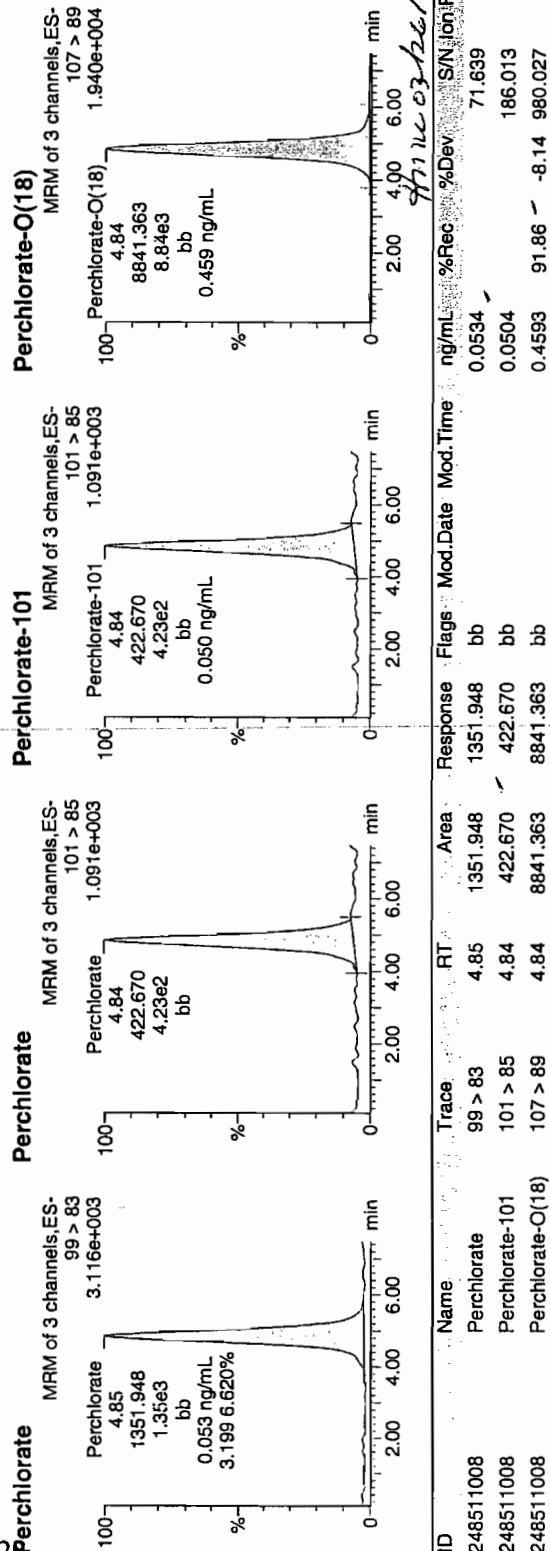
Time: 04:49:43

ID: 248511008

Vial: 3:3,A

23:24-10

19212 | 962130 | 3070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511008	Perchlorate	99 > 83	4.85	1351.948	1351.948	bb			0.0534			71.639	3.20
248511008	Perchlorate-101	101 > 85	4.84	422.670	422.670	bb			0.0504			186.013	
248511008	Perchlorate-O(18)	107 > 89	4.84	8841.363	8841.363	bb			0.4593	91.86	-8.14	980.027	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7448

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511009

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 83

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:00	per0323088a
14797-73-0	Perchlorate-101	.606	2.42	0.606	ug/kg	U	1	24-MAR-10 05:00	per0323088a
	Perchlorate-O(18)			5.37	ug/kg		1	24-MAR-10 05:00	per0323088a

^ 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: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time

Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323088a

Date: 24-Mar-2010

Time: 05:00:16

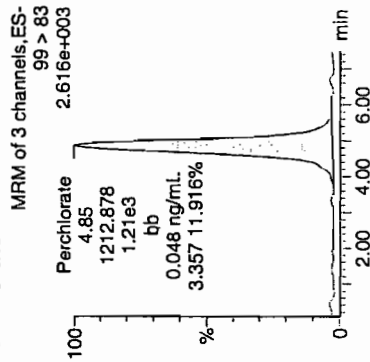
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Vial: 3:3,B

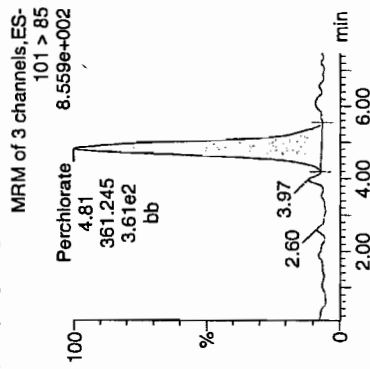
13-24-10

LAJL | 962130 | 5070 | 11

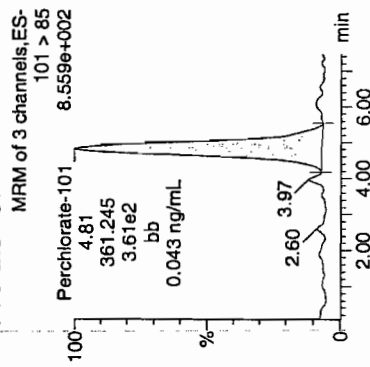
Perchlorate



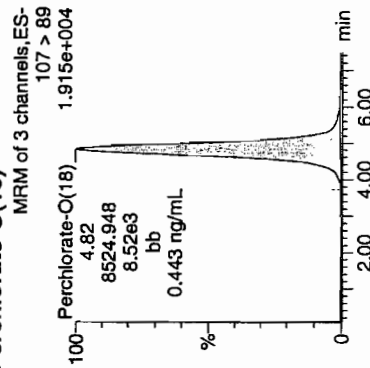
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511009	Perchlorate	99 > 83	4.85	1212.878	1212.878	bb			0.0479			316.957	3.36
248511009	Perchlorate-101	101 > 85	4.81	361.245	361.245	bb			0.0430			151.975	
248511009	Perchlorate-O(18)	107 > 89	4.82	8524.948	8524.948	bb			0.4429	88.57	-11.43	706.435	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7447

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511010

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 71

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.699	2.8	0.994	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate Isotope Ratio			3.23			1	24-MAR-10 05:10	per0323089a
14797-73-0	Perchlorate-101	.699	2.8	0.927	ug/kg	J	1	24-MAR-10 05:10	per0323089a
	Perchlorate-O(18)			6.14	ug/kg		1	24-MAR-10 05:10	per0323089a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323089a

Date: 24-Mar-2010

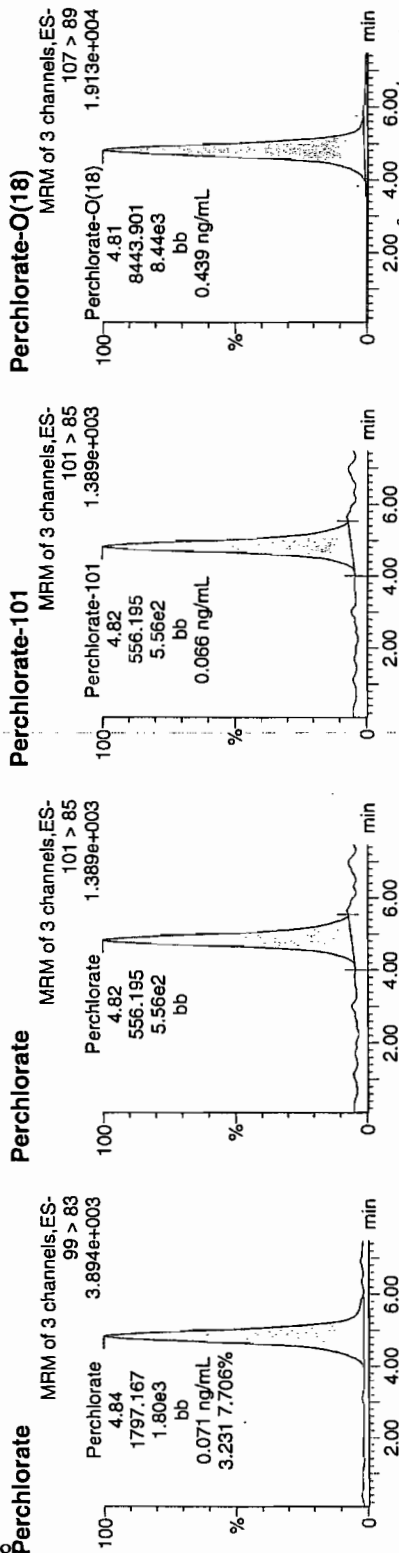
Time: 05:10:49

ID: 248511010

Vial: 3:3,C

03-24-10

962130 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
248511010	Perchlorate	99 > 83	4.84	1797.167	1797.167	bb			0.0710			505.741	3.23
248511010	Perchlorate-101	101 > 85	4.82	556.195	556.195	bb			0.0663			64.217	
248511010	Perchlorate-O(18)	107 > 89	4.81	8443.901	8443.901	bb			0.4387	87.73	-12.27	1505.2...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7443

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511011

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:21	per0323090a
14797-73-0	Perchlorate-101	.668	2.67	0.668	ug/kg	U	1	24-MAR-10 05:21	per0323090a
	Perchlorate-O(18)			6.01	ug/kg		1	24-MAR-10 05:21	per0323090a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323090a

Date: 24-Mar-2010

Time: 05:21:21

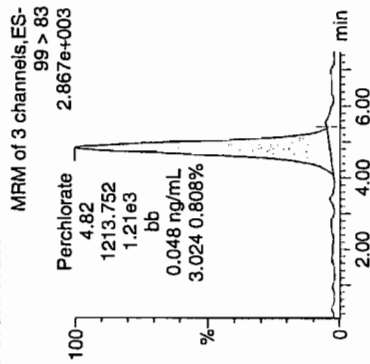
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Vial: 3:3,D

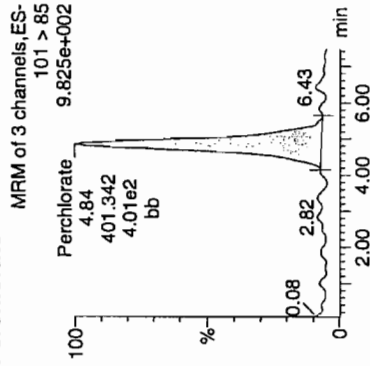
03-24-10

LANC | 902130 | 3020 | 11

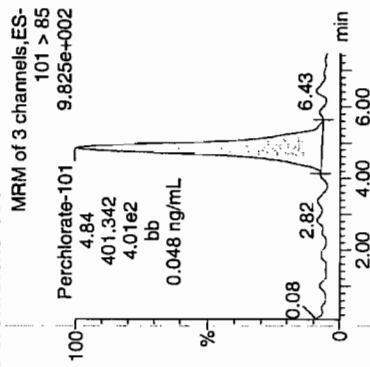
Perchlorate



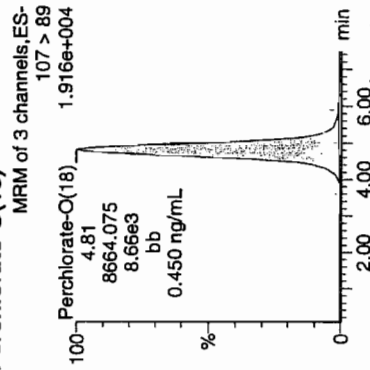
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511011	Perchlorate	99 > 83	4.82	1213.752	1213.752	bb			0.0480	-		405.435	3.02
248511011	Perchlorate-101	101 > 85	4.84	401.342	401.342	bb			0.0478			155.437	
248511011	Perchlorate-O(18)	107 > 89	4.81	8664.075	8664.075	bb			0.4501	90.02	-9.98	706.372	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7452

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511012

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 75

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate Isotope Ratio						1	24-MAR-10 05:31	per0323091a
14797-73-0	Perchlorate-101	.665	2.66	0.665	ug/kg	U	1	24-MAR-10 05:31	per0323091a
	Perchlorate-O(18)			6.03	ug/kg		1	24-MAR-10 05:31	per0323091a

[^] 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

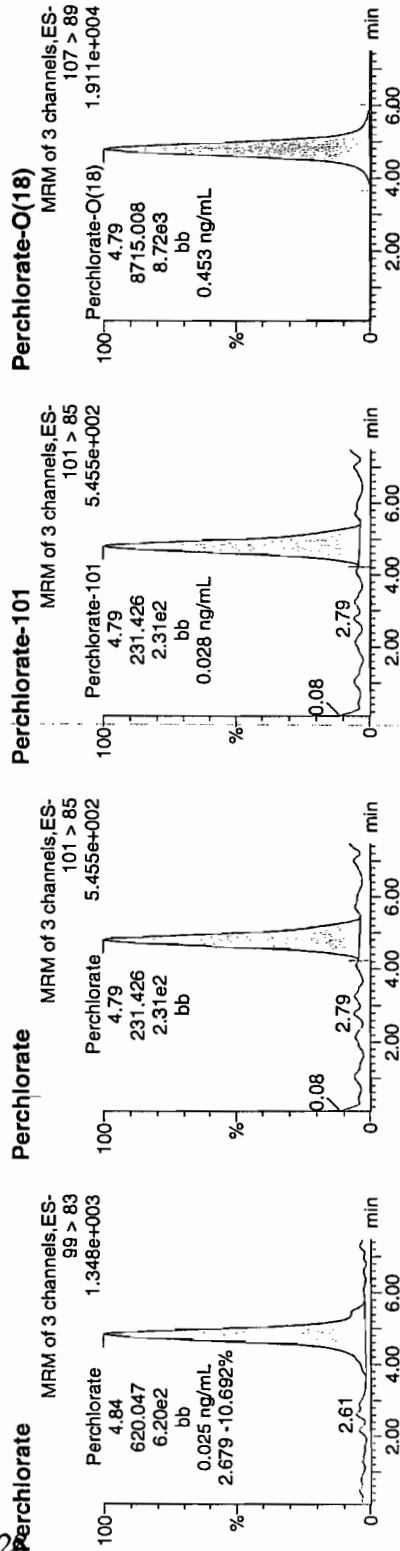
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Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323091a
Date: 24-Mar-2010
Time: 05:31:53
ID: 248511012
Val: 3:3,E

03-24-10

15222 | 962130 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion:Ratio
248511012	Perchlorate	99 > 83	4.84	620.047	620.047	bb			0.0245			177.918	2.68
248511012	Perchlorate-101	101 > 85	4.79	231.426	231.426	bb			0.0276			7.385	
248511012	Perchlorate-O(18)	107 > 89	4.79	8715.008	8715.008	bb			0.4527	90.55	-9.45	757.438	

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: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7437

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511013

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 84

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.597	2.39	1.80	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate Isotope Ratio			3.14			1	24-MAR-10 05:42	per0323092a
14797-73-0	Perchlorate-101	.597	2.39	1.72	ug/kg	J	1	24-MAR-10 05:42	per0323092a
	Perchlorate-O(18)			5.80	ug/kg		1	24-MAR-10 05:42	per0323092a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323092a

Date: 24-Mar-2010

Time: 05:42:26

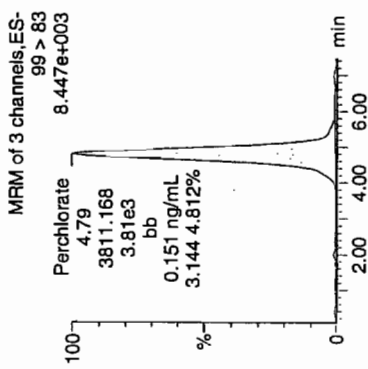
ID: 248511013

Vial: 3:3,F

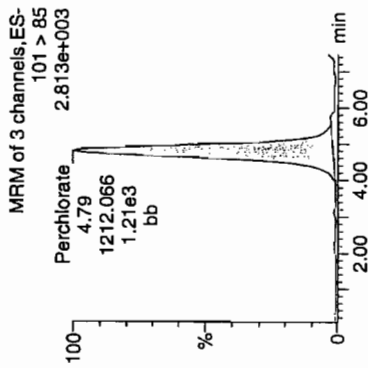
03-24-10

15200 | 962130 | 5020 | 11

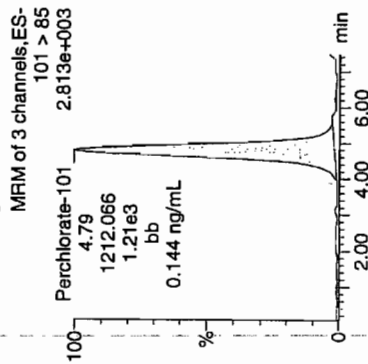
Perchlorate



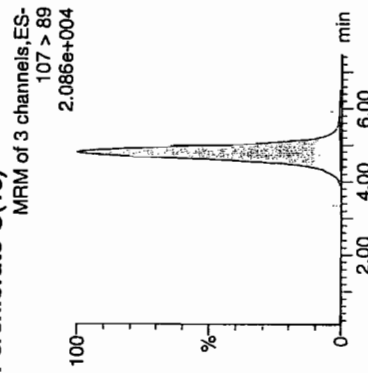
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511013	Perchlorate	99 > 83	4.79	3811.168	3811.168	bb			0.1507	-		648.664	3.14
248511013	Perchlorate-101	101 > 85	4.79	1212.066	1212.066	bb			0.1444			365.655	
248511013	Perchlorate-O(18)	107 > 89	4.77	9346.385	9346.385	bb			0.4855	97.11	-2.89	686.063	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7440

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511014

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 91.9

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.544	2.18	0.658	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate Isotope Ratio			3.06			1	24-MAR-10 05:52	per0323093a
14797-73-0	Perchlorate-101	.544	2.18	0.649	ug/kg	J	1	24-MAR-10 05:52	per0323093a
	Perchlorate-O(18)			4.98	ug/kg		1	24-MAR-10 05:52	per0323093a

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

*Concentration =

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

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323093a

Date: 24-Mar-2010

Time: 05:52:58

ID: 248511014

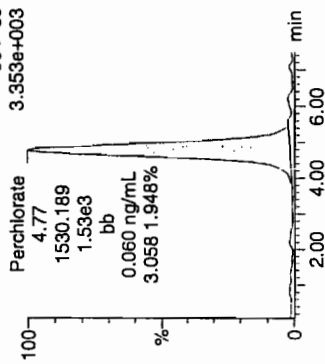
Vial: 3:4,A

6663
 03.24-10

LANC | 962130 | 3020 | 1 |

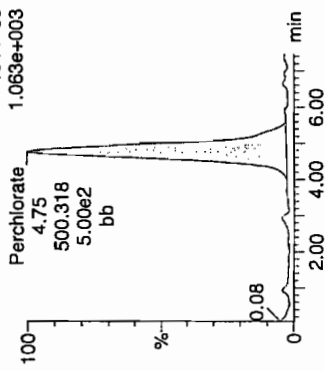
Perchlorate

MRM of 3 channels, ES-
 99 > 83



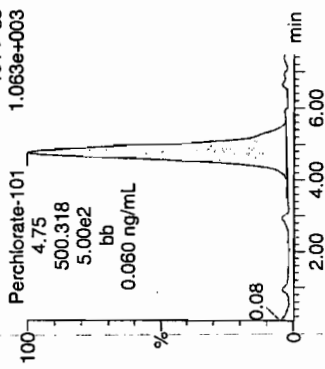
Perchlorate

MRM of 3 channels, ES-
 101 > 85



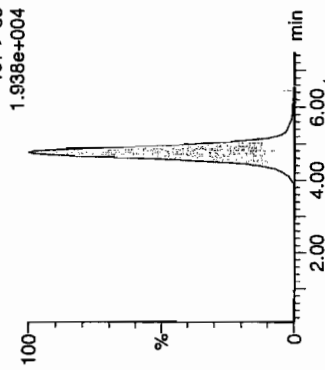
Perchlorate-101

MRM of 3 channels, ES-
 101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-
 107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511014	Perchlorate	99 > 83	4.77	1530.189	1530.189	bb			0.0605	58.618	3.06		
248511014	Perchlorate-101	101 > 85	4.75	500.318	500.318	bb			0.0596	80.610			
248511014	Perchlorate-O(18)	107 > 89	4.76	8800.006	8800.006	bb			0.4572	91.43	-8.57	1587.6...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7435

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511015

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 70

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate Isotope Ratio						1	24-MAR-10 06:03	per0323094a
14797-73-0	Perchlorate-101	.716	2.86	0.716	ug/kg	U	1	24-MAR-10 06:03	per0323094a
	Perchlorate-O(18)			6.42	ug/kg		1	24-MAR-10 06:03	per0323094a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323094a

Date: 24-Mar-2010

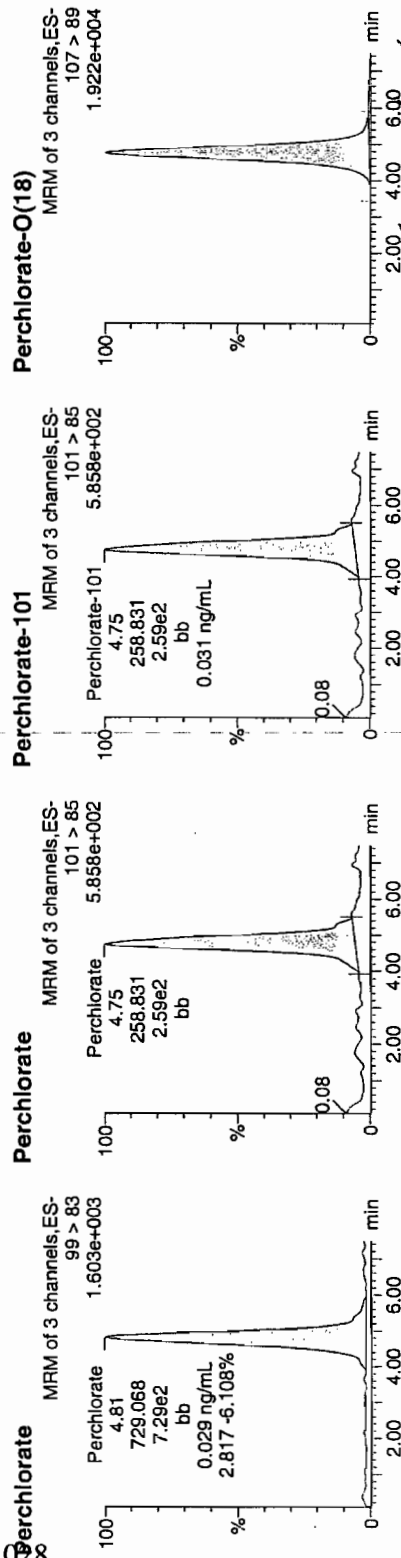
Time: 06:03:32

ID: 248511015

Q/tal: 3:4,B

03-24-10

14220 | 962130 | 50120 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511015	Perchlorate	99 > 83	4.81	729.068	729.068	bb			0.0288			89.633	2.82
248511015	Perchlorate-101	101 > 85	4.75	258.831	258.831	bb			0.0308			10.792	
248511015	Perchlorate-O(18)	107 > 89	4.76	8634.576	8634.576	bb			0.4486	89.71	-10.29	2007.1...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7441

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511016

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.644	2.58	2.68	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate Isotope Ratio			2.87			1	24-MAR-10 06:46	per0323098a
14797-73-0	Perchlorate-101	.644	2.58	2.81	ug/kg		1	24-MAR-10 06:46	per0323098a
	Perchlorate-O(18)			5.97	ug/kg		1	24-MAR-10 06:46	per0323098a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323098a

Date: 24-Mar-2010

Time: 06:46:15

ID: 248511016

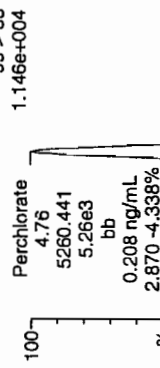
Vial: 3:4,C

1022130 | 5055 | 11

03-24-10

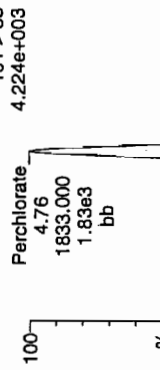
Perchlorate

MRM of 3 channels, ES-
99 > 83



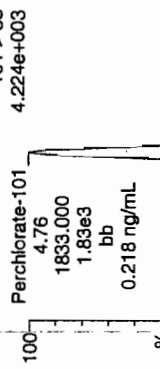
Perchlorate

MRM of 3 channels, ES-
101 > 85



Perchlorate-101

MRM of 3 channels, ES-
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511016	Perchlorate	99 > 83	4.76	5260.441	5260.441	bb			0.2080	-		151.076	2.87
248511016	Perchlorate-101	101 > 85	4.76	1833.000	1833.000	bb			0.2184			458.705	
248511016	Perchlorate-O(18)	107 > 89	4.74	8917.536	8917.536	bb			0.4633	92.65	-7.35	665.752	

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: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7442

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511017

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.576	2.31	1.64	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate Isotope Ratio			2.93			1	24-MAR-10 06:57	per0323099a
14797-73-0	Perchlorate-101	.576	2.31	1.68	ug/kg	J	1	24-MAR-10 06:57	per0323099a
	Perchlorate-O(18)			5.23	ug/kg		1	24-MAR-10 06:57	per0323099a

[^] 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: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323099a

Date: 24-Mar-2010

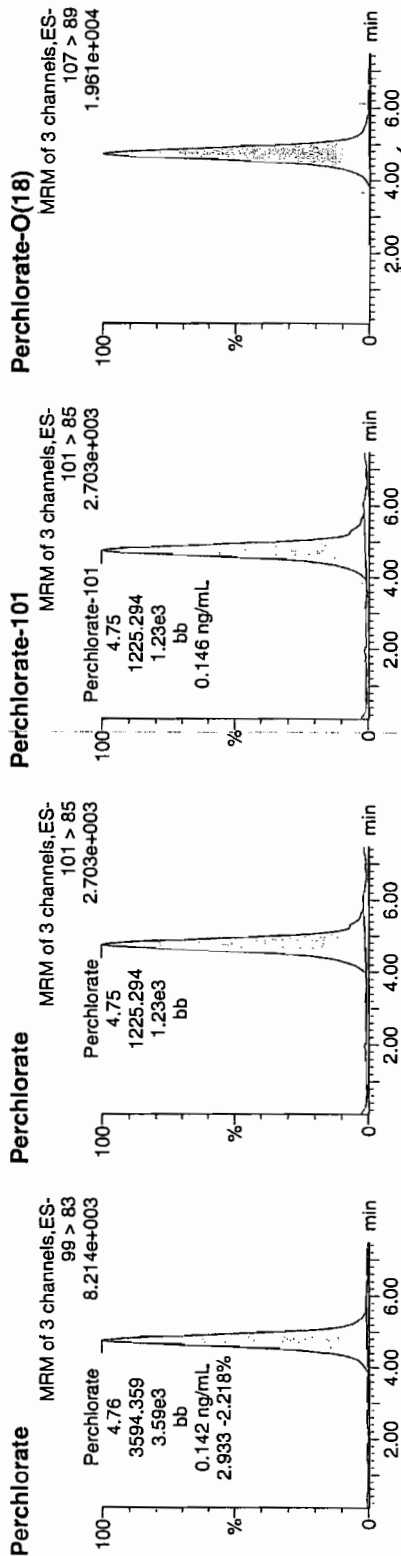
Time: 06:57:00

ID: 248511017

Vial: 3:4,D

03-24-10

17720 | 962130 | 3000 | 1.1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511017	Perchlorate	99 > 83	4.76	3594.359	3594.359	bb			0.1421	-		402.789	2.93
248511017	Perchlorate-101	101 > 85	4.75	1225.294	1225.294	bb			0.1460			178.337	
248511017	Perchlorate-O(18)	107 > 89	4.74	8728.595	8728.595	bb			0.4534	90.69	-9.31	2520.9...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7436

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511018

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 79

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.636	2.54	1.43	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate Isotope Ratio			2.91			1	24-MAR-10 07:07	per0323100a
14797-73-0	Perchlorate-101	.636	2.54	1.48	ug/kg	J	1	24-MAR-10 07:07	per0323100a
	Perchlorate-O(18)			5.50	ug/kg		1	24-MAR-10 07:07	per0323100a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323100a

Date: 24-Mar-2010

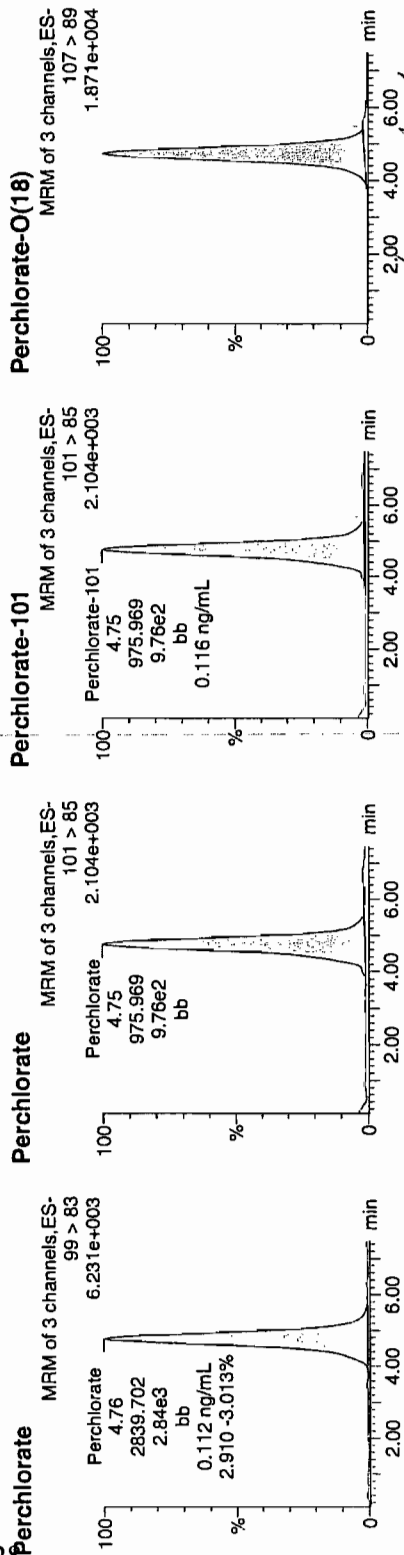
Time: 07:07:32

ID: 248511018

Vial: 3:4,E

03-24-10

1242130 | 3070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511018	Perchlorate	99 > 83	4.76	2839.702	2839.702	bb			0.1123			406.720	2.91
248511018	Perchlorate-101	101 > 85	4.75	975.969	975.969	bb			0.1163			414.997	
248511018	Perchlorate-O(18)	107 > 89	4.74	8326.896	8326.896	bb			0.4326	86.52	-13.48	384.527	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 262129
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7438
 Date Received: 03-MAR-10
 GEL Job No (SDG): 10-2194
 GEL Sample ID: 248511019
 Date Filtered: 17-MAR-10
 Injection Volume (uL): 20
 %Solids: 94.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.528	2.11	0.633	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate Isotope Ratio			3			1	24-MAR-10 07:18	per0323101a
14797-73-0	Perchlorate-101	.528	2.11	0.635	ug/kg	J	1	24-MAR-10 07:18	per0323101a
	Perchlorate-O(18)			4.92	ug/kg		1	24-MAR-10 07:18	per0323101a

[^] 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\per032310a.qld

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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323101a

Date: 24-Mar-2010

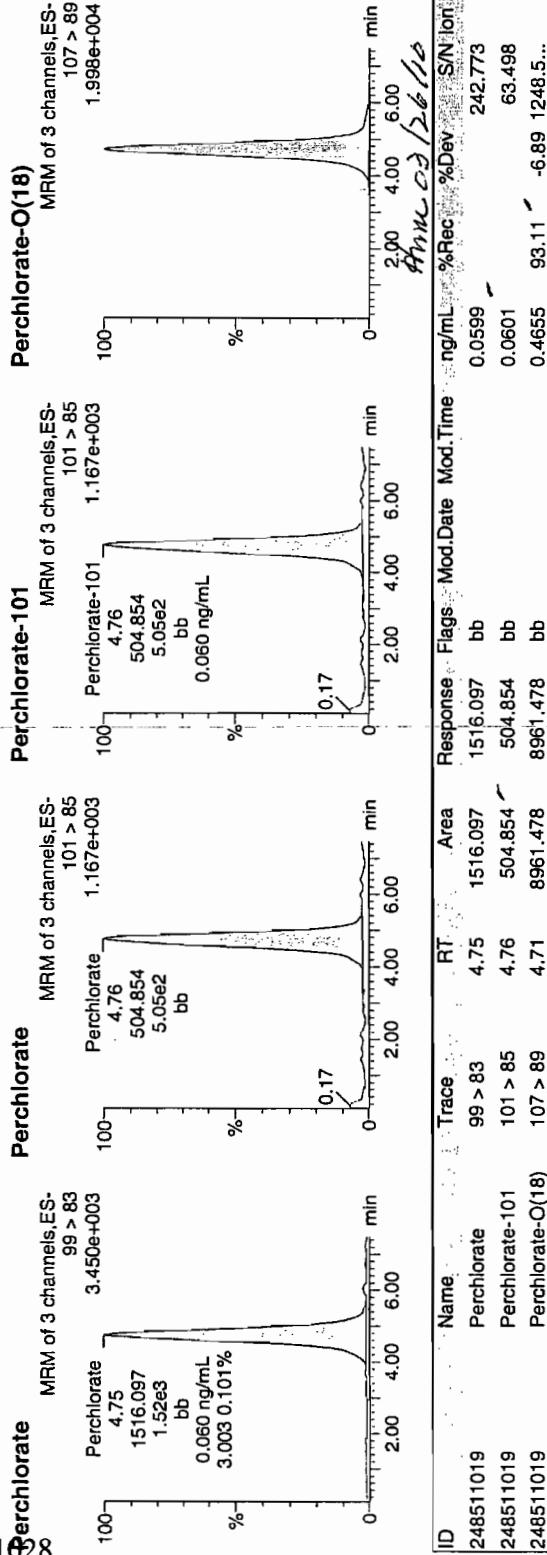
Time: 07:18:19

ID: 248511019

dial: 3:4,F

33-24-10

12420 | 902130 | 3070 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511019	Perchlorate	99 > 83	4.75	1516.097	1516.097	bb			0.0599			242.773	3.00
248511019	Perchlorate-101	101 > 85	4.76	504.854	504.854	bb			0.0601			63.498	
248511019	Perchlorate-Q(18)	107 > 89	4.71	8961.478	8961.478	bb			0.4655	93.11	-6.89	1248.5...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7439

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 248511020

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 82

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.61	2.44	0.991	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate Isotope Ratio			2.9			1	24-MAR-10 07:28	per0323102a
14797-73-0	Perchlorate-101	.61	2.44	1.03	ug/kg	J	1	24-MAR-10 07:28	per0323102a
	Perchlorate-O(18)			5.88	ug/kg		1	24-MAR-10 07:28	per0323102a

[^] 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\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323102a

Date: 24-Mar-2010

Time: 07:28:50

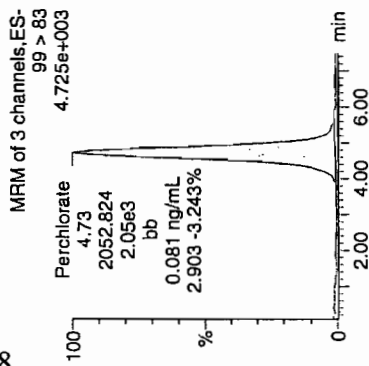
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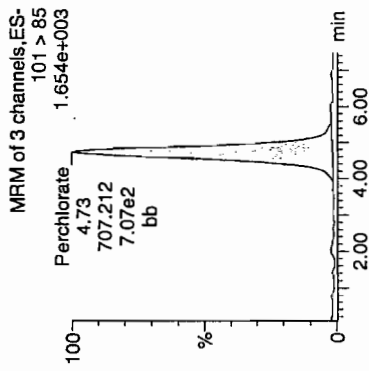
WMS
03-24-10

LAU | 962130 | 5000 | 11

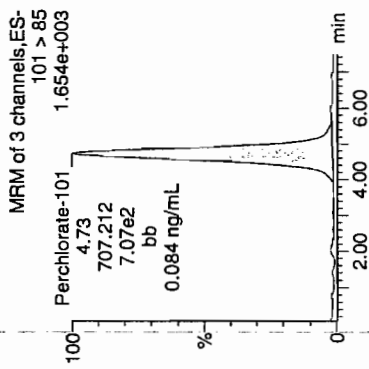
Perchlorate



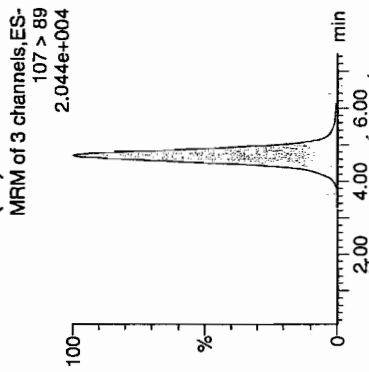
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
248511020	Perchlorate	99 > 83	4.73	2052.824	2052.824	bb			0.0812			84.729	2.90
248511020	Perchlorate-101	101 > 85	4.73	707.212	707.212	bb			0.0843			442.298	
248511020	Perchlorate-O(18)	107 > 89	4.70	9271.146	9271.146	bb			0.4816	96.33	-3.67	919.952	

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 23-MAR-10

HPLC Column: Phenomenex Ion Pac AG-16.2 X 50 mm

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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 25295.24

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 23-MAR-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 8393.716

Response Type: External Standard

Curve Type: RF

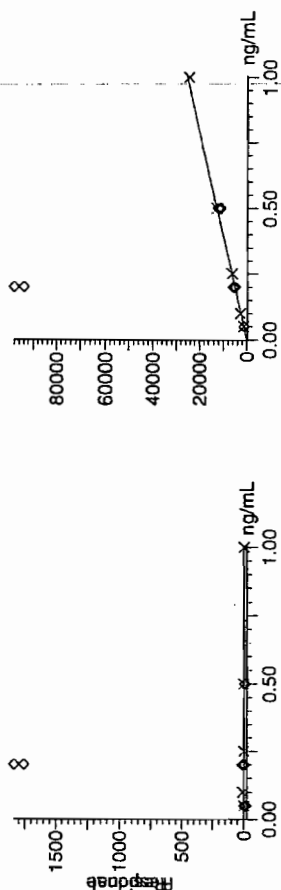
Quantity Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

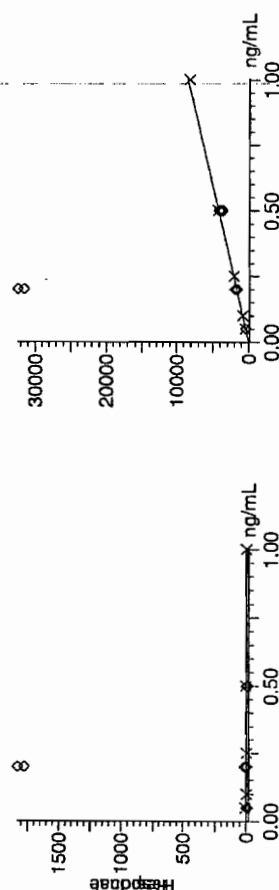
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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per032310a.mdb 24 Mar 2010 08:57:43
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032310a.cdb 24 Mar 2010 11:22:00

Compound name: Perchlorate
Response Factor: 25295.2
RRF SD: 1130.93, % Relative SD: 4.47091
Response type: External Std, Area
Curve type: RF



Compound name: Perchlorate-101
Response Factor: 8393.72
RRF SD: 437.587, % Relative SD: 5.21327
Response type: External Std, Area
Curve type: RF



Quantify Calibration Report MassLynx 4.0 SP4

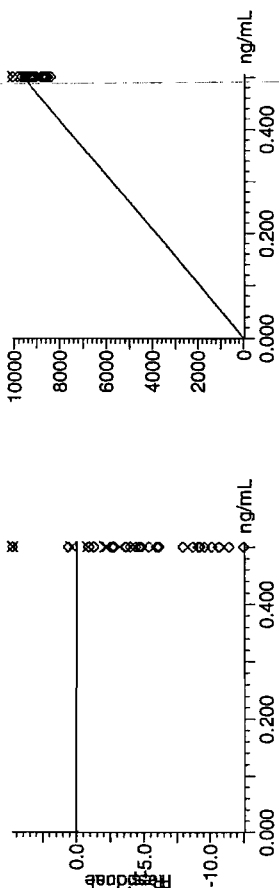
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time

Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Compound name: Perchlorate-O(18) ✓
 Response Factor: 19249.4 ✓
 RF SD: 555.246, % Relative SD: 2.88449 ✓
 Response type: External Std, Area
 Curve type: RF



Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

Date Analyzed: 24-MAR-10

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

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

Parmname

Perchlorate

Coefficient of Determination:

Calibration Curve: 24716.86

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-2194

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 24-MAR-10

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

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

Paramname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 7878.608

Response Type: External Standard

Curve Type: RF

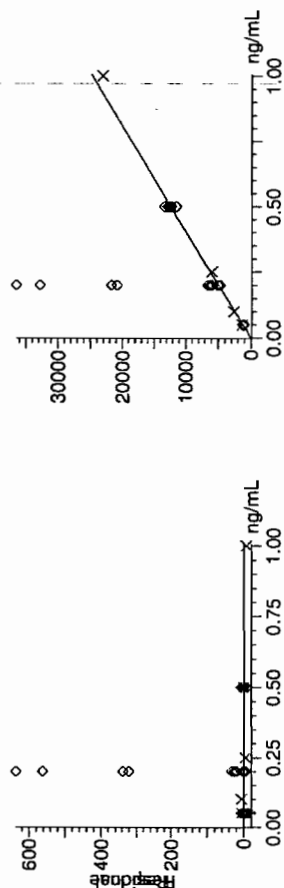
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

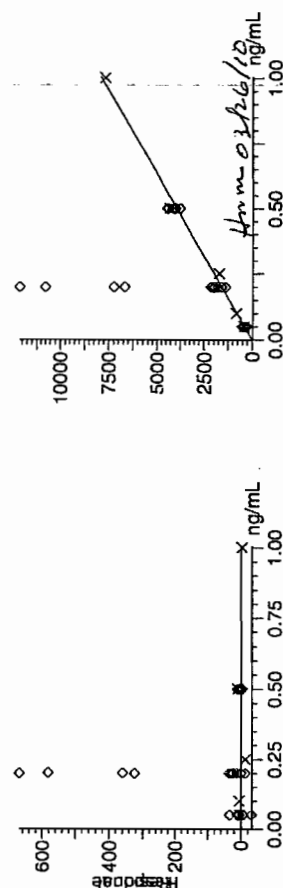
Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

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Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per032410a.cdb 25 Mar 2010 09:15:24

Compound name: Perchlorate
Response Factor: 24716.9
RF SD: 1424.72, % Relative SD: 5.76416 ✓
Response type: External Std, Area
Curve type: RF ✓



Compound name: Perchlorate-101
Response Factor: 7878.61
RF SD: 664.885, % Relative SD: 8.43912 ✓
Response type: External Std, Area
Curve type: RF ✓



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

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

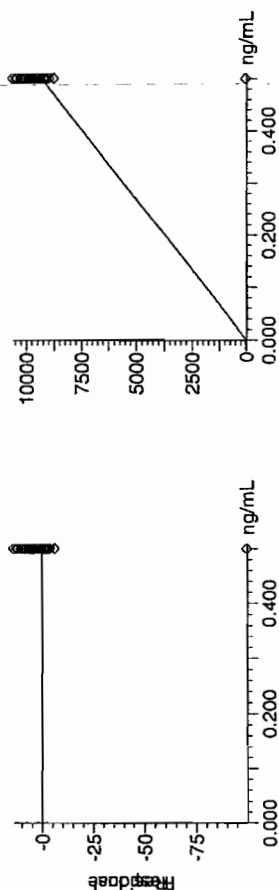
Compound name: Perchlorate-O(18)

Response Factor: 18655.3

RF SD: 736.543, % Relative SD: 3.94816

Response type: External Std, Area

Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	96.97	23-MAR-10 15:03	per0323009a
Perchlorate Isotope Ratio		3.03		23-MAR-10 15:03	per0323009a
Perchlorate-101	.5	.48	96.53	23-MAR-10 15:03	per0323009a
Perchlorate	.5	.5	100.07	24-MAR-10 14:23	per0324009a
Perchlorate Isotope Ratio		2.99		24-MAR-10 14:23	per0324009a
Perchlorate-101	.5	.53	105.03	24-MAR-10 14:23	per0324009a

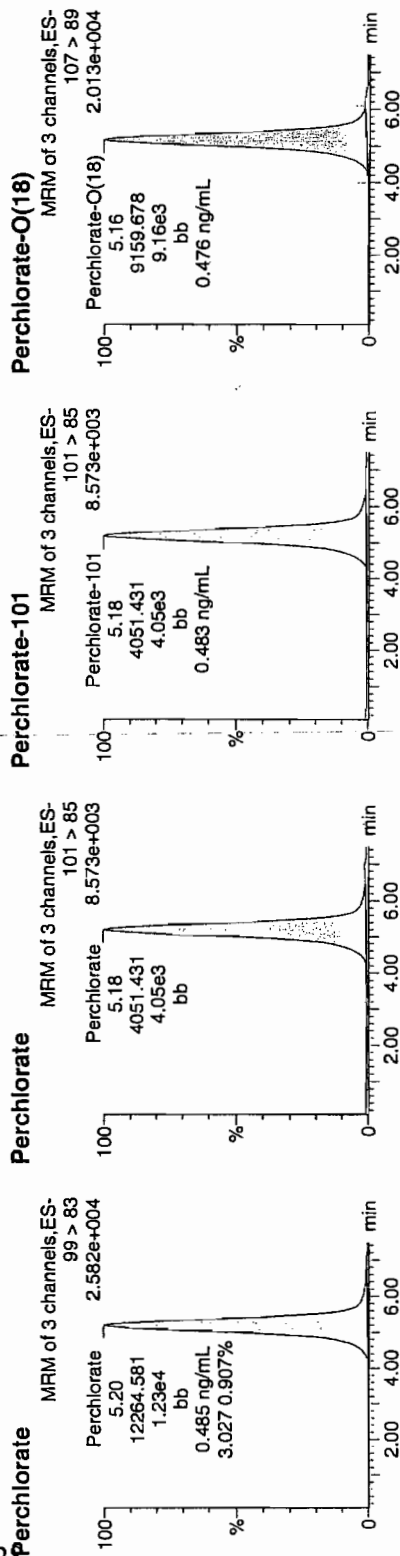
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323009a
Date: 23-Mar-2010
Time: 15:03:40
ID: WCL100318-06ICV
Vial: 1:2,A

Per
ans
0324-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	5.20	12264.581	12264.581	bb			0.4849	96.97	-3.03	1378.0...	3.03
WCL100318-06ICV	Perchlorate-101	101 > 85	5.18	4051.431	4051.431	bb			0.4827	96.53	-3.47	355.606	
WCL100318-06ICV	Perchlorate-Q(18)	107 > 89	5.16	9159.678	9159.678	bb			0.4758	95.17	-4.83	2068.4...	

12264.581
25295.2

1.477
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 9 of 116

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324009a

Date: 24-Mar-2010

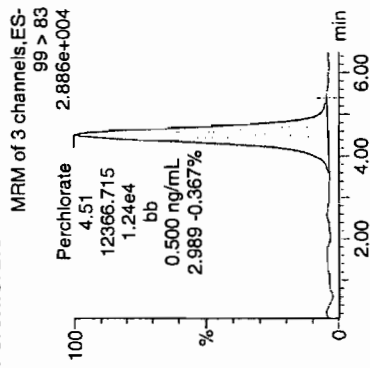
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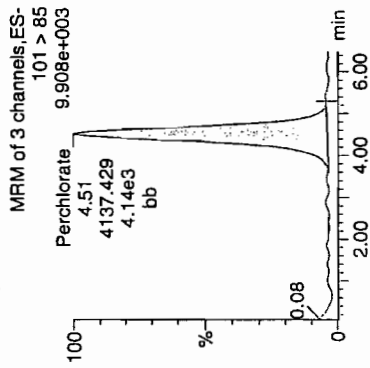
Vial: 1:2,A

Per
032410
X-10

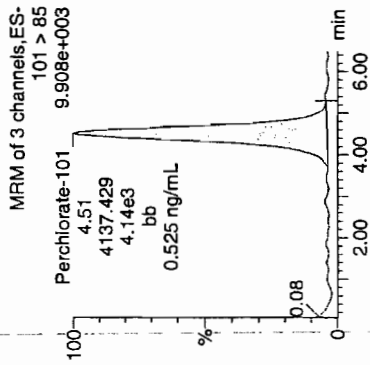
Perchlorate



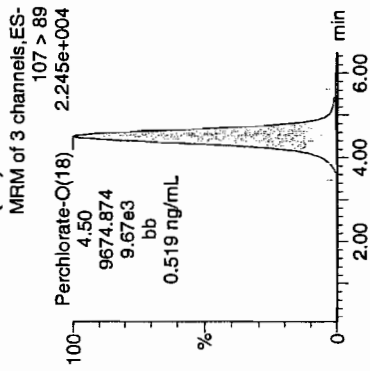
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06ICV	Perchlorate	99 > 83	4.51	12366.715	12366.715	bb			0.5003	100.07	0.07	562.601	2.99
WCL100318-06ICV	Perchlorate-101	101 > 85	4.51	4137.429	4137.429	bb			0.5251	105.03	5.03	396.289	
WCL100318-06ICV	Perchlorate-O(18)	107 > 89	4.50	9674.874	9674.874	bb			0.5186	103.72	3.72	447.010	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	95.38	23-MAR-10 17:21	per0323022a
Perchlorate Isotope Ratio		2.91		23-MAR-10 17:21	per0323022a
Perchlorate-101	.5	.49	98.76	23-MAR-10 17:21	per0323022a
Perchlorate	.5	.47	94.9	23-MAR-10 19:38	per0323035a
Perchlorate Isotope Ratio		3.02		23-MAR-10 19:38	per0323035a
Perchlorate-101	.5	.47	94.61	23-MAR-10 19:38	per0323035a
Perchlorate	.5	.45	89.63	23-MAR-10 21:45	per0323047a
Perchlorate Isotope Ratio		3		23-MAR-10 21:45	per0323047a
Perchlorate-101	.5	.45	90.13	23-MAR-10 21:45	per0323047a
Perchlorate	.5	.45	90.76	23-MAR-10 23:42	per0323058a
Perchlorate Isotope Ratio		2.83		23-MAR-10 23:42	per0323058a
Perchlorate-101	.5	.48	96.58	23-MAR-10 23:42	per0323058a
Perchlorate	.5	.44	88.23	24-MAR-10 01:38	per0323069a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		2.94		24-MAR-10 01:38	per0323069a
Perchlorate-101	.5	.45	90.32	24-MAR-10 01:38	per0323069a
Perchlorate	.5	.45	89.59	24-MAR-10 03:56	per0323082a
Perchlorate Isotope Ratio		2.97		24-MAR-10 03:56	per0323082a
Perchlorate-101	.5	.46	91.04	24-MAR-10 03:56	per0323082a
Perchlorate	.5	.43	86.18	24-MAR-10 06:14	per0323095a
Perchlorate Isotope Ratio		3.05		24-MAR-10 06:14	per0323095a
Perchlorate-101	.5	.43	85.25	24-MAR-10 06:14	per0323095a
Perchlorate	.5	.48	96.38	24-MAR-10 07:40	per0323103a
Perchlorate Isotope Ratio		3.07		24-MAR-10 07:40	per0323103a
Perchlorate-101	.5	.47	94.59	24-MAR-10 07:40	per0323103a
Perchlorate	.5	.51	102.01	24-MAR-10 16:09	per0324020a
Perchlorate Isotope Ratio		3.1		24-MAR-10 16:09	per0324020a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

GEL Job No.(SDG): 10-2194

Perchlorate-101	.5	.52	103.15	24-MAR--10 16:09	per0324020a
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Quantify Sample Report MassLynx 4.0 SP4 The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323022a

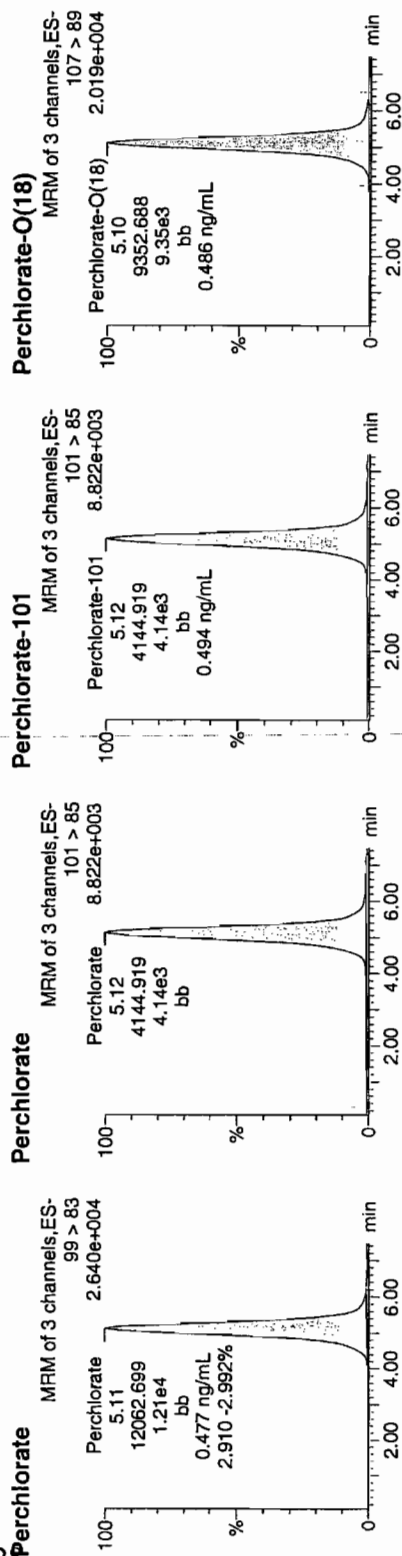
Date: 23-Mar-2010

Time: 17:21:07

ID: WCL100318-06CCV

Vial: 1:2,A

Perchlorate
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	5.11	12062.699	12062.699	bb			0.4769	95.38	-4.62	529.251	2.91
WCL100318-06CCV	Perchlorate-101	101 > 85	5.12	4144.919	4144.919	bb			0.4938	98.76	-1.24	1253.7...	
WCL100318-06CCV	Perchlorate-Q(18)	107 > 89	5.10	9352.688	9352.688	bb			0.4859	97.17	-2.83	4169.6...	

107 > 89
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 35 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time

Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323035a

Date: 23-Mar-2010

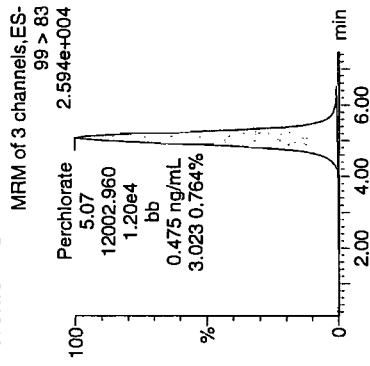
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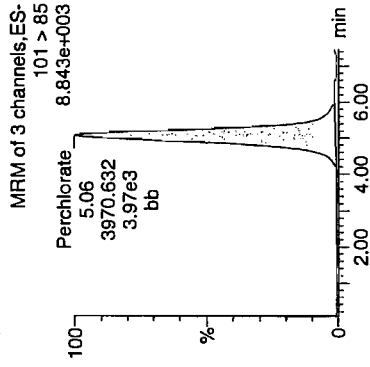
Vial: 1:2,A

Per
03-24-10

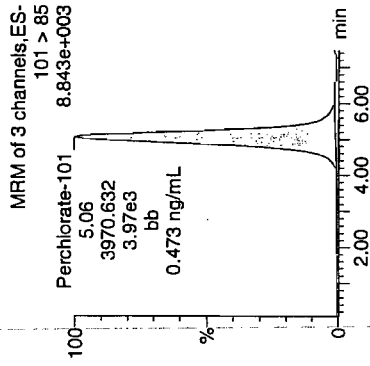
Perchlorate



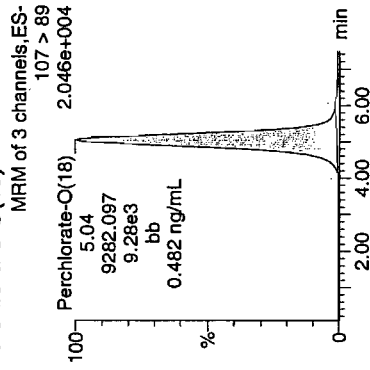
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	5.07	12002.960	12002.960	bb			0.4745	94.90	-5.10	616.512	3.02
WCL100318-06CCV	Perchlorate-101	101 > 85	5.06	3970.632	3970.632	bb			0.4730	94.61	-5.39	452.449	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	5.04	9282.097	9282.097	bb			0.4822	96.44	-3.56	3720.7...	

3/24/10

Quantify Sample Report MassLynx 4.0 SP4

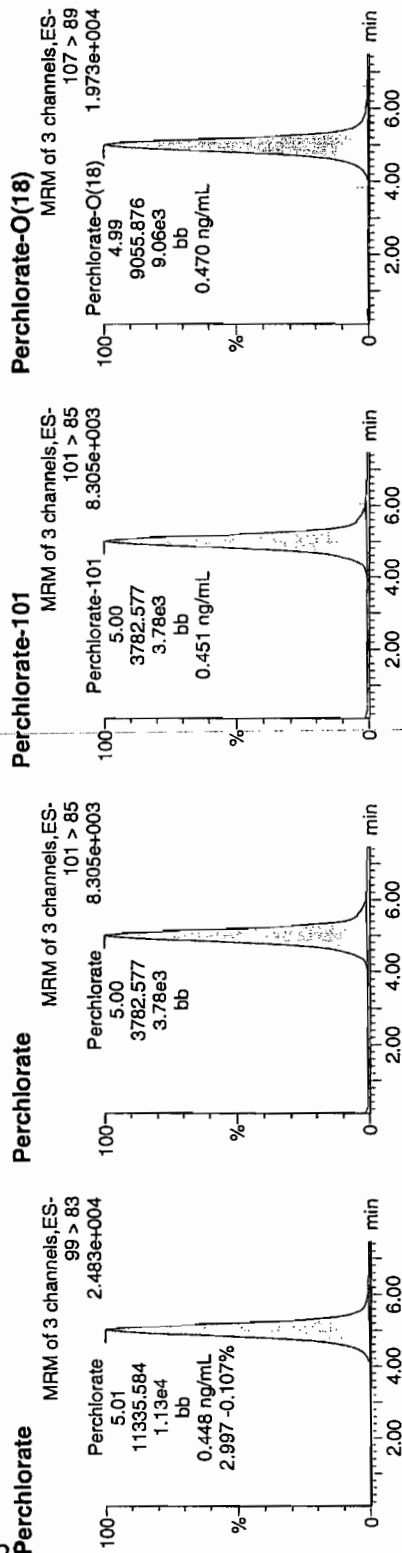
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323047a
 Date: 23-Mar-2010
 Time: 21:45:54
 ID: WCL100318-06CCV
 Vial: 1:2,A

*Per
 and
 03-24-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	5.01	11335.584	11335.584	bb			0.4481	89.63	-10.37	1115.2...	3.00
WCL100318-06CCV	Perchlorate-101	101 > 85	5.00	3782.577	3782.577	bb			0.4506	90.13	-9.87	63.479	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.99	9055.876	9055.876	bb			0.4705	94.09	-5.91	1544.7...	

*WCL
 3/24/10*

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

PatName: per0323058a

Date: 23-Mar-2010

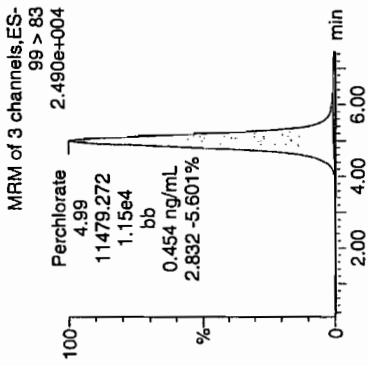
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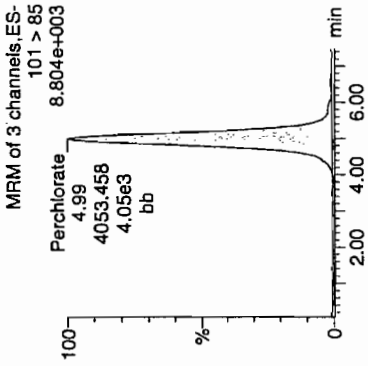
Vial: 1:2,A

Per
 03-24-10

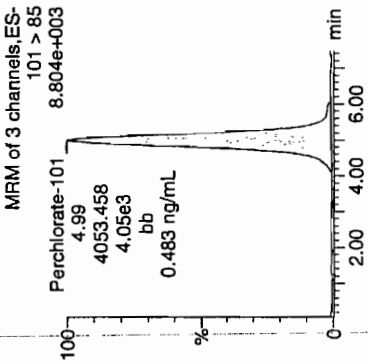
Perchlorate



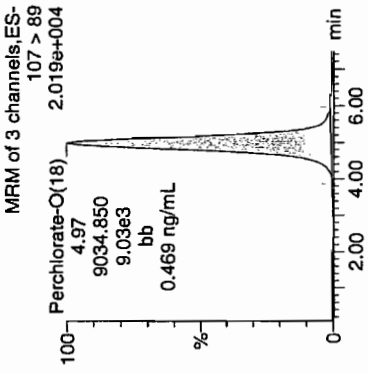
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.99	11479.272	11479.272	bb			0.4538	90.76	-9.24	853.124	2.83
WCL100318-06CCV	Perchlorate-101	101 > 85	4.99	4053.458	4053.458	bb			0.4829	96.58	-3.42	617.164	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.97	9034.850	9034.850	bb			0.4694	✓ 93.87	-6.13	1572.0...	

107
 3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323069a

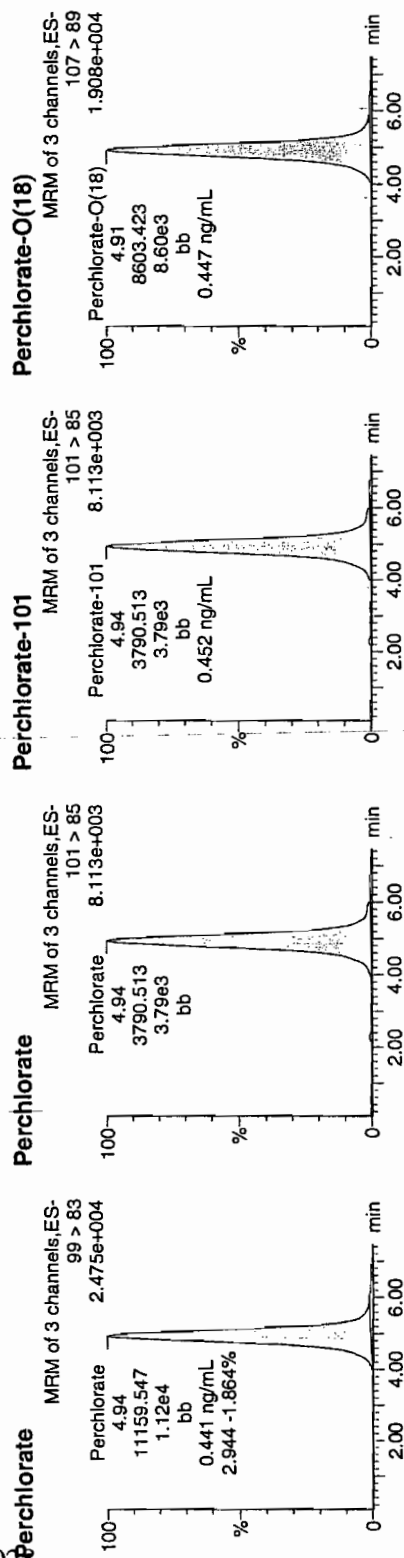
Date: 24-Mar-2010

Time: 01:38:56

ID: WCL100318-06CCV

Vial: 1:2,A

Per0323069a
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.94	11159.547	11159.547	bb			0.4412	88.23	-11.77	1980.7...	2.94
WCL100318-06CCV	Perchlorate-101	101 > 85	4.94	3790.513	3790.513	bb			0.4516	90.32	-9.68	1712.9...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.91	8603.423	8603.423	bb			0.4469	89.39	-10.61	389.992	

1.0077
3.74610

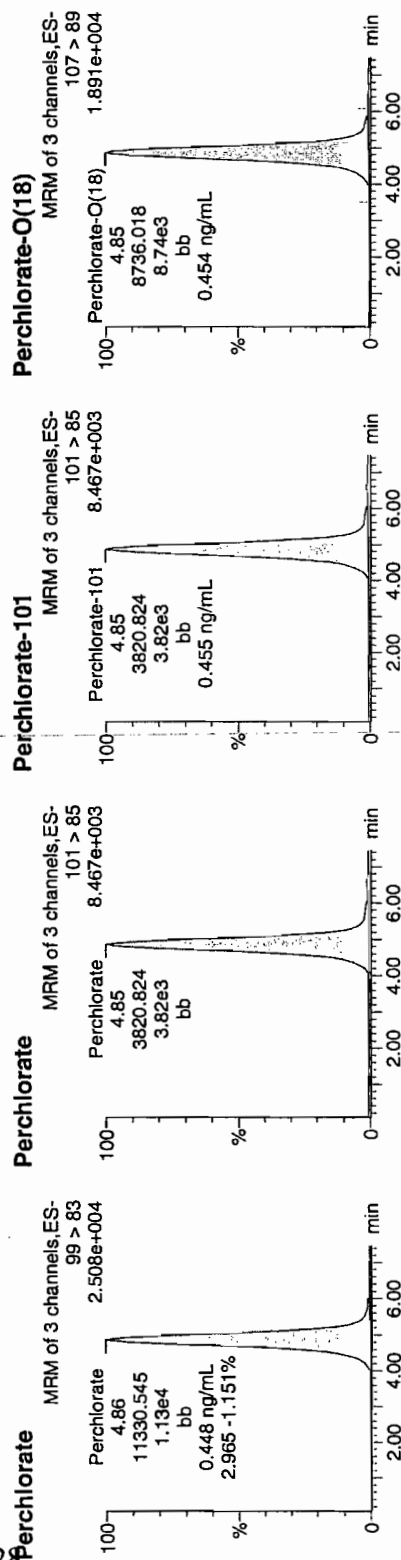
Quantify Sample Report MassLynx 4.0 SP4 The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323082a
Date: 24-Mar-2010
Time: 03:56:30
SP: WCL100318-06CCV
Vial: 1:2,A

Perchlorate
WCL
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.86	11330.545	11330.545	bb			0.4479	89.59	-10.41	987.541	2.97
WCL100318-06CCV	Perchlorate-101	101 > 85	4.85	3820.824	3820.824	bb			0.4552	91.04	-8.96	1095.2...	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.85	8736.018	8736.018	bb			0.4538	90.77	-9.23	725.466	

WCL
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

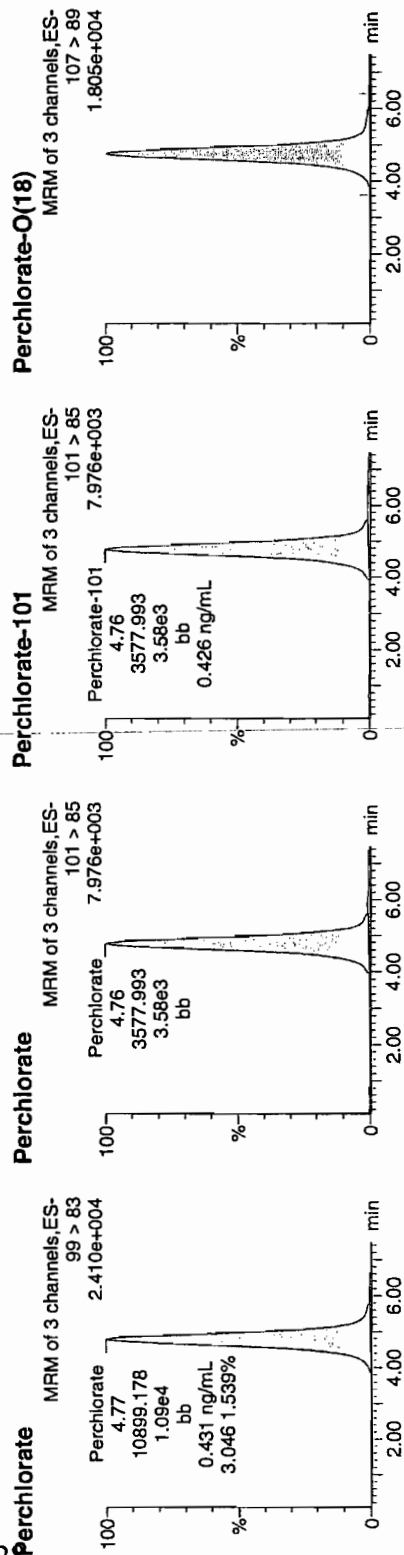
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323095a
 Date: 24-Mar-2010
 Time: 06:14:05
 ID: WCL100318-06CCV
 Vial: 1:2,A

Pure
 CWS
 03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.77	10899.178	10899.178	bb			0.4309	86.18	-13.82	1793.9...	3.05
WCL100318-06CCV	Perchlorate-101	101 > 85	4.76	3577.993	3577.993	bb			0.4263	85.25	-14.75	667.334	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.75	8420.613	8420.613	bb			0.4374	87.49	-12.51	1193.9...	

1077
 3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

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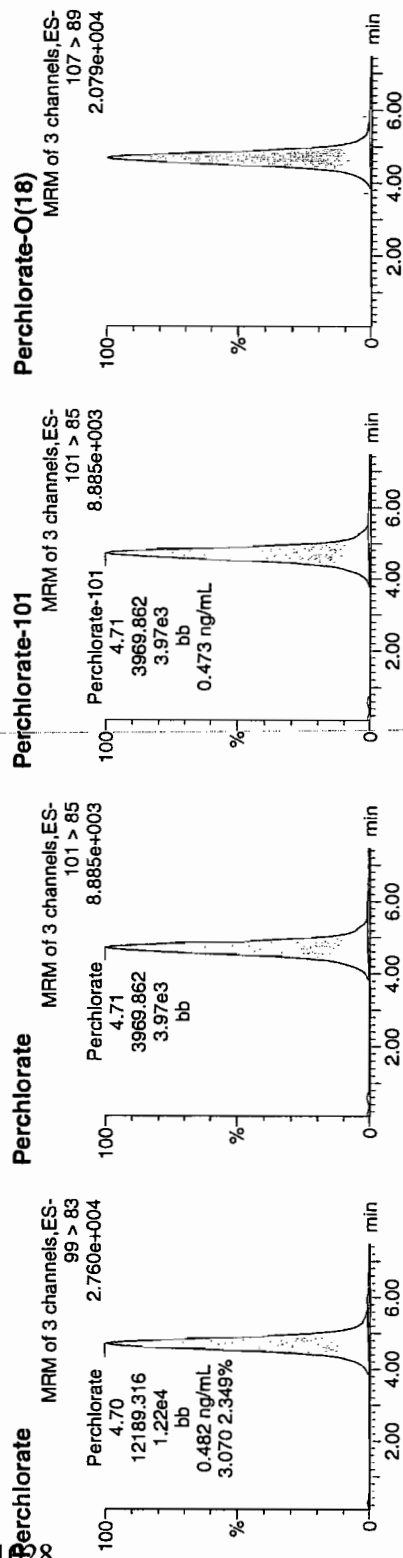
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Time: 07:40:57

ID: WCL100318-06CCV

Vial: 1:2,A

per
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.70	12189.316	12189.316	bb			0.4819	96.38	-3.62	1118.7...	3.07
WCL100318-06CCV	Perchlorate-101	101 > 85	4.71	3969.862	3969.862	bb			0.4730	94.59	-5.41	82.938	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.69	9170.555	9170.555	bb			0.4764	95.28	-4.72	1680.7...	

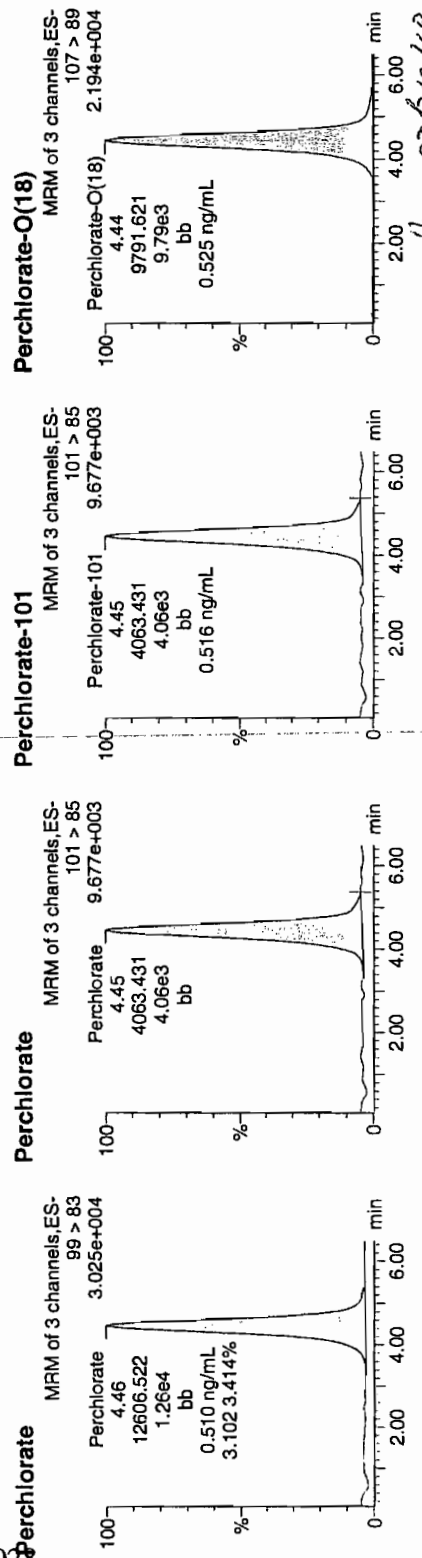
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3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324020a
 Date: 24-Mar-2010
 Time: 16:09:52
 ID: WCL100318-06CCV
 Vial: 1:2,A
 Run
 WCL
 03-23-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-06CCV	Perchlorate	99 > 83	4.46	12606.522	12606.522	bb			0.5100	102.01	2.01	492.841	3.10
WCL100318-06CCV	Perchlorate-101	101 > 85	4.45	4063.431	4063.431	bb			0.5158	103.15	3.15	230.373	
WCL100318-06CCV	Perchlorate-O(18)	107 > 89	4.44	9791.621	9791.621	bb			0.5249	104.97	4.97	535.589	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	93.95	23-MAR-10 15:24	per0323011a
Perchlorate Isotope Ratio		3.19		23-MAR-10 15:24	per0323011a
Perchlorate-101	.05	.04	88.79	23-MAR-10 15:24	per0323011a
Perchlorate	.05	.05	101.01	23-MAR-10 17:42	per0323024a
Perchlorate Isotope Ratio		3.24		23-MAR-10 17:42	per0323024a
Perchlorate-101	.05	.05	93.96	23-MAR-10 17:42	per0323024a
Perchlorate	.05	.05	97.38	23-MAR-10 19:59	per0323037a
Perchlorate Isotope Ratio		3		23-MAR-10 19:59	per0323037a
Perchlorate-101	.05	.05	97.85	23-MAR-10 19:59	per0323037a
Perchlorate	.05	.05	97.41	23-MAR-10 22:07	per0323049a
Perchlorate Isotope Ratio		3.29		23-MAR-10 22:07	per0323049a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.04	89.34	23-MAR-10 22:07	per0323049a
Perchlorate	.05	.04	86.48	24-MAR-10 00:03	per0323060a
Perchlorate Isotope Ratio		2.78		24-MAR-10 00:03	per0323060a
Perchlorate-101	.05	.05	93.68	24-MAR-10 00:03	per0323060a
Perchlorate	.05	.04	81.01	24-MAR-10 02:00	per0323071a
Perchlorate Isotope Ratio		2.77		24-MAR-10 02:00	per0323071a
Perchlorate-101	.05	.04	88.02	24-MAR-10 02:00	per0323071a
Perchlorate	.05	.05	93.11	24-MAR-10 04:17	per0323084a
Perchlorate Isotope Ratio		3.27		24-MAR-10 04:17	per0323084a
Perchlorate-101	.05	.04	85.74	24-MAR-10 04:17	per0323084a
Perchlorate	.05	.04	88.55	24-MAR-10 06:35	per0323097a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-2194

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		2.83			24-MAR-10 06:35	per0323097a
Perchlorate-101	.05	.05	94.2		24-MAR-10 06:35	per0323097a
Perchlorate	.05	.05	93.86		24-MAR-10 08:02	per0323105a
Perchlorate Isotope Ratio		2.8			24-MAR-10 08:02	per0323105a
Perchlorate-101	.05	.05	100.85		24-MAR-10 08:02	per0323105a
Perchlorate	.05	.04	89.6		24-MAR-10 14:42	per0324011a
Perchlorate Isotope Ratio		2.67			24-MAR-10 14:42	per0324011a
Perchlorate-101	.05	.05	105.12		24-MAR-10 14:42	per0324011a
Perchlorate	.05	.05	98.5		24-MAR-10 16:29	per0324022a
Perchlorate Isotope Ratio		2.97			24-MAR-10 16:29	per0324022a
Perchlorate-101	.05	.05	104.05		24-MAR-10 16:29	per0324022a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

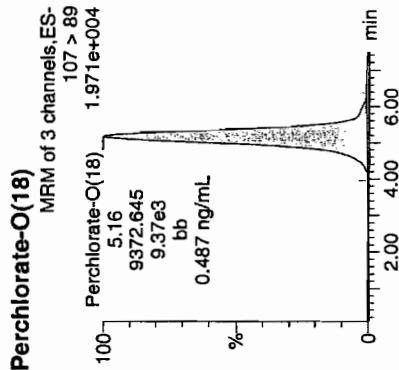
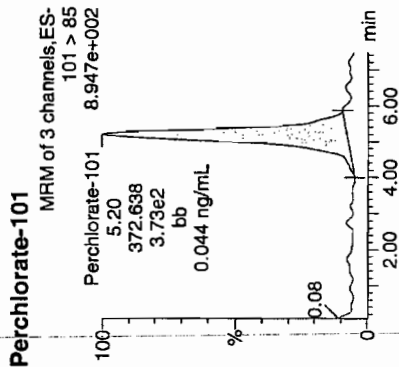
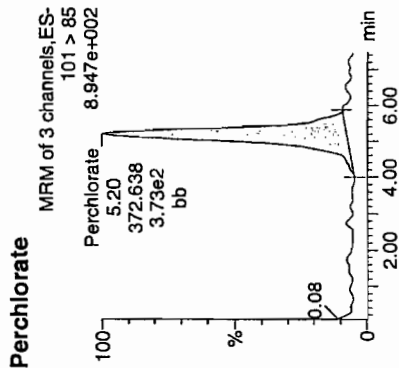
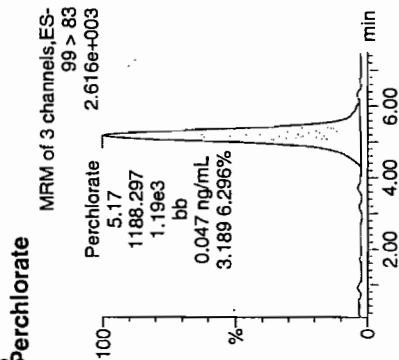
Page 11 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323011a
Date: 23-Mar-2010
Time: 15:24:45
ID: WCL100318-07CRI
Vial: 1:2,B

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and
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ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	5.17	1188.297	1188.297	bb			0.0470	93.95	-6.05	325.902	3.19
WCL100318-07CRI	Perchlorate-101	101 > 85	5.20	372.638	372.638	bb			0.0444	88.79	-11.21	51.409	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	5.16	9372.645	9372.645	bb			0.4869	97.38	-2.62	1314.8...	

$$\frac{1188.297}{372.638} = 3.1889$$

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3/24/10

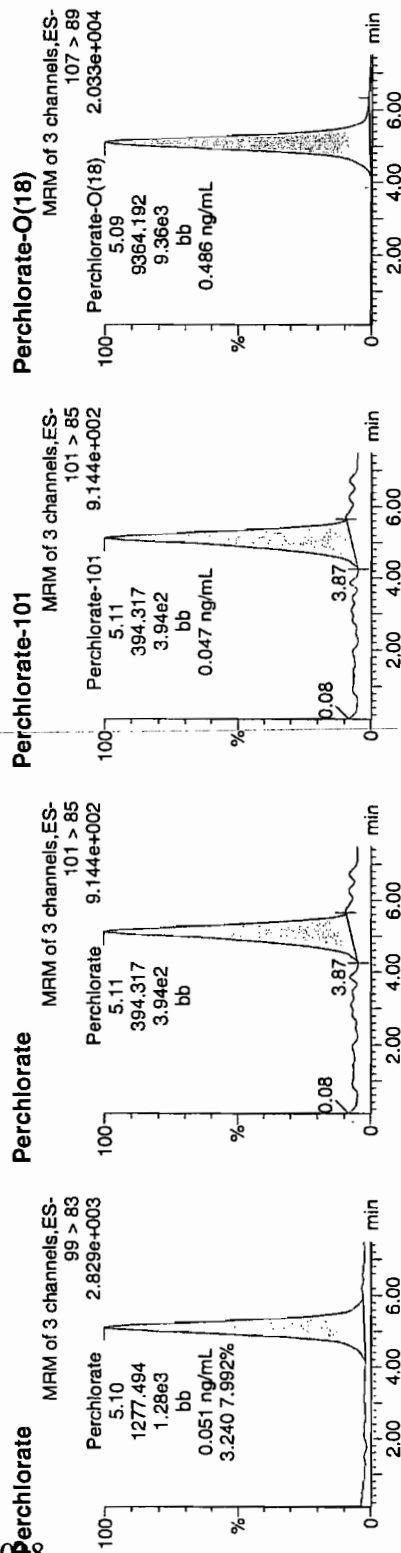
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

File Name: per0323024a
Date: 23-Mar-2010
Time: 17:42:12
ID: WCL100318-07CRI
Vial: 1:2,B

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ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion:Ratio
WCL100318-07CRI	Perchlorate	99 > 83	5.10	1277.494	1277.494	bb			0.0505	101.01	1.01	331.749	3.24
WCL100318-07CRI	Perchlorate-101	101 > 85	5.11	394.317	394.317	bb			0.0470	93.96	-6.04	42.882	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	5.09	9364.192	9364.192	bb			0.4865	97.29	-2.71	2599.5...	

1277
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

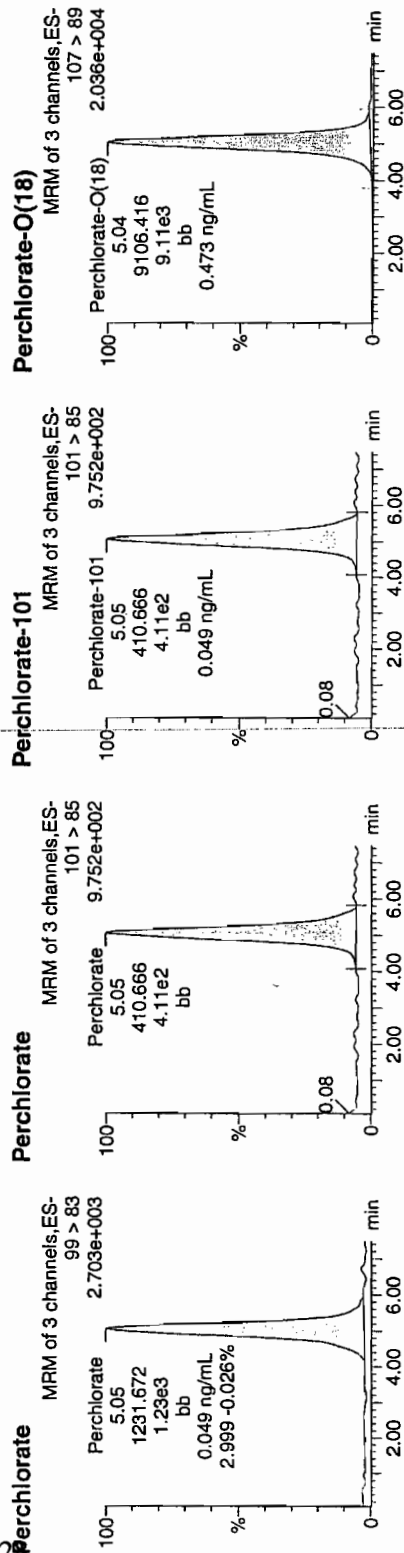
Page 37 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323037a
Date: 23-Mar-2010
Time: 19:59:55
ID: WCL100318-07CRI
Vial: 1:2,B

Pure
and
0324-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	5.05	1231.672	1231.672	bb			0.0487	97.38	-2.62	385.021	3.00
WCL100318-07CRI	Perchlorate-101	101 > 85	5.05	410.666	410.666	bb			0.0489	97.85	-2.15	151.745	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	5.04	9106.416	9106.416	bb			0.4731	94.62	-5.38	683.640	

1.077
3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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 Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Per Name: per0323049a

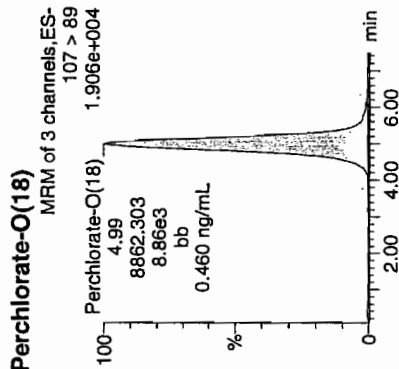
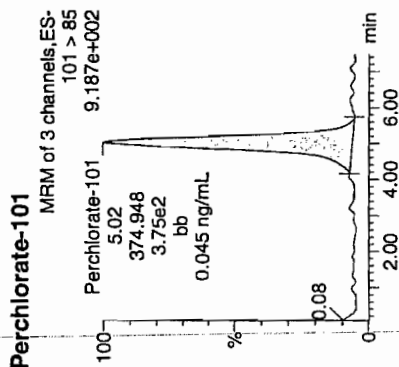
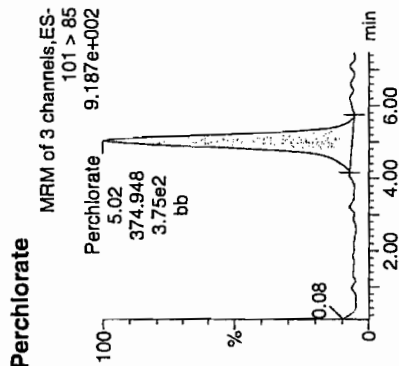
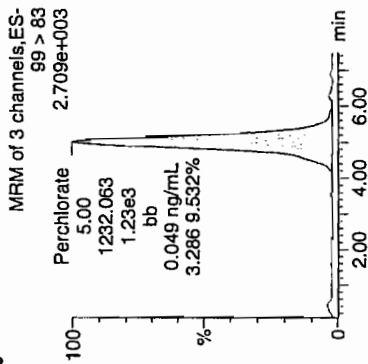
Date: 23-Mar-2010

Time: 22:07:13

ID: WCL100318-07CRI

Vial: 1;2,B

Perchlorate



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	5.00	1232.063	1232.063	bb			-0.0487	97.41	-2.59	34.220	3.29
WCL100318-07CRI	Perchlorate-101	101 > 85	5.02	374.948	374.948	bb			0.0447	89.34	-10.66	55.467	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.99	8862.303	8862.303	bb			0.4604	92.08	-7.92	455.097	

3/24/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 60 of 105

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323060a

Date: 24-Mar-2010

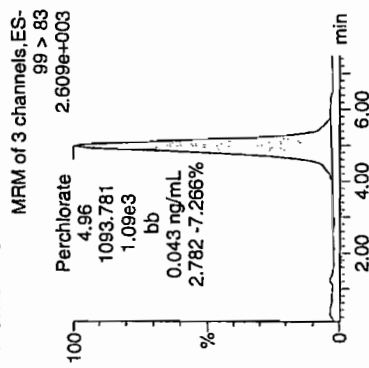
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ID: WCL100318-07CRI

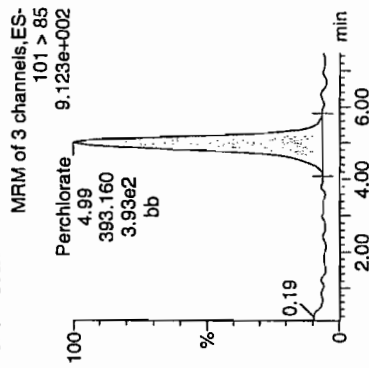
Vial: 1:2,B

Part
WCL
03-24-10

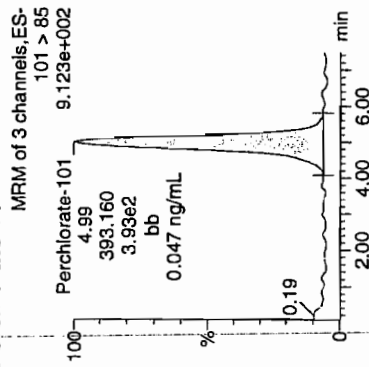
Perchlorate



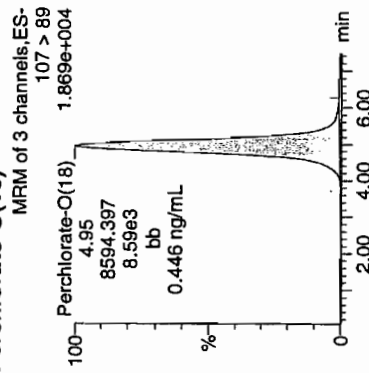
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.96	1093.781	1093.781	bb			0.0432	86.48	-13.52	368.262	2.78
WCL100318-07CRI	Perchlorate-101	101 > 85	4.99	393.160	393.160	bb			0.0468	93.68	-6.32	227.339	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.95	8594.397	8594.397	bb			0.4465	89.30	-10.70	886.624	

part
3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323071a

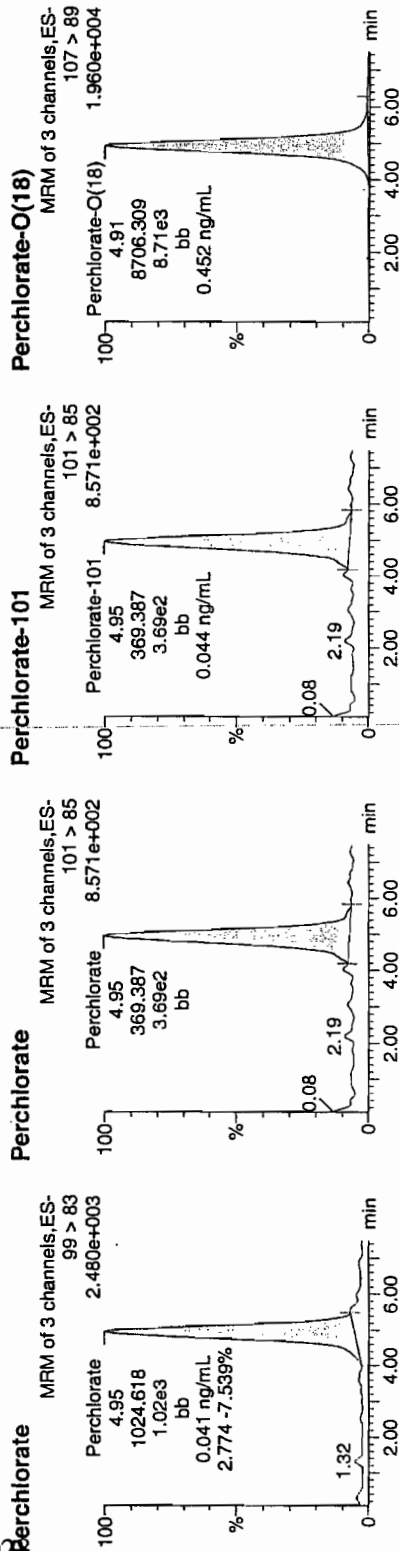
Date: 24-Mar-2010

Time: 02:00:23

ID: WCL100318-07CRI

Vial: 1:2,B

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0.00
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.95	1024.618	1024.618	bb			0.0405	81.01	-18.99	48.225	2.77
WCL100318-07CRI	Perchlorate-101	101 > 85	4.95	369.387	369.387	bb			0.0440	88.02	-11.98	31.450	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.91	8706.309	8706.309	bb			0.4523	90.46	-9.54	2151.2...	

not
3/24/10

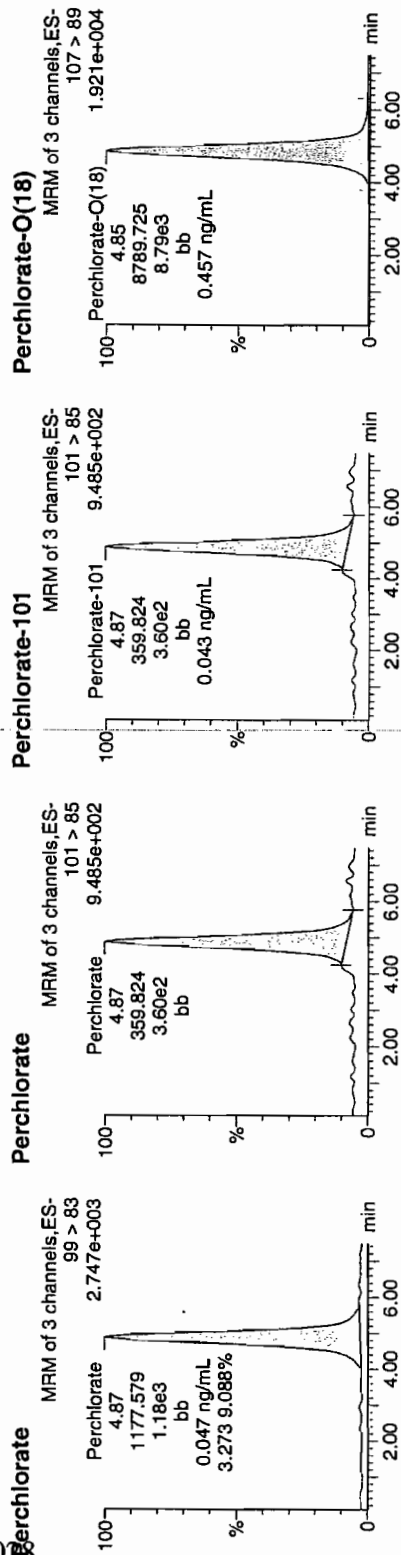
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Sample Name: per0323084a
Date: 24-Mar-2010
Time: 04:17:55
ID: WCL100318-07CRI
Vial: 1:2,B

Pass
Cand
03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.87	1177.579	1177.579	bb			0.0466	93.11	-6.89	127.128	3.27
WCL100318-07CRI	Perchlorate-101	101 > 85	4.87	359.824	359.824	bb			0.0429	85.74	-14.26	44.343	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.85	8789.725	8789.725	bb			0.4566	91.32	-8.68	3244.9...	

Pass
3/24/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Page Name: per0323097a

Date: 24-Mar-2010

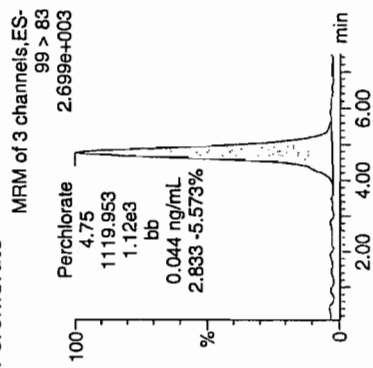
Time: 06:35:43

ID: WCL100318-07CRI

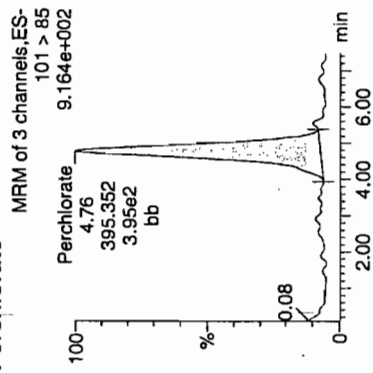
Vial: 1:2,B

Per
03-24-10

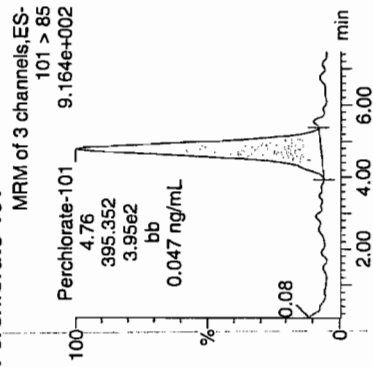
Perchlorate



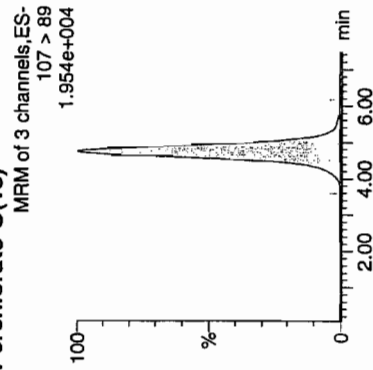
Perchlorate



Perchlorate-101



Perchlorate-Q(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.75	1119.953	1119.953	bb			0.0443	88.55	-11.45	303.816	2.83
WCL100318-07CRI	Perchlorate-101	101 > 85	4.76	395.352	395.352	bb			0.0471	94.20	-5.80	39.903	
WCL100318-07CRI	Perchlorate-Q(18)	107 > 89	4.75	8751.476	8751.476	bb			0.4546	90.93	-9.07	737.169	

107
3/24/10

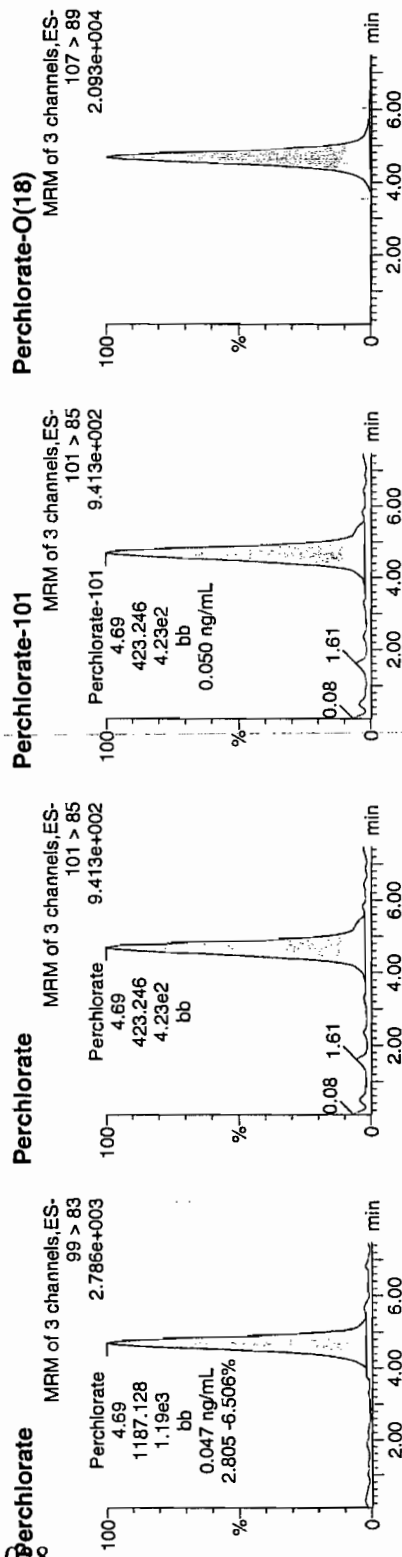
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032310a.qld

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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323105a
Date: 24-Mar-2010
Time: 08:02:14
ID: WCL100318-07CRI
Q/tal: 1:2,B

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03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.69	1187.128	1187.128	bb			0.0469	99.86	-6.14	47.851	2.80
WCL100318-07CRI	Perchlorate-101	101 > 85	4.69	423.246	423.246	bb			0.0504	100.85	0.85	57.541	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.68	9202.271	9202.271	bb			0.4781	95.61	-4.39	1862.6...	

1187
3/24/10

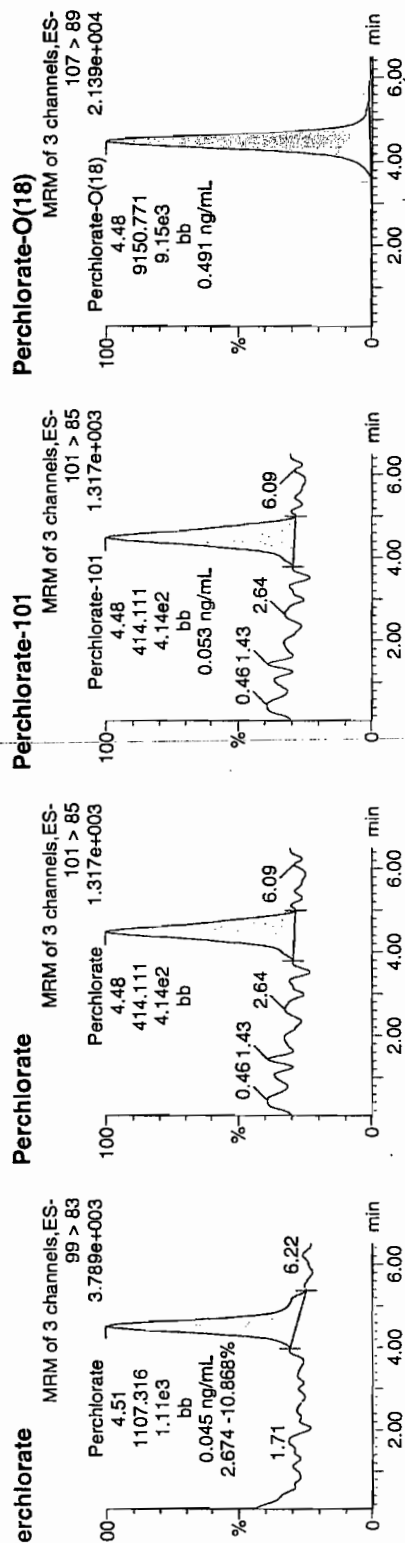
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Sample Name: per0324011a
Date: 24-Mar-2010
Time: 14:42:20
ID: WCL100318-07CRI
Vial: 1:2,B

Perchlorate
03-25-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion:Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.51	1107.316	1107.316	bb			0.0448	89.60	-10.40	41.935	2.67
WCL100318-07CRI	Perchlorate-101	101 > 85	4.48	414.111	414.111	bb			0.0526	105.12	5.12	11.473	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.48	9150.771	9150.771	bb			0.4905	98.10	-1.90	1917.4...	

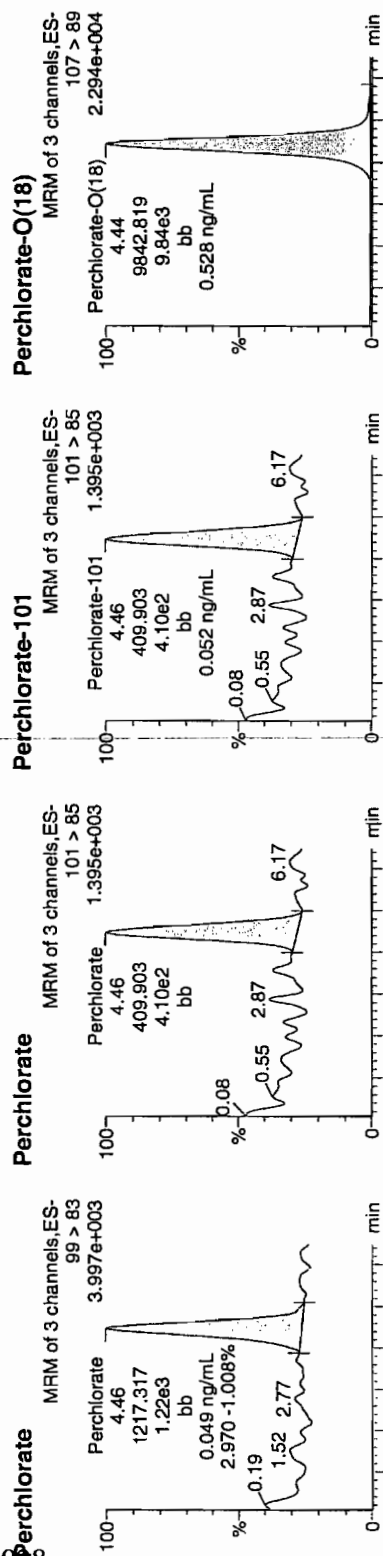
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324022a
Date: 24-Mar-2010
Time: 16:29:04
ID: WCL100318-07CRI
Q/tal: 1:2,B

Run
WCL100318-07CRI
03-25-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100318-07CRI	Perchlorate	99 > 83	4.46	1217.317	1217.317	bb			0.0493	98.50	-1.50	59.468	2.97
WCL100318-07CRI	Perchlorate-101	101 > 85	4.46	409.903	409.903	bb			0.0520	104.05	4.05	13.584	
WCL100318-07CRI	Perchlorate-O(18)	107 > 89	4.44	9842.819	9842.819	bb			0.5276	105.52	5.52	142.737	

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: 262129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

MB

Date Received: 17-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 1202063747

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	24-MAR-10 02:11	per0323072a
	Perchlorate Isotope Ratio						1	24-MAR-10 02:11	per0323072a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	24-MAR-10 02:11	per0323072a
	Perchlorate-O(18)			4.54	ug/kg		1	24-MAR-10 02:11	per0323072a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area.

The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

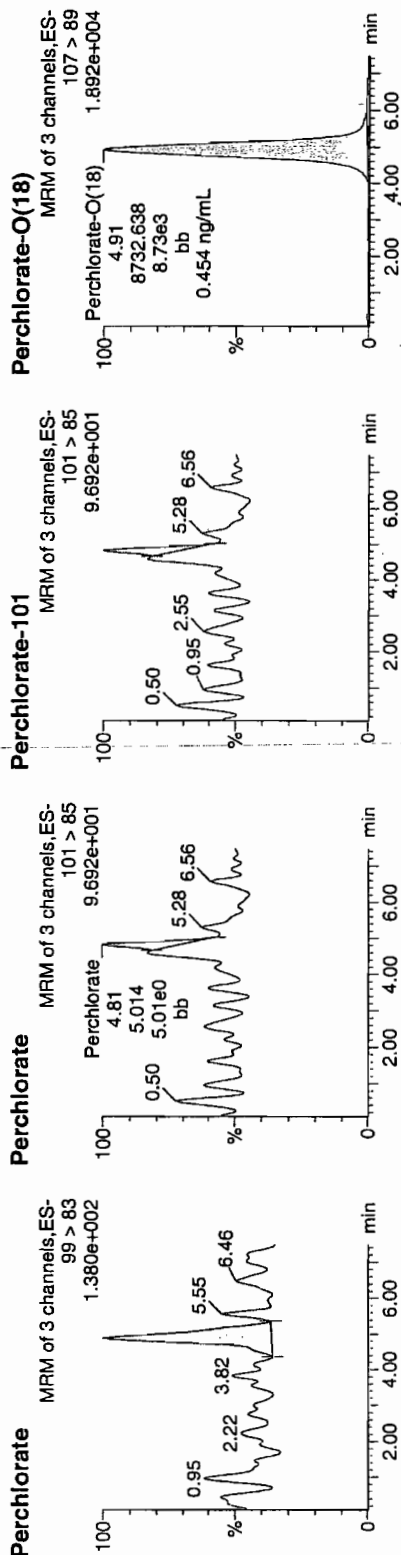
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Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Name: per0323072a
Date: 24-Mar-2010
Time: 02:11:03
ID: 1202063747
Vial: 3:1,A

23 24-10

1202063747 | 962130 | 5075 | MG | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202063747	Perchlorate	99 > 83	4.87	32.425	32.425	bb			0.0013			15.755	6.47
1202063747	Perchlorate-101	101 > 85	4.81	5.014	5.014	bb			0.0006			11.579	
1202063747	Perchlorate-O(18)	107 > 89	4.91	8732.638	8732.638	bb			0.4537	90.73	-9.27	2038.6	

0.24
20.0500

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

LCS

Date Received: 17-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 1202063748

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	1.86	ug/kg	J	1	24-MAR-10 02:21	per0323073a
	Perchlorate Isotope Ratio			2.91			1	24-MAR-10 02:21	per0323073a
14797-73-0	Perchlorate-101	.5	2	1.93	ug/kg	J	1	24-MAR-10 02:21	per0323073a
	Perchlorate-O(18)			4.46	ug/kg		1	24-MAR-10 02:21	per0323073a

[^] 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

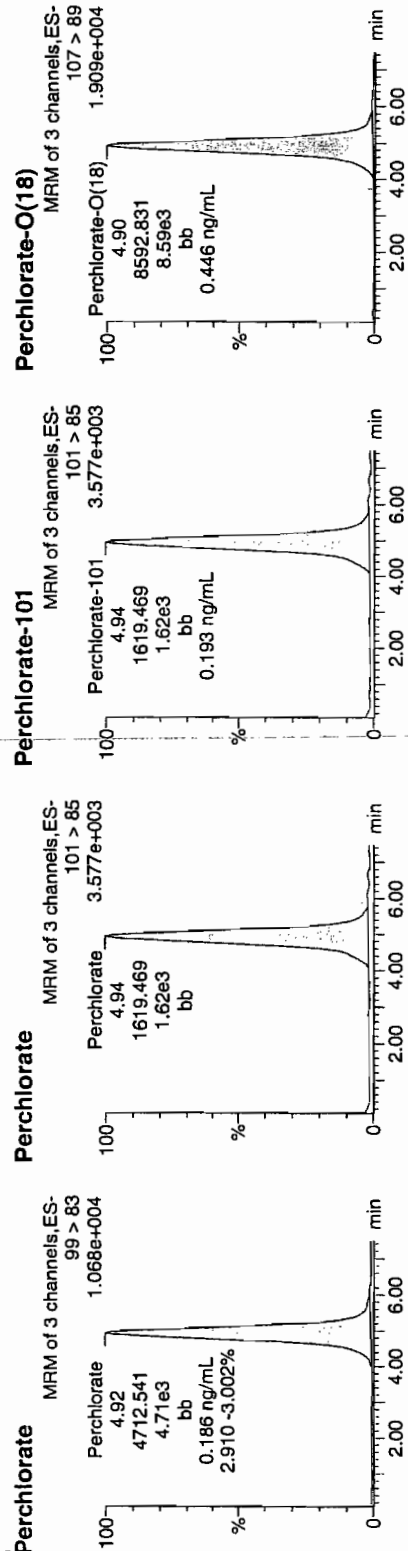
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Last Altered: Wednesday, March 24, 2010 11:23:49 AM Eastern Standard Time
Printed: Wednesday, March 24, 2010 11:25:25 AM Eastern Standard Time

Page Name: per0323073a
Date: 24-Mar-2010
Time: 02:21:48
ID: 1202063748
Vial: 3:1,B

LA 120-962130 | 5070 | LGS | 11

03-24-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202063748	Perchlorate	99 > 83	4.92	4712.541	4712.541	bb			0.1863	93.15	-6.85	908.908	2.91
1202063748	Perchlorate-101	101 > 85	4.94	1619.469	1619.469	bb			0.1929	96.47	-3.53	119.138	
1202063748	Perchlorate-O(18)	107 > 89	4.90	8592.831	8592.831	bb			0.4464	89.28	-10.72	1932.5...	

$$\frac{4712.541}{25295.2} = 0.1863$$

4712.541
25295.2
= 0.1863

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7407MS

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 1202063749

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	3.24	13	54.6	ug/kg		5	24-MAR-10 15:01	per0324013a
	Perchlorate Isotope Ratio			3.12			5	24-MAR-10 15:01	per0324013a
14797-73-0	Perchlorate-101	3.24	13	54.9	ug/kg		5	24-MAR-10 15:01	per0324013a
	Perchlorate-O(18)			32.2	ug/kg		5	24-MAR-10 15:01	per0324013a

[^] 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

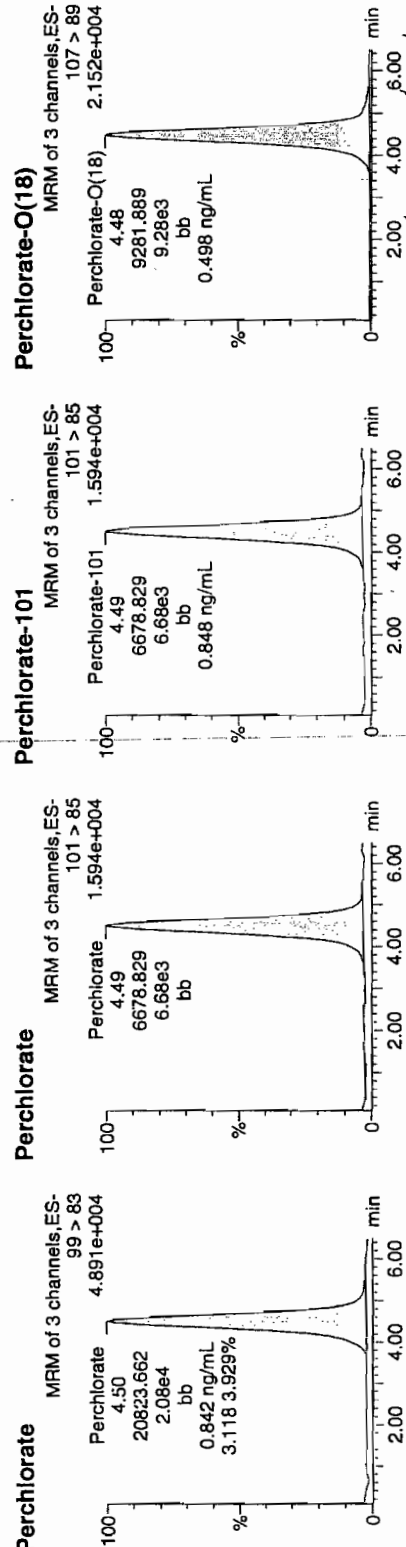
Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324013a
Date: 24-Mar-2010
Time: 15:01:27
ID: 1202063749
Vial: 1:3,B

1202063749 | 902130 | 3000 | MS | 5 | DL

0.35-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202063749	Perchlorate	99 > 83	4.50	20823.662	20823.662	bb			0.8425	421.24	321.24	1324.8...	3.12
1202063749	Perchlorate-101	101 > 85	4.49	6678.829	6678.829	bb			0.8477	423.86	323.86	531.143	
1202063749	Perchlorate-O(18)	107 > 89	4.48	9281.889	9281.889	bb			0.4975	99.51	-0.49	1222.4...	

4.21
XS = 4.12

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 962129

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7407MSD

Date Received: 03-MAR-10

GEL Job No (SDG): 10-2194

GEL Sample ID: 1202063750

Date Filtered: 17-MAR-10

Injection Volume (uL): 20

%Solids: 77

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	3.24	13	56.8	ug/kg		5	24-MAR-10 15:11	per0324014a
	Perchlorate Isotope Ratio			2.99			5	24-MAR-10 15:11	per0324014a
14797-73-0	Perchlorate-101	3.24	13	59.6	ug/kg		5	24-MAR-10 15:11	per0324014a
	Perchlorate-O(18)			33.1	ug/kg		5	24-MAR-10 15:11	per0324014a

[^] 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: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per032410a.qld

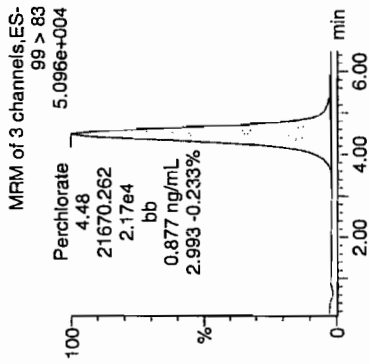
Last Altered: Thursday, March 25, 2010 9:21:19 AM Eastern Standard Time
Printed: Thursday, March 25, 2010 9:28:27 AM Eastern Standard Time

Name: per0324014a
Date: 24-Mar-2010
Time: 15:11:00
ID: 1202063750
Vial: 1:3C

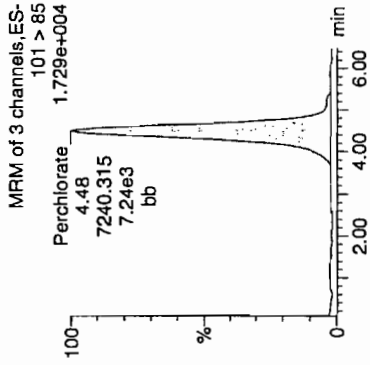
0.003
235-10

1.222 | 102130 | 3000 | 150 | 5 | 20

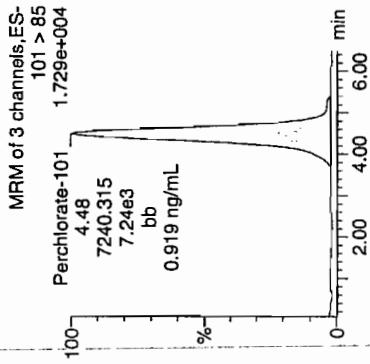
Perchlorate



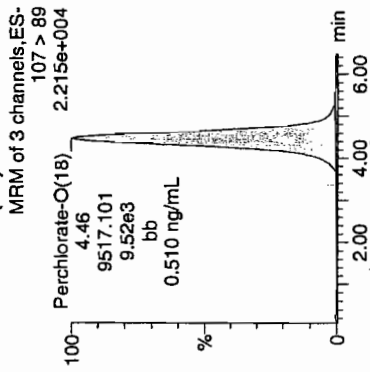
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202063750	Perchlorate	99 > 83	4.48	21670.262	21670.262	bb			0.8767	438.37	338.37	1835.3...	2.99
1202063750	Perchlorate-101	101 > 85	4.48	7240.315	7240.315	bb			0.9190	459.49	359.49	338.104	
1202063750	Perchlorate-O(18)	107 > 89	4.46	9517.101	9517.101	bb			0.5102	102.03	2.03	1294.3...	

4.38
XS
4.60

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: 962129 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Jareth Shirley Instrument: MicroMass Quattro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202063747 MB	17-MAR-2010 15:06:00	2	20	10
1202063748 LCS	17-MAR-2010 15:06:00	2	20	10
248511001	17-MAR-2010 15:06:00	2	20	10
1202063749 MS (248511001)	17-MAR-2010 15:06:00	2	20	10
1202063750 MSD (248511001)	17-MAR-2010 15:06:00	2	20	10
248511002	17-MAR-2010 15:06:00	2	20	10
248511003	17-MAR-2010 15:06:00	2	20	10
248511004	17-MAR-2010 15:06:00	2	20	10
248511005	17-MAR-2010 15:06:00	2	20	10
248511006	17-MAR-2010 15:06:00	2	20	10
248511007	17-MAR-2010 15:06:00	2	20	10
248511008	17-MAR-2010 15:06:00	2	20	10
248511009	17-MAR-2010 15:06:00	2	20	10
248511010	17-MAR-2010 15:06:00	2	20	10
248511011	17-MAR-2010 15:06:00	2	20	10
248511012	17-MAR-2010 15:06:00	2	20	10
248511013	17-MAR-2010 15:06:00	2	20	10
248511014	17-MAR-2010 15:06:00	2	20	10
248511015	17-MAR-2010 15:06:00	2	20	10
248511016	17-MAR-2010 15:06:00	2	20	10
248511017	17-MAR-2010 15:06:00	2	20	10
248511018	17-MAR-2010 15:06:00	2	20	10
248511019	17-MAR-2010 15:06:00	2	20	10
248511020	17-MAR-2010 15:06:00	2	20	10
1202063751 ICS	17-MAR-2010 15:06:00	2	20	10

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
ICS	1202063751	10 ug/L ICS/CCV Second Source	UCL100311-01.1	4	mL
LCS	1202063748	10 ug/L LCS/CCV Second Source	UCL100311-01.1	4	mL
MS	1202063749	10 ug/L MS/CCV Second Source	UCL100311-01.1	4	mL
MSD	1202063750	10 ug/L MSD/CCV Second Source	UCL100311-01.1	4	mL

Desalting cartridges used: 100224-1-Bu & 100216-1-H

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/23/10
 Extr. Injection Volume: 20uL
 Sequence Number: per032310a
 Initial Calibration Date: 03/23/10

Method: EPA 6850-Modified
 Int. Std.: UCL100210-01
 Mobile Phase Lot#: 1278668, 1284736
 Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *Am KL*
 Date: *03/26/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100318-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0323001a	IPB001	CWW	3/23/2010 13:39			1		USE	B
per0323002a	IPB001	CWW	3/23/2010 13:49			1		USE	B
per0323003a	WCLICAL-01	CWW	3/23/2010 14:00			1		USE	I
per0323004a	WCLICAL-02	CWW	3/23/2010 14:11			1		USE	I
per0323005a	WCLICAL-03	CWW	3/23/2010 14:21			1		USE	I
per0323006a	WCLICAL-04	CWW	3/23/2010 14:32			1		USE	I
per0323007a	WCLICAL-05	CWW	3/23/2010 14:42			1		USE	I
per0323008a	IPB002	CWW	3/23/2010 14:53			1		USE	B
per0323009a	WCLICV	CWW	3/23/2010 15:03			1		USE	C
per0323010a	IPB003	CWW	3/23/2010 15:14			1		USE	B
per0323011a	WCLCRI	CWW	3/23/2010 15:24			1		USE	C
per0323012a	1202067837	CWW	3/23/2010 15:35	963910	10-2211	1	LANL	USE	S
per0323013a	1202067838	CWW	3/23/2010 15:46	963910	10-2211	1	LANL	USE	S
per0323014a	1202067841	CWW	3/23/2010 15:56	963910	10-2211	1	LANL	USE	S
per0323015a	248527002	CWW	3/23/2010 16:07	963910	10-2211	1	LANL	USE	S
per0323016a	1202067839	CWW	3/23/2010 16:17	963910	10-2211	1	LANL	USE	S
per0323017a	1202067840	CWW	3/23/2010 16:28	963910	10-2211	1	LANL	USE	S
per0323018a	248527003	CWW	3/23/2010 16:38	963910	10-2211	1	LANL	USE	S
per0323019a	248527004	CWW	3/23/2010 16:49	963910	10-2211	1	LANL	USE	S
per0323020a	248527005	CWW	3/23/2010 17:00	963910	10-2211	1	LANL	USE	S
per0323021a	248527006	CWW	3/23/2010 17:10	963910	10-2211	1	LANL	USE	S
per0323022a	WCLCCV	CWW	3/23/2010 17:21			1		USE	C
per0323023a	IPB004	CWW	3/23/2010 17:31			1		USE	B
per0323024a	WCLCRI	CWW	3/23/2010 17:42			1		USE	C
per0323025a	248527007	CWW	3/23/2010 17:52	963910	10-2211	1	LANL	USE	S
per0323026a	248527008	CWW	3/23/2010 18:03	963910	10-2211	1	LANL	USE	S
per0323027a	248527009	CWW	3/23/2010 18:13	963910	10-2211	1	LANL	USE	S
per0323028a	248527010	CWW	3/23/2010 18:24	963910	10-2211	1	LANL	USE	S
per0323029a	248527011	CWW	3/23/2010 18:34	963910	10-2211	1	LANL	USE	S

per03230303a	248527012	CWW	3/23/2010 18:45	963910	10-2211	1	LANL	USE	S
per032303031a	248527013	CWW	3/23/2010 18:56	963910	10-2211	1	LANL	USE	S
per032303032a	248527014	CWW	3/23/2010 19:06	963910	10-2211	1	LANL	USE	S
per032303033a	248527015	CWW	3/23/2010 19:17	963910	10-2211	1	LANL	USE	S
per032303034a	248527016	CWW	3/23/2010 19:27	963910	10-2211	1	LANL	USE	S
per032303035a	WCLCCV	CWW	3/23/2010 19:38			1		USE	C
per032303036a	IPB005	CWW	3/23/2010 19:49			1		USE	B
per032303037a	WCLCRI	CWW	3/23/2010 19:59			1		USE	C
per032303038a	1202067829	CWW	3/23/2010 20:10	963906	VARIOUS	1	LANL	USE	S
per032303039a	1202067830	CWW	3/23/2010 20:21	963906	VARIOUS	1	LANL	USE	S
per032303040a	1202067836	CWW	3/23/2010 20:31	963906	VARIOUS	1	LANL	USE	S
per032303041a	248526001	CWW	3/23/2010 20:42	963906	10-2202	1	LANL	USE	S
per032303042a	248531001	CWW	3/23/2010 20:53	963906	10-2205	1	LANL	USE	S
per032303043a	248531002	CWW	3/23/2010 21:03	963906	10-2205	1	LANL	USE	S
per032303044a	248531003	CWW	3/23/2010 21:14	963906	10-2205	1	LANL	USE	S
per032303045a	248531004	CWW	3/23/2010 21:24	963906	10-2205	1	LANL	USE	S
per032303046a	248531005	CWW	3/23/2010 21:35	963906	10-2205	1	LANL	USE	S
per032303047a	WCLCCV	CWW	3/23/2010 21:45			1		USE	C
per032303048a	IPB006	CWW	3/23/2010 21:56			1		USE	B
per032303049a	WCLCRI	CWW	3/23/2010 22:07			1		USE	C
per032303050a	248531006	CWW	3/23/2010 22:17	963906	10-2205	1	LANL	USE	S
per032303051a	248531007	CWW	3/23/2010 22:28	963906	10-2205	1	LANL	USE	S
per032303052a	248531008	CWW	3/23/2010 22:38	963906	10-2205	1	LANL	USE	S
per032303053a	248531009	CWW	3/23/2010 22:49	963906	10-2205	1	LANL	USE	S
per032303054a	248531010	CWW	3/23/2010 23:00	963906	10-2205	1	LANL	USE	S
per032303055a	248534001	CWW	3/23/2010 23:10	963906	10-2208	1	LANL	USE	S
per032303056a	1202067831	CWW	3/23/2010 23:21	963906	10-2208	1	LANL	USE	S
per032303057a	1202067832	CWW	3/23/2010 23:31	963906	10-2208	1	LANL	USE	S
per032303058a	WCLCCV	CWW	3/23/2010 23:42			1		USE	C
per032303059a	IPB007	CWW	3/23/2010 23:53			1		USE	B
per032303060a	WCLCRI	CWW	3/24/2010 0:03			1		USE	C
per032303061a	248534002	CWW	3/24/2010 0:14	963906	10-2208	1	LANL	USE	S
per032303062a	248534003	CWW	3/24/2010 0:24	963906	10-2208	1	LANL	USE	S
per032303063a	248534004	CWW	3/24/2010 0:35	963906	10-2208	1	LANL	USE	S
per032303064a	248534005	CWW	3/24/2010 0:46	963906	10-2208	1	LANL	USE	S
per032303065a	248534006	CWW	3/24/2010 0:56	963906	10-2208	1	LANL	USE	S
per032303066a	248534007	CWW	3/24/2010 1:07	963906	10-2208	1	LANL	USE	S

per0323067a	248534008	CWW	3/24/2010 1:17	963906	10-2208	1	LANL	USE	S
per0323068a	248534009	CWW	3/24/2010 1:28	963906	10-2208	1	LANL	USE	S
per0323069a	WCLCCV	CWW	3/24/2010 1:38			1		USE	C
per0323070a	IPB008	CWW	3/24/2010 1:49			1		USE	B
per0323071a	WCLCRI	CWW	3/24/2010 2:00			1		USE	C
per0323072a	1202063747	CWW	3/24/2010 2:11	962130	10-2194	1	LANL	USE	S
per0323073a	1202063748	CWW	3/24/2010 2:21	962130	10-2194	1	LANL	USE	S
per0323074a	1202063751	CWW	3/24/2010 2:32	962130	10-2194	1	LANL	USE	S
per0323075a	248511001	CWW	3/24/2010 2:42	962130	10-2194	1	LANL	DUSE-DL	S
per0323076a	1202063749	CWW	3/24/2010 2:53	962130	10-2194	1	LANL	DUSE-DL	S
per0323077a	1202063750	CWW	3/24/2010 3:03	962130	10-2194	1	LANL	DUSE-DL	S
per0323078a	248511002	CWW	3/24/2010 3:14	962130	10-2194	1	LANL	DUSE-RA	S
per0323079a	248511003	CWW	3/24/2010 3:24	962130	10-2194	1	LANL	USE	S
per0323080a	248511004	CWW	3/24/2010 3:35	962130	10-2194	1	LANL	USE	S
per0323081a	248511005	CWW	3/24/2010 3:45	962130	10-2194	1	LANL	USE	S
per0323082a	WCLCCV	CWW	3/24/2010 3:56			1		USE	C
per0323083a	IPB009	CWW	3/24/2010 4:07			1		USE	B
per0323084a	WCLCRI	CWW	3/24/2010 4:17			1		USE	C
per0323085a	248511006	CWW	3/24/2010 4:28	962130	10-2194	1	LANL	DUSE-DL	S
per0323086a	248511007	CWW	3/24/2010 4:39	962130	10-2194	1	LANL	DUSE-RA	S
per0323087a	248511008	CWW	3/24/2010 4:49	962130	10-2194	1	LANL	USE	S
per0323088a	248511009	CWW	3/24/2010 5:00	962130	10-2194	1	LANL	USE	S
per0323089a	248511010	CWW	3/24/2010 5:10	962130	10-2194	1	LANL	USE	S
per0323090a	248511011	CWW	3/24/2010 5:21	962130	10-2194	1	LANL	USE	S
per0323091a	248511012	CWW	3/24/2010 5:31	962130	10-2194	1	LANL	USE	S
per0323092a	248511013	CWW	3/24/2010 5:42	962130	10-2194	1	LANL	USE	S
per0323093a	248511014	CWW	3/24/2010 5:52	962130	10-2194	1	LANL	USE	S
per0323094a	248511015	CWW	3/24/2010 6:03	962130	10-2194	1	LANL	USE	S
per0323095a	WCLCCV	CWW	3/24/2010 6:14			1		USE	C
per0323096a	IPB010	CWW	3/24/2010 6:25			1		USE	B
per0323097a	WCLCRI	CWW	3/24/2010 6:35			1		USE	C
per0323098a	248511016	CWW	3/24/2010 6:46	962130	10-2194	1	LANL	USE	S
per0323099a	248511017	CWW	3/24/2010 6:57	962130	10-2194	1	LANL	USE	S
per0323100a	248511018	CWW	3/24/2010 7:07	962130	10-2194	1	LANL	USE	S
per0323101a	248511019	CWW	3/24/2010 7:18	962130	10-2194	1	LANL	USE	S
per0323102a	248511020	CWW	3/24/2010 7:28	962130	10-2194	1	LANL	USE	S
per0323103a	WCLCCV	CWW	3/24/2010 7:40			1		USE	C

B C

USE
USE

1
1

3/24/2010 7:51
3/24/2010 8:02

CWW
CWW

IPB011
WCLCRI

per0323104a
per0323105a

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/24/10
 Extr. Injection Volume: 20uL
 Sequence Number: per032410a
 Initial Calibration Date: 03/24/10

Method: EPA 6850-Modified
 Int. Std.: UCL100210-01
 Mobile Phase Lot#: 1278668, 1284736
 Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *Ann*
 Date: *03/26/10*
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100318-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0324001a	IPB001	CWW	3/24/2010 13:07			1		USE	B
per0324002a	IPB001	CWW	3/24/2010 13:16			1		USE	B
per0324003a	WCLICAL-01	CWW	3/24/2010 13:26			1		USE	I
per0324004a	WCLICAL-02	CWW	3/24/2010 13:35			1		USE	I
per0324005a	WCLICAL-03	CWW	3/24/2010 13:45			1		USE	I
per0324006a	WCLICAL-04	CWW	3/24/2010 13:54			1		USE	I
per0324007a	WCLICAL-05	CWW	3/24/2010 14:04			1		USE	I
per0324008a	IPB002	CWW	3/24/2010 14:13			1		USE	B
per0324009a	WCLICV	CWW	3/24/2010 14:23			1		USE	C
per0324010a	IPB003	CWW	3/24/2010 14:32			1		USE	B
per0324011a	WCLCRI	CWW	3/24/2010 14:42			1		USE	C
per0324012a	248511001	CWW	3/24/2010 14:51	962130	10-2194	5	LANL	USE	S
per0324013a	1202063749	CWW	3/24/2010 15:01	962130	10-2194	5	LANL	USE	S
per0324014a	1202063750	CWW	3/24/2010 15:11	962130	10-2194	5	LANL	USE	S
per0324015a	248511002	CWW	3/24/2010 15:21	962130	10-2194	1	LANL	USE	S
per0324016a	248511006	CWW	3/24/2010 15:31	962130	10-2194	4	LANL	USE	S
per0324017a	248511007	CWW	3/24/2010 15:41	962130	10-2194	1	LANL	USE	S
per0324018a	IPB004	CWW	3/24/2010 15:50			1		USE	B
per0324019a	UCL100312-02.1	CWW	3/24/2010 16:00	Screen	In-house	1	GEL	USE	S
per0324020a	WCLCCV	CWW	3/24/2010 16:09			1		USE	C
per0324021a	IPB005	CWW	3/24/2010 16:19			1		USE	B
per0324022a	WCLCRI	CWW	3/24/2010 16:29			1		USE	C
per0324023a	1202063762	CWW	3/24/2010 16:38	962139	VARIOUS	1	LANL	DUSE-RA	S
per0324024a	1202063763	CWW	3/24/2010 16:48	962139	VARIOUS	1	LANL	DUSE-RA	S
per0324025a	1202063766	CWW	3/24/2010 16:57	962139	VARIOUS	1	LANL	DUSE-RA	S
per0324026a	248382001	CWW	3/24/2010 17:07	962139	10-2176	1	LANL	DUSE-RA	S
per0324027a	248382004	CWW	3/24/2010 17:16	962139	10-2176	1	LANL	DUSE-RA	S
per0324028a	248401001	CWW	3/24/2010 17:26	962139	10-2184	1	LANL	DUSE-RA	S
per0324029a	248401003	CWW	3/24/2010 17:35	962139	10-2184	1	LANL	DUSE-RA	S

per0324030a	248401006	CWW	3/24/2010 17:45	962139	10-2184	1	LANL	DUSE-RA	S
per0324031a	WCLCCV	CWW	3/24/2010 17:55			1	LANL	DUSE	C
per0324032a	IPB006	CWW	3/24/2010 18:04			1	LANL	DUSE	B
per0324033a	WCLCRI	CWW	3/24/2010 18:14			1	LANL	DUSE	C
per0324034a	248544003	CWW	3/24/2010 18:23	962139	10-2232	1	LANL	DUSE-DL	S
per0324035a	1202063764	CWW	3/24/2010 18:33	962139	10-2232	1	LANL	DUSE-DL	S
per0324036a	1202063765	CWW	3/24/2010 18:42	962139	10-2232	1	LANL	DUSE-DL	S
per0324037a	248544004	CWW	3/24/2010 18:52	962139	10-2232	1	LANL	DUSE-RA	S
per0324038a	248544006	CWW	3/24/2010 19:01	962139	10-2232	1	LANL	DUSE-RA	S
per0324039a	248544007	CWW	3/24/2010 19:11	962139	10-2232	1	LANL	DUSE-RA	S
per0324040a	248544008	CWW	3/24/2010 19:20	962139	10-2232	1	LANL	DUSE-RA	S
per0324041a	248548002	CWW	3/24/2010 19:30	962139	10-2220	1	LANL	DUSE-RA	S
per0324042a	WCLCCV	CWW	3/24/2010 19:40			1	LANL	USE	C
per0324043a	IPB007	CWW	3/24/2010 19:49			1	LANL	USE	B
per0324044a	WCLCRI	CWW	3/24/2010 19:59			1	LANL	USE	C
per0324045a	248548004	CWW	3/24/2010 20:08	962139	10-2220	1	LANL	USE	S
per0324046a	248555001	CWW	3/24/2010 20:18	962139	10-2226	1	LANL	USE	S
per0324047a	248668002	CWW	3/24/2010 20:27	962139	10-2249	1	LANL	USE	S
per0324048a	248668004	CWW	3/24/2010 20:37	962139	10-2249	1	LANL	USE	S
per0324049a	248668005	CWW	3/24/2010 20:47	962139	10-2249	1	LANL	USE	S
per0324050a	248703002	CWW	3/24/2010 20:56	962139	10-2276	1	LANL	USE	S
per0324051a	248805002	CWW	3/24/2010 21:06	962139	10-2295	1	LANL	USE	S
per0324052a	248805004	CWW	3/24/2010 21:15	962139	10-2295	1	LANL	USE	S
per0324053a	WCLCCV	CWW	3/24/2010 21:25			1	LANL	USE	C
per0324054a	IPB008	CWW	3/24/2010 21:35			1	LANL	USE	B
per0324055a	WCLCRI	CWW	3/24/2010 21:44			1	LANL	USE	C
per0324056a	1202068322	CWW	3/24/2010 21:54	964107	VARIOUS	1	LANL	DUSE-RA	S
per0324057a	1202068323	CWW	3/24/2010 22:03	964107	VARIOUS	1	LANL	DUSE-RA	S
per0324058a	1202068326	CWW	3/24/2010 22:13	964107	VARIOUS	1	LANL	DUSE-RA	S
per0324059a	248560001	CWW	3/24/2010 22:23	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324060a	248560002	CWW	3/24/2010 22:32	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324061a	248560003	CWW	3/24/2010 22:42	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324062a	248560004	CWW	3/24/2010 22:51	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324063a	248560005	CWW	3/24/2010 23:01	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324064a	248560006	CWW	3/24/2010 23:11	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324065a	248560007	CWW	3/24/2010 23:20	964107	10-2217-1	1	LANL	DUSE-RA	S
per0324066a	WCLCCV	CWW	3/24/2010 23:30			1	LANL	DUSE	C

per0324067a	IPB009	CWW	3/24/2010 23:40				1	LANL	DUSE	B
per0324068a	WCLCRI	CWW					1	LANL	DUSE	C
per0324069a	248623001	CWW	3/24/2010 23:59	964107	10-2237		1	LANL	DUSE-RA	S
per0324070a	1202068324	CWW	3/25/2010 0:09	964107	10-2237		1	LANL	DUSE-RA	S
per0324071a	1202068325	CWW	3/25/2010 0:18	964107	10-2237		1	LANL	DUSE-RA	S
per0324072a	248623002	CWW	3/25/2010 0:28	964107	10-2237		1	LANL	DUSE-RA	S
per0324073a	248623003	CWW	3/25/2010 0:37	964107	10-2237		1	LANL	DUSE-RA	S
per0324074a	248623004	CWW	3/25/2010 0:47	964107	10-2237		1	LANL	DUSE-RA	S
per0324075a	248623005	CWW	3/25/2010 0:56	964107	10-2237		1	LANL	DUSE-RA	S
per0324076a	248623006	CWW	3/25/2010 1:06	964107	10-2237		1	LANL	DUSE-RA	S
per0324077a	248623007	CWW	3/25/2010 1:15	964107	10-2237		1	LANL	DUSE-RA	S
per0324078a	248623008	CWW	3/25/2010 1:25	964107	10-2237		1	LANL	DUSE-RA	S
per0324079a	WCLCCV	CWW	3/25/2010 1:35				1	LANL	DUSE	C
per0324080a	IPB010	CWW	3/25/2010 1:44				1	LANL	DUSE	B
per0324081a	WCLCRI	CWW	3/25/2010 1:54				1	LANL	DUSE	C
per0324082a	248623009	CWW	3/25/2010 2:04	964107	10-2237		1	LANL	DUSE-RA	S
per0324083a	IPB011	CWW	3/25/2010 2:13				1	LANL	USE	B
per0324084a	1202068327	CWW	3/25/2010 2:23	964110	VARIOUS		1	LANL	DUSE-RA	S
per0324085a	1202068328	CWW	3/25/2010 2:33	964110	VARIOUS		1	LANL	DUSE-RA	S
per0324086a	1202068331	CWW	3/25/2010 2:43	964110	VARIOUS		1	LANL	DUSE-RA	S
per0324087a	248635001	CWW	3/25/2010 2:52	964110	10-2234		1	LANL	DUSE-RA	S
per0324088a	248635002	CWW	3/25/2010 3:02	964110	10-2234		1	LANL	DUSE-RA	S
per0324089a	1202068329	CWW	3/25/2010 3:11	964110	10-2234		1	LANL	DUSE-RA	S
per0324090a	1202068330	CWW	3/25/2010 3:21	964110	10-2234		1	LANL	DUSE-RA	S
per0324091a	248635003	CWW	3/25/2010 3:30	964110	10-2234		1	LANL	DUSE-RA	S
per0324092a	WCLCCV	CWW	3/25/2010 3:40				1	LANL	DUSE	C
per0324093a	IPB012	CWW	3/25/2010 3:50				1	LANL	DUSE	B
per0324094a	WCLCRI	CWW	3/25/2010 3:59				1	LANL	DUSE	C
per0324095a	248635004	CWW	3/25/2010 4:09	964110	10-2234		1	LANL	DUSE-RA	S
per0324096a	248635005	CWW	3/25/2010 4:18	964110	10-2234		1	LANL	DUSE-RA	S
per0324097a	248635006	CWW	3/25/2010 4:28	964110	10-2234		1	LANL	DUSE-RA	S
per0324098a	248635007	CWW	3/25/2010 4:38	964110	10-2234		1	LANL	DUSE-RA	S
per0324099a	248635008	CWW	3/25/2010 4:47	964110	10-2234		1	LANL	DUSE-RA	S
per0324100a	248635009	CWW	3/25/2010 4:57	964110	10-2234		1	LANL	DUSE-RA	S
per0324101a	248635010	CWW	3/25/2010 5:06	964110	10-2234		1	LANL	DUSE-RA	S
per0324102a	248635011	CWW	3/25/2010 5:16	964110	10-2234		1	LANL	DUSE-RA	S
per0324103a	248635012	CWW	3/25/2010 5:25	964110	10-2234		1	LANL	DUSE-RA	S

per0324104a	248635013	CWW	3/25/2010 5:35	964110	10-2234	1	LANL	DUSE-RA	S
per0324105a	WCLCCV	CWW	3/25/2010 5:45			1		USE	C
per0324106a	IPB013	CWW	3/25/2010 5:54			1		USE	B
per0324107a	WCLCRI	CWW	3/25/2010 6:04			1		USE	C
per0324108a	248635014	CWW	3/25/2010 6:13	964110	10-2234	1	LANL	USE	S
per0324109a	248658001	CWW	3/25/2010 6:23	964110	10-2243	1	LANL	USE	S
per0324110a	248658002	CWW	3/25/2010 6:33	964110	10-2243	1	LANL	USE	S
per0324111a	248658003	CWW	3/25/2010 6:42	964110	10-2243	1	LANL	USE	S
per0324112a	248658004	CWW	3/25/2010 6:52	964110	10-2243	1	LANL	USE	S
per0324113a	248658005	CWW	3/25/2010 7:02	964110	10-2243	1	LANL	USE	S
per0324114a	WCLCCV	CWW	3/25/2010 7:13			1	LANL	USE	C
per0324115a	IPB014	CWW	3/25/2010 7:23			1	LANL	USE	B
per0324116a	WCLCRI	CWW	3/25/2010 7:32			1	LANL	USE	C

GEL Laboratories LLC
Form GEL-DER

DER Report No.: 809987
Revision No.: 1

DATA EXCEPTION REPORT			
Mo.Day Yr. 25-MAR-10	Division: Federal	Quality Criteria: Others	Type: Process
Instrument Type: LC-MS/MS	Test / Method: SW846 6850 Modified	Matrix Type: Solid	Client Code: LANL010
Batch ID: 962130	Sample Numbers: See below		
Potentially affected work order(s)(SDG): 248511(10-2194) Application Issues: Failed Recovery for MSD/PSD Failed Recovery for MS/PS			
Specification and Requirements		DER Disposition:	
Exception Description:			
1. In 1202063749 (MS), a low recovery of 21% was observed for Perchlorate, while a negative recovery was observed for Perchlorate-101. The acceptance range is 75-125%. 2. High recovery for Perchlorate-101 was observed in 1202063750 (MSD). The recovery was 140% and the acceptance range is 75-125%.		1. & 2. The outliers observed for the matrix spikes may be the result of the background concentration present in the parent sample, 248511001, and the need to dilute all at 1:5 prior to analysis.	

Originator's Name:
Charles Wilson 25-MAR-10

Data Validator/Group Leader:
Herbert Maier 26-MAR-10

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2194**

Sample Analysis

Sample ID	Client ID
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439
1202062393	Method Blank (MB) ICP
1202091941	Method Blank (MB) ICP
1202062394	Laboratory Control Sample (LCS)
1202091942	Laboratory Control Sample (LCS)
1202062397	248511001(RE36-10-7407L) Serial Dilution (SD)
1202062395	248511001(RE36-10-7407D) Sample Duplicate (DUP)
1202062396	248511001(RE36-10-7407S) Matrix Spike (MS)
1202062398	248511001(RE36-10-7407SD) Matrix Spike Duplicate (MSD)
1202062399	Method Blank (MB) ICP-MS

1202062400	Laboratory Control Sample (LCS)
1202062403	248511001(RE36-10-7407L) Serial Dilution (SD)
1202062401	248511001(RE36-10-7407D) Sample Duplicate (DUP)
1202062402	248511001(RE36-10-7407S) Matrix Spike (MS)
1202062404	248511001(RE36-10-7407SD) Matrix Spike Duplicate (MSD)
1202069773	Method Blank (MB) CVAA
1202069774	Laboratory Control Sample (LCS)
1202069777	248511001(RE36-10-7407L) Serial Dilution (SD)
1202069775	248511001(RE36-10-7407D) Sample Duplicate (DUP)
1202069776	248511001(RE36-10-7407S) Matrix Spike (MS)
1202069778	248511001(RE36-10-7407SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch: 961532, 973758, 961535 and 964746
Prep Batch : 961531, 973757, 961534 and 964745
Standard Operating Procedures: GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-009 REV# 20, 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 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-ICP was performed on a P E 7300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating

conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exception of uranium that recovered outside of the advisory control limits of 70-130%.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following sample was selected as the quality control (QC) sample for this SDG: 248511001 (RE36-10-7407)-ICP, ICP-MS and 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 barium, magnesium and potassium 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 barium, magnesium and potassium 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 iron as indicated by the "*" qualifier.

Duplicate Relative Percent Difference (RPD) Statement

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

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

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

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

Data exception reports 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 814412. 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: Nick Cole A. Elmore Date: 4-20-10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511001

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7407

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 77

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4260000	ug/Kg		8000	23500	23500	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-36-0	Antimony	1180	ug/Kg	U	388	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-38-2	Arsenic	1.7	mg/kg		0.248	1.24	1.24	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-39-3	Barium	48900	ug/Kg	N	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-41-7	Beryllium	0.644	mg/kg		0.0248	0.124	0.124	2	MS	PRB	04/18/10 12:38	100418-3	961535
7440-43-9	Cadmium	209	ug/Kg	J	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-70-2	Calcium	2570000	ug/Kg		9410	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-47-3	Chromium	7390	ug/Kg		176	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-48-4	Cobalt	1610	ug/Kg		176	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-50-8	Copper	4980	ug/Kg		353	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-89-6	Iron	7620000	ug/Kg	*	9410	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-92-1	Lead	7450	ug/Kg		294	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-95-4	Magnesium	997000	ug/Kg	N	10000	35300	35300	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-96-5	Manganese	368000	ug/Kg		235	1180	1180	1	P	HSC	03/31/10 15:46	033110A-1	961532
7439-97-6	Mercury	706	ug/kg		4.92	14.5	14.5	1	AV	JXL1	03/17/10 10:12	031710S1-5	964746
7440-02-0	Nickel	6	mg/kg		0.124	0.496	0.496	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-09-7	Potassium	1100000	ug/Kg	N	7530	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7782-49-2	Selenium	1.24	mg/kg	U	0.62	1.24	1.24	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-22-4	Silver	588	ug/Kg	U	118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-23-5	Sodium	54200	ug/Kg		8230	29400	29400	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-28-0	Thallium	0.102	mg/kg	J	0.0744	0.248	0.248	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-61-1	Uranium	1.07	mg/kg		0.0164	0.0496	0.0496	2	MS	BCD1	04/17/10 18:37	100417-4	961535
7440-62-2	Vanadium	7680	ug/Kg		118	588	588	1	P	HSC	03/31/10 15:46	033110A-1	961532
7440-66-6	Zinc	72800	ug/Kg		388	1180	1180	1	P	HSC	04/12/10 19:25	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.551	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.523	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.537	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.551	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511002

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7421

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 85

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5150000	ug/Kg		7850	23100	23100	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-36-0	Antimony	1160	ug/Kg	U	381	1160	1160	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-38-2	Arsenic	0.934	mg/kg	J	0.224	1.12	1.12	2	MS	BCD1	04/17/10 19:06	100417-4	961535
7440-39-3	Barium	69100	ug/Kg	N	116	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-41-7	Beryllium	0.378	mg/kg		0.0224	0.112	0.112	2	MS	PRB	04/18/10 12:52	100418-3	961535
7440-43-9	Cadmium	578	ug/Kg	U	116	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-70-2	Calcium	2500000	ug/Kg		9240	28900	28900	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-47-3	Chromium	13100	ug/Kg		173	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-48-4	Cobalt	2700	ug/Kg		173	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-50-8	Copper	7330	ug/Kg		347	1160	1160	1	P	HSC	03/31/10 15:55	033110A-1	961532
7439-89-6	Iron	8690000	ug/Kg	*	9240	28900	28900	1	P	HSC	03/31/10 15:55	033110A-1	961532
7439-92-1	Lead	13600	ug/Kg		289	1160	1160	1	P	HSC	03/31/10 15:55	033110A-1	961532
7439-95-4	Magnesium	1100000	ug/Kg	N	9820	34700	34700	1	P	HSC	03/31/10 15:55	033110A-1	961532
7439-96-5	Manganese	325000	ug/Kg		231	1160	1160	1	P	HSC	03/31/10 15:55	033110A-1	961532
7439-97-6	Mercury	27.6	ug/kg		4.68	13.8	13.8	1	AV	JXL1	03/17/10 10:22	031710S1-5	964746
7440-02-0	Nickel	4.28	mg/kg		0.112	0.448	0.448	2	MS	BCD1	04/17/10 19:06	100417-4	961535
7440-09-7	Potassium	867000	ug/Kg	N	7390	28900	28900	1	P	HSC	03/31/10 15:55	033110A-1	961532
7782-49-2	Selenium	1.12	mg/kg	U	0.56	1.12	1.12	2	MS	BCD1	04/17/10 19:06	100417-4	961535
7440-22-4	Silver	578	ug/Kg	U	116	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-23-5	Sodium	63900	ug/Kg		8090	28900	28900	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-28-0	Thallium	0.0726	mg/kg	J	0.0672	0.224	0.224	2	MS	BCD1	04/17/10 19:06	100417-4	961535
7440-61-1	Uranium	0.947	mg/kg		0.0148	0.0448	0.0448	2	MS	BCD1	04/17/10 19:06	100417-4	961535
7440-62-2	Vanadium	11500	ug/Kg		116	578	578	1	P	HSC	03/31/10 15:55	033110A-1	961532
7440-66-6	Zinc	42200	ug/Kg		369	1120	1120	1	P	HSC	04/12/10 20:00	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.509	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.525	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.513	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.526	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511003

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7422

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 94.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5990000	ug/Kg		7120	21000	21000	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-36-0	Antimony	1050	ug/Kg	U	346	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-38-2	Arsenic	1.35	mg/kg		0.209	1.05	1.05	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-39-3	Barium	40200	ug/Kg	N	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-41-7	Beryllium	0.443	mg/kg		0.0209	0.105	0.105	2	MS	PRB	04/18/10 12:54	100418-3	961535
7440-43-9	Cadmium	524	ug/Kg	U	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-70-2	Calcium	1160000	ug/Kg		8380	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-47-3	Chromium	12000	ug/Kg		157	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-48-4	Cobalt	2530	ug/Kg		157	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-50-8	Copper	3940	ug/Kg		314	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-89-6	Iron	10200000	ug/Kg	*	8380	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-92-1	Lead	6390	ug/Kg		262	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-95-4	Magnesium	1080000	ug/Kg	N	8900	31400	31400	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-96-5	Manganese	186000	ug/Kg		210	1050	1050	1	P	HSC	03/31/10 15:57	033110A-1	961532
7439-97-6	Mercury	15.6	ug/kg		3.87	11.4	11.4	1	AV	JXL1	03/17/10 10:24	031710S1-5	964746
7440-02-0	Nickel	3.71	mg/kg		0.105	0.418	0.418	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-09-7	Potassium	728000	ug/Kg	N	6700	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7782-49-2	Selenium	1.05	mg/kg	U	0.523	1.05	1.05	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-22-4	Silver	524	ug/Kg	U	105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-23-5	Sodium	72900	ug/Kg		7330	26200	26200	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-28-0	Thallium	0.209	mg/kg	U	0.0627	0.209	0.209	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-61-1	Uranium	0.542	mg/kg		0.0138	0.0418	0.0418	2	MS	BCD1	04/17/10 19:10	100417-4	961535
7440-62-2	Vanadium	12200	ug/Kg		105	524	524	1	P	HSC	03/31/10 15:57	033110A-1	961532
7440-66-6	Zinc	28000	ug/Kg		326	989	989	1	P	HSC	04/12/10 20:06	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.507	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.508	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.56	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.537	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511004

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7451

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 61

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8550000	ug/Kg		10700	31400	31400	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-36-0	Antimony	1570	ug/Kg	U	519	1570	1570	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-38-2	Arsenic	1.86	mg/kg		0.298	1.49	1.49	2	MS	BCD1	04/17/10 19:14	100417-4	961535
7440-39-3	Barium	169000	ug/Kg	N	157	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-41-7	Beryllium	0.492	mg/kg		0.0298	0.149	0.149	2	MS	PRB	04/18/10 12:56	100418-3	961535
7440-43-9	Cadmium	786	ug/Kg	U	157	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-70-2	Calcium	5230000	ug/Kg		12600	39300	39300	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-47-3	Chromium	21500	ug/Kg		236	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-48-4	Cobalt	4570	ug/Kg		236	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-50-8	Copper	8510	ug/Kg		472	1570	1570	1	P	HSC	03/31/10 16:04	033110A-1	961532
7439-89-6	Iron	11000000	ug/Kg	*	12600	39300	39300	1	P	HSC	03/31/10 16:04	033110A-1	961532
7439-92-1	Lead	13100	ug/Kg		393	1570	1570	1	P	HSC	03/31/10 16:04	033110A-1	961532
7439-95-4	Magnesium	1830000	ug/Kg	N	13400	47200	47200	1	P	HSC	03/31/10 16:04	033110A-1	961532
7439-96-5	Manganese	638000	ug/Kg		314	1570	1570	1	P	HSC	03/31/10 16:04	033110A-1	961532
7439-97-6	Mercury	38.1	ug/kg		6.55	19.3	19.3	1	AV	JXL1	03/17/10 10:26	031710S1-5	964746
7440-02-0	Nickel	6.33	mg/kg		0.149	0.596	0.596	2	MS	BCD1	04/17/10 19:14	100417-4	961535
7440-09-7	Potassium	1800000	ug/Kg	N	10100	39300	39300	1	P	HSC	03/31/10 16:04	033110A-1	961532
7782-49-2	Selenium	1.49	mg/kg	U	0.745	1.49	1.49	2	MS	BCD1	04/17/10 19:14	100417-4	961535
7440-22-4	Silver	786	ug/Kg	U	157	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-23-5	Sodium	68300	ug/Kg		11000	39300	39300	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-28-0	Thallium	0.0947	mg/kg	J	0.0894	0.298	0.298	2	MS	BCD1	04/17/10 19:14	100417-4	961535
7440-61-1	Uranium	1.46	mg/kg		0.0197	0.0596	0.0596	2	MS	BCD1	04/17/10 19:14	100417-4	961535
7440-62-2	Vanadium	17100	ug/Kg		157	786	786	1	P	HSC	03/31/10 16:04	033110A-1	961532
7440-66-6	Zinc	32900	ug/Kg		465	1410	1410	1	P	HSC	04/12/10 20:28	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.525	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.554	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.514	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.585	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511005

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7449

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6460000	ug/Kg		8030	23600	23600	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-36-0	Antimony	1180	ug/Kg	U	390	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-38-2	Arsenic	1.97	mg/kg		0.23	1.15	1.15	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-39-3	Barium	65500	ug/Kg	N	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-41-7	Beryllium	0.440	mg/kg		0.023	0.115	0.115	2	MS	PRB	04/18/10 12:59	100418-3	961535
7440-43-9	Cadmium	591	ug/Kg	U	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-70-2	Calcium	3400000	ug/Kg		9450	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-47-3	Chromium	6570	ug/Kg		177	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-48-4	Cobalt	2850	ug/Kg		177	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-50-8	Copper	4980	ug/Kg		354	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-89-6	Iron	10300000	ug/Kg	*	9450	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-92-1	Lead	7780	ug/Kg		295	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-95-4	Magnesium	1440000	ug/Kg	N	10000	35400	35400	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-96-5	Manganese	252000	ug/Kg		236	1180	1180	1	P	HSC	03/31/10 16:06	033110A-1	961532
7439-97-6	Mercury	24.4	ug/kg		4.93	14.5	14.5	1	AV	JXL1	03/17/10 10:28	031710S1-5	964746
7440-02-0	Nickel	4.36	mg/kg		0.115	0.46	0.46	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-09-7	Potassium	1210000	ug/Kg	N	7560	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-22-4	Silver	591	ug/Kg	U	118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-23-5	Sodium	54600	ug/Kg		8270	29500	29500	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-28-0	Thallium	0.0865	mg/kg	J	0.069	0.23	0.23	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-61-1	Uranium	1.01	mg/kg		0.0152	0.046	0.046	2	MS	BCD1	04/17/10 19:18	100417-4	961535
7440-62-2	Vanadium	17900	ug/Kg		118	591	591	1	P	HSC	03/31/10 16:06	033110A-1	961532
7440-66-6	Zinc	28600	ug/Kg		352	1070	1070	1	P	HSC	04/12/10 20:35	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.515	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.529	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.503	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.57	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511006

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7445

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 74

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5110000	ug/Kg		8620	25400	25400	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-36-0	Antimony	1270	ug/Kg	U	418	1270	1270	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-38-2	Arsenic	1.87	mg/kg		0.257	1.28	1.28	2	MS	BCD1	04/17/10 19:23	100417-4	961535
7440-39-3	Barium	71700	ug/Kg	N	127	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-41-7	Beryllium	0.447	mg/kg		0.0257	0.128	0.128	2	MS	PRB	04/18/10 13:01	100418-3	961535
7440-43-9	Cadmium	149	ug/Kg	J	127	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-70-2	Calcium	3320000	ug/Kg		10100	31700	31700	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-47-3	Chromium	13200	ug/Kg		190	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-48-4	Cobalt	2390	ug/Kg		190	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-50-8	Copper	6990	ug/Kg		380	1270	1270	1	P	HSC	03/31/10 16:08	033110A-1	961532
7439-89-6	Iron	9680000	ug/Kg	*	10100	31700	31700	1	P	HSC	03/31/10 16:08	033110A-1	961532
7439-92-1	Lead	11500	ug/Kg		317	1270	1270	1	P	HSC	03/31/10 16:08	033110A-1	961532
7439-95-4	Magnesium	1210000	ug/Kg	N	10800	38000	38000	1	P	HSC	03/31/10 16:08	033110A-1	961532
7439-96-5	Manganese	692000	ug/Kg		254	1270	1270	1	P	HSC	03/31/10 16:08	033110A-1	961532
7439-97-6	Mercury	199	ug/kg		5.3	15.6	15.6	1	AV	JXL1	03/17/10 10:34	031710S1-5	964746
7440-02-0	Nickel	4.98	mg/kg		0.128	0.514	0.514	2	MS	BCD1	04/17/10 19:23	100417-4	961535
7440-09-7	Potassium	1120000	ug/Kg	N	8120	31700	31700	1	P	HSC	03/31/10 16:08	033110A-1	961532
7782-49-2	Selenium	1.28	mg/kg	U	0.642	1.28	1.28	2	MS	BCD1	04/17/10 19:23	100417-4	961535
7440-22-4	Silver	634	ug/Kg	U	127	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-23-5	Sodium	91400	ug/Kg		8880	31700	31700	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-28-0	Thallium	0.257	mg/kg	U	0.0771	0.257	0.257	2	MS	BCD1	04/17/10 19:23	100417-4	961535
7440-61-1	Uranium	1.34	mg/kg		0.017	0.0514	0.0514	2	MS	BCD1	04/17/10 19:23	100417-4	961535
7440-62-2	Vanadium	10500	ug/Kg		127	634	634	1	P	HSC	03/31/10 16:08	033110A-1	961532
7440-66-6	Zinc	53700	ug/Kg		405	1230	1230	1	P	HSC	04/12/10 20:42	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.53	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.523	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.548	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511007

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7450

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 90.1

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9290000	ug/Kg		7470	22000	22000	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-36-0	Antimony	1100	ug/Kg	U	363	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-38-2	Arsenic	1.94	mg/kg		0.204	1.02	1.02	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-39-3	Barium	53800	ug/Kg	N	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-41-7	Beryllium	0.397	mg/kg		0.0204	0.102	0.102	2	MS	PRB	04/18/10 13:03	100418-3	961535
7440-43-9	Cadmium	549	ug/Kg	U	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-70-2	Calcium	1620000	ug/Kg		8790	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-47-3	Chromium	10400	ug/Kg		165	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-48-4	Cobalt	3600	ug/Kg		165	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-50-8	Copper	5210	ug/Kg		330	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-89-6	Iron	13400000	ug/Kg	*	8790	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-92-1	Lead	8880	ug/Kg		275	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-95-4	Magnesium	1880000	ug/Kg	N	9340	33000	33000	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-96-5	Manganese	188000	ug/Kg		220	1100	1100	1	P	HSC	03/31/10 16:10	033110A-1	961532
7439-97-6	Mercury	8.55	ug/kg	J	4.38	12.9	12.9	1	AV	JXL1	03/17/10 10:36	031710S1-5	964746
7440-02-0	Nickel	4.03	mg/kg		0.102	0.409	0.409	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-09-7	Potassium	1400000	ug/Kg	N	7030	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7782-49-2	Selenium	1.02	mg/kg	U	0.511	1.02	1.02	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-22-4	Silver	549	ug/Kg	U	110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-23-5	Sodium	105000	ug/Kg		7690	27500	27500	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-28-0	Thallium	0.0817	mg/kg	J	0.0613	0.204	0.204	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-61-1	Uranium	0.628	mg/kg		0.0135	0.0409	0.0409	2	MS	BCD1	04/17/10 19:27	100417-4	961535
7440-62-2	Vanadium	23100	ug/Kg		110	549	549	1	P	HSC	03/31/10 16:10	033110A-1	961532
7440-66-6	Zinc	33200	ug/Kg		329	998	998	1	P	HSC	04/12/10 20:49	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.505	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.543	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.517	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.556	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511008

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7444

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9660000	ug/Kg		8110	23800	23800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-36-0	Antimony	1190	ug/Kg	U	393	1190	1190	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-38-2	Arsenic	1.88	mg/kg		0.239	1.2	1.2	2	MS	BCD1	04/17/10 19:31	100417-4	961535
7440-39-3	Barium	109000	ug/Kg	N	119	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-41-7	Beryllium	0.449	mg/kg		0.0239	0.12	0.12	2	MS	PRB	04/18/10 13:05	100418-3	961535
7440-43-9	Cadmium	596	ug/Kg	U	119	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-70-2	Calcium	2620000	ug/Kg		9540	29800	29800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-47-3	Chromium	32700	ug/Kg		179	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-48-4	Cobalt	11300	ug/Kg		179	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-50-8	Copper	7830	ug/Kg		358	1190	1190	1	P	HSC	03/31/10 16:12	033110A-1	961532
7439-89-6	Iron	13900000	ug/Kg	*	9540	29800	29800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7439-92-1	Lead	14000	ug/Kg		298	1190	1190	1	P	HSC	03/31/10 16:12	033110A-1	961532
7439-95-4	Magnesium	2010000	ug/Kg	N	10100	35800	35800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7439-96-5	Manganese	470000	ug/Kg		238	1190	1190	1	P	HSC	03/31/10 16:12	033110A-1	961532
7439-97-6	Mercury	26	ug/kg		4.89	14.4	14.4	1	AV	JXL1	03/17/10 10:38	031710S1-5	964746
7440-02-0	Nickel	5.79	mg/kg		0.12	0.479	0.479	2	MS	BCD1	04/17/10 19:31	100417-4	961535
7440-09-7	Potassium	1650000	ug/Kg	N	7630	29800	29800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7782-49-2	Selenium	1.2	mg/kg	U	0.598	1.2	1.2	2	MS	BCD1	04/17/10 19:31	100417-4	961535
7440-22-4	Silver	596	ug/Kg	U	119	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-23-5	Sodium	94800	ug/Kg		8350	29800	29800	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-28-0	Thallium	0.0893	mg/kg	J	0.0718	0.239	0.239	2	MS	BCD1	04/17/10 19:31	100417-4	961535
7440-61-1	Uranium	0.981	mg/kg		0.0158	0.0479	0.0479	2	MS	BCD1	04/17/10 19:31	100417-4	961535
7440-62-2	Vanadium	25400	ug/Kg		119	596	596	1	P	HSC	03/31/10 16:12	033110A-1	961532
7440-66-6	Zinc	33800	ug/Kg		400	1210	1210	1	P	HSC	04/12/10 20:56	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.528	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.526	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.525	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.52	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511009

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7448

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 83

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6690000	ug/Kg		8190	24100	24100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-36-0	Antimony	1200	ug/Kg	U	398	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-38-2	Arsenic	1.46	mg/kg		0.24	1.2	1.2	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-39-3	Barium	73100	ug/Kg	N	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-41-7	Beryllium	0.514	mg/kg		0.024	0.12	0.12	2	MS	PRB	04/18/10 13:07	100418-3	961535
7440-43-9	Cadmium	602	ug/Kg	U	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-70-2	Calcium	3650000	ug/Kg		9640	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-47-3	Chromium	14800	ug/Kg		181	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-48-4	Cobalt	3110	ug/Kg		181	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-50-8	Copper	5510	ug/Kg		361	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-89-6	Iron	11300000	ug/Kg	*	9640	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-92-1	Lead	8030	ug/Kg		301	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-95-4	Magnesium	1380000	ug/Kg	N	10200	36100	36100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-96-5	Manganese	297000	ug/Kg		241	1200	1200	1	P	HSC	03/31/10 16:14	033110A-1	961532
7439-97-6	Mercury	8.13	ug/kg	J	4.66	13.7	13.7	1	AV	JXL1	03/17/10 10:40	031710S1-5	964746
7440-02-0	Nickel	4.93	mg/kg		0.12	0.479	0.479	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-09-7	Potassium	1710000	ug/Kg	N	7710	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7782-49-2	Selenium	1.2	mg/kg	U	0.599	1.2	1.2	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-22-4	Silver	602	ug/Kg	U	120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-23-5	Sodium	62300	ug/Kg		8430	30100	30100	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-28-0	Thallium	0.240	mg/kg	U	0.0719	0.24	0.24	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-61-1	Uranium	0.756	mg/kg		0.0158	0.0479	0.0479	2	MS	BCD1	04/17/10 19:35	100417-4	961535
7440-62-2	Vanadium	14000	ug/Kg		120	602	602	1	P	HSC	03/31/10 16:14	033110A-1	961532
7440-66-6	Zinc	46900	ug/Kg		378	1150	1150	1	P	HSC	04/12/10 21:03	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.503	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.506	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.531	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.529	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511010

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7447

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 71

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4780000	ug/Kg		8510	25000	25000	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-36-0	Antimony	1250	ug/Kg	U	413	1250	1250	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-38-2	Arsenic	1.79	mg/kg		0.279	1.4	1.4	2	MS	BCD1	04/17/10 19:39	100417-4	961535
7440-39-3	Barium	108000	ug/Kg	N	125	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-41-7	Beryllium	0.553	mg/kg		0.0279	0.14	0.14	2	MS	PRB	04/18/10 13:09	100418-3	961535
7440-43-9	Cadmium	626	ug/Kg	U	125	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-70-2	Calcium	5420000	ug/Kg		10000	31300	31300	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-47-3	Chromium	8810	ug/Kg		188	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-48-4	Cobalt	2280	ug/Kg		188	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-50-8	Copper	6400	ug/Kg		375	1250	1250	1	P	HSC	03/31/10 16:16	033110A-1	961532
7439-89-6	Iron	7830000	ug/Kg	*	10000	31300	31300	1	P	HSC	03/31/10 16:16	033110A-1	961532
7439-92-1	Lead	7790	ug/Kg		313	1250	1250	1	P	HSC	03/31/10 16:16	033110A-1	961532
7439-95-4	Magnesium	1220000	ug/Kg	N	10600	37500	37500	1	P	HSC	03/31/10 16:16	033110A-1	961532
7439-96-5	Manganese	419000	ug/Kg		250	1250	1250	1	P	HSC	03/31/10 16:16	033110A-1	961532
7439-97-6	Mercury	23.1	ug/kg		4.84	14.2	14.2	1	AV	JXLI	03/17/10 10:42	031710S1-5	964746
7440-02-0	Nickel	6.56	mg/kg		0.14	0.558	0.558	2	MS	BCD1	04/17/10 19:39	100417-4	961535
7440-09-7	Potassium	1490000	ug/Kg	N	8010	31300	31300	1	P	HSC	03/31/10 16:16	033110A-1	961532
7782-49-2	Selenium	1.4	mg/kg	U	0.698	1.4	1.4	2	MS	BCD1	04/17/10 19:39	100417-4	961535
7440-22-4	Silver	626	ug/Kg	U	125	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-23-5	Sodium	43600	ug/Kg		8760	31300	31300	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-28-0	Thallium	0.279	mg/kg	U	0.0838	0.279	0.279	2	MS	BCD1	04/17/10 19:39	100417-4	961535
7440-61-1	Uranium	1.31	mg/kg		0.0184	0.0558	0.0558	2	MS	BCD1	04/17/10 19:39	100417-4	961535
7440-62-2	Vanadium	10100	ug/Kg		125	626	626	1	P	HSC	03/31/10 16:16	033110A-1	961532
7440-66-6	Zinc	45300	ug/Kg		443	1340	1340	1	P	HSC	04/12/10 21:10	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.559	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.501	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.589	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.521	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511011

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7443

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8390000	ug/Kg		8750	25700	25700	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-36-0	Antimony	1290	ug/Kg	U	425	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-38-2	Arsenic	1.87	mg/kg		0.257	1.28	1.28	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-39-3	Barium	88200	ug/Kg	N	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-41-7	Beryllium	0.474	mg/kg		0.0257	0.128	0.128	2	MS	PRB	04/18/10 13:15	100418-3	961535
7440-43-9	Cadmium	643	ug/Kg	U	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-70-2	Calcium	2640000	ug/Kg		10300	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-47-3	Chromium	14500	ug/Kg		193	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-48-4	Cobalt	4110	ug/Kg		193	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-50-8	Copper	7460	ug/Kg		386	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-89-6	Iron	12300000	ug/Kg	*	10300	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-92-1	Lead	13000	ug/Kg		322	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-95-4	Magnesium	1740000	ug/Kg	N	10900	38600	38600	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-96-5	Manganese	290000	ug/Kg		257	1290	1290	1	P	HSC	03/31/10 16:18	033110A-1	961532
7439-97-6	Mercury	24.4	ug/kg		4.64	13.6	13.6	1	AV	JXL1	03/17/10 10:44	031710S1-5	964746
7440-02-0	Nickel	5.57	mg/kg		0.128	0.514	0.514	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-09-7	Potassium	1640000	ug/Kg	N	8230	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7782-49-2	Selenium	1.28	mg/kg	U	0.642	1.28	1.28	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-22-4	Silver	643	ug/Kg	U	129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-23-5	Sodium	65800	ug/Kg		9010	32200	32200	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-28-0	Thallium	0.0922	mg/kg	J	0.077	0.257	0.257	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-61-1	Uranium	1.53	mg/kg		0.0169	0.0514	0.0514	2	MS	BCD1	04/17/10 19:43	100417-4	961535
7440-62-2	Vanadium	20300	ug/Kg		129	643	643	1	P	HSC	03/31/10 16:18	033110A-1	961532
7440-66-6	Zinc	35100	ug/Kg		403	1220	1220	1	P	HSC	04/12/10 21:17	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.519	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.52	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.587	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.547	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511012

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7452

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 75

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8310000	ug/Kg		8320	24500	24500	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-36-0	Antimony	1220	ug/Kg	U	404	1220	1220	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-38-2	Arsenic	1.57	mg/kg		0.263	1.32	1.32	2	MS	BCD1	04/17/10 19:56	100417-4	961535
7440-39-3	Barium	144000	ug/Kg	N	122	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-41-7	Beryllium	0.573	mg/kg		0.0263	0.132	0.132	2	MS	PRB	04/18/10 13:17	100418-3	961535
7440-43-9	Cadmium	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-70-2	Calcium	3750000	ug/Kg		9790	30600	30600	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-47-3	Chromium	23200	ug/Kg		183	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-48-4	Cobalt	4370	ug/Kg		183	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-50-8	Copper	7450	ug/Kg		367	1220	1220	1	P	HSC	03/31/10 16:21	033110A-1	961532
7439-89-6	Iron	11400000	ug/Kg	*	9790	30600	30600	1	P	HSC	03/31/10 16:21	033110A-1	961532
7439-92-1	Lead	11900	ug/Kg		306	1220	1220	1	P	HSC	03/31/10 16:21	033110A-1	961532
7439-95-4	Magnesium	1600000	ug/Kg	N	10400	36700	36700	1	P	HSC	03/31/10 16:21	033110A-1	961532
7439-96-5	Manganese	564000	ug/Kg		245	1220	1220	1	P	HSC	03/31/10 16:21	033110A-1	961532
7439-97-6	Mercury	11.3	ug/kg	J	5.19	15.3	15.3	1	AV	JXL1	03/17/10 10:46	031710S1-5	964746
7440-02-0	Nickel	6.83	mg/kg		0.132	0.526	0.526	2	MS	BCD1	04/17/10 19:56	100417-4	961535
7440-09-7	Potassium	1650000	ug/Kg	N	7830	30600	30600	1	P	HSC	03/31/10 16:21	033110A-1	961532
7782-49-2	Selenium	1.32	mg/kg	U	0.658	1.32	1.32	2	MS	BCD1	04/17/10 19:56	100417-4	961535
7440-22-4	Silver	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-23-5	Sodium	87600	ug/Kg		8560	30600	30600	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-28-0	Thallium	0.0965	mg/kg	J	0.0789	0.263	0.263	2	MS	BCD1	04/17/10 19:56	100417-4	961535
7440-61-1	Uranium	1.09	mg/kg		0.0174	0.0526	0.0526	2	MS	BCD1	04/17/10 19:56	100417-4	961535
7440-62-2	Vanadium	17000	ug/Kg		122	612	612	1	P	HSC	03/31/10 16:21	033110A-1	961532
7440-66-6	Zinc	33300	ug/Kg		432	1310	1310	1	P	HSC	04/12/10 21:24	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.544	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.506	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.523	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.508	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511013

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7437

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 84

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4380000	ug/Kg		7580	22300	22300	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-36-0	Antimony	1110	ug/Kg	U	368	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-38-2	Arsenic	1.22	mg/kg		0.236	1.18	1.18	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-39-3	Barium	46900	ug/Kg	N	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-41-7	Beryllium	0.495	mg/kg		0.0236	0.118	0.118	2	MS	PRB	04/18/10 13:19	100418-3	961535
7440-43-9	Cadmium	557	ug/Kg	U	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-70-2	Calcium	2500000	ug/Kg		8910	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-47-3	Chromium	4070	ug/Kg		167	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-48-4	Cobalt	1610	ug/Kg		167	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-50-8	Copper	4060	ug/Kg		334	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-89-6	Iron	7080000	ug/Kg	*	8910	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-92-1	Lead	6850	ug/Kg		279	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-95-4	Magnesium	985000	ug/Kg	N	9470	33400	33400	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-96-5	Manganese	441000	ug/Kg		223	1110	1110	1	P	HSC	03/31/10 16:28	033110A-1	961532
7439-97-6	Mercury	99.3	ug/kg		4.51	13.3	13.3	1	AV	JXL1	03/17/10 10:48	031710S1-5	964746
7440-02-0	Nickel	4.71	mg/kg		0.118	0.471	0.471	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-09-7	Potassium	890000	ug/Kg	N	7130	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7782-49-2	Selenium	1.18	mg/kg	U	0.589	1.18	1.18	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-22-4	Silver	557	ug/Kg	U	111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-23-5	Sodium	46800	ug/Kg		7800	27900	27900	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-28-0	Thallium	0.236	mg/kg	U	0.0707	0.236	0.236	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-61-1	Uranium	1.96	mg/kg		0.0155	0.0471	0.0471	2	MS	BCD1	04/17/10 20:00	100417-4	961535
7440-62-2	Vanadium	7560	ug/Kg		111	557	557	1	P	HSC	03/31/10 16:28	033110A-1	961532
7440-66-6	Zinc	34600	ug/Kg		367	1110	1110	1	P	HSC	04/12/10 21:45	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.536	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.507	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.54	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.537	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511014

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7440

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 91.9

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	5410000	ug/Kg		7000	20600	20600	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-36-0	Antimony	1030	ug/Kg	U	340	1030	1030	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-38-2	Arsenic	1.21	mg/kg		0.212	1.06	1.06	2	MS	BCD1	04/17/10 20:04	100417-4	961535
7440-39-3	Barium	44800	ug/Kg	N	103	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-41-7	Beryllium	0.488	mg/kg		0.0212	0.106	0.106	2	MS	PRB	04/18/10 13:21	100418-3	961535
7440-43-9	Cadmium	514	ug/Kg	U	103	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-70-2	Calcium	1580000	ug/Kg		8230	25700	25700	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-47-3	Chromium	11700	ug/Kg		154	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-48-4	Cobalt	2150	ug/Kg		154	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-50-8	Copper	3900	ug/Kg		309	1030	1030	1	P	HSC	03/31/10 16:30	033110A-1	961532
7439-89-6	Iron	9260000	ug/Kg	*	8230	25700	25700	1	P	HSC	03/31/10 16:30	033110A-1	961532
7439-92-1	Lead	6630	ug/Kg		257	1030	1030	1	P	HSC	03/31/10 16:30	033110A-1	961532
7439-95-4	Magnesium	1100000	ug/Kg	N	8750	30900	30900	1	P	HSC	03/31/10 16:30	033110A-1	961532
7439-96-5	Manganese	301000	ug/Kg		206	1030	1030	1	P	HSC	03/31/10 16:30	033110A-1	961532
7439-97-6	Mercury	7.58	ug/kg	J	4.29	12.6	12.6	1	AV	JXL1	03/17/10 10:50	031710S1-5	964746
7440-02-0	Nickel	3.37	mg/kg		0.106	0.424	0.424	2	MS	BCD1	04/17/10 20:04	100417-4	961535
7440-09-7	Potassium	871000	ug/Kg	N	6580	25700	25700	1	P	HSC	03/31/10 16:30	033110A-1	961532
7782-49-2	Selenium	1.06	mg/kg	U	0.53	1.06	1.06	2	MS	BCD1	04/17/10 20:04	100417-4	961535
7440-22-4	Silver	514	ug/Kg	U	103	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-23-5	Sodium	69600	ug/Kg		7200	25700	25700	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-28-0	Thallium	0.212	mg/kg	U	0.0637	0.212	0.212	2	MS	BCD1	04/17/10 20:04	100417-4	961535
7440-61-1	Uranium	0.558	mg/kg		0.014	0.0424	0.0424	2	MS	BCD1	04/17/10 20:04	100417-4	961535
7440-62-2	Vanadium	9360	ug/Kg		103	514	514	1	P	HSC	03/31/10 16:30	033110A-1	961532
7440-66-6	Zinc	37300	ug/Kg		321	972	972	1	P	HSC	04/12/10 21:52	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.529	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.513	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.518	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.56	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511015

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7435

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 70

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8310000	ug/Kg		9700	28500	28500	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-36-0	Antimony	1430	ug/Kg	U	471	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-38-2	Arsenic	1.77	mg/kg		0.265	1.33	1.33	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-39-3	Barium	77700	ug/Kg	N	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-41-7	Beryllium	0.755	mg/kg		0.0265	0.133	0.133	2	MS	PRB	04/18/10 13:23	100418-3	961535
7440-43-9	Cadmium	713	ug/Kg	U	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-70-2	Calcium	3710000	ug/Kg		11400	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-47-3	Chromium	9240	ug/Kg		214	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-48-4	Cobalt	2760	ug/Kg		214	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-50-8	Copper	6820	ug/Kg		428	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-89-6	Iron	10600000	ug/Kg	*	11400	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-92-1	Lead	11400	ug/Kg		356	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-95-4	Magnesium	1620000	ug/Kg	N	12100	42800	42800	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-96-5	Manganese	646000	ug/Kg		285	1430	1430	1	P	HSC	03/31/10 16:32	033110A-1	961532
7439-97-6	Mercury	52.3	ug/kg		4.87	14.3	14.3	1	AV	JXL1	03/17/10 10:52	031710S1-5	964746
7440-02-0	Nickel	6.84	mg/kg		0.133	0.53	0.53	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-09-7	Potassium	1450000	ug/Kg	N	9130	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7782-49-2	Selenium	1.33	mg/kg	U	0.663	1.33	1.33	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-22-4	Silver	713	ug/Kg	U	143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-23-5	Sodium	62800	ug/Kg		9980	35600	35600	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-28-0	Thallium	0.0867	mg/kg	J	0.0795	0.265	0.265	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-61-1	Uranium	1.54	mg/kg		0.0175	0.053	0.053	2	MS	BCD1	04/17/10 20:08	100417-4	961535
7440-62-2	Vanadium	13500	ug/Kg		143	713	713	1	P	HSC	03/31/10 16:32	033110A-1	961532
7440-66-6	Zinc	40000	ug/Kg		423	1280	1280	1	P	HSC	04/12/10 22:00	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.502	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.54	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.6	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.558	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511016

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7441

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4650000	ug/Kg		8330	24500	24500	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-36-0	Antimony	1220	ug/Kg	U	404	1220	1220	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-38-2	Arsenic	1.79	mg/kg		0.233	1.16	1.16	2	MS	BCD1	04/17/10 20:13	100417-4	961535
7440-39-3	Barium	52000	ug/Kg	N	122	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-41-7	Beryllium	0.644	mg/kg		0.0233	0.116	0.116	2	MS	PRB	04/18/10 13:25	100418-3	961535
7440-43-9	Cadmium	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-70-2	Calcium	2260000	ug/Kg		9800	30600	30600	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-47-3	Chromium	5390	ug/Kg		184	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-48-4	Cobalt	1830	ug/Kg		184	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-50-8	Copper	4130	ug/Kg		367	1220	1220	1	P	HSC	03/31/10 16:34	033110A-1	961532
7439-89-6	Iron	8000000	ug/Kg	*	9800	30600	30600	1	P	HSC	03/31/10 16:34	033110A-1	961532
7439-92-1	Lead	9470	ug/Kg		306	1220	1220	1	P	HSC	03/31/10 16:34	033110A-1	961532
7439-95-4	Magnesium	970000	ug/Kg	N	10400	36700	36700	1	P	HSC	03/31/10 16:34	033110A-1	961532
7439-96-5	Manganese	465000	ug/Kg		245	1220	1220	1	P	HSC	03/31/10 16:34	033110A-1	961532
7439-97-6	Mercury	109	ug/kg		4.6	13.5	13.5	1	AV	JXL1	03/17/10 10:58	031710S1-5	964746
7440-02-0	Nickel	5.15	mg/kg		0.116	0.466	0.466	2	MS	BCD1	04/17/10 20:13	100417-4	961535
7440-09-7	Potassium	913000	ug/Kg	N	7840	30600	30600	1	P	HSC	03/31/10 16:34	033110A-1	961532
7782-49-2	Selenium	1.16	mg/kg	U	0.582	1.16	1.16	2	MS	BCD1	04/17/10 20:13	100417-4	961535
7440-22-4	Silver	612	ug/Kg	U	122	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-23-5	Sodium	45600	ug/Kg		8570	30600	30600	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-28-0	Thallium	0.0818	mg/kg	J	0.0699	0.233	0.233	2	MS	BCD1	04/17/10 20:13	100417-4	961535
7440-61-1	Uranium	2.68	mg/kg		0.0154	0.0466	0.0466	2	MS	BCD1	04/17/10 20:13	100417-4	961535
7440-62-2	Vanadium	8680	ug/Kg		122	612	612	1	P	HSC	03/31/10 16:34	033110A-1	961532
7440-66-6	Zinc	40400	ug/Kg		403	1220	1220	1	P	HSC	04/12/10 22:07	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.526	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.553	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.571	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.528	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511017

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7442

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4900000	ug/Kg		7330	21500	21500	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-36-0	Antimony	1080	ug/Kg	U	356	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-38-2	Arsenic	1.63	mg/kg		0.231	1.15	1.15	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-39-3	Barium	30800	ug/Kg	N	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-41-7	Beryllium	0.542	mg/kg		0.0231	0.115	0.115	2	MS	PRB	04/18/10 13:27	100418-3	961535
7440-43-9	Cadmium	539	ug/Kg	U	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-70-2	Calcium	1330000	ug/Kg		8620	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-47-3	Chromium	12600	ug/Kg		162	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-48-4	Cobalt	1830	ug/Kg		162	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-50-8	Copper	3420	ug/Kg		323	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-89-6	Iron	9420000	ug/Kg	*	8620	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-92-1	Lead	6530	ug/Kg		269	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-95-4	Magnesium	828000	ug/Kg	N	9160	32300	32300	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-96-5	Manganese	245000	ug/Kg		215	1080	1080	1	P	HSC	03/31/10 16:36	033110A-1	961532
7439-97-6	Mercury	16	ug/kg		4.7	13.8	13.8	1	AV	JXL1	03/17/10 11:00	031710S1-5	964746
7440-02-0	Nickel	3.31	mg/kg		0.115	0.461	0.461	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-09-7	Potassium	752000	ug/Kg	N	6900	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7782-49-2	Selenium	1.15	mg/kg	U	0.576	1.15	1.15	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-22-4	Silver	539	ug/Kg	U	108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-23-5	Sodium	72200	ug/Kg		7540	26900	26900	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-28-0	Thallium	0.231	mg/kg	U	0.0692	0.231	0.231	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-61-1	Uranium	0.801	mg/kg		0.0152	0.0461	0.0461	2	MS	BCD1	04/17/10 20:17	100417-4	961535
7440-62-2	Vanadium	9400	ug/Kg		108	539	539	1	P	HSC	03/31/10 16:36	033110A-1	961532
7440-66-6	Zinc	39000	ug/Kg		378	1150	1150	1	P	HSC	04/12/10 22:14	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.535	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.5	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.503	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511018

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7436

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 79

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9450000	ug/Kg		8430	24800	24800	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-36-0	Antimony	1240	ug/Kg	U	409	1240	1240	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-38-2	Arsenic	2.58	mg/kg		0.245	1.22	1.22	2	MS	BCD1	04/17/10 20:21	100417-4	961535
7440-39-3	Barium	33900	ug/Kg	N	124	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-41-7	Beryllium	0.90	mg/kg		0.0245	0.122	0.122	2	MS	PRB	04/18/10 13:29	100418-3	961535
7440-43-9	Cadmium	620	ug/Kg	U	124	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-70-2	Calcium	2060000	ug/Kg		9910	31000	31000	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-47-3	Chromium	17700	ug/Kg		186	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-48-4	Cobalt	2030	ug/Kg		186	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-50-8	Copper	5410	ug/Kg		372	1240	1240	1	P	HSC	03/31/10 16:38	033110A-1	961532
7439-89-6	Iron	11900000	ug/Kg	*	9910	31000	31000	1	P	HSC	03/31/10 16:38	033110A-1	961532
7439-92-1	Lead	8800	ug/Kg		310	1240	1240	1	P	HSC	03/31/10 16:38	033110A-1	961532
7439-95-4	Magnesium	1600000	ug/Kg	N	10500	37200	37200	1	P	HSC	03/31/10 16:38	033110A-1	961532
7439-96-5	Manganese	216000	ug/Kg		248	1240	1240	1	P	HSC	03/31/10 16:38	033110A-1	961532
7439-97-6	Mercury	36.1	ug/kg		4.93	14.5	14.5	1	AV	JXL1	03/17/10 11:02	031710S1-5	964746
7440-02-0	Nickel	5.99	mg/kg		0.122	0.49	0.49	2	MS	BCD1	04/17/10 20:21	100417-4	961535
7440-09-7	Potassium	1190000	ug/Kg	N	7930	31000	31000	1	P	HSC	03/31/10 16:38	033110A-1	961532
7782-49-2	Selenium	1.22	mg/kg	U	0.612	1.22	1.22	2	MS	BCD1	04/17/10 20:21	100417-4	961535
7440-22-4	Silver	620	ug/Kg	U	124	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-23-5	Sodium	63200	ug/Kg		8670	31000	31000	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-28-0	Thallium	0.085	mg/kg	J	0.0735	0.245	0.245	2	MS	BCD1	04/17/10 20:21	100417-4	961535
7440-61-1	Uranium	0.876	mg/kg		0.0162	0.049	0.049	2	MS	BCD1	04/17/10 20:21	100417-4	961535
7440-62-2	Vanadium	13400	ug/Kg		124	620	620	1	P	HSC	03/31/10 16:38	033110A-1	961532
7440-66-6	Zinc	38900	ug/Kg		416	1260	1260	1	P	HSC	04/12/10 22:21	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.513	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.519	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.526	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.504	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511019

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7438

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 94.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4360000	ug/Kg		6730	19800	19800	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-36-0	Antimony	989	ug/Kg	U	326	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-38-2	Arsenic	1.23	mg/kg		0.204	1.02	1.02	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-39-3	Barium	15500	ug/Kg	N	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-41-7	Beryllium	0.335	mg/kg		0.0204	0.102	0.102	2	MS	PRB	04/18/10 13:31	100418-3	961535
7440-43-9	Cadmium	495	ug/Kg	U	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-70-2	Calcium	958000	ug/Kg		7910	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-47-3	Chromium	12200	ug/Kg		148	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-48-4	Cobalt	1440	ug/Kg		148	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-50-8	Copper	2820	ug/Kg		297	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-89-6	Iron	9160000	ug/Kg	*	7910	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-92-1	Lead	4410	ug/Kg		247	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-95-4	Magnesium	745000	ug/Kg	N	8410	29700	29700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-96-5	Manganese	165000	ug/Kg		198	989	989	1	P	HSC	03/31/10 16:40	033110A-1	961532
7439-97-6	Mercury	12.5	ug/kg	U	4.26	12.5	12.5	1	AV	JXL1	03/17/10 11:04	031710S1-5	964746
7440-02-0	Nickel	2.6	mg/kg		0.102	0.409	0.409	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-09-7	Potassium	519000	ug/Kg	N	6330	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7782-49-2	Selenium	1.02	mg/kg	U	0.511	1.02	1.02	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-22-4	Silver	495	ug/Kg	U	98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-23-5	Sodium	62000	ug/Kg		6920	24700	24700	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-28-0	Thallium	0.204	mg/kg	U	0.0613	0.204	0.204	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-61-1	Uranium	0.494	mg/kg		0.0135	0.0409	0.0409	2	MS	BCD1	04/17/10 20:25	100417-4	961535
7440-62-2	Vanadium	7700	ug/Kg		98.9	495	495	1	P	HSC	03/31/10 16:40	033110A-1	961532
7440-66-6	Zinc	40200	ug/Kg		335	1010	1010	1	P	HSC	04/12/10 22:27	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.534	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.517	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.506	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.521	g	50	mL	04/12/10	AXG2

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-2194

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 248511020

BASIS: Dry Weight

DATE COLLECTED 25-FEB-10

CLIENT ID: RE36-10-7439

LEVEL: Low

DATE RECEIVED 03-MAR-10

MATRIX: SOIL

%SOLIDS: 82

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6640000	ug/Kg		8060	23700	23700	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-36-0	Antimony	1190	ug/Kg	U	391	1190	1190	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-38-2	Arsenic	1.44	mg/kg		0.244	1.22	1.22	2	MS	BCD1	04/17/10 20:29	100417-4	961535
7440-39-3	Barium	76600	ug/Kg	N	119	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-41-7	Beryllium	0.519	mg/kg		0.0244	0.122	0.122	2	MS	PRB	04/18/10 13:33	100418-3	961535
7440-43-9	Cadmium	593	ug/Kg	U	119	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-70-2	Calcium	2840000	ug/Kg		9480	29600	29600	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-47-3	Chromium	5710	ug/Kg		178	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-48-4	Cobalt	2740	ug/Kg		178	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-50-8	Copper	6090	ug/Kg		356	1190	1190	1	P	HSC	03/31/10 16:42	033110A-1	961532
7439-89-6	Iron	10200000	ug/Kg	*	9480	29600	29600	1	P	HSC	03/31/10 16:42	033110A-1	961532
7439-92-1	Lead	14000	ug/Kg		296	1190	1190	1	P	HSC	03/31/10 16:42	033110A-1	961532
7439-95-4	Magnesium	1410000	ug/Kg	N	10100	35600	35600	1	P	HSC	03/31/10 16:42	033110A-1	961532
7439-96-5	Manganese	655000	ug/Kg		237	1190	1190	1	P	HSC	03/31/10 16:42	033110A-1	961532
7439-97-6	Mercury	40.2	ug/kg		4.98	14.6	14.6	1	AV	JXL1	03/17/10 11:06	031710S1-5	964746
7440-02-0	Nickel	4.44	mg/kg		0.122	0.488	0.488	2	MS	BCD1	04/17/10 20:29	100417-4	961535
7440-09-7	Potassium	1320000	ug/Kg	N	7590	29600	29600	1	P	HSC	03/31/10 16:42	033110A-1	961532
7782-49-2	Selenium	1.22	mg/kg	U	0.61	1.22	1.22	2	MS	BCD1	04/17/10 20:29	100417-4	961535
7440-22-4	Silver	593	ug/Kg	U	119	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-23-5	Sodium	75600	ug/Kg		8300	29600	29600	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-28-0	Thallium	0.244	mg/kg	U	0.0732	0.244	0.244	2	MS	BCD1	04/17/10 20:29	100417-4	961535
7440-61-1	Uranium	1.47	mg/kg		0.0161	0.0488	0.0488	2	MS	BCD1	04/17/10 20:29	100417-4	961535
7440-62-2	Vanadium	11500	ug/Kg		119	593	593	1	P	HSC	03/31/10 16:42	033110A-1	961532
7440-66-6	Zinc	37600	ug/Kg		353	1070	1070	1	P	HSC	04/12/10 22:34	041210D-2	973758

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
961532	961531	SW846 3050B	0.515	g	50	mL	03/15/10	BCD1
961535	961534	SW846 3050B	0.5	g	50	mL	04/15/10	BXA1
964746	964745	SW846 7471A Prep	0.5	g	30	mL	03/16/10	TXB3
973758	973757	SW846 3050B	0.57	g	50	mL	04/12/10	AXG2

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.21	ug/L	5	ug/L	104.2	90.0 – 110.0	AV	17-MAR-10 09:12	031710S1-5
	Aluminum	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Antimony	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Barium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Cadmium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Calcium	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Chromium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Cobalt	510	ug/L	500	ug/L	102	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Copper	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Lead	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Magnesium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Manganese	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Potassium	2460	ug/L	2500	ug/L	98.2	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Silver	259	ug/L	250	ug/L	103.7	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Sodium	2510	ug/L	2500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Vanadium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	31-MAR-10 12:38	033110A-1
	Zinc	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	12-APR-10 17:18	041210D-2
	Arsenic	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	17-APR-10 13:49	100417-4
	Nickel	53	ug/L	50	ug/L	105.9	90.0 – 110.0	MS	17-APR-10 13:49	100417-4
	Selenium	52.5	ug/L	50	ug/L	105	90.0 – 110.0	MS	17-APR-10 13:49	100417-4
	Thallium	49.7	ug/L	50	ug/L	99.4	90.0 – 110.0	MS	17-APR-10 13:49	100417-4
	Uranium	53.3	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	17-APR-10 13:49	100417-4
	Beryllium	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	18-APR-10 12:20	100418-3
CCV01										
	Mercury	5.16	ug/L	5	ug/L	103.1	80.0 – 120.0	AV	17-MAR-10 09:18	031710S1-5
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Cadmium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Lead	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Manganese	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Potassium	5870	ug/L	5000	ug/L	117.4	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Sodium	10300	ug/L	10000	ug/L	103	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Vanadium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 12:52	033110A-1
	Zinc	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	12-APR-10 18:21	041210D-2
	Arsenic	51.9	ug/L	50	ug/L	103.9	90.0 – 110.0	MS	17-APR-10 14:10	100417-4
	Nickel	49	ug/L	50	ug/L	97.9	90.0 – 110.0	MS	17-APR-10 14:10	100417-4
	Selenium	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	17-APR-10 14:10	100417-4
	Thallium	49.4	ug/L	50	ug/L	98.7	90.0 – 110.0	MS	17-APR-10 14:10	100417-4
	Uranium	52.4	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	17-APR-10 14:10	100417-4
	Beryllium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	18-APR-10 12:30	100418-3
CCV02										
	Mercury	5.17	ug/L	5	ug/L	103.4	80.0 – 120.0	AV	17-MAR-10 09:42	031710S1-5
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Antimony	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Cadmium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Magnesium	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Manganese	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Sodium	10100	ug/L	10000	ug/L	101	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 12:58	033110A-1
	Zinc	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	12-APR-10 18:56	041210D-2
	Arsenic	51.3	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	17-APR-10 14:22	100417-4
	Nickel	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	17-APR-10 14:22	100417-4
	Selenium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	17-APR-10 14:22	100417-4
	Thallium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	17-APR-10 14:22	100417-4
	Uranium	53.2	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	17-APR-10 14:22	100417-4
	Beryllium	48.4	ug/L	50	ug/L	96.8	90.0 – 110.0	MS	18-APR-10 12:48	100418-3
CCV03										
	Mercury	5.14	ug/L	5	ug/L	102.8	80.0 – 120.0	AV	17-MAR-10 10:06	031710S1-5
	Aluminum	4940	ug/L	5000	ug/L	98.7	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Antimony	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Barium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Cadmium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Calcium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Cobalt	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Iron	4930	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Lead	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Magnesium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Potassium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Sodium	9840	ug/L	10000	ug/L	98.4	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Vanadium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 13:06	033110A-1
	Zinc	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	12-APR-10 20:13	041210D-2
	Arsenic	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	17-APR-10 15:00	100417-4
	Nickel	52.7	ug/L	50	ug/L	105.3	90.0 – 110.0	MS	17-APR-10 15:00	100417-4
	Selenium	52.1	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	17-APR-10 15:00	100417-4
	Thallium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	17-APR-10 15:00	100417-4
	Uranium	53.4	ug/L	50	ug/L	106.8	90.0 – 110.0	MS	17-APR-10 15:00	100417-4
	Beryllium	49.7	ug/L	50	ug/L	99.4	90.0 – 110.0	MS	18-APR-10 13:11	100418-3
CCV04										
	Mercury	5.12	ug/L	5	ug/L	102.4	80.0 – 120.0	AV	17-MAR-10 10:30	031710S1-5
	Aluminum	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Antimony	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Barium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Cadmium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Calcium	5040	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Cobalt	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Iron	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Lead	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Magnesium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Manganese	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Potassium	4970	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Vanadium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 13:26	033110A-1
	Zinc	485	ug/L	500	ug/L	97	90.0 – 110.0	P	12-APR-10 21:31	041210D-2
	Arsenic	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	17-APR-10 15:50	100417-4
	Nickel	52.8	ug/L	50	ug/L	105.5	90.0 – 110.0	MS	17-APR-10 15:50	100417-4

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV05	Selenium	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	17-APR-10 15:50	100417-4
	Thallium	50.2	ug/L	50	ug/L	100.4	90.0 – 110.0	MS	17-APR-10 15:50	100417-4
	Uranium	54.6	ug/L	50	ug/L	109.1	90.0 – 110.0	MS	17-APR-10 15:50	100417-4
	Beryllium	49	ug/L	50	ug/L	98.1	90.0 – 110.0	MS	18-APR-10 13:36	100418-3
CCV05	Mercury	4.79	ug/L	5	ug/L	95.7	80.0 – 120.0	AV	17-MAR-10 10:54	031710S1-5
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Antimony	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Barium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Cadmium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Copper	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Lead	510	ug/L	500	ug/L	102	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Magnesium	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Manganese	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Potassium	5000	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Silver	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.1	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Vanadium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 13:54	033110A-1
	Zinc	495	ug/L	500	ug/L	99	90.0 – 110.0	P	12-APR-10 22:41	041210D-2
	Arsenic	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	17-APR-10 16:35	100417-4
	Nickel	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	17-APR-10 16:35	100417-4
	Selenium	50.4	ug/L	50	ug/L	100.8	90.0 – 110.0	MS	17-APR-10 16:35	100417-4
	Thallium	51.2	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	17-APR-10 16:35	100417-4
	Uranium	53.7	ug/L	50	ug/L	107.3	90.0 – 110.0	MS	17-APR-10 16:35	100417-4
CCV06	Mercury	4.9	ug/L	5	ug/L	98.1	80.0 – 120.0	AV	17-MAR-10 11:18	031710S1-5

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Aluminum	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Antimony	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Barium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Cadmium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Chromium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Cobalt	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Copper	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Iron	4990	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Lead	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Potassium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Vanadium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 14:17	033110A-1
	Arsenic	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	17-APR-10 18:58	100417-4
	Nickel	52.2	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	17-APR-10 18:58	100417-4
	Selenium	50.2	ug/L	50	ug/L	100.4	90.0 – 110.0	MS	17-APR-10 18:58	100417-4
	Thallium	52.1	ug/L	50	ug/L	104.2	90.0 – 110.0	MS	17-APR-10 18:58	100417-4
	Uranium	53.8	ug/L	50	ug/L	107.7	90.0 – 110.0	MS	17-APR-10 18:58	100417-4
CCV07	Aluminum	4990	ug/L	5000	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Antimony	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Barium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Cadmium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Calcium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Cobalt	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Copper	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Lead	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Vanadium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 14:37	033110A-1
	Arsenic	50.8	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	17-APR-10 19:48	100417-4
	Nickel	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	17-APR-10 19:48	100417-4
	Selenium	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	17-APR-10 19:48	100417-4
	Thallium	52.4	ug/L	50	ug/L	104.8	90.0 – 110.0	MS	17-APR-10 19:48	100417-4
	Uranium	52.7	ug/L	50	ug/L	105.5	90.0 – 110.0	MS	17-APR-10 19:48	100417-4
CCV08	Aluminum	4960	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Antimony	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Barium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Cadmium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Chromium	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Copper	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Iron	5000	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Lead	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Magnesium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Potassium	4980	ug/L	5000	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Silver	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Sodium	9970	ug/L	10000	ug/L	99.8	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 14:55	033110A-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Arsenic	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	17-APR-10 20:33	100417-4
	Nickel	51.6	ug/L	50	ug/L	103.3	90.0 – 110.0	MS	17-APR-10 20:33	100417-4
	Selenium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	17-APR-10 20:33	100417-4
	Thallium	51.5	ug/L	50	ug/L	103	90.0 – 110.0	MS	17-APR-10 20:33	100417-4
	Uranium	52.5	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	17-APR-10 20:33	100417-4
CCV09	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Antimony	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Barium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Cadmium	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Chromium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Cobalt	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Copper	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Iron	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Lead	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Magnesium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Manganese	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.2	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	31-MAR-10 15:17	033110A-1
CCV10	Aluminum	4980	ug/L	5000	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Antimony	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Barium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Cadmium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Calcium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Chromium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Cobalt	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV11	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Lead	507	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Magnesium	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Silver	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Vanadium	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 15:37	033110A-1
	Aluminum	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
CCV11	Antimony	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Cadmium	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Calcium	5080	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Chromium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Cobalt	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Copper	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Lead	510	ug/L	500	ug/L	102	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Magnesium	5170	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
CCV12	Manganese	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Potassium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Silver	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Sodium	10100	ug/L	10000	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Vanadium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 15:59	033110A-1
	Aluminum	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Antimony	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Barium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV13	Cadmium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Chromium	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Cobalt	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Copper	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Iron	5030	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Lead	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Magnesium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Manganese	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Potassium	5110	ug/L	5000	ug/L	102.2	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Silver	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	31-MAR-10 16:23	033110A-1
CCV13	Aluminum	5000	ug/L	5000	ug/L	100	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Antimony	500	ug/L	500	ug/L	100	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Barium	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Cadmium	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Calcium	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Chromium	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Cobalt	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Copper	498	ug/L	500	ug/L	99.6	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Iron	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Lead	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Magnesium	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Manganese	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Silver	501	ug/L	500	ug/L	100.1	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Sodium	10000	ug/L	10000	ug/L	100.1	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1
	Vanadium	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	31-MAR-10 16:45	033110A-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS3,ICPMS4,MER536,OPTIMA3,OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.252	ug/L	.2	ug/L	126	70.0 – 130.0	AV	17-MAR-10 09:16	031710S1-5
	Nickel	2.31	ug/L	2	ug/L	115.5	70.0 – 130.0	MS	17-APR-10 13:57	100417-4
	Thallium	1.1	ug/L	1	ug/L	109.9	70.0 – 130.0	MS	17-APR-10 13:57	100417-4
	Selenium	5.44	ug/L	5	ug/L	108.8	70.0 – 130.0	MS	17-APR-10 13:57	100417-4
	Uranium	.274	ug/L	.2	ug/L	137	70.0 – 130.0	MS	17-APR-10 13:57	100417-4
	Arsenic	5.71	ug/L	5	ug/L	114.1	70.0 – 130.0	MS	17-APR-10 13:57	100417-4
	Beryllium	.552	ug/L	.5	ug/L	110.4	70.0 – 130.0	MS	18-APR-10 12:24	100418-3
PQL01										
	Aluminum	204	ug/L	200	ug/L	102.2	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Sodium	291	ug/L	300	ug/L	96.9	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Calcium	206	ug/L	200	ug/L	103	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Vanadium	5.23	ug/L	5	ug/L	104.6	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Copper	10	ug/L	10	ug/L	100.2	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Cobalt	4.86	ug/L	5	ug/L	97.1	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Chromium	5.2	ug/L	5	ug/L	103.9	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Cadmium	5.06	ug/L	5	ug/L	101.2	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Barium	5.17	ug/L	5	ug/L	103.3	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Antimony	10.8	ug/L	10	ug/L	107.5	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Silver	4.69	ug/L	5	ug/L	93.8	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Iron	104	ug/L	100	ug/L	103.7	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Magnesium	320	ug/L	300	ug/L	106.6	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Manganese	10.5	ug/L	10	ug/L	104.7	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Potassium	156	ug/L	150	ug/L	104.3	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Lead	9.95	ug/L	10	ug/L	99.5	70.0 – 130.0	P	31-MAR-10 12:43	033110A-1
	Zinc	10.2	ug/L	10	ug/L	101.5	70.0 – 130.0	P	12-APR-10 17:32	041210D-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	17-MAR-10 09:14	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 12:40	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 12:40	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 12:40	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 12:40	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 12:40	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 12:40	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 12:40	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 12:40	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 12:40	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 12:40	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:40	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 17:25	041210D-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 13:53	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 13:53	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 13:53	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 13:53	100417-4
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	17-APR-10 13:53	100417-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	18-APR-10 12:22	100418-3
CCB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	17-MAR-10 09:20	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 12:54	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 12:54	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 12:54	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 12:54	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 12:54	033110A-1
	Lead	2.96	+/-10	J	2.5	10.0	SOL	P	31-MAR-10 12:54	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 12:54	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 12:54	033110A-1
	Potassium	289.64	+/-250		64.0	250	SOL	P	31-MAR-10 12:54	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Sodium	203.49	+/-250	J	70.0	250	SOL	P	31-MAR-10 12:54	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 12:54	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 18:28	041210D-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 14:14	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 14:14	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 14:14	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 14:14	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 14:14	100417-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	18-APR-10 12:32	100418-3
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 09:44	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 13:00	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 13:00	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:00	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 13:00	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:00	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 13:00	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 13:00	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 13:00	033110A-1
	Potassium	125.9	+/-250	J	64.0	250	SOL	P	31-MAR-10 13:00	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Sodium	103.28	+/-250	J	70.0	250	SOL	P	31-MAR-10 13:00	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:00	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 19:03	041210D-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 14:26	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 14:26	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 14:26	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 14:26	100417-4
	Uranium	0.2	+/-2		0.066	0.2	SOL	MS	17-APR-10 14:26	100417-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	18-APR-10 12:50	100418-3
CCB03	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 10:08	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 13:08	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 13:08	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:08	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 13:08	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:08	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 13:08	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 13:08	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 13:08	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 13:08	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 13:08	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:08	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 20:20	041210D-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

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>
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 15:04	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 15:04	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 15:04	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 15:04	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 15:04	100417-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	18-APR-10 13:13	100418-3
CCB04	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 10:32	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 13:28	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 13:28	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:28	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 13:28	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:28	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 13:28	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 13:28	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 13:28	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 13:28	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 13:28	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:28	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 21:38	041210D-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 15:54	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 15:54	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 15:54	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 15:54	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 15:54	100417-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	18-APR-10 13:38	100418-3

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB05	Mercury	-0.101	+/-2	J	0.068	0.2	SOL	AV	17-MAR-10 10:56	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 13:56	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 13:56	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:56	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 13:56	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 13:56	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 13:56	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 13:56	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 13:56	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 13:56	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 13:56	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 13:56	033110A-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	12-APR-10 22:48	041210D-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 16:39	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 16:39	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 16:39	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 16:39	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 16:39	100417-4
CCB06	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	17-MAR-10 11:20	031710S1-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 14:19	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 14:19	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:19	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:19	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:19	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:19	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:19	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 14:19	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:19	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 14:19	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 14:19	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 14:19	033110A-1
	Potassium	66.18	+/-250	J	64.0	250	SOL	P	31-MAR-10 14:19	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:19	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 14:19	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:19	033110A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 19:02	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 19:02	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 19:02	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 19:02	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 19:02	100417-4
CCB07	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 14:40	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 14:40	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:40	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 14:40	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:40	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 14:40	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 14:40	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 14:40	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 14:40	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 14:40	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

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>
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:40	033110A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 19:52	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 19:52	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 19:52	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 19:52	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 19:52	100417-4
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 14:57	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 14:57	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:57	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 14:57	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 14:57	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 14:57	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 14:57	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 14:57	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 14:57	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 14:57	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 14:57	033110A-1
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	17-APR-10 20:38	100417-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	17-APR-10 20:38	100417-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	17-APR-10 20:38	100417-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	17-APR-10 20:38	100417-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-APR-10 20:38	100417-4
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 15:19	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 15:19	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:19	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:19	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 15:19	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 15:19	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 15:19	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 15:19	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 15:19	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 15:19	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 15:19	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 15:19	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 15:19	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:19	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 15:19	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:19	033110A-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 15:39	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 15:39	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:39	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:39	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 15:39	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 15:39	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 15:39	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 15:39	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 15:39	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 15:39	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 15:39	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 15:39	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 15:39	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:39	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 15:39	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 15:39	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

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>
CCB11										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 16:01	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 16:01	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:01	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:01	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:01	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:01	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:01	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 16:01	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:01	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 16:01	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 16:01	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 16:01	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 16:01	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:01	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 16:01	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:01	033110A-1
CCB12										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 16:25	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 16:25	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:25	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:25	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:25	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:25	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:25	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 16:25	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:25	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 16:25	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 16:25	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 16:25	033110A-1
	Potassium	69.27	+/-250	J	64.0	250	SOL	P	31-MAR-10 16:25	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:25	033110A-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-2194

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>
CCB13	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 16:25	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:25	033110A-1
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	31-MAR-10 16:47	033110A-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	31-MAR-10 16:47	033110A-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:47	033110A-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:47	033110A-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:47	033110A-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:47	033110A-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	31-MAR-10 16:47	033110A-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	31-MAR-10 16:47	033110A-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	31-MAR-10 16:47	033110A-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	31-MAR-10 16:47	033110A-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	31-MAR-10 16:47	033110A-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	31-MAR-10 16:47	033110A-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	31-MAR-10 16:47	033110A-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:47	033110A-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	31-MAR-10 16:47	033110A-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	31-MAR-10 16:47	033110A-1

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-2194
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>
1202062393	Aluminum	6760	ug/Kg	+/-19900	U	P	6760	19900
	Antimony	328	ug/Kg	+/-994	U	P	328	994
	Barium	99.4	ug/Kg	+/-497	U	P	99.4	497
	Calcium	7950	ug/Kg	+/-24900	U	P	7950	24900
	Cobalt	149	ug/Kg	+/-497	U	P	149	497
	Iron	7950	ug/Kg	+/-24900	U	P	7950	24900
	Magnesium	8450	ug/Kg	+/-29800	U	P	8450	29800
	Potassium	6360	ug/Kg	+/-24900	U	P	6360	24900
	Sodium	6960	ug/Kg	+/-24900	U	P	6960	24900
	Vanadium	99.4	ug/Kg	+/-497	U	P	99.4	497
	Silver	99.4	ug/Kg	+/-497	U	P	99.4	497
	Manganese	199	ug/Kg	+/-994	U	P	199	994
	Lead	249	ug/Kg	+/-994	U	P	249	994
	Copper	298	ug/Kg	+/-994	U	P	298	994
	Chromium	149	ug/Kg	+/-497	U	P	149	497
	Cadmium	99.4	ug/Kg	+/-497	U	P	99.4	497
1202062399	Arsenic	0.194	mg/kg	+/-0.969	U	MS	0.194	0.969
	Nickel	0.0969	mg/kg	+/-0.388	U	MS	0.0969	0.388
	Selenium	0.485	mg/kg	+/-0.969	U	MS	0.485	0.969
	Thallium	0.0581	mg/kg	+/-0.194	U	MS	0.0581	0.194
	Uranium	0.0128	mg/kg	+/-0.0388	U	MS	0.0128	0.0388
	Beryllium	0.0194	mg/kg	+/-0.0969	U	MS	0.0194	0.0969
1202069773	Mercury	-4.23	ug/kg	+/-10	J	AV	3.4	10
1202091941	Zinc	322	ug/Kg	+/-977	U	P	322	977

METALS

-4-

Interference Check Sample

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	512000	ug/L	500000	ug/L	102	80.0 – 120.0	31-MAR-10 12:45	033110A-1
	Antimony	1.51	ug/L					31-MAR-10 12:45	033110A-1
	Barium	0.322	ug/L					31-MAR-10 12:45	033110A-1
	Cadmium	-1.27	ug/L					31-MAR-10 12:45	033110A-1
	Calcium	491000	ug/L	500000	ug/L	98.2	80.0 – 120.0	31-MAR-10 12:45	033110A-1
	Chromium	1.29	ug/L					31-MAR-10 12:45	033110A-1
	Cobalt	-6.45	ug/L					31-MAR-10 12:45	033110A-1
	Copper	5.31	ug/L					31-MAR-10 12:45	033110A-1
	Iron	194000	ug/L	200000	ug/L	97.1	80.0 – 120.0	31-MAR-10 12:45	033110A-1
	Lead	-2.92	ug/L					31-MAR-10 12:45	033110A-1
	Magnesium	494000	ug/L	500000	ug/L	98.8	80.0 – 120.0	31-MAR-10 12:45	033110A-1
	Manganese	3.65	ug/L					31-MAR-10 12:45	033110A-1
	Potassium	-155.0	ug/L					31-MAR-10 12:45	033110A-1
	Silver	-1.34	ug/L					31-MAR-10 12:45	033110A-1
	Sodium	49.2	ug/L					31-MAR-10 12:45	033110A-1
	Vanadium	-0.471	ug/L					31-MAR-10 12:45	033110A-1
ICSAB01									
	Aluminum	510000	ug/L	500000	ug/L	102	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Antimony	522	ug/L	500	ug/L	104	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Barium	506	ug/L	500	ug/L	101	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Cadmium	485	ug/L	500	ug/L	97	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Calcium	490000	ug/L	500000	ug/L	97.9	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Chromium	499	ug/L	500	ug/L	99.8	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Cobalt	455	ug/L	500	ug/L	90.9	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Copper	551	ug/L	500	ug/L	110	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Iron	194000	ug/L	200000	ug/L	97	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Lead	479	ug/L	500	ug/L	95.8	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Magnesium	494000	ug/L	500000	ug/L	98.8	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Manganese	489	ug/L	500	ug/L	97.8	80.0 – 120.0	31-MAR-10 12:47	033110A-1

METALS
-4-
Interference Check Sample

SDG No: 10-2194

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>
	Potassium	5630	ug/L	5000	ug/L	113	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Silver	271	ug/L	250	ug/L	108	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Sodium	5410	ug/L	5000	ug/L	108	80.0 – 120.0	31-MAR-10 12:47	033110A-1
	Vanadium	522	ug/L	500	ug/L	104	80.0 – 120.0	31-MAR-10 12:47	033110A-1

METALS
-4-
Interference Check Sample

SDG No: 10-2194

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	Zinc	-1.87	ug/L					12-APR-10 17:39	041210D-2
ICSAB01	Zinc	482	ug/L	500	ug/L	96.4	80.0 - 120.0	12-APR-10 17:46	041210D-2

METALS
-4-
Interference Check Sample

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.111	ug/L					18-APR-10 12:26	100418-3
ICSAB01	Beryllium	20.6	ug/L	20	ug/L	103	80.0 - 120.0	18-APR-10 12:28	100418-3

METALS
-4-
Interference Check Sample

SDG No: 10-2194

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS4

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	-0.642	ug/L					17-APR-10 14:01	100417-4
	Nickel	2.6	ug/L					17-APR-10 14:01	100417-4
	Selenium	-0.19	ug/L					17-APR-10 14:01	100417-4
	Thallium	-0.006	ug/L					17-APR-10 14:01	100417-4
	Uranium	0.001	ug/L					17-APR-10 14:01	100417-4
ICSAB01									
	Arsenic	21.2	ug/L	20	ug/L	106	80.0 - 120.0	17-APR-10 14:06	100417-4
	Nickel	21.5	ug/L	23.31	ug/L	92.1	80.0 - 120.0	17-APR-10 14:06	100417-4
	Selenium	23.4	ug/L	20	ug/L	117	80.0 - 120.0	17-APR-10 14:06	100417-4
	Thallium	18.4	ug/L	20	ug/L	92.1	80.0 - 120.0	17-APR-10 14:06	100417-4
	Uranium	20.1	ug/L	20	ug/L	100	80.0 - 120.0	17-APR-10 14:06	100417-4

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2194

Client ID RE36-10-7407S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 77

Sample ID: 248511001

Spike ID: 1202062396

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		8330000		4260000		635000	641	N/A	P
Antimony	ug/Kg	75-125	53500		388	U	63500	84.2		P
Barium	ug/Kg	75-125	135000		48900		63500	136	N	P
Cadmium	ug/Kg	75-125	64300		209	J	63500	101		P
Calcium	ug/Kg		4830000		2570000		635000	355	N/A	P
Chromium	ug/Kg	75-125	76100		7390		63500	108		P
Cobalt	ug/Kg	75-125	64700		1610		63500	99.2		P
Copper	ug/Kg	75-125	74600		4980		63500	110		P
Iron	ug/Kg		10000000		7620000		635000	378	N/A	P
Lead	ug/Kg	75-125	73000		7450		63500	103		P
Magnesium	ug/Kg	75-125	2060000		997000		635000	167	N	P
Manganese	ug/Kg		564000		368000		63500	309	N/A	P
Potassium	ug/Kg	75-125	2380000		1100000		635000	202	N	P
Silver	ug/Kg	75-125	62800		118	U	63500	98.9		P
Sodium	ug/Kg	75-125	708000		54200		635000	103		P
Vanadium	ug/Kg	75-125	76300		7680		63500	108		P
Zinc	ug/Kg	75-125	135000		72800		61700	101		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2194 Client ID RE36-10-7407SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 77

Sample ID: 248511001 Spike ID: 1202062398

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		7880000		4260000		611000	593	N/A	P
Antimony	ug/Kg	75-125	47800		388	U	61100	78.2		P
Barium	ug/Kg	75-125	137000		48900		61100	144	N	P
Cadmium	ug/Kg	75-125	58900		209	J	61100	95.9		P
Calcium	ug/Kg		4770000		2570000		611000	360	N/A	P
Chromium	ug/Kg	75-125	66400		7390		61100	96.4		P
Cobalt	ug/Kg	75-125	59900		1610		61100	95.3		P
Copper	ug/Kg	75-125	68900		4980		61100	105		P
Iron	ug/Kg		13000000		7620000		611000	877	N/A	P
Lead	ug/Kg	75-125	71800		7450		61100	105		P
Magnesium	ug/Kg	75-125	2100000		997000		611000	180	N	P
Manganese	ug/Kg		637000		368000		61100	440	N/A	P
Potassium	ug/Kg	75-125	2390000		1100000		611000	211	N	P
Silver	ug/Kg	75-125	57700		118	U	61100	94.4		P
Sodium	ug/Kg	75-125	671000		54200		611000	101		P
Vanadium	ug/Kg	75-125	72000		7680		61100	105		P
Zinc	ug/Kg	75-125	149000		72800		61400	125		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2194

Client ID: RE36-10-7407S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 77

Sample ID: 248511001

Spike ID: 1202062402

<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	mg/kg	75-125	5.53		0.644		6.38	76.6		MS
Nickel	mg/kg	75-125	11.2		6		6.38	81.1		MS
Selenium	mg/kg	75-125	2.45		0.62	U	2.55	85.4		MS
Thallium	mg/kg	75-125	11.5		0.102	J	12.8	89.3		MS
Uranium	mg/kg	75-125	7.24		1.07		6.38	96.8		MS
Arsenic	mg/kg	75-125	10.7		1.7		10.2	87.9		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2194 Client ID RE36-10-7407SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 77

Sample ID: 248511001 Spike ID: 1202062404

<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	mg/kg	75-125	5.62		0.644		6.28	79.2		MS
Nickel	mg/kg	75-125	12.1		6		6.28	97.3		MS
Selenium	mg/kg	75-125	2.67		0.62	U	2.51	95.2		MS
Thallium	mg/kg	75-125	12.5		0.102	J	12.6	98.5		MS
Uranium	mg/kg	75-125	8		1.07		6.28	110		MS
Arsenic	mg/kg	75-125	11.4		1.7		10	97		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-2194 Client ID: RE36-10-7407S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 77

Sample ID: 248511001 Spike ID: 1202069776

<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		1130		706		155	273	N/A	AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-2194 **Client ID** RE36-10-7407SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 77**Sample ID:** 248511001 **Spike ID:** 1202069778

<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		1010		706		139	219	N/A	AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407D

Sample ID: 248511001

Duplicate ID: 1202062395

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	4260000		4000000		6.22		P
Antimony	ug/Kg		388 U		405 U				P
Barium	ug/Kg	+/-20%	48900		44300		9.79		P
Cadmium	ug/Kg	+/-614	209 J		215 J		2.84		P
Calcium	ug/Kg	+/-20%	2570000		2340000		9.22		P
Chromium	ug/Kg	+/-20%	7390		8530		14.2		P
Cobalt	ug/Kg	+/-614	1610		1620		.129		P
Copper	ug/Kg	+/-1230	4980		4480		10.6		P
Iron	ug/Kg	+/-20%	7620000		7180000		5.98		P
Lead	ug/Kg	+/-20%	7450		7160		3.91		P
Magnesium	ug/Kg	+/-20%	997000		830000		18.3		P
Manganese	ug/Kg	+/-20%	368000		348000		5.63		P
Potassium	ug/Kg	+/-20%	1100000		983000		11.3		P
Silver	ug/Kg		118 U		123 U				P
Sodium	ug/Kg	+/-30700	54200		45600		17.2		P
Vanadium	ug/Kg	+/-20%	7680		7170		7		P
Zinc	ug/Kg	+/-20%	72800		80500		10		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407SD

Sample ID: 1202062396

Duplicate ID: 1202062398

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	8330000		7880000		5.53		P
Antimony	ug/Kg	+/-20	53500		47800		11.2		P
Barium	ug/Kg	+/-20	135000		137000		1.16		P
Cadmium	ug/Kg	+/-20	64300		58900		8.78		P
Calcium	ug/Kg	+/-20	4830000		4770000		1.17		P
Chromium	ug/Kg	+/-20	76100		66400		13.7		P
Cobalt	ug/Kg	+/-20	64700		59900		7.65		P
Copper	ug/Kg	+/-20	74600		68900		7.89		P
Iron	ug/Kg	+/-20	10000000		13000000		25.8	*	P
Lead	ug/Kg	+/-20	73000		71800		1.66		P
Magnesium	ug/Kg	+/-20	2060000		2100000		2.14		P
Manganese	ug/Kg	+/-20	564000		637000		12.1		P
Potassium	ug/Kg	+/-20	2380000		2390000		.272		P
Silver	ug/Kg	+/-20	62800		57700		8.52		P
Sodium	ug/Kg	+/-20	708000		671000		5.36		P
Vanadium	ug/Kg	+/-20	76300		72000		5.75		P
Zinc	ug/Kg	+/-20	135000		149000		10.2		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407D

Sample ID: 248511001

Duplicate ID: 1202062401

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.28	1.7		1.59		6.81		MS
Beryllium	mg/kg	+/- .128	0.644		0.639		.819		MS
Nickel	mg/kg	+/-20%	6		5.41		10.3		MS
Selenium	mg/kg		0.62 U		0.64 U				MS
Thallium	mg/kg		0.102 J		0.0769 U		200		MS
Uranium	mg/kg	+/-20%	1.07		1.02		4.7		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407SD

Sample ID: 1202062402

Duplicate ID: 1202062404

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	10.7		11.4		7.04		MS
Beryllium	mg/kg	+/-20	5.53		5.62		1.55		MS
Nickel	mg/kg	+/-20	11.2		12.1		8.04		MS
Selenium	mg/kg	+/-20	2.45		2.67		8.32		MS
Thallium	mg/kg	+/-20	11.5		12.5		8.15		MS
Uranium	mg/kg	+/-20	7.24		8		9.97		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407D

Sample ID: 248511001

Duplicate ID: 1202069775

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20%	706		855		19.1		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-2194

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7407SD

Sample ID: 1202069776

Duplicate ID: 1202069778

Percent Solids for Dup: 77

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	1130		1010		11.2		AV

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METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2194

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>
1202062394								
	Aluminum	ug/Kg	10500000	11100000		106	56-144	P
	Antimony	ug/Kg	173000	128000		74.1	71-130	P
	Barium	ug/Kg	198000	192000		97.1	80-120	P
	Cadmium	ug/Kg	60700	61600		102	81-120	P
	Calcium	ug/Kg	9870000	10200000		103	83-117	P
	Chromium	ug/Kg	236000	250000		106	80-120	P
	Cobalt	ug/Kg	91200	94700		104	81-120	P
	Copper	ug/Kg	174000	189000		108	81-118	P
	Iron	ug/Kg	18000000	20000000		111	51-149	P
	Lead	ug/Kg	86000	85500		99.4	79-121	P
	Magnesium	ug/Kg	4000000	4050000		101	79-122	P
	Manganese	ug/Kg	558000	542000		97.1	81-119	P
	Potassium	ug/Kg	4300000	4400000		102	74-127	P
	Silver	ug/Kg	30100	30300		101	66-134	P
	Sodium	ug/Kg	1020000	1030000		101	74-127	P
	Vanadium	ug/Kg	115000	128000		111	79-121	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2194

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>
1202062400								
	Beryllium	mg/kg	77.6	86.7		112	84-116	MS
	Nickel	mg/kg	134	156		116	78-123	MS
	Selenium	mg/kg	286	314		110	77-123	MS
	Thallium	mg/kg	121	133		110	78-122	MS
	Uranium	mg/kg	2.13	2.01		94.4	73-127	MS
	Arsenic	mg/kg	104	116		112	78-123	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2194

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>
1202069774	Mercury	ug/kg	5150	5500		107	71.6-128.3	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-2194

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>
1202091942	Zinc	ug/Kg	594000	574000		96.6	80-121	P

METALS
-9-
Serial Dilution Sample Summary

SDG NO. 10-2194 **Client ID** RE36-10-7407L

Contract: LANL01004

Matrix: SOLID **Level:** Low

Sample ID: 248511001 **Serial Dilution ID:** 1202062397

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	36200		35600		1.8		10	P
Antimony	3.3	U	16.5	U				P
Barium	415		407		1.93		10	P
Cadmium	1.78	J	5	U	100			P
Calcium	21900		21600		1.6		10	P
Chromium	62.8		62		1.27			P
Cobalt	13.7		13.4	J	2.19			P
Copper	42.3		38.1	J	9.93			P
Iron	64800		63500		2.01		10	P
Lead	63.3		62.5		1.26			P
Magnesium	8470		8400		.826		10	P
Manganese	3130		3090		1.28		10	P
Potassium	9360		9050		3.31		10	P
Silver	1	U	5	U				P
Sodium	461		350	U	100			P
Vanadium	65.3		65		.459		10	P
Zinc	619		600		3.07		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2194

Client ID. RE36-10-7407L

Contract: LANL01004

Matrix: SOLID

Level: Low

Sample ID: 248511001

Serial Dilution ID: 1202062403

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Arsenic	6.87		5	U	100			MS
Beryllium	2.6		3.03		16.5			MS
Nickel	24.2		24.9		2.69			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.411	J	1.5	U	100			MS
Uranium	4.3		4.47		3.84			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-2194 Client ID RE36-10-7407L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 248511001 Serial Dilution ID: 1202069777

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	9.75		9.2		5.64		10	AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 961531							
1202062393	MB for batch 961531	MB	S	15-MAR-10	.503g	50mL	
1202062394	LCS for batch 961531	LCS	S	15-MAR-10	.507g	50mL	
1202062396	RE36-10-7407S	MS	S	15-MAR-10	.51g	50mL	
1202062398	RE36-10-7407SD	MSD	S	15-MAR-10	.53g	50mL	
1202062395	RE36-10-7407D	DUP	S	15-MAR-10	.528g	50mL	
248511001	RE36-10-7407	SAMPLE	S	15-MAR-10	.551g	50mL	
248511002	RE36-10-7421	SAMPLE	S	15-MAR-10	.509g	50mL	
248511003	RE36-10-7422	SAMPLE	S	15-MAR-10	.507g	50mL	
248511004	RE36-10-7451	SAMPLE	S	15-MAR-10	.525g	50mL	
248511005	RE36-10-7449	SAMPLE	S	15-MAR-10	.515g	50mL	
248511006	RE36-10-7445	SAMPLE	S	15-MAR-10	.53g	50mL	
248511007	RE36-10-7450	SAMPLE	S	15-MAR-10	.505g	50mL	
248511008	RE36-10-7444	SAMPLE	S	15-MAR-10	.528g	50mL	
248511009	RE36-10-7448	SAMPLE	S	15-MAR-10	.503g	50mL	
248511010	RE36-10-7447	SAMPLE	S	15-MAR-10	.559g	50mL	
248511011	RE36-10-7443	SAMPLE	S	15-MAR-10	.519g	50mL	
248511012	RE36-10-7452	SAMPLE	S	15-MAR-10	.544g	50mL	
248511013	RE36-10-7437	SAMPLE	S	15-MAR-10	.536g	50mL	
248511014	RE36-10-7440	SAMPLE	S	15-MAR-10	.529g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
248511015	RE36-10-7435	SAMPLE	S	15-MAR-10	.502g	50mL	
248511016	RE36-10-7441	SAMPLE	S	15-MAR-10	.526g	50mL	
248511017	RE36-10-7442	SAMPLE	S	15-MAR-10	.535g	50mL	
248511018	RE36-10-7436	SAMPLE	S	15-MAR-10	.513g	50mL	
248511019	RE36-10-7438	SAMPLE	S	15-MAR-10	.534g	50mL	
248511020	RE36-10-7439	SAMPLE	S	15-MAR-10	.515g	50mL	
Batch Number 973757							
1202091941	MB for batch 973757	MB	S	12-APR-10	.512g	50mL	
1202091942	LCS for batch 973757	LCS	S	12-APR-10	.51g	50mL	
1202062396	RE36-10-7407S	MS	S	12-APR-10	.525g	50mL	
1202062398	RE36-10-7407SD	MSD	S	12-APR-10	.528g	50mL	
1202062395	RE36-10-7407D	DUP	S	12-APR-10	.51g	50mL	
248511001	RE36-10-7407	SAMPLE	S	12-APR-10	.551g	50mL	
248511002	RE36-10-7421	SAMPLE	S	12-APR-10	.526g	50mL	
248511003	RE36-10-7422	SAMPLE	S	12-APR-10	.537g	50mL	
248511004	RE36-10-7451	SAMPLE	S	12-APR-10	.585g	50mL	
248511005	RE36-10-7449	SAMPLE	S	12-APR-10	.57g	50mL	
248511006	RE36-10-7445	SAMPLE	S	12-APR-10	.548g	50mL	
248511007	RE36-10-7450	SAMPLE	S	12-APR-10	.556g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
248511008	RE36-10-7444	SAMPLE	S	12-APR-10	.52g	50mL	
248511009	RE36-10-7448	SAMPLE	S	12-APR-10	.529g	50mL	
248511010	RE36-10-7447	SAMPLE	S	12-APR-10	.521g	50mL	
248511011	RE36-10-7443	SAMPLE	S	12-APR-10	.547g	50mL	
248511012	RE36-10-7452	SAMPLE	S	12-APR-10	.508g	50mL	
248511013	RE36-10-7437	SAMPLE	S	12-APR-10	.537g	50mL	
248511014	RE36-10-7440	SAMPLE	S	12-APR-10	.56g	50mL	
248511015	RE36-10-7435	SAMPLE	S	12-APR-10	.558g	50mL	
248511016	RE36-10-7441	SAMPLE	S	12-APR-10	.528g	50mL	
248511017	RE36-10-7442	SAMPLE	S	12-APR-10	.503g	50mL	
248511018	RE36-10-7436	SAMPLE	S	12-APR-10	.504g	50mL	
248511019	RE36-10-7438	SAMPLE	S	12-APR-10	.521g	50mL	
248511020	RE36-10-7439	SAMPLE	S	12-APR-10	.57g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	961534						
1202062399	MB for batch 961534	MB	S	15-APR-10	.516g	50mL	
1202062400	LCS for batch 961534	LCS	S	15-APR-10	.514g	50mL	
1202062402	RE36-10-7407S	MS	S	15-APR-10	.508g	50mL	
1202062404	RE36-10-7407SD	MSD	S	15-APR-10	.516g	50mL	
1202062401	RE36-10-7407D	DUP	S	15-APR-10	.506g	50mL	
248511001	RE36-10-7407	SAMPLE	S	15-APR-10	.523g	50mL	
248511002	RE36-10-7421	SAMPLE	S	15-APR-10	.525g	50mL	
248511003	RE36-10-7422	SAMPLE	S	15-APR-10	.508g	50mL	
248511004	RE36-10-7451	SAMPLE	S	15-APR-10	.554g	50mL	
248511005	RE36-10-7449	SAMPLE	S	15-APR-10	.529g	50mL	
248511006	RE36-10-7445	SAMPLE	S	15-APR-10	.523g	50mL	
248511007	RE36-10-7450	SAMPLE	S	15-APR-10	.543g	50mL	
248511008	RE36-10-7444	SAMPLE	S	15-APR-10	.526g	50mL	
248511009	RE36-10-7448	SAMPLE	S	15-APR-10	.506g	50mL	
248511010	RE36-10-7447	SAMPLE	S	15-APR-10	.501g	50mL	
248511011	RE36-10-7443	SAMPLE	S	15-APR-10	.52g	50mL	
248511012	RE36-10-7452	SAMPLE	S	15-APR-10	.506g	50mL	
248511013	RE36-10-7437	SAMPLE	S	15-APR-10	.507g	50mL	
248511014	RE36-10-7440	SAMPLE	S	15-APR-10	.513g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194**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>
248511015	RE36-10-7435	SAMPLE	S	15-APR-10	.54g	50mL	
248511016	RE36-10-7441	SAMPLE	S	15-APR-10	.553g	50mL	
248511017	RE36-10-7442	SAMPLE	S	15-APR-10	.5g	50mL	
248511018	RE36-10-7436	SAMPLE	S	15-APR-10	.519g	50mL	
248511019	RE36-10-7438	SAMPLE	S	15-APR-10	.517g	50mL	
248511020	RE36-10-7439	SAMPLE	S	15-APR-10	.5g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194

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	964745						
1202069773	MB for batch 964745	MB	S	16-MAR-10	.6g	30mL	
1202069774	LCS for batch 964745	LCS	S	16-MAR-10	.2g	30mL	
1202069776	RE36-10-7407S	MS	S	16-MAR-10	.503g	30mL	
1202069778	RE36-10-7407SD	MSD	S	16-MAR-10	.561g	30mL	
1202069775	RE36-10-7407D	DUP	S	16-MAR-10	.515g	30mL	
248511001	RE36-10-7407	SAMPLE	S	16-MAR-10	.537g	30mL	
248511002	RE36-10-7421	SAMPLE	S	16-MAR-10	.513g	30mL	
248511003	RE36-10-7422	SAMPLE	S	16-MAR-10	.56g	30mL	
248511004	RE36-10-7451	SAMPLE	S	16-MAR-10	.514g	30mL	
248511005	RE36-10-7449	SAMPLE	S	16-MAR-10	.503g	30mL	
248511006	RE36-10-7445	SAMPLE	S	16-MAR-10	.517g	30mL	
248511007	RE36-10-7450	SAMPLE	S	16-MAR-10	.517g	30mL	
248511008	RE36-10-7444	SAMPLE	S	16-MAR-10	.525g	30mL	
248511009	RE36-10-7448	SAMPLE	S	16-MAR-10	.531g	30mL	
248511010	RE36-10-7447	SAMPLE	S	16-MAR-10	.589g	30mL	
248511011	RE36-10-7443	SAMPLE	S	16-MAR-10	.587g	30mL	
248511012	RE36-10-7452	SAMPLE	S	16-MAR-10	.523g	30mL	
248511013	RE36-10-7437	SAMPLE	S	16-MAR-10	.54g	30mL	
248511014	RE36-10-7440	SAMPLE	S	16-MAR-10	.518g	30mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-2194**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>
248511015	RE36-10-7435	SAMPLE	S	16-MAR-10	.6g	30mL	
248511016	RE36-10-7441	SAMPLE	S	16-MAR-10	.571g	30mL	
248511017	RE36-10-7442	SAMPLE	S	16-MAR-10	.5g	30mL	
248511018	RE36-10-7436	SAMPLE	S	16-MAR-10	.526g	30mL	
248511019	RE36-10-7438	SAMPLE	S	16-MAR-10	.506g	30mL	
248511020	RE36-10-7439	SAMPLE	S	16-MAR-10	.5g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** OPTIMA3**Start Date:** 12-APR-10**End Date:** 12-APR-10**Client Sdg:** 10-2194**Method** P**Data File:** 041210D-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	16:44:00																								X
S0.1	1	16:52:00																								X
S0.5	1	16:58:00																								X
SCAL	1	17:05:00																								X
S10	1	17:12:00																								
ICV01	1	17:18:00																								X
ICB01	1	17:25:00																								X
PQL01	1	17:32:00																								X
ICSA01	1	17:39:00																								X
ICSAB01	1	17:46:00																								X
LR01	1	17:53:00																								X
LR02	1	17:59:00																								X
ZZZZZZ	1	18:06:00																								
ZZZZZZ	1	18:13:00																								
CCV01	1	18:21:00																								X
CCB01	1	18:28:00																								X
CCV02	1	18:56:00																								X
CCB02	1	19:03:00																								X
1202091941	1	19:10:00																								X
1202091942	1	19:18:00																								X
248511001	1	19:25:00																								X
1202062395	1	19:32:00																								X
1202062396	1	19:39:00																								X
1202062398	1	19:46:00																								X
1202062397	5	19:53:00																								X
248511002	1	20:00:00																								X
248511003	1	20:06:00																								X
CCV03	1	20:13:00																								X
CCB03	1	20:20:00																								X
248511004	1	20:28:00																								X
248511005	1	20:35:00																								X
248511006	1	20:42:00																								X
248511007	1	20:49:00																								X
248511008	1	20:56:00																								X
248511009	1	21:03:00																								X
248511010	1	21:10:00																								X
248511011	1	21:17:00																								X
248511012	1	21:24:00																								X
CCV04	1	21:31:00																								X
CCB04	1	21:38:00																								X

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA4

Start Date: 31-MAR-10

End Date: 31-MAR-10

Client Sdg: 10-2194

Method P

Data File: 033110A-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	12:27:31	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
S0.1	1	12:30:29		X		X		X		X	X	X		X		X			X		X				X	
S0.5	1	12:32:41	X	X		X		X	X	X	X	X		X	X	X			X		X				X	
SCAL	1	12:34:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
S10	1	12:36:58	X					X					X		X							X				
ICV01	1	12:38:02	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ICB01	1	12:40:02	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
PQL01	1	12:43:12	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ICSA01	1	12:45:15	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ICSAB01	1	12:47:14	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
LR01	1	12:48:33	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
LR02	1	12:50:32	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV01	1	12:52:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB01	1	12:54:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV02	1	12:58:31	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB02	1	13:00:30	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
LR03	1	13:03:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV03	1	13:06:23	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB03	1	13:08:38	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ZZZZZZ	1	13:11:33																								
ZZZZZZ	1	13:14:44																								
ZZZZZZ	1	13:16:43																								
ZZZZZZ	1	13:18:46																								
ZZZZZZ	1	13:21:42																								
ZZZZZZ	5	13:23:42																								
CCV04	1	13:26:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB04	1	13:28:55	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ZZZZZZ	1	13:32:04																								
ZZZZZZ	1	13:35:04																								
ZZZZZZ	1	13:38:00																								
ZZZZZZ	1	13:40:57																								
ZZZZZZ	1	13:43:13																								
ZZZZZZ	1	13:45:15																								
ZZZZZZ	1	13:48:11																								
ZZZZZZ	1	13:51:22																								
CCV05	1	13:54:32	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB05	1	13:56:46	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
ZZZZZZ	1	13:59:56																								
ZZZZZZ	1	14:03:08																								
ZZZZZZ	1	14:05:08																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																		
ZZZZZZ	1	14:07:20																		
ZZZZZZ	1	14:09:20																		
ZZZZZZ	5	14:11:35																		
ZZZZZZ	1	14:13:47																		
ZZZZZZ	1	14:15:45																		
CCV06	1	14:17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB06	1	14:19:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	14:22:54																		
ZZZZZZ	1	14:25:09																		
ZZZZZZ	1	14:27:08																		
ZZZZZZ	1	14:29:22																		
ZZZZZZ	1	14:31:20																		
ZZZZZZ	1	14:33:32																		
ZZZZZZ	1	14:35:44																		
CCV07	1	14:37:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB07	1	14:40:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	14:43:21																		
ZZZZZZ	1	14:45:39																		
ZZZZZZ	1	14:46:47																		
ZZZZZZ	1	14:48:46																		
ZZZZZZ	1	14:50:45																		
ZZZZZZ	1	14:51:54																		
ZZZZZZ	5	14:53:00																		
CCV08	1	14:55:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB08	1	14:57:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	15:00:44																		
ZZZZZZ	1	15:02:45																		
ZZZZZZ	1	15:04:43																		
ZZZZZZ	1	15:06:56																		
ZZZZZZ	1	15:08:54																		
ZZZZZZ	1	15:10:53																		
ZZZZZZ	1	15:13:05																		
ZZZZZZ	1	15:15:09																		
CCV09	1	15:17:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB09	1	15:19:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1	15:22:33																		
ZZZZZZ	1	15:24:49																		
ZZZZZZ	1	15:26:48																		
ZZZZZZ	1	15:28:46																		
ZZZZZZ	1	15:30:58																		

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	15:33:11																								
ZZZZZZ	1	15:35:09																								
CCV10	1	15:37:07	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB10	1	15:39:08	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062393	1	15:42:17	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062394	1	15:45:30	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511001	1	15:46:45	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062395	1	15:48:43	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062396	1	15:50:41	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062398	1	15:51:48	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
1202062397	5	15:53:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511002	1	15:55:11	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511003	1	15:57:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV11	1	15:59:13	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB11	1	16:01:14	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511004	1	16:04:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511005	1	16:06:10	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511006	1	16:08:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511007	1	16:10:27	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511008	1	16:12:31	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511009	1	16:14:35	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511010	1	16:16:34	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511011	1	16:18:46	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511012	1	16:21:04	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV12	1	16:23:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB12	1	16:25:24	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511013	1	16:28:20	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511014	1	16:30:34	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511015	1	16:32:32	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511016	1	16:34:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511017	1	16:36:56	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511018	1	16:38:55	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511019	1	16:40:54	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
248511020	1	16:42:58	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCV13	1	16:45:02	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	
CCB13	1	16:47:03	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 17-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-2194

Method AV

Data File: 031710S1-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:00:00															X									
S0.2	1	09:02:00															X									
S0.5	1	09:04:00															X									
S2.0	1	09:06:00															X									
S5.0	1	09:08:00															X									
S10	1	09:10:00															X									
ICV01	1	09:12:00															X									
ICB01	1	09:14:00															X									
CRDL01	1	09:16:00															X									
CCV01	1	09:18:00															X									
CCB01	1	09:20:00															X									
ZZZZZZ	1	09:22:00																								
ZZZZZZ	10	09:24:00																								
ZZZZZZ	1	09:26:00																								
ZZZZZZ	1	09:28:00																								
ZZZZZZ	1	09:30:00																								
ZZZZZZ	1	09:32:00																								
ZZZZZZ	5	09:34:00																								
ZZZZZZ	1	09:36:00																								
ZZZZZZ	1	09:38:00																								
ZZZZZZ	1	09:40:00																								
CCV02	1	09:42:00															X									
CCB02	1	09:44:00															X									
ZZZZZZ	1	09:46:00																								
ZZZZZZ	1	09:48:00																								
ZZZZZZ	1	09:50:00																								
ZZZZZZ	1	09:52:00																								
ZZZZZZ	1	09:54:00																								
ZZZZZZ	1	09:56:00																								
ZZZZZZ	1	09:58:00																								
ZZZZZZ	1	10:00:00																								
ZZZZZZ	1	10:02:00																								
1202069773	1	10:04:00															X									
CCV03	1	10:06:00															X									
CCB03	1	10:08:00															X									
1202069774	10	10:10:00															X									
248511001	1	10:12:00															X									
1202069775	1	10:14:00															X									
1202069776	1	10:16:00															X									
1202069778	1	10:18:00															X									

Samp No.	D/F	Run Time
1202069777	5	10:20:00
248511002	1	10:22:00
248511003	1	10:24:00
248511004	1	10:26:00
248511005	1	10:28:00
CCV04	1	10:30:00
CCB04	1	10:32:00
248511006	1	10:34:00
248511007	1	10:36:00
248511008	1	10:38:00
248511009	1	10:40:00
248511010	1	10:42:00
248511011	1	10:44:00
248511012	1	10:46:00
248511013	1	10:48:00
248511014	1	10:50:00
248511015	1	10:52:00
CCV05	1	10:54:00
CCB05	1	10:56:00
248511016	1	10:58:00
248511017	1	11:00:00
248511018	1	11:02:00
248511019	1	11:04:00
248511020	1	11:06:00
ZZZZZZ	1	11:08:00
ZZZZZZ	10	11:10:00
ZZZZZZ	1	11:12:00
ZZZZZZ	1	11:14:00
ZZZZZZ	1	11:16:00
CCV06	1	11:18:00
CCB06	1	11:20:00

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 18-APR-10**Client Sdg:** 10-2194**Method:** MS**Data File:** 100418-3**End Date:** 18-APR-10

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	12:14:00					X																			
S10	1	12:16:00					X																			
S100	1	12:18:00					X																			
ICV01	1	12:20:00					X																			
ICB01	1	12:22:00					X																			
CRDL01	1	12:24:00					X																			
ICSA01	1	12:26:00					X																			
ICSAB01	1	12:28:00					X																			
CCV01	1	12:30:00					X																			
CCB01	1	12:32:00					X																			
1202062399	2	12:34:00					X																			
1202062400	40	12:36:00					X																			
248511001	2	12:38:00					X																			
1202062401	2	12:40:00					X																			
1202062402	2	12:42:00					X																			
1202062404	2	12:44:00					X																			
1202062403	10	12:46:00					X																			
CCV02	1	12:48:00					X																			
CCB02	1	12:50:00					X																			
248511002	2	12:52:00					X																			
248511003	2	12:54:00					X																			
248511004	2	12:56:00					X																			
248511005	2	12:59:00					X																			
248511006	2	13:01:00					X																			
248511007	2	13:03:00					X																			
248511008	2	13:05:00					X																			
248511009	2	13:07:00					X																			
248511010	2	13:09:00					X																			
CCV03	1	13:11:00					X																			
CCB03	1	13:13:00					X																			
248511011	2	13:15:00					X																			
248511012	2	13:17:00					X																			
248511013	2	13:19:00					X																			
248511014	2	13:21:00					X																			
248511015	2	13:23:00					X																			
248511016	2	13:25:00					X																			
248511017	2	13:27:00					X																			
248511018	2	13:29:00					X																			
248511019	2	13:31:00					X																			
248511020	2	13:33:00					X																			

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS4

Start Date: 17-APR-10

End Date: 17-APR-10

Client Sdg: 10-2194

Method MS

Data File: 100417-4

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	U	V	Zn
S0.0	1	13:37:00			X													X		X			X	X		
S10	1	13:41:00			X													X		X			X	X		
S100	1	13:45:00			X													X		X			X	X		
ICV01	1	13:49:00			X													X		X			X	X		
ICB01	1	13:53:00			X													X		X			X	X		
CRDL01	1	13:57:00			X													X		X			X	X		
ICSA01	1	14:01:00			X													X		X			X	X		
ICSAB01	1	14:06:00			X													X		X			X	X		
CCV01	1	14:10:00			X													X		X			X	X		
CCB01	1	14:14:00			X													X		X			X	X		
LR01	1	14:18:00			X													X		X			X	X		
CCV02	1	14:22:00			X													X		X			X	X		
CCB02	1	14:26:00			X													X		X			X	X		
ZZZZZZ	2	14:31:00																								
ZZZZZZ	40	14:35:00																								
ZZZZZZ	2	14:40:00																								
ZZZZZZ	2	14:44:00																								
ZZZZZZ	2	14:48:00																								
ZZZZZZ	2	14:52:00																								
ZZZZZZ	10	14:56:00																								
CCV03	1	15:00:00			X													X		X			X	X		
CCB03	1	15:04:00			X													X		X			X	X		
ZZZZZZ	2	15:08:00																								
ZZZZZZ	2	15:13:00																								
ZZZZZZ	2	15:17:00																								
ZZZZZZ	2	15:21:00																								
ZZZZZZ	2	15:25:00																								
ZZZZZZ	2	15:29:00																								
ZZZZZZ	2	15:33:00																								
ZZZZZZ	2	15:37:00																								
ZZZZZZ	2	15:41:00																								
ZZZZZZ	2	15:46:00																								
CCV04	1	15:50:00			X													X		X			X	X		
CCB04	1	15:54:00			X													X		X			X	X		
ZZZZZZ	2	15:58:00																								
ZZZZZZ	2	16:02:00																								
ZZZZZZ	2	16:06:00																								
ZZZZZZ	2	16:10:00																								
ZZZZZZ	2	16:15:00																								
ZZZZZZ	2	16:19:00																								

[illegible]

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2194

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
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.3	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	80.0	250
	Chromium	267.716	1.5	5
	Cobalt	228.616	1.5	5
	Copper	324.752	3.0	10
	Iron	238.204	80.0	250
	Lead	220.353	2.5	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	64.0	250
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	70.0	250
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2194**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-2194

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
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-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2194

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
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: 10-2194

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Nickel	Phosphorous	Potassium	Selenium	Silica
Parname	Wavelength					
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-
Interement Correction Factors

Lab Code: GELGEL Job No: **10-2194**

Contract: LANL01004

Instrument: OPTIMA3

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

Interement 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: **10-2194**

Contract: LANL01004

Instrument: OPTIMA3

Effective 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: **10-2194**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00676	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.98369	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.06206	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.22134	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.22220	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	-0.01674	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2194

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	14.9992	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	-9.49960	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	3.47778	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	-0.18390	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	-0.60088	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.04741	0.32747
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	10.9289
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	-0.07359	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	5.02864	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.33675	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	1.18768	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-4.30004	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.03286	0.12442	0.79397

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2194**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Lead	Magnesium	Manganese	Molybdenum	Phosphorous
Aluminum	396.153	0.00000	0.00000	0.00000	46.4438	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-14.0269	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	-2.84596	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-0.32136	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.01216	0.24903	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	-0.02702	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	-2.77286	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	-24.4630	0.00000
Manganese	257.61	0.00000	0.03966	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.01826	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	10.3832	0.00000
Potassium	766.49	0.00000	0.07568	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	13.3443	0.00000
Silver	328.068	0.00000	0.00000	0.28019	-0.03095	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	-8.43314	0.00000
Thallium	190.801	0.00000	0.00000	-2.58065	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.08144	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	-6.48399	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	-10.3466	0.00000
Zinc	213.857	0.00000	0.00000	0.06887	-0.04597	0.00000

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2194

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Potassium	Selenium	Silicon	Silver	Sodium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.16274
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.88937	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-2194**

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: **22-MAR-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Strontium	Sulfur	Thallium	Tin	Titanium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	-1.82716	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	-1.32991
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	-8.61809	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	6.59640	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sodium	589.592	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	-10.0432
Tin	189.927	0.00000	0.00000	0.00000	0.00000	-3.37234
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.92753
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	-0.56798

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-2194

Contract: LANL01004

Instrument: OPTIMA4

Effective Dates: 22-MAR-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	-1.62578	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000
Barium	233.527	0.00000	-0.63442	0.00000
Beryllium	313.107	-0.30229	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000
Chromium	267.716	0.78601	-0.47146	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000
Copper	324.752	-0.82619	0.00000	0.00000
Lead	220.353	0.74521	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	-0.33953	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000
Selenium	196.026	-0.96499	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000
Silver	328.068	-1.22996	-11.9401	0.00000
Sodium	589.592	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-7.37871	0.00000
Tin	189.927	0.00000	0.00000	0.00000
Titanium	334.94	0.40930	0.00000	0.00000
Uranium	409.014	0.00000	-57.5852	0.00000
Vanadium	292.402	-0.67226	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA4

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
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
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-2194

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS4

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10

Raw Data

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Reprocessing Begun

Logged In Analyst: Optima3

Technique: ICP Continuous

Results Data Set (original): 041210C

Results Library (original): C:\pe\Optima3\Results\Results.mdb

Results Data Set (reprocessed): 041210D

Results Library (reprocessed): C:\pe\Optima3\Results\Results.mdb

=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 4/12/2010 18:41:48

IEC File: 040610.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: 4/12/2010 16:44:29

Analyst:

Data Type: Reprocessed on 4/12/2010 18:44:00

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc 361.383	595546.6	595546.6	99.269 %		16:47:40
1	Sc Radial	2647.0	2647.0	101 %		16:46:43
1	Y 371.029	500806.7	500806.7	99.186 %		16:47:40
1	Y RADIAL	2943.4	2943.4	100.9 %		16:46:43
1	Ag 328.068†	49.2	49.5	[0.00] ug/L		16:47:40

1	Al 396.153Radial†	-72.1	-71.5	[0.00]	ug/L	16:46:43
1	As 188.979†	-16.1	-16.2	[0.00]	ug/L	16:48:00
1	B 249.677†	-327.0	-329.4	[0.00]	ug/L	16:48:00
1	Ba 233.527†	7.0	7.1	[0.00]	ug/L	16:48:00
1	Be 313.107†	-3280.4	-3304.6	[0.00]	ug/L	16:47:40
1	Ca 317.933Radial†	10.6	10.5	[0.00]	ug/L	16:46:43
1	Cd 226.502†	-164.2	-165.4	[0.00]	ug/L	16:48:00
1	Co 228.616†	-23.6	-23.8	[0.00]	ug/L	16:48:00
1	Cr 267.716†	65.4	65.9	[0.00]	ug/L	16:48:00
1	Cu 324.752†	5182.1	5220.3	[0.00]	ug/L	16:47:40
1	Fe 238.204 Radial†	6.0	5.9	[0.00]	ug/L	16:46:43
1	K 766.490 Radial†	2381.9	2359.3	[0.00]	ug/L	16:46:23
1	Mg 279.077 IEC†	-1.0	-1.0	[0.00]	ug/L	16:46:43
1	Mn 257.610†	348.8	351.4	[0.00]	ug/L	16:48:00
1	Mo 202.031†	16.9	17.1	[0.00]	ug/L	16:48:00
1	Na 589.592 Radial†	-947.7	-938.7	[0.00]	ug/L	16:46:23
1	Ni 231.604†	69.3	69.8	[0.00]	ug/L	16:48:00
1	P 214.914†	169.4	170.6	[0.00]	ug/L	16:48:00
1	Pb 220.353†	-50.0	-50.4	[0.00]	ug/L	16:48:00
1	S 181.975 Axial†	20.7	20.9	[0.00]	ug/L	16:48:00
1	Sb 206.836†	25.4	25.6	[0.00]	ug/L	16:48:00
1	Se 196.026†	-12.2	-12.3	[0.00]	ug/L	16:48:00
1	Si 251.611†	359.6	362.2	[0.00]	ug/L	16:48:00
1	Sn 189.927†	7.7	7.8	[0.00]	ug/L	16:48:00
1	Sr 421.552†	15.0	14.9	[0.00]	ug/L	16:46:23
1	Ti 334.940†	-1113.1	-1121.3	[0.00]	ug/L	16:47:40
1	Tl 190.801†	-29.2	-29.5	[0.00]	ug/L	16:48:00
1	U 409.014†	-1315.7	-1325.4	[0.00]	ug/L	16:47:40
1	V 292.402†	-1269.4	-1278.7	[0.00]	ug/L	16:47:40
1	Zn 213.857†	503.9	507.7	[0.00]	ug/L	16:48:00
1	SiO2†	347.9	350.4	[0.00]	ug/L	16:49:11
2	Sc 361.383	595291.5	595291.5	99.226	%	16:48:05
2	Sc Radial	2608.5	2608.5	99.5	%	16:47:08
2	Y 371.029	501108.1	501108.1	99.245	%	16:48:05
2	Y RADIAL	2903.9	2903.9	99.52	%	16:47:08
2	Ag 328.068†	80.2	80.8	[0.00]	ug/L	16:48:05
2	Al 396.153Radial†	-80.0	-80.4	[0.00]	ug/L	16:47:08
2	As 188.979†	-16.2	-16.3	[0.00]	ug/L	16:48:25
2	B 249.677†	-346.6	-349.3	[0.00]	ug/L	16:48:25
2	Ba 233.527†	4.4	4.4	[0.00]	ug/L	16:48:25
2	Be 313.107†	-3268.1	-3293.6	[0.00]	ug/L	16:48:05
2	Ca 317.933Radial†	11.4	11.4	[0.00]	ug/L	16:47:08
2	Cd 226.502†	-158.4	-159.7	[0.00]	ug/L	16:48:25
2	Co 228.616†	-29.8	-30.0	[0.00]	ug/L	16:48:25
2	Cr 267.716†	77.5	78.1	[0.00]	ug/L	16:48:25
2	Cu 324.752†	5125.3	5165.3	[0.00]	ug/L	16:48:05
2	Fe 238.204 Radial†	7.2	7.2	[0.00]	ug/L	16:47:08
2	K 766.490 Radial†	2446.8	2459.3	[0.00]	ug/L	16:46:48
2	Mg 279.077 IEC†	0.8	0.8	[0.00]	ug/L	16:47:08
2	Mn 257.610†	347.8	350.6	[0.00]	ug/L	16:48:25
2	Mo 202.031†	8.5	8.6	[0.00]	ug/L	16:48:25
2	Na 589.592 Radial†	-951.2	-956.1	[0.00]	ug/L	16:46:48
2	Ni 231.604†	95.9	96.6	[0.00]	ug/L	16:48:25
2	P 214.914†	156.0	157.2	[0.00]	ug/L	16:48:25
2	Pb 220.353†	-45.9	-46.3	[0.00]	ug/L	16:48:25
2	S 181.975 Axial†	24.2	24.4	[0.00]	ug/L	16:48:25
2	Sb 206.836†	25.3	25.5	[0.00]	ug/L	16:48:25
2	Se 196.026†	-14.0	-14.1	[0.00]	ug/L	16:48:25
2	Si 251.611†	353.4	356.1	[0.00]	ug/L	16:48:25
2	Sn 189.927†	10.3	10.4	[0.00]	ug/L	16:48:25
2	Sr 421.552†	11.3	11.4	[0.00]	ug/L	16:46:48
2	Ti 334.940†	-1010.4	-1018.3	[0.00]	ug/L	16:48:05
2	Tl 190.801†	-28.4	-28.7	[0.00]	ug/L	16:48:25
2	U 409.014†	-1307.5	-1317.7	[0.00]	ug/L	16:48:05
2	V 292.402†	-1230.8	-1240.4	[0.00]	ug/L	16:48:05
2	Zn 213.857†	513.7	517.7	[0.00]	ug/L	16:48:25
2	SiO2†	345.2	347.9	[0.00]	ug/L	16:49:31
3	Sc 361.383	608965.4	608965.4	101.51	%	16:48:30
3	Sc Radial	2610.1	2610.1	99.6	%	16:47:33
3	Y 371.029	512839.1	512839.1	101.57	%	16:48:30
3	Y RADIAL	2906.1	2906.1	99.60	%	16:47:33

3	Ag 328.068†	117.0	115.3	[0.00]	ug/L	16:48:30
3	Al 396.153Radial†	-76.8	-77.1	[0.00]	ug/L	16:47:33
3	As 188.979†	-20.8	-20.5	[0.00]	ug/L	16:48:50
3	B 249.677†	-343.9	-338.8	[0.00]	ug/L	16:48:50
3	Ba 233.527†	22.2	21.9	[0.00]	ug/L	16:48:50
3	Be 313.107†	-3250.0	-3201.8	[0.00]	ug/L	16:48:30
3	Ca 317.933Radial†	12.5	12.5	[0.00]	ug/L	16:47:33
3	Cd 226.502†	-162.3	-159.9	[0.00]	ug/L	16:48:50
3	Co 228.616†	-33.8	-33.3	[0.00]	ug/L	16:48:50
3	Cr 267.716†	91.1	89.7	[0.00]	ug/L	16:48:50
3	Cu 324.752†	5188.9	5112.0	[0.00]	ug/L	16:48:30
3	Fe 238.204 Radial†	5.2	5.3	[0.00]	ug/L	16:47:33
3	K 766.490 Radial†	2496.8	2508.1	[0.00]	ug/L	16:47:13
3	Mg 279.077 IEC†	0.6	0.6	[0.00]	ug/L	16:47:33
3	Mn 257.610†	348.4	343.2	[0.00]	ug/L	16:48:50
3	Mo 202.031†	8.5	8.4	[0.00]	ug/L	16:48:50
3	Na 589.592 Radial†	-934.5	-938.8	[0.00]	ug/L	16:47:13
3	Ni 231.604†	67.7	66.7	[0.00]	ug/L	16:48:50
3	P 214.914†	160.8	158.4	[0.00]	ug/L	16:48:50
3	Pb 220.353†	-36.3	-35.8	[0.00]	ug/L	16:48:50
3	S 181.975 Axial†	23.1	22.8	[0.00]	ug/L	16:48:50
3	Sb 206.836†	25.6	25.2	[0.00]	ug/L	16:48:50
3	Se 196.026†	-17.8	-17.5	[0.00]	ug/L	16:48:50
3	Si 251.611†	363.1	357.7	[0.00]	ug/L	16:48:50
3	Sn 189.927†	2.5	2.4	[0.00]	ug/L	16:48:50
3	Sr 421.552†	24.7	24.8	[0.00]	ug/L	16:47:13
3	Ti 334.940†	-1016.8	-1001.7	[0.00]	ug/L	16:48:30
3	Tl 190.801†	-23.4	-23.1	[0.00]	ug/L	16:48:50
3	U 409.014†	-1208.5	-1190.6	[0.00]	ug/L	16:48:30
3	V 292.402†	-1242.0	-1223.6	[0.00]	ug/L	16:48:30
3	Zn 213.857†	503.6	496.1	[0.00]	ug/L	16:48:50
3	SiO2†	364.4	359.0	[0.00]	ug/L	16:49:51

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	599934.5	7822.05	1.30%	100.00	%
Sc Radial	2621.9	21.77	0.83%	100	%
Y 371.029	504918.0	6861.51	1.36%	100.00	%
Y RADIAL	2917.8	22.16	0.76%	100.0	%
Ag 328.068†	81.9	32.87	40.15%	[0.00]	ug/L
Al 396.153Radial†	-76.3	4.54	5.95%	[0.00]	ug/L
As 188.979†	-17.7	2.44	13.77%	[0.00]	ug/L
B 249.677†	-339.2	9.94	2.93%	[0.00]	ug/L
Ba 233.527†	11.1	9.41	84.48%	[0.00]	ug/L
Be 313.107†	-3266.7	56.43	1.73%	[0.00]	ug/L
Ca 317.933Radial†	11.5	1.03	8.97%	[0.00]	ug/L
Cd 226.502†	-161.7	3.26	2.02%	[0.00]	ug/L
Co 228.616†	-29.0	4.84	16.66%	[0.00]	ug/L
Cr 267.716†	77.9	11.91	15.28%	[0.00]	ug/L
Cu 324.752†	5165.8	54.16	1.05%	[0.00]	ug/L
Fe 238.204 Radial†	6.1	0.97	15.91%	[0.00]	ug/L
K 766.490 Radial†	2442.2	75.83	3.10%	[0.00]	ug/L
Mg 279.077 IEC†	0.2	0.98	622.47%	[0.00]	ug/L
Mn 257.610†	348.4	4.50	1.29%	[0.00]	ug/L
Mo 202.031†	11.3	4.96	43.69%	[0.00]	ug/L
Na 589.592 Radial†	-944.5	10.04	1.06%	[0.00]	ug/L
Ni 231.604†	77.7	16.45	21.17%	[0.00]	ug/L
P 214.914†	162.1	7.40	4.57%	[0.00]	ug/L
Pb 220.353†	-44.1	7.53	17.06%	[0.00]	ug/L
S 181.975 Axial†	22.7	1.75	7.72%	[0.00]	ug/L
Sb 206.836†	25.5	0.23	0.92%	[0.00]	ug/L
Se 196.026†	-14.6	2.68	18.28%	[0.00]	ug/L
Si 251.611†	358.7	3.14	0.88%	[0.00]	ug/L
Sn 189.927†	6.9	4.05	59.00%	[0.00]	ug/L
Sr 421.552†	17.0	6.96	40.90%	[0.00]	ug/L
Ti 334.940†	-1047.1	64.80	6.19%	[0.00]	ug/L
Tl 190.801†	-27.1	3.48	12.88%	[0.00]	ug/L
U 409.014†	-1277.9	75.68	5.92%	[0.00]	ug/L
V 292.402†	-1247.6	28.28	2.27%	[0.00]	ug/L

Zn 213.857†	507.1	10.80	2.13%	[0.00] ug/L
SiO2†	352.4	5.82	1.65%	[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: 4/12/2010 16:52:02

Data Type: Reprocessed on 4/12/2010 18:44:02

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	605527.1	605527.1	100.93 %	16:55:11
1	Sc Radial	2743.5	2743.5	105 %	16:54:14
1	Y 371.029	508917.3	508917.3	100.79 %	16:55:11
1	Y RADIAL	3067.8	3067.8	105.1 %	16:54:14
1	Ag 328.068†	14929.2	14709.4	[100] ug/L	16:55:11
1	As 188.979†	101.0	117.7	[100] ug/L	16:55:31
1	B 249.677†	2187.1	2506.0	[100] ug/L	16:55:11
1	Ba 233.527†	7719.9	7637.5	[100] ug/L	16:55:11
1	Be 313.107†	170430.3	172122.9	[100] ug/L	16:55:11
1	Cd 226.502†	4505.9	4626.0	[100] ug/L	16:55:31
1	Co 228.616†	2640.6	2645.2	[100] ug/L	16:55:31
1	Cr 267.716†	5410.1	5282.3	[100] ug/L	16:55:11
1	Cu 324.752†	28182.6	22756.5	[100] ug/L	16:55:11
1	K 766.490 Radial†	6445.6	3717.5	[1000] ug/L	16:53:54
1	Mn 257.610†	56831.7	55958.4	[100] ug/L	16:55:11
1	Mo 202.031†	764.9	746.4	[100] ug/L	16:55:31
1	Ni 231.604†	2288.7	2189.8	[100] ug/L	16:55:31
1	P 214.914†	616.2	448.4	[500] ug/L	16:55:31
1	Pb 220.353†	416.0	456.3	[100] ug/L	16:55:31
1	S 181.975 Axial†	108.3	84.6	[200] ug/L	16:55:31
1	Sb 206.836†	186.5	159.3	[100] ug/L	16:55:31
1	Se 196.026†	63.2	77.3	[100] ug/L	16:55:31
1	Si 251.611†	9734.9	9286.3	[500] ug/L	16:55:11
1	Sn 189.927†	302.6	292.9	[100] ug/L	16:55:31
1	Sr 421.552†	8244.9	7862.3	[100] ug/L	16:54:14
1	Ti 334.940†	41575.2	42238.3	[100] ug/L	16:55:11
1	Tl 190.801†	150.3	175.9	[100] ug/L	16:55:31
1	U 409.014†	1189.0	2456.0	[100] ug/L	16:55:11
1	V 292.402†	7859.5	9034.5	[100] ug/L	16:55:11
1	Zn 213.857†	6409.0	5842.7	[100] ug/L	16:55:11
1	SiO2†	9714.3	9272.1	[1069.5] ug/L	16:56:28
2	Sc 361.383	606862.9	606862.9	101.15 %	16:55:37
2	Sc Radial	2688.3	2688.3	103 %	16:54:39
2	Y 371.029	510322.3	510322.3	101.07 %	16:55:37
2	Y RADIAL	2998.7	2998.7	102.8 %	16:54:39
2	Ag 328.068†	14989.2	14736.2	[100] ug/L	16:55:37
2	As 188.979†	112.6	129.0	[100] ug/L	16:55:57
2	B 249.677†	2209.0	2522.9	[100] ug/L	16:55:37
2	Ba 233.527†	7763.2	7663.4	[100] ug/L	16:55:37
2	Be 313.107†	171570.9	172878.8	[100] ug/L	16:55:37
2	Cd 226.502†	4636.1	4744.9	[100] ug/L	16:55:57
2	Co 228.616†	2717.4	2715.4	[100] ug/L	16:55:57
2	Cr 267.716†	5417.6	5277.9	[100] ug/L	16:55:37
2	Cu 324.752†	28372.6	22882.9	[100] ug/L	16:55:37
2	K 766.490 Radial†	6306.6	3708.6	[1000] ug/L	16:54:19
2	Mn 257.610†	56989.8	55990.8	[100] ug/L	16:55:37
2	Mo 202.031†	791.6	771.2	[100] ug/L	16:55:57
2	Ni 231.604†	2330.7	2226.4	[100] ug/L	16:55:57
2	P 214.914†	633.6	464.3	[500] ug/L	16:55:57
2	Pb 220.353†	414.8	454.2	[100] ug/L	16:55:57
2	S 181.975 Axial†	100.5	76.7	[200] ug/L	16:55:57
2	Sb 206.836†	189.3	161.7	[100] ug/L	16:55:57
2	Se 196.026†	69.4	83.2	[100] ug/L	16:55:57
2	Si 251.611†	9743.8	9273.9	[500] ug/L	16:55:37
2	Sn 189.927†	307.0	296.6	[100] ug/L	16:55:57
2	Sr 421.552†	8077.8	7861.3	[100] ug/L	16:54:39
2	Ti 334.940†	41752.1	42322.6	[100] ug/L	16:55:37
2	Tl 190.801†	164.2	189.4	[100] ug/L	16:55:57

2	U 409.014†	1180.7	2445.2	[100]	ug/L	16:55:37
2	V 292.402†	7951.9	9108.7	[100]	ug/L	16:55:37
2	Zn 213.857†	6477.4	5896.4	[100]	ug/L	16:55:37
2	SiO2†	9466.8	9006.3	[1069.5]	ug/L	16:56:33
3	Sc 361.383	605777.3	605777.3	100.97	%	16:56:02
3	Sc Radial	2722.3	2722.3	104	%	16:55:04
3	Y 371.029	508308.3	508308.3	100.67	%	16:56:02
3	Y RADIAL	3042.7	3042.7	104.3	%	16:55:04
3	Ag 328.068†	14826.3	14601.4	[100]	ug/L	16:56:02
3	As 188.979†	106.5	123.2	[100]	ug/L	16:56:22
3	B 249.677†	2242.9	2560.4	[100]	ug/L	16:56:02
3	Ba 233.527†	7742.5	7656.7	[100]	ug/L	16:56:02
3	Be 313.107†	170551.6	172173.3	[100]	ug/L	16:56:02
3	Cd 226.502†	4503.1	4621.3	[100]	ug/L	16:56:22
3	Co 228.616†	2648.8	2652.3	[100]	ug/L	16:56:22
3	Cr 267.716†	5404.5	5274.5	[100]	ug/L	16:56:02
3	Cu 324.752†	28255.0	22816.7	[100]	ug/L	16:56:02
3	K 766.490 Radial†	6230.2	3558.1	[1000]	ug/L	16:54:44
3	Mn 257.610†	56862.5	55965.7	[100]	ug/L	16:56:02
3	Mo 202.031†	776.2	757.4	[100]	ug/L	16:56:22
3	Ni 231.604†	2290.1	2190.3	[100]	ug/L	16:56:22
3	P 214.914†	616.4	448.4	[500]	ug/L	16:56:22
3	Pb 220.353†	405.8	446.0	[100]	ug/L	16:56:22
3	S 181.975 Axial†	98.7	75.1	[200]	ug/L	16:56:22
3	Sb 206.836†	195.3	168.0	[100]	ug/L	16:56:22
3	Se 196.026†	74.0	87.9	[100]	ug/L	16:56:22
3	Si 251.611†	9771.7	9318.8	[500]	ug/L	16:56:02
3	Sn 189.927†	303.5	293.7	[100]	ug/L	16:56:22
3	Sr 421.552†	8171.2	7852.7	[100]	ug/L	16:55:04
3	Ti 334.940†	41748.0	42392.5	[100]	ug/L	16:56:02
3	Tl 190.801†	154.8	180.4	[100]	ug/L	16:56:22
3	U 409.014†	1229.1	2495.2	[100]	ug/L	16:56:02
3	V 292.402†	7962.5	9133.3	[100]	ug/L	16:56:02
3	Zn 213.857†	6457.9	5888.4	[100]	ug/L	16:56:02
3	SiO2†	9674.1	9228.4	[1069.5]	ug/L	16:56:38

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	606055.7	710.08	0.12%	101.02 %
Sc Radial	2718.0	27.89	1.03%	104 %
Y 371.029	509182.7	1032.88	0.20%	100.84 %
Y RADIAL	3036.4	34.97	1.15%	104.1 %
Ag 328.068†	14682.3	71.33	0.49%	[100] ug/L
As 188.979†	123.3	5.63	4.56%	[100] ug/L
B 249.677†	2529.8	27.84	1.10%	[100] ug/L
Ba 233.527†	7652.5	13.44	0.18%	[100] ug/L
Be 313.107†	172391.7	422.61	0.25%	[100] ug/L
Cd 226.502†	4664.0	70.04	1.50%	[100] ug/L
Co 228.616†	2671.0	38.60	1.45%	[100] ug/L
Cr 267.716†	5278.2	3.90	0.07%	[100] ug/L
Cu 324.752†	22818.7	63.22	0.28%	[100] ug/L
K 766.490 Radial†	3661.4	89.62	2.45%	[1000] ug/L
Mn 257.610†	55971.6	16.99	0.03%	[100] ug/L
Mo 202.031†	758.3	12.42	1.64%	[100] ug/L
Ni 231.604†	2202.2	20.95	0.95%	[100] ug/L
P 214.914†	453.7	9.16	2.02%	[500] ug/L
Pb 220.353†	452.2	5.44	1.20%	[100] ug/L
S 181.975 Axial†	78.8	5.09	6.46%	[200] ug/L
Sb 206.836†	163.0	4.49	2.76%	[100] ug/L
Se 196.026†	82.8	5.35	6.46%	[100] ug/L
Si 251.611†	9293.0	23.17	0.25%	[500] ug/L
Sn 189.927†	294.4	1.96	0.67%	[100] ug/L
Sr 421.552†	7858.8	5.28	0.07%	[100] ug/L
Ti 334.940†	42317.8	77.18	0.18%	[100] ug/L
Tl 190.801†	181.9	6.88	3.78%	[100] ug/L
U 409.014†	2465.4	26.30	1.07%	[100] ug/L
V 292.402†	9092.2	51.43	0.57%	[100] ug/L
Zn 213.857†	5875.8	28.99	0.49%	[100] ug/L
SiO2†	9168.9	142.56	1.55%	[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: 4/12/2010 16:58:49
 Data Type: Reprocessed on 4/12/2010 18:44:13
 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	611470.2	611470.2	101.92 %	17:01:59
1	Sc Radial	2857.7	2857.7	109 %	17:01:01
1	Y 371.029	509492.7	509492.7	100.91 %	17:01:59
1	Y RADIAL	3161.1	3161.1	108.3 %	17:01:01
1	Ag 328.068†	73496.8	72028.4	[500] ug/L	17:01:59
1	Al 396.153Radial†	3765.2	3530.8	[5000] ug/L	17:00:41
1	As 188.979†	614.4	620.4	[500] ug/L	17:02:19
1	B 249.677†	12582.2	12684.0	[500] ug/L	17:01:59
1	Ba 233.527†	38486.3	37749.1	[500] ug/L	17:01:59
1	Be 313.107†	862021.3	849025.5	[500] ug/L	17:01:59
1	Ca 317.933Radial†	1684.3	1533.8	[5000] ug/L	17:01:01
1	Cd 226.502†	23734.3	23448.2	[500] ug/L	17:01:59
1	Co 228.616†	13293.7	13071.9	[500] ug/L	17:02:19
1	Cr 267.716†	26490.1	25912.5	[500] ug/L	17:01:59
1	Cu 324.752†	120515.2	113075.8	[500] ug/L	17:01:59
1	K 766.490 Radial†	22068.3	17804.6	[5000] ug/L	17:00:41
1	Mg 279.077 IEC†	73.6	67.3	[5000] ug/L	17:01:01
1	Mn 257.610†	277773.3	272184.6	[500] ug/L	17:01:59
1	Mo 202.031†	3888.3	3803.6	[500] ug/L	17:02:19
1	Ni 231.604†	11078.8	10792.0	[500] ug/L	17:02:19
1	P 214.914†	2480.0	2271.2	[2500] ug/L	17:02:19
1	Pb 220.353†	2188.5	2191.4	[500] ug/L	17:02:19
1	S 181.975 Axial†	410.5	380.1	[1000] ug/L	17:02:19
1	Sb 206.836†	879.7	837.7	[500] ug/L	17:02:19
1	Se 196.026†	405.7	412.7	[500] ug/L	17:02:19
1	Si 251.611†	47667.6	46409.7	[2500] ug/L	17:01:59
1	Sn 189.927†	1529.8	1494.1	[500] ug/L	17:02:19
1	Sr 421.552†	42939.1	39378.0	[500] ug/L	17:00:41
1	Ti 334.940†	213654.8	210671.3	[500] ug/L	17:01:59
1	Tl 190.801†	895.2	905.4	[500] ug/L	17:02:19
1	U 409.014†	10946.2	12017.5	[500] ug/L	17:01:59
1	V 292.402†	44661.9	45066.9	[500] ug/L	17:01:59
1	Zn 213.857†	29989.9	28916.9	[500] ug/L	17:01:59
1	SiO2†	48478.0	47211.0	[5347.5] ug/L	17:03:16
2	Sc 361.383	614339.7	614339.7	102.40 %	17:02:25
2	Sc Radial	2779.4	2779.4	106 %	17:01:27
2	Y 371.029	512472.2	512472.2	101.50 %	17:02:25
2	Y RADIAL	3053.5	3053.5	104.7 %	17:01:27
2	Ag 328.068†	73868.9	72055.0	[500] ug/L	17:02:25
2	Al 396.153Radial†	3763.0	3626.1	[5000] ug/L	17:01:06
2	As 188.979†	620.7	623.9	[500] ug/L	17:02:45
2	B 249.677†	12693.4	12735.0	[500] ug/L	17:02:25
2	Ba 233.527†	38398.9	37487.4	[500] ug/L	17:02:25
2	Be 313.107†	866635.9	849581.6	[500] ug/L	17:02:25
2	Ca 317.933Radial†	1641.9	1537.4	[5000] ug/L	17:01:27
2	Cd 226.502†	23852.1	23454.5	[500] ug/L	17:02:25
2	Co 228.616†	13250.5	12968.8	[500] ug/L	17:02:45
2	Cr 267.716†	26555.0	25854.5	[500] ug/L	17:02:25
2	Cu 324.752†	121164.9	113157.9	[500] ug/L	17:02:25
2	K 766.490 Radial†	22235.7	18533.4	[5000] ug/L	17:01:06
2	Mg 279.077 IEC†	71.7	67.5	[5000] ug/L	17:01:27
2	Mn 257.610†	278934.3	272045.4	[500] ug/L	17:02:25
2	Mo 202.031†	3868.2	3766.2	[500] ug/L	17:02:45
2	Ni 231.604†	11057.1	10720.1	[500] ug/L	17:02:45
2	P 214.914†	2491.1	2270.6	[2500] ug/L	17:02:45
2	Pb 220.353†	2212.3	2204.6	[500] ug/L	17:02:45
2	S 181.975 Axial†	411.1	378.7	[1000] ug/L	17:02:45
2	Sb 206.836†	866.5	820.8	[500] ug/L	17:02:45

2	Se 196.026†	398.7	404.0	[500]	ug/L	17:02:45
2	Si 251.611†	47791.7	46312.4	[2500]	ug/L	17:02:25
2	Sn 189.927†	1517.9	1475.4	[500]	ug/L	17:02:45
2	Sr 421.552†	42900.2	40452.1	[500]	ug/L	17:01:06
2	Ti 334.940†	214609.9	210624.8	[500]	ug/L	17:02:25
2	Tl 190.801†	884.3	890.6	[500]	ug/L	17:02:45
2	U 409.014†	11101.5	12119.1	[500]	ug/L	17:02:25
2	V 292.402†	44958.1	45151.5	[500]	ug/L	17:02:25
2	Zn 213.857†	30005.9	28795.2	[500]	ug/L	17:02:25
2	SiO2†	48341.5	46855.5	[5347.5]	ug/L	17:03:21
3	Sc 361.383	615051.9	615051.9	102.52	%	17:02:51
3	Sc Radial	2700.5	2700.5	103	%	17:01:52
3	Y 371.029	512930.6	512930.6	101.59	%	17:02:51
3	Y RADIAL	2981.7	2981.7	102.2	%	17:01:52
3	Ag 328.068†	74064.7	72162.4	[500]	ug/L	17:02:51
3	Al 396.153Radial†	3609.1	3580.4	[5000]	ug/L	17:01:32
3	As 188.979†	620.1	622.6	[500]	ug/L	17:03:11
3	B 249.677†	12749.7	12775.5	[500]	ug/L	17:02:51
3	Ba 233.527†	38547.4	37588.8	[500]	ug/L	17:02:51
3	Be 313.107†	869510.8	851405.8	[500]	ug/L	17:02:51
3	Ca 317.933Radial†	1596.8	1538.8	[5000]	ug/L	17:01:52
3	Cd 226.502†	23916.1	23490.0	[500]	ug/L	17:02:51
3	Co 228.616†	13378.5	13078.7	[500]	ug/L	17:03:11
3	Cr 267.716†	26651.6	25918.6	[500]	ug/L	17:02:51
3	Cu 324.752†	121618.1	113463.0	[500]	ug/L	17:02:51
3	K 766.490 Radial†	21320.5	18257.8	[5000]	ug/L	17:01:32
3	Mg 279.077 IEC†	72.6	70.3	[5000]	ug/L	17:01:52
3	Mn 257.610†	279635.1	272413.6	[500]	ug/L	17:02:51
3	Mo 202.031†	3915.7	3808.1	[500]	ug/L	17:03:11
3	Ni 231.604†	11186.6	10834.0	[500]	ug/L	17:03:11
3	P 214.914†	2525.3	2301.1	[2500]	ug/L	17:03:11
3	Pb 220.353†	2218.1	2207.8	[500]	ug/L	17:03:11
3	S 181.975 Axial†	413.1	380.3	[1000]	ug/L	17:03:11
3	Sb 206.836†	887.3	840.0	[500]	ug/L	17:03:11
3	Se 196.026†	402.1	406.9	[500]	ug/L	17:03:11
3	Si 251.611†	48021.8	46482.8	[2500]	ug/L	17:02:51
3	Sn 189.927†	1538.8	1494.1	[500]	ug/L	17:03:11
3	Sr 421.552†	40943.2	39734.6	[500]	ug/L	17:01:32
3	Ti 334.940†	214904.7	210669.7	[500]	ug/L	17:02:51
3	Tl 190.801†	896.7	901.8	[500]	ug/L	17:03:11
3	U 409.014†	10985.7	11993.6	[500]	ug/L	17:02:51
3	V 292.402†	45116.8	45255.5	[500]	ug/L	17:02:51
3	Zn 213.857†	30204.2	28954.7	[500]	ug/L	17:02:51
3	SiO2†	48290.2	46750.9	[5347.5]	ug/L	17:03:27

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	613620.6	1896.01	0.31%	102.28	%
Sc Radial	2779.2	78.64	2.83%	106	%
Y 371.029	511631.8	1866.65	0.36%	101.33	%
Y RADIAL	3065.5	90.28	2.95%	105.1	%
Ag 328.068†	72081.9	70.96	0.10%	[500]	ug/L
Al 396.153Radial†	3579.1	47.66	1.33%	[5000]	ug/L
As 188.979†	622.3	1.72	0.28%	[500]	ug/L
B 249.677†	12731.5	45.85	0.36%	[500]	ug/L
Ba 233.527†	37608.4	131.99	0.35%	[500]	ug/L
Be 313.107†	850004.3	1245.17	0.15%	[500]	ug/L
Ca 317.933Radial†	1536.7	2.57	0.17%	[5000]	ug/L
Cd 226.502†	23464.2	22.52	0.10%	[500]	ug/L
Co 228.616†	13039.8	61.55	0.47%	[500]	ug/L
Cr 267.716†	25895.2	35.39	0.14%	[500]	ug/L
Cu 324.752†	113232.2	204.01	0.18%	[500]	ug/L
K 766.490 Radial†	18198.6	368.00	2.02%	[5000]	ug/L
Mg 279.077 IEC†	68.4	1.69	2.47%	[5000]	ug/L
Mn 257.610†	272214.5	185.90	0.07%	[500]	ug/L
Mo 202.031†	3792.6	23.00	0.61%	[500]	ug/L
Ni 231.604†	10782.0	57.58	0.53%	[500]	ug/L
P 214.914†	2281.0	17.45	0.76%	[2500]	ug/L
Pb 220.353†	2201.2	8.69	0.39%	[500]	ug/L

S 181.975 Axial†	379.7	0.83	0.22%	[1000]	ug/L
Sb 206.836†	832.8	10.52	1.26%	[500]	ug/L
Se 196.026†	407.9	4.42	1.08%	[500]	ug/L
Si 251.611†	46401.6	85.47	0.18%	[2500]	ug/L
Sn 189.927†	1487.9	10.78	0.72%	[500]	ug/L
Sr 421.552†	39854.9	547.05	1.37%	[500]	ug/L
Ti 334.940†	210655.2	26.39	0.01%	[500]	ug/L
Tl 190.801†	899.3	7.73	0.86%	[500]	ug/L
U 409.014†	12043.4	66.62	0.55%	[500]	ug/L
V 292.402†	45158.0	94.42	0.21%	[500]	ug/L
Zn 213.857†	28888.9	83.34	0.29%	[500]	ug/L
SiO2†	46939.1	241.19	0.51%	[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: 4/12/2010 17:05:37

Data Type: Reprocessed on 4/12/2010 18:44:14

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Analysis Time
1	Sc 361.383	604094.8	604094.8	100.69 %	17:08:48
1	Sc Radial	2621.7	2621.7	100.0 %	17:07:50
1	Y 371.029	501957.9	501957.9	99.414 %	17:08:48
1	Y RADIAL	2891.1	2891.1	99.09 %	17:07:50
1	Ag 328.068†	142976.9	141910.4	[1000] ug/L	17:08:53
1	Al 396.153Radial†	7083.0	7159.7	[10000] ug/L	17:07:30
1	As 188.979†	1238.6	1247.8	[1000] ug/L	17:09:13
1	B 249.677†	24963.6	25130.8	[1000] ug/L	17:08:53
1	Ba 233.527†	74474.5	73950.5	[1000] ug/L	17:08:53
1	Be 313.107†	1722883.6	1714285.0	[1000] ug/L	17:08:48
1	Ca 317.933Radial†	2992.7	2981.4	[10000] ug/L	17:07:50
1	Cd 226.502†	46060.1	45904.5	[1000] ug/L	17:08:53
1	Co 228.616†	26171.7	26020.5	[1000] ug/L	17:08:53
1	Cr 267.716†	51575.3	51142.2	[1000] ug/L	17:08:53
1	Cu 324.752†	227710.5	220976.5	[1000] ug/L	17:08:53
1	Fe 238.204 Radial†	397.5	391.4	[10000] ug/L	17:07:50
1	K 766.490 Radial†	39174.3	36734.2	[10000] ug/L	17:07:30
1	Mg 279.077 IEC†	127.2	127.1	[10000] ug/L	17:07:50
1	Mn 257.610†	550737.8	546596.5	[1000] ug/L	17:08:48
1	Mo 202.031†	7558.8	7495.4	[1000] ug/L	17:09:13
1	Na 589.592 Radial†	13959.5	14904.8	[10000] ug/L	17:07:30
1	Ni 231.604†	21746.8	21519.3	[1000] ug/L	17:08:53
1	P 214.914†	4753.8	4559.0	[5000] ug/L	17:09:13
1	Pb 220.353†	4323.5	4337.8	[1000] ug/L	17:09:13
1	S 181.975 Axial†	777.4	749.4	[2000] ug/L	17:09:13
1	Sb 206.836†	1690.3	1653.2	[1000] ug/L	17:09:13
1	Se 196.026†	804.1	813.2	[1000] ug/L	17:09:13
1	Si 251.611†	92182.9	91189.3	[5000] ug/L	17:08:53
1	Sn 189.927†	2993.8	2966.3	[1000] ug/L	17:09:13
1	Sr 421.552†	74645.0	74632.0	[1000] ug/L	17:07:30
1	Ti 334.940†	425970.9	424084.4	[1000] ug/L	17:08:48
1	Tl 190.801†	1764.6	1779.5	[1000] ug/L	17:09:13
1	U 409.014†	23172.0	24290.3	[1000] ug/L	17:08:53
1	V 292.402†	88817.0	89452.9	[1000] ug/L	17:08:53
1	Zn 213.857†	57629.6	56725.5	[1000] ug/L	17:08:53
1	SiO2†	97152.6	96131.1	[10695] ug/L	17:10:21
2	Sc 361.383	596986.8	596986.8	99.509 %	17:09:19
2	Sc Radial	2670.5	2670.5	102 %	17:08:15
2	Y 371.029	497039.1	497039.1	98.440 %	17:09:19
2	Y RADIAL	2952.4	2952.4	101.2 %	17:08:15
2	Ag 328.068†	149250.1	149905.2	[1000] ug/L	17:09:24
2	Al 396.153Radial†	7189.5	7134.9	[10000] ug/L	17:07:55
2	As 188.979†	1307.6	1331.7	[1000] ug/L	17:09:44
2	B 249.677†	26431.9	26901.6	[1000] ug/L	17:09:24
2	Ba 233.527†	77466.5	77837.8	[1000] ug/L	17:09:24
2	Be 313.107†	1705708.2	1717397.0	[1000] ug/L	17:09:19
2	Ca 317.933Radial†	3093.1	3025.3	[10000] ug/L	17:08:15
2	Cd 226.502†	48079.4	48478.5	[1000] ug/L	17:09:24
2	Co 228.616†	27199.9	27363.2	[1000] ug/L	17:09:24
2	Cr 267.716†	53726.0	53913.4	[1000] ug/L	17:09:24
2	Cu 324.752†	238911.9	234925.7	[1000] ug/L	17:09:24
2	Fe 238.204 Radial†	400.9	387.4	[10000] ug/L	17:08:15
2	K 766.490 Radial†	39763.1	36596.8	[10000] ug/L	17:07:55
2	Mg 279.077 IEC†	134.6	132.0	[10000] ug/L	17:08:15
2	Mn 257.610†	543426.6	545761.5	[1000] ug/L	17:09:19
2	Mo 202.031†	7895.2	7922.8	[1000] ug/L	17:09:44
2	Na 589.592 Radial†	14219.6	14905.1	[10000] ug/L	17:07:55
2	Ni 231.604†	22556.3	22589.9	[1000] ug/L	17:09:24

2	P 214.914†	4995.6	4858.2	[5000]	ug/L	17:09:44
2	Pb 220.353†	4510.7	4577.1	[1000]	ug/L	17:09:44
2	S 181.975 Axial†	830.9	812.3	[2000]	ug/L	17:09:44
2	Sb 206.836†	1791.8	1775.2	[1000]	ug/L	17:09:44
2	Se 196.026†	845.2	864.0	[1000]	ug/L	17:09:44
2	Si 251.611†	96443.5	96561.0	[5000]	ug/L	17:09:24
2	Sn 189.927†	3127.2	3135.8	[1000]	ug/L	17:09:44
2	Sr 421.552†	75902.6	74503.3	[1000]	ug/L	17:07:55
2	Ti 334.940†	420797.8	423922.6	[1000]	ug/L	17:09:19
2	Tl 190.801†	1846.5	1882.7	[1000]	ug/L	17:09:44
2	U 409.014†	24297.0	25694.9	[1000]	ug/L	17:09:24
2	V 292.402†	92760.3	94465.9	[1000]	ug/L	17:09:24
2	Zn 213.857†	60186.9	59976.9	[1000]	ug/L	17:09:24
2	SiO2†	98229.1	98361.7	[10695]	ug/L	17:10:26
3	Sc 361.383	623992.4	623992.4	104.01	%	17:09:50
3	Sc Radial	2691.6	2691.6	103	%	17:08:40
3	Y 371.029	518152.2	518152.2	102.62	%	17:09:50
3	Y RADIAL	2970.6	2970.6	101.8	%	17:08:40
3	Ag 328.068†	150099.9	144230.9	[1000]	ug/L	17:09:55
3	Al 396.153Radial†	7440.6	7324.3	[10000]	ug/L	17:08:20
3	As 188.979†	1298.4	1266.0	[1000]	ug/L	17:10:15
3	B 249.677†	26731.3	26039.8	[1000]	ug/L	17:09:55
3	Ba 233.527†	78338.0	75306.5	[1000]	ug/L	17:09:55
3	Be 313.107†	1787584.9	1721931.6	[1000]	ug/L	17:09:50
3	Ca 317.933Radial†	3120.8	3028.5	[10000]	ug/L	17:08:40
3	Cd 226.502†	48713.6	46997.1	[1000]	ug/L	17:09:55
3	Co 228.616†	27568.0	26534.2	[1000]	ug/L	17:09:55
3	Cr 267.716†	54264.2	52094.1	[1000]	ug/L	17:09:55
3	Cu 324.752†	239813.9	225402.1	[1000]	ug/L	17:09:55
3	Fe 238.204 Radial†	407.3	390.7	[10000]	ug/L	17:08:40
3	K 766.490 Radial†	40743.0	37245.9	[10000]	ug/L	17:08:20
3	Mg 279.077 IEC†	137.9	134.2	[10000]	ug/L	17:08:40
3	Mn 257.610†	569440.4	547137.3	[1000]	ug/L	17:09:50
3	Mo 202.031†	7891.9	7576.3	[1000]	ug/L	17:10:15
3	Na 589.592 Radial†	14603.2	15169.6	[10000]	ug/L	17:08:20
3	Ni 231.604†	22868.7	21909.3	[1000]	ug/L	17:09:55
3	P 214.914†	5007.9	4652.7	[5000]	ug/L	17:10:15
3	Pb 220.353†	4540.1	4409.2	[1000]	ug/L	17:10:15
3	S 181.975 Axial†	840.5	785.4	[2000]	ug/L	17:10:15
3	Sb 206.836†	1778.5	1684.5	[1000]	ug/L	17:10:15
3	Se 196.026†	845.3	827.3	[1000]	ug/L	17:10:15
3	Si 251.611†	97221.9	93114.8	[5000]	ug/L	17:09:55
3	Sn 189.927†	3157.0	3028.5	[1000]	ug/L	17:10:15
3	Sr 421.552†	77907.9	75873.6	[1000]	ug/L	17:08:20
3	Ti 334.940†	440246.3	424319.8	[1000]	ug/L	17:09:50
3	Tl 190.801†	1845.7	1801.6	[1000]	ug/L	17:10:15
3	U 409.014†	24293.5	24634.7	[1000]	ug/L	17:09:55
3	V 292.402†	93653.6	91290.4	[1000]	ug/L	17:09:55
3	Zn 213.857†	60759.0	57909.3	[1000]	ug/L	17:09:55
3	SiO2†	99381.8	95197.7	[10695]	ug/L	17:10:31

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	608358.0	13998.47	2.30%	101.40 %
Sc Radial	2661.3	35.82	1.35%	102 %
Y 371.029	505716.4	11046.95	2.18%	100.16 %
Y RADIAL	2938.0	41.62	1.42%	100.7 %
Ag 328.068†	145348.8	4112.96	2.83%	[1000] ug/L
Al 396.153Radial†	7206.3	102.96	1.43%	[10000] ug/L
As 188.979†	1281.8	44.13	3.44%	[1000] ug/L
B 249.677†	26024.1	885.49	3.40%	[1000] ug/L
Ba 233.527†	75698.3	1973.07	2.61%	[1000] ug/L
Be 313.107†	1717871.2	3845.27	0.22%	[1000] ug/L
Ca 317.933Radial†	3011.7	26.33	0.87%	[10000] ug/L
Cd 226.502†	47126.7	1291.85	2.74%	[1000] ug/L
Co 228.616†	26639.3	677.51	2.54%	[1000] ug/L
Cr 267.716†	52383.2	1408.03	2.69%	[1000] ug/L
Cu 324.752†	227101.4	7128.19	3.14%	[1000] ug/L
Fe 238.204 Radial†	389.8	2.12	0.54%	[10000] ug/L

K 766.490 Radial†	36858.9	342.07	0.93%	[10000]	ug/L
Mg 279.077 IEC†	131.1	3.63	2.77%	[10000]	ug/L
Mn 257.610†	546498.4	693.14	0.13%	[1000]	ug/L
Mo 202.031†	7664.8	227.06	2.96%	[1000]	ug/L
Na 589.592 Radial†	14993.2	152.79	1.02%	[10000]	ug/L
Ni 231.604†	22006.2	541.81	2.46%	[1000]	ug/L
P 214.914†	4690.0	153.02	3.26%	[5000]	ug/L
Pb 220.353†	4441.4	122.85	2.77%	[1000]	ug/L
S 181.975 Axial†	782.4	31.58	4.04%	[2000]	ug/L
Sb 206.836†	1704.3	63.35	3.72%	[1000]	ug/L
Se 196.026†	834.8	26.23	3.14%	[1000]	ug/L
Si 251.611†	93621.7	2721.49	2.91%	[5000]	ug/L
Sn 189.927†	3043.5	85.72	2.82%	[1000]	ug/L
Sr 421.552†	75003.0	756.73	1.01%	[1000]	ug/L
Ti 334.940†	424108.9	199.70	0.05%	[1000]	ug/L
Tl 190.801†	1821.3	54.33	2.98%	[1000]	ug/L
U 409.014†	24873.3	732.05	2.94%	[1000]	ug/L
V 292.402†	91736.4	2536.05	2.76%	[1000]	ug/L
Zn 213.857†	58203.9	1645.58	2.83%	[1000]	ug/L
SiO2†	96563.5	1625.71	1.68%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 4/12/2010 17:12:43

Data Type: Reprocessed on 4/12/2010 18:44:15

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	597568.5	597568.5	99.606 %	17:15:53
1	Sc Radial	2698.8	2698.8	103 %	17:14:56
1	Y 371.029	495714.1	495714.1	98.177 %	17:15:53
1	Y RADIAL	2998.0	2998.0	102.7 %	17:14:56
1	Al 396.153Radial†	36235.4	35279.3	[50000] ug/L	17:14:36
1	Ca 317.933Radial†	15309.1	14861.4	[50000] ug/L	17:14:36
1	Fe 238.204 Radial†	812.3	783.0	[20000] ug/L	17:14:56
1	Mg 279.077 IEC†	654.1	635.3	[50000] ug/L	17:14:56
1	Na 589.592 Radial†	33162.2	33161.8	[20000] ug/L	17:14:36
2	Sc 361.383	595526.7	595526.7	99.265 %	17:15:59
2	Sc Radial	2672.0	2672.0	102 %	17:15:21
2	Y 371.029	494530.4	494530.4	97.943 %	17:15:59
2	Y RADIAL	2960.5	2960.5	101.5 %	17:15:21
2	Al 396.153Radial†	36723.6	36110.9	[50000] ug/L	17:15:01
2	Ca 317.933Radial†	15539.9	15236.8	[50000] ug/L	17:15:01
2	Fe 238.204 Radial†	807.3	786.0	[20000] ug/L	17:15:21
2	Mg 279.077 IEC†	643.0	630.8	[50000] ug/L	17:15:21
2	Na 589.592 Radial†	33641.6	33954.9	[20000] ug/L	17:15:01
3	Sc 361.383	603116.4	603116.4	100.53 %	17:16:05
3	Sc Radial	2679.2	2679.2	102 %	17:15:46
3	Y 371.029	500956.1	500956.1	99.215 %	17:16:05
3	Y RADIAL	2962.3	2962.3	101.5 %	17:15:46
3	Al 396.153Radial†	36470.7	35766.1	[50000] ug/L	17:15:26
3	Ca 317.933Radial†	15429.3	15087.5	[50000] ug/L	17:15:26
3	Fe 238.204 Radial†	806.6	783.2	[20000] ug/L	17:15:46
3	Mg 279.077 IEC†	651.1	637.0	[50000] ug/L	17:15:46
3	Na 589.592 Radial†	33511.2	33738.1	[20000] ug/L	17:15:26

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	598737.2	3927.52	0.66%	99.800 %
Sc Radial	2683.3	13.84	0.52%	102 %
Y 371.029	497066.9	3419.76	0.69%	98.445 %
Y RADIAL	2973.6	21.12	0.71%	101.9 %
Al 396.153Radial†	35718.8	417.80	1.17%	[50000] ug/L
Ca 317.933Radial†	15061.9	189.02	1.25%	[50000] ug/L
Fe 238.204 Radial†	784.1	1.68	0.21%	[20000] ug/L
Mg 279.077 IEC†	634.4	3.19	0.50%	[50000] ug/L
Na 589.592 Radial†	33618.3	409.90	1.22%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	145.1	0.00000	0.999994	
Al 396.153Radial	3	Lin Thru 0	0.0	0.7146	0.00000	0.999999	
As 188.979	3	Lin Thru 0	0.0	1.274	0.00000	0.999928	
B 249.677	3	Lin Thru 0	0.0	25.91	0.00000	0.999961	
Ba 233.527	3	Lin Thru 0	0.0	75.61	0.00000	0.999996	
Be 313.107	3	Lin Thru 0	0.0	1714	0.00000	0.999991	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.3013	0.00000	0.999998	
Cd 226.502	3	Lin Thru 0	0.0	47.08	0.00000	0.999998	
Co 228.616	3	Lin Thru 0	0.0	26.53	0.00000	0.999964	
Cr 267.716	3	Lin Thru 0	0.0	52.27	0.00000	0.999989	
Cu 324.752	3	Lin Thru 0	0.0	227.0	0.00000	0.999999	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0392	0.00000	0.999997	

K 766.490 Radial	3	Lin Thru 0	0.0	3.677	0.00000	0.999987
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0127	0.00000	0.999953
Mn 257.610	3	Lin Thru 0	0.0	546.2	0.00000	0.999996
Mo 202.031	3	Lin Thru 0	0.0	7.648	0.00000	0.999991
Na 589.592 Radia	2	Lin Thru 0	0.0	1.645	0.00000	0.999026
Ni 231.604	3	Lin Thru 0	0.0	21.92	0.00000	0.999968
P 214.914	3	Lin Thru 0	0.0	0.9327	0.00000	0.999937
Pb 220.353	3	Lin Thru 0	0.0	4.434	0.00000	0.999992
S 181.975 Axial	3	Lin Thru 0	0.0	0.3889	0.00000	0.999930
Sb 206.836	3	Lin Thru 0	0.0	1.696	0.00000	0.999953
Se 196.026	3	Lin Thru 0	0.0	0.8310	0.00000	0.999958
Si 251.611	3	Lin Thru 0	0.0	18.69	0.00000	0.999994
Sn 189.927	3	Lin Thru 0	0.0	3.029	0.00000	0.999957
Sr 421.552	3	Lin Thru 0	0.0	75.97	0.00000	0.999691
Ti 334.940	3	Lin Thru 0	0.0	423.5	0.00000	0.999997
Tl 190.801	3	Lin Thru 0	0.0	1.817	0.00000	0.999988
U 409.014	3	Lin Thru 0	0.0	24.72	0.00000	0.999920
V 292.402	3	Lin Thru 0	0.0	91.45	0.00000	0.999981
Zn 213.857	3	Lin Thru 0	0.0	58.12	0.00000	0.999995
SiO2	3	Lin Thru 0	0.0	8.975	0.00000	0.999930

Sequence No.: 6

Sample ID: ICV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 4/12/2010 17:18:16

Data Type: Reprocessed on 4/12/2010 18:44:16

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	634334.5	634334.5	105.73 %		17:21:27
1	Sc Radial	2706.9	2706.9	103 %		17:20:29
1	Y 371.029	528802.5	528802.5	104.73 %		17:21:27
1	Y RADIAL	2988.2	2988.2	102.4 %		17:20:29
1	Ag 328.068†	40428.4	38154.1	266.00 ug/L	266.00 ppb	17:21:27
1	Al 396.153Radial†	3814.5	3771.1	5250.7 ug/L	5250.7 ppb	17:20:09
1	As 188.979†	615.2	599.5	474.87 ug/L	474.87 ppb	17:21:47
1	B 249.677†	14398.1	13956.4	536.39 ug/L	536.39 ppb	17:21:27
1	Ba 233.527†	41413.8	39156.8	519.33 ug/L	519.33 ppb	17:21:27
1	Be 313.107†	476896.2	454300.9	266.14 ug/L	266.14 ppb	17:21:27
1	Ca 317.933Radial†	1633.7	1571.0	5214.1 ug/L	5214.1 ppb	17:20:29
1	Cd 226.502†	25320.6	24109.1	511.87 ug/L	511.87 ppb	17:21:27
1	Co 228.616†	14324.5	13576.7	511.93 ug/L	511.93 ppb	17:21:47
1	Cr 267.716†	27802.4	26216.8	503.01 ug/L	503.01 ppb	17:21:27
1	Cu 324.752†	131063.0	118789.6	523.16 ug/L	523.16 ppb	17:21:27
1	Fe 238.204 Radial†	219.9	206.9	5298.2 ug/L	5298.2 ppb	17:20:29
1	K 766.490 Radial†	12388.6	9557.4	2596.2 ug/L	2596.2 ppb	17:20:09
1	Mg 279.077 IEC†	73.4	70.9	5579.5 ug/L	5579.5 ppb	17:20:29
1	Mn 257.610†	300313.4	283679.0	519.78 ug/L	519.78 ppb	17:21:27
1	Mo 202.031†	4394.2	4144.6	542.36 ug/L	542.36 ppb	17:21:47
1	Na 589.592 Radial†	3399.4	4237.2	2576.4 ug/L	2576.4 ppb	17:20:09
1	Ni 231.604†	11513.0	10810.9	492.89 ug/L	492.89 ppb	17:21:47
1	P 214.914†	2633.9	2329.0	2374.7 ug/L	2374.7 ppb	17:21:47
1	Pb 220.353†	2297.0	2216.6	501.34 ug/L	501.34 ppb	17:21:47
1	S 181.975 Axial†	1040.0	960.9	2469.4 ug/L	2469.4 ppb	17:21:47
1	Sb 206.836†	899.2	825.0	505.69 ug/L	505.69 ppb	17:21:47
1	Se 196.026†	2244.3	2137.2	2594.4 ug/L	2594.4 ppb	17:21:47
1	Si 251.611†	97745.2	92085.8	4920.1 ug/L	4920.1 ppb	17:21:27
1	Sn 189.927†	1709.9	1610.3	532.90 ug/L	532.90 ppb	17:21:47
1	Sr 421.552†	44348.4	42939.1	565.21 ug/L	565.21 ppb	17:20:09
1	Ti 334.940†	224260.8	213146.3	503.01 ug/L	503.01 ppb	17:21:27
1	Tl 190.801†	981.5	955.3	528.97 ug/L	528.97 ppb	17:21:47
1	U 409.014†	11391.7	12051.9	485.48 ug/L	485.48 ppb	17:21:27
1	V 292.402†	47897.1	46547.2	516.45 ug/L	516.45 ppb	17:21:27
1	Zn 213.857†	32394.8	30130.9	513.64 ug/L	513.64 ppb	17:21:27
1	SiO2†	95315.8	89794.4	9989.7 ug/L	9989.7 ppb	17:22:44
2	Sc 361.383	625482.6	625482.6	104.26 %		17:21:53
2	Sc Radial	2712.4	2712.4	103 %		17:20:54
2	Y 371.029	521826.0	521826.0	103.35 %		17:21:53
2	Y RADIAL	3005.3	3005.3	103.0 %		17:20:54
2	Ag 328.068†	39766.3	38060.1	265.35 ug/L	265.35 ppb	17:21:53
2	Al 396.153Radial†	3799.6	3749.1	5219.6 ug/L	5219.6 ppb	17:20:34
2	As 188.979†	629.5	621.4	492.05 ug/L	492.05 ppb	17:22:13
2	B 249.677†	14245.2	14002.6	538.14 ug/L	538.14 ppb	17:21:53
2	Ba 233.527†	40746.3	39070.9	518.19 ug/L	518.19 ppb	17:21:53
2	Be 313.107†	468994.6	453105.0	265.44 ug/L	265.44 ppb	17:21:53
2	Ca 317.933Radial†	1639.4	1573.2	5221.5 ug/L	5221.5 ppb	17:20:54
2	Cd 226.502†	24859.5	24005.8	509.68 ug/L	509.68 ppb	17:21:53
2	Co 228.616†	14411.7	13852.1	522.33 ug/L	522.33 ppb	17:22:13
2	Cr 267.716†	27283.2	26090.9	500.60 ug/L	500.60 ppb	17:21:53
2	Cu 324.752†	128752.8	118328.0	521.13 ug/L	521.13 ppb	17:21:53
2	Fe 238.204 Radial†	220.4	206.9	5299.4 ug/L	5299.4 ppb	17:20:54
2	K 766.490 Radial†	12341.4	9487.4	2577.1 ug/L	2577.1 ppb	17:20:34
2	Mg 279.077 IEC†	72.7	70.1	5511.9 ug/L	5511.9 ppb	17:20:54
2	Mn 257.610†	295112.2	282709.8	518.01 ug/L	518.01 ppb	17:21:53
2	Mo 202.031†	4394.6	4203.7	550.10 ug/L	550.10 ppb	17:22:13
2	Na 589.592 Radial†	3391.9	4223.2	2567.9 ug/L	2567.9 ppb	17:20:34
2	Ni 231.604†	11589.2	11038.1	503.25 ug/L	503.25 ppb	17:22:13

2	P 214.914†	2647.9	2377.7	2427.5 ug/L	2427.5 ppb	17:22:13
2	Pb 220.353†	2328.5	2277.5	515.10 ug/L	515.10 ppb	17:22:13
2	S 181.975 Axial†	1036.9	971.9	2497.6 ug/L	2497.6 ppb	17:22:13
2	Sb 206.836†	911.5	848.8	520.08 ug/L	520.08 ppb	17:22:13
2	Se 196.026†	2275.1	2196.8	2666.1 ug/L	2666.1 ppb	17:22:13
2	Si 251.611†	95996.8	91717.0	4900.3 ug/L	4900.3 ppb	17:21:53
2	Sn 189.927†	1718.5	1641.5	543.19 ug/L	543.19 ppb	17:22:13
2	Sr 421.552†	43946.1	42462.6	558.93 ug/L	558.93 ppb	17:20:34
2	Ti 334.940†	220415.0	212459.2	501.40 ug/L	501.40 ppb	17:21:53
2	Tl 190.801†	990.6	977.2	540.97 ug/L	540.97 ppb	17:22:13
2	U 409.014†	11085.1	11910.2	479.75 ug/L	479.75 ppb	17:21:53
2	V 292.402†	47038.3	46364.6	514.56 ug/L	514.56 ppb	17:21:53
2	Zn 213.857†	31795.5	29989.7	511.15 ug/L	511.15 ppb	17:21:53
2	SiO2†	94672.5	90453.2	10063 ug/L	10063 ppb	17:22:49
3	Sc 361.383	626286.0	626286.0	104.39 %		17:22:19
3	Sc Radial	2757.9	2757.9	105 %		17:21:19
3	Y 371.029	521961.7	521961.7	103.38 %		17:22:19
3	Y RADIAL	3053.0	3053.0	104.6 %		17:21:19
3	Ag 328.068†	39708.3	37955.7	264.62 ug/L	264.62 ppb	17:22:19
3	Al 396.153Radial†	3754.6	3645.8	5075.6 ug/L	5075.6 ppb	17:20:59
3	As 188.979†	603.3	595.6	471.75 ug/L	471.75 ppb	17:22:39
3	B 249.677†	14288.5	14026.5	539.11 ug/L	539.11 ppb	17:22:19
3	Ba 233.527†	40787.5	39060.2	518.05 ug/L	518.05 ppb	17:22:19
3	Be 313.107†	468607.5	452157.2	264.88 ug/L	264.88 ppb	17:22:19
3	Ca 317.933Radial†	1662.9	1569.4	5208.9 ug/L	5208.9 ppb	17:21:19
3	Cd 226.502†	24916.8	24030.1	510.19 ug/L	510.19 ppb	17:22:19
3	Co 228.616†	14074.3	13511.2	509.46 ug/L	509.46 ppb	17:22:39
3	Cr 267.716†	27297.3	26070.9	500.21 ug/L	500.21 ppb	17:22:19
3	Cu 324.752†	128707.3	118126.0	520.24 ug/L	520.24 ppb	17:22:19
3	Fe 238.204 Radial†	223.7	206.5	5288.9 ug/L	5288.9 ppb	17:21:19
3	K 766.490 Radial†	12191.8	9148.3	2485.0 ug/L	2485.0 ppb	17:20:59
3	Mg 279.077 IEC†	72.1	68.4	5376.7 ug/L	5376.7 ppb	17:21:19
3	Mn 257.610†	295469.3	282688.8	517.97 ug/L	517.97 ppb	17:22:19
3	Mo 202.031†	4313.1	4120.3	539.19 ug/L	539.19 ppb	17:22:39
3	Na 589.592 Radial†	3369.0	4147.3	2521.8 ug/L	2521.8 ppb	17:20:59
3	Ni 231.604†	11323.8	10769.7	491.01 ug/L	491.01 ppb	17:22:39
3	P 214.914†	2587.8	2316.8	2362.3 ug/L	2362.3 ppb	17:22:39
3	Pb 220.353†	2288.9	2236.8	505.84 ug/L	505.84 ppb	17:22:39
3	S 181.975 Axial†	1006.7	941.7	2420.0 ug/L	2420.0 ppb	17:22:39
3	Sb 206.836†	888.4	825.6	505.95 ug/L	505.95 ppb	17:22:39
3	Se 196.026†	2204.5	2126.4	2581.2 ug/L	2581.2 ppb	17:22:39
3	Si 251.611†	96060.4	91659.9	4897.4 ug/L	4897.4 ppb	17:22:19
3	Sn 189.927†	1683.2	1605.5	531.32 ug/L	531.32 ppb	17:22:39
3	Sr 421.552†	43534.4	41370.3	544.56 ug/L	544.56 ppb	17:20:59
3	Ti 334.940†	220434.5	212206.7	500.81 ug/L	500.81 ppb	17:22:19
3	Tl 190.801†	956.6	943.4	522.41 ug/L	522.41 ppb	17:22:39
3	U 409.014†	11205.9	12012.3	483.89 ug/L	483.89 ppb	17:22:19
3	V 292.402†	47128.3	46392.9	514.72 ug/L	514.72 ppb	17:22:19
3	Zn 213.857†	31880.9	30032.3	511.97 ug/L	511.97 ppb	17:22:19
3	SiO2†	94726.0	90387.9	10056 ug/L	10056 ppb	17:22:54

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	628701.0	104.79 %	0.816			0.78%
Sc Radial	2725.7	104 %	1.1			1.03%
Y 371.029	524196.7	103.82 %	0.790			0.76%
Y RADIAL	3015.5	103.3 %	1.15			1.11%
Ag 328.068†	38056.7	265.32 ug/L	0.688	265.32 ppb	0.688	0.26%
QC value within limits for Ag 328.068 Recovery = 106.13%						
Al 396.153Radial†	3722.0	5182.0 ug/L	93.45	5182.0 ppb	93.45	1.80%
QC value within limits for Al 396.153Radial Recovery = 103.64%						
As 188.979†	605.5	479.55 ug/L	10.933	479.55 ppb	10.933	2.28%
QC value within limits for As 188.979 Recovery = 95.91%						
B 249.677†	13995.1	537.88 ug/L	1.375	537.88 ppb	1.375	0.26%
QC value within limits for B 249.677 Recovery = 107.58%						
Ba 233.527†	39096.0	518.53 ug/L	0.703	518.53 ppb	0.703	0.14%
QC value within limits for Ba 233.527 Recovery = 103.71%						
Be 313.107†	453187.7	265.49 ug/L	0.629	265.49 ppb	0.629	0.24%
QC value within limits for Be 313.107 Recovery = 106.19%						

Ca 317.933Radial†	1571.2	5214.8 ug/L	6.33	5214.8 ppb	6.33	0.12%
QC value within limits for Ca 317.933Radial Recovery = 104.30%						
Cd 226.502†	24048.3	510.58 ug/L	1.145	510.58 ppb	1.145	0.22%
QC value within limits for Cd 226.502 Recovery = 102.12%						
Co 228.616†	13646.7	514.58 ug/L	6.832	514.58 ppb	6.832	1.33%
QC value within limits for Co 228.616 Recovery = 102.92%						
Cr 267.716†	26126.2	501.27 ug/L	1.515	501.27 ppb	1.515	0.30%
QC value within limits for Cr 267.716 Recovery = 100.25%						
Cu 324.752†	118414.5	521.51 ug/L	1.498	521.51 ppb	1.498	0.29%
QC value within limits for Cu 324.752 Recovery = 104.30%						
Fe 238.204 Radial†	206.8	5295.5 ug/L	5.73	5295.5 ppb	5.73	0.11%
QC value within limits for Fe 238.204 Radial Recovery = 105.91%						
K 766.490 Radial†	9397.7	2552.8 ug/L	59.49	2552.8 ppb	59.49	2.33%
QC value within limits for K 766.490 Radial Recovery = 102.11%						
Mg 279.077 IEC†	69.8	5489.4 ug/L	103.24	5489.4 ppb	103.24	1.88%
QC value within limits for Mg 279.077 IEC Recovery = 109.79%						
Mn 257.610†	283025.9	518.59 ug/L	1.033	518.59 ppb	1.033	0.20%
QC value within limits for Mn 257.610 Recovery = 103.72%						
Mo 202.031†	4156.2	543.88 ug/L	5.613	543.88 ppb	5.613	1.03%
QC value within limits for Mo 202.031 Recovery = 108.78%						
Na 589.592 Radial†	4202.6	2555.4 ug/L	29.40	2555.4 ppb	29.40	1.15%
QC value within limits for Na 589.592 Radial Recovery = 102.22%						
Ni 231.604†	10872.9	495.72 ug/L	6.592	495.72 ppb	6.592	1.33%
QC value within limits for Ni 231.604 Recovery = 99.14%						
P 214.914†	2341.2	2388.2 ug/L	34.64	2388.2 ppb	34.64	1.45%
QC value within limits for P 214.914 Recovery = 95.53%						
Pb 220.353†	2243.6	507.43 ug/L	7.012	507.43 ppb	7.012	1.38%
QC value within limits for Pb 220.353 Recovery = 101.49%						
S 181.975 Axial†	958.1	2462.3 ug/L	39.30	2462.3 ppb	39.30	1.60%
QC value within limits for S 181.975 Axial Recovery = 98.49%						
Sb 206.836†	833.1	510.57 ug/L	8.234	510.57 ppb	8.234	1.61%
QC value within limits for Sb 206.836 Recovery = 102.11%						
Se 196.026†	2153.5	2613.9 ug/L	45.68	2613.9 ppb	45.68	1.75%
QC value within limits for Se 196.026 Recovery = 104.56%						
Si 251.611†	91820.9	4905.9 ug/L	12.38	4905.9 ppb	12.38	0.25%
QC value within limits for Si 251.611 Recovery = 98.12%						
Sn 189.927†	1619.1	535.80 ug/L	6.450	535.80 ppb	6.450	1.20%
QC value within limits for Sn 189.927 Recovery = 107.16%						
Sr 421.552†	42257.4	556.23 ug/L	10.588	556.23 ppb	10.588	1.90%
QC value greater than the upper limit for Sr 421.552 Recovery = 111.25%						
Ti 334.940†	212604.1	501.74 ug/L	1.139	501.74 ppb	1.139	0.23%
QC value within limits for Ti 334.940 Recovery = 100.35%						
Tl 190.801†	958.7	530.78 ug/L	9.410	530.78 ppb	9.410	1.77%
QC value within limits for Tl 190.801 Recovery = 106.16%						
U 409.014†	11991.5	483.04 ug/L	2.956	483.04 ppb	2.956	0.61%
QC value within limits for U 409.014 Recovery = 96.61%						
V 292.402†	46434.9	515.24 ug/L	1.051	515.24 ppb	1.051	0.20%
QC value within limits for V 292.402 Recovery = 103.05%						
Zn 213.857†	30051.0	512.25 ug/L	1.271	512.25 ppb	1.271	0.25%
QC value within limits for Zn 213.857 Recovery = 102.45%						
SiO2†	90211.8	10036 ug/L	40.4	10036 ppb	40.4	0.40%
QC value within limits for SiO2 Recovery = 93.84%						
QC Failed. Continue with analysis.						

Sequence No.: 7

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 4/12/2010 17:25:05

Data Type: Reprocessed on 4/12/2010 18:44:18

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 361.383	615400.6	615400.6	102.58 %		17:28:15
1	Sc Radial	2706.6	2706.6	103 %		17:27:18
1	Y 371.029	517790.1	517790.1	102.55 %		17:28:15
1	Y RADIAL	3005.8	3005.8	103.0 %		17:27:18
1	Ag 328.068†	100.1	15.7	0.1118 ug/L	0.1118 ppb	17:28:15
1	Al 396.153Radial†	-72.9	5.7	8.0062 ug/L	8.0062 ppb	17:27:18
1	As 188.979†	-23.1	-4.8	-3.7619 ug/L	-3.7619 ppb	17:28:35
1	B 249.677†	-155.2	187.8	7.2496 ug/L	7.2496 ppb	17:28:35
1	Ba 233.527†	-17.9	-28.6	-0.3784 ug/L	-0.3784 ppb	17:28:35
1	Be 313.107†	-3298.8	50.8	0.0301 ug/L	0.0301 ppb	17:28:15
1	Ca 317.933Radial†	16.6	4.6	15.112 ug/L	15.112 ppb	17:27:18
1	Cd 226.502†	-149.1	16.4	0.3455 ug/L	0.3455 ppb	17:28:35
1	Co 228.616†	-34.3	-4.4	-0.1670 ug/L	-0.1670 ppb	17:28:35
1	Cr 267.716†	85.8	5.7	0.1119 ug/L	0.1119 ppb	17:28:35
1	Cu 324.752†	5213.6	-83.3	-0.3652 ug/L	-0.3652 ppb	17:28:15
1	Fe 238.204 Radial†	6.8	0.4	11.294 ug/L	11.294 ppb	17:27:18
1	K 766.490 Radial†	2443.4	-75.3	-20.487 ug/L	-20.487 ppb	17:26:58
1	Mg 279.077 IEC†	2.5	2.2	176.77 ug/L	176.77 ppb	17:27:18
1	Mn 257.610†	356.9	-0.4	-0.0067 ug/L	-0.0067 ppb	17:28:35
1	Mo 202.031†	11.0	-0.6	-0.0767 ug/L	-0.0767 ppb	17:28:35
1	Na 589.592 Radial†	-930.8	42.8	26.047 ug/L	26.047 ppb	17:26:58
1	Ni 231.604†	73.9	-5.7	-0.2597 ug/L	-0.2597 ppb	17:28:35
1	P 214.914†	161.0	-5.1	-5.3638 ug/L	-5.3638 ppb	17:28:35
1	Pb 220.353†	-44.1	1.2	0.2641 ug/L	0.2641 ppb	17:28:35
1	S 181.975 Axial†	27.3	3.9	9.9774 ug/L	9.9774 ppb	17:28:35
1	Sb 206.836†	24.8	-1.2	-0.6976 ug/L	-0.6976 ppb	17:28:35
1	Se 196.026†	-15.3	-0.3	-0.2761 ug/L	-0.2761 ppb	17:28:35
1	Si 251.611†	363.7	-4.2	-0.2227 ug/L	-0.2227 ppb	17:28:35
1	Sn 189.927†	12.4	5.2	1.7160 ug/L	1.7160 ppb	17:28:35
1	Sr 421.552†	49.0	30.5	0.4009 ug/L	0.4009 ppb	17:26:58
1	Ti 334.940†	-987.3	84.7	0.1879 ug/L	0.1879 ppb	17:28:15
1	Tl 190.801†	-31.8	-4.0	-2.1728 ug/L	-2.1728 ppb	17:28:35
1	U 409.014†	-1353.3	-41.3	-1.6752 ug/L	-1.6752 ppb	17:28:15
1	V 292.402†	-1302.2	-21.9	-0.2421 ug/L	-0.2421 ppb	17:28:15
1	Zn 213.857†	505.1	-14.7	-0.2533 ug/L	-0.2533 ppb	17:28:35
1	SiO2†	383.4	21.3	2.3778 ug/L	2.3778 ppb	17:29:46
2	Sc 361.383	607551.3	607551.3	101.27 %		17:28:40
2	Sc Radial	2738.4	2738.4	104 %		17:27:43
2	Y 371.029	512047.1	512047.1	101.41 %		17:28:40
2	Y RADIAL	3044.4	3044.4	104.3 %		17:27:43
2	Ag 328.068†	159.8	75.9	0.5418 ug/L	0.5418 ppb	17:28:40
2	Al 396.153Radial†	-81.7	-1.9	-2.6695 ug/L	-2.6695 ppb	17:27:43
2	As 188.979†	-19.2	-1.2	-0.9664 ug/L	-0.9664 ppb	17:29:00
2	B 249.677†	-147.1	193.9	7.4735 ug/L	7.4735 ppb	17:29:00
2	Ba 233.527†	6.8	-4.4	-0.0540 ug/L	-0.0540 ppb	17:29:00
2	Be 313.107†	-3149.7	156.5	0.0914 ug/L	0.0914 ppb	17:28:40
2	Ca 317.933Radial†	13.0	1.0	3.3288 ug/L	3.3288 ppb	17:27:43
2	Cd 226.502†	-156.5	7.1	0.1448 ug/L	0.1448 ppb	17:29:00
2	Co 228.616†	-34.3	-4.8	-0.1841 ug/L	-0.1841 ppb	17:29:00
2	Cr 267.716†	79.4	0.5	0.0206 ug/L	0.0206 ppb	17:29:00
2	Cu 324.752†	5042.4	-186.7	-0.8193 ug/L	-0.8193 ppb	17:28:40
2	Fe 238.204 Radial†	8.8	2.3	59.584 ug/L	59.584 ppb	17:27:43
2	K 766.490 Radial†	2507.6	-41.3	-11.261 ug/L	-11.261 ppb	17:27:23
2	Mg 279.077 IEC†	1.5	1.2	97.336 ug/L	97.336 ppb	17:27:43
2	Mn 257.610†	350.6	-2.2	-0.0008 ug/L	-0.0008 ppb	17:29:00
2	Mo 202.031†	9.3	-2.2	-0.2819 ug/L	-0.2819 ppb	17:29:00
2	Na 589.592 Radial†	-897.0	85.7	52.091 ug/L	52.091 ppb	17:27:23
2	Ni 231.604†	67.5	-11.1	-0.5061 ug/L	-0.5061 ppb	17:29:00

2	P 214.914†	162.1	-2.0	-1.9586 ug/L	-1.9586 ppb	17:29:00
2	Pb 220.353†	-40.0	4.6	1.0340 ug/L	1.0340 ppb	17:29:00
2	S 181.975 Axial†	28.1	5.1	13.010 ug/L	13.010 ppb	17:29:00
2	Sb 206.836†	17.8	-7.9	-4.6482 ug/L	-4.6482 ppb	17:29:00
2	Se 196.026†	-23.1	-8.2	-9.6382 ug/L	-9.6382 ppb	17:29:00
2	Si 251.611†	362.8	-0.5	-0.0221 ug/L	-0.0221 ppb	17:29:00
2	Sn 189.927†	8.7	1.7	0.5573 ug/L	0.5573 ppb	17:29:00
2	Sr 421.552†	43.6	24.7	0.3252 ug/L	0.3252 ppb	17:27:23
2	Ti 334.940†	-1039.3	20.9	0.0408 ug/L	0.0408 ppb	17:28:40
2	Tl 190.801†	-21.1	6.2	3.4208 ug/L	3.4208 ppb	17:29:00
2	U 409.014†	-1238.2	55.2	2.2224 ug/L	2.2224 ppb	17:28:40
2	V 292.402†	-1180.1	82.3	0.8940 ug/L	0.8940 ppb	17:28:40
2	Zn 213.857†	500.5	-12.9	-0.2279 ug/L	-0.2279 ppb	17:29:00
2	SiO2†	381.3	24.1	2.6904 ug/L	2.6904 ppb	17:30:06
3	Sc 361.383	613694.0	613694.0	102.29 %		17:29:06
3	Sc Radial	2752.3	2752.3	105 %		17:28:08
3	Y 371.029	516472.7	516472.7	102.29 %		17:29:06
3	Y RADIAL	3056.1	3056.1	104.7 %		17:28:08
3	Ag 328.068†	141.7	56.7	0.3908 ug/L	0.3908 ppb	17:29:06
3	Al 396.153Radial†	-75.1	4.8	6.7084 ug/L	6.7084 ppb	17:28:08
3	As 188.979†	-17.5	0.6	0.4489 ug/L	0.4489 ppb	17:29:26
3	B 249.677†	-136.3	205.9	7.9461 ug/L	7.9461 ppb	17:29:26
3	Ba 233.527†	19.7	8.1	0.1077 ug/L	0.1077 ppb	17:29:26
3	Be 313.107†	-3245.3	94.1	0.0555 ug/L	0.0555 ppb	17:29:06
3	Ca 317.933Radial†	9.4	-2.5	-8.3296 ug/L	-8.3296 ppb	17:28:08
3	Cd 226.502†	-156.1	9.0	0.1906 ug/L	0.1906 ppb	17:29:26
3	Co 228.616†	-32.0	-2.2	-0.0855 ug/L	-0.0855 ppb	17:29:26
3	Cr 267.716†	66.2	-13.2	-0.2515 ug/L	-0.2515 ppb	17:29:26
3	Cu 324.752†	5176.7	-105.2	-0.4647 ug/L	-0.4647 ppb	17:29:06
3	Fe 238.204 Radial†	7.4	0.9	22.701 ug/L	22.701 ppb	17:28:08
3	K 766.490 Radial†	2454.0	-104.5	-28.427 ug/L	-28.427 ppb	17:27:48
3	Mg 279.077 IEC†	2.1	1.8	144.59 ug/L	144.59 ppb	17:28:08
3	Mn 257.610†	347.4	-8.8	-0.0193 ug/L	-0.0193 ppb	17:29:26
3	Mo 202.031†	6.8	-4.7	-0.6121 ug/L	-0.6121 ppb	17:29:26
3	Na 589.592 Radial†	-937.7	51.2	31.158 ug/L	31.158 ppb	17:27:48
3	Ni 231.604†	88.6	8.9	0.4039 ug/L	0.4039 ppb	17:29:26
3	P 214.914†	159.6	-6.1	-6.3994 ug/L	-6.3994 ppb	17:29:26
3	Pb 220.353†	-40.0	5.1	1.1391 ug/L	1.1391 ppb	17:29:26
3	S 181.975 Axial†	32.1	8.7	22.259 ug/L	22.259 ppb	17:29:26
3	Sb 206.836†	20.6	-5.3	-3.1307 ug/L	-3.1307 ppb	17:29:26
3	Se 196.026†	-18.9	-3.8	-4.5403 ug/L	-4.5403 ppb	17:29:26
3	Si 251.611†	364.7	-2.1	-0.1073 ug/L	-0.1073 ppb	17:29:26
3	Sn 189.927†	10.7	3.6	1.1729 ug/L	1.1729 ppb	17:29:26
3	Sr 421.552†	16.8	-1.0	-0.0134 ug/L	-0.0134 ppb	17:27:48
3	Ti 334.940†	-964.5	104.3	0.2309 ug/L	0.2309 ppb	17:29:06
3	Tl 190.801†	-28.0	-0.3	-0.1868 ug/L	-0.1868 ppb	17:29:26
3	U 409.014†	-1156.2	147.6	5.9675 ug/L	5.9675 ppb	17:29:06
3	V 292.402†	-1306.9	-30.0	-0.3263 ug/L	-0.3263 ppb	17:29:06
3	Zn 213.857†	514.5	-4.1	-0.0768 ug/L	-0.0768 ppb	17:29:26
3	SiO2†	373.7	12.9	1.4587 ug/L	1.4587 ppb	17:30:26

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	612215.3	102.05 %	0.688			0.67%
Sc Radial	2732.4	104 %	0.9			0.86%
Y 371.029	515436.6	102.08 %	0.596			0.58%
Y RADIAL	3035.4	104.0 %	0.90			0.87%
Ag 328.068†	49.4	0.3481 ug/L	0.21817	0.3481 ppb	0.21817	62.67%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.9	4.0150 ug/L	5.82521	4.0150 ppb	5.82521	145.09%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.8	-1.4265 ug/L	2.14275	-1.4265 ppb	2.14275	150.21%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	195.9	7.5564 ug/L	0.35558	7.5564 ppb	0.35558	4.71%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-8.3	-0.1082 ug/L	0.24754	-0.1082 ppb	0.24754	228.70%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	100.5	0.0590 ug/L	0.03080	0.0590 ppb	0.03080	52.23%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	1.0	3.3704 ug/L	11.72078	3.3704 ppb	11.72078	347.76%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.8	0.2270 ug/L	0.10518	0.2270 ppb	0.10518	46.34%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.8	-0.1456 ug/L	0.05270	-0.1456 ppb	0.05270	36.20%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-2.3	-0.0397 ug/L	0.18903	-0.0397 ppb	0.18903	476.45%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-125.1	-0.5497 ug/L	0.23867	-0.5497 ppb	0.23867	43.42%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.2	31.193 ug/L	25.2403	31.193 ppb	25.2403	80.92%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-73.7	-20.058 ug/L	8.5908	-20.058 ppb	8.5908	42.83%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.8	139.56 ug/L	39.954	139.56 ppb	39.954	28.63%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-3.8	-0.0089 ug/L	0.00943	-0.0089 ppb	0.00943	105.85%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-2.5	-0.3236 ug/L	0.27013	-0.3236 ppb	0.27013	83.48%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	59.9	36.432 ug/L	13.8000	36.432 ppb	13.8000	37.88%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-2.6	-0.1206 ug/L	0.47064	-0.1206 ppb	0.47064	390.10%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.4	-4.5740 ug/L	2.32342	-4.5740 ppb	2.32342	50.80%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.6	0.8124 ug/L	0.47776	0.8124 ppb	0.47776	58.81%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	5.9	15.082 ug/L	6.3975	15.082 ppb	6.3975	42.42%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-4.8	-2.8255 ug/L	1.99291	-2.8255 ppb	1.99291	70.53%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.1	-4.8182 ug/L	4.68722	-4.8182 ppb	4.68722	97.28%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-2.3	-0.1174 ug/L	0.10065	-0.1174 ppb	0.10065	85.75%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	3.5	1.1487 ug/L	0.57974	1.1487 ppb	0.57974	50.47%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	18.0	0.2376 ug/L	0.22059	0.2376 ppb	0.22059	92.86%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	69.9	0.1532 ug/L	0.09970	0.1532 ppb	0.09970	65.08%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.6	0.3538 ug/L	2.83571	0.3538 ppb	2.83571	801.59%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	53.8	2.1716 ug/L	3.82162	2.1716 ppb	3.82162	175.98%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	10.1	0.1085 ug/L	0.68154	0.1085 ppb	0.68154	627.92%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-10.6	-0.1860 ug/L	0.09544	-0.1860 ppb	0.09544	51.32%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	19.4	2.1757 ug/L	0.64027	2.1757 ppb	0.64027	29.43%
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: 4/12/2010 17:32:38

Data Type: Reprocessed on 4/12/2010 18:44:19

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 361.383	602389.1	602389.1	100.41 %		17:35:48
1	Sc Radial	2727.5	2727.5	104 %		17:34:51
1	Y 371.029	508072.6	508072.6	100.62 %		17:35:48
1	Y RADIAL	3029.9	3029.9	103.8 %		17:34:51
1	Ag 328.068†	783.8	698.7	4.8098 ug/L	4.8098 ppb	17:35:48
1	Al 396.153Radial†	75.6	149.0	208.10 ug/L	208.10 ppb	17:34:51
1	As 188.979†	24.0	41.6	32.681 ug/L	32.681 ppb	17:36:08
1	B 249.677†	1030.7	1365.6	52.687 ug/L	52.687 ppb	17:36:08
1	Ba 233.527†	399.6	386.8	5.1318 ug/L	5.1318 ppb	17:36:08
1	Be 313.107†	5335.7	8580.7	5.0167 ug/L	5.0167 ppb	17:35:48
1	Ca 317.933Radial†	76.8	62.4	207.02 ug/L	207.02 ppb	17:34:51
1	Cd 226.502†	73.0	234.3	4.9823 ug/L	4.9823 ppb	17:36:08
1	Co 228.616†	93.9	122.5	4.6283 ug/L	4.6283 ppb	17:36:08
1	Cr 267.716†	334.6	255.4	4.8846 ug/L	4.8846 ppb	17:36:08
1	Cu 324.752†	7422.4	2226.3	9.7781 ug/L	9.7781 ppb	17:35:48
1	Fe 238.204 Radial†	9.6	3.1	79.439 ug/L	79.439 ppb	17:34:51
1	K 766.490 Radial†	2884.6	330.7	89.729 ug/L	89.729 ppb	17:34:31
1	Mg 279.077 IEC†	6.4	6.0	470.70 ug/L	470.70 ppb	17:34:51
1	Mn 257.610†	5968.5	5595.8	10.235 ug/L	10.235 ppb	17:35:48
1	Mo 202.031†	79.9	68.3	8.9363 ug/L	8.9363 ppb	17:36:08
1	Na 589.592 Radial†	-400.6	559.4	340.14 ug/L	340.14 ppb	17:34:31
1	Ni 231.604†	193.2	114.6	5.2273 ug/L	5.2273 ppb	17:36:08
1	P 214.914†	294.2	130.9	138.09 ug/L	138.09 ppb	17:36:08
1	Pb 220.353†	7.3	51.4	11.649 ug/L	11.649 ppb	17:36:08
1	S 181.975 Axial†	74.5	51.5	132.37 ug/L	132.37 ppb	17:36:08
1	Sb 206.836†	35.7	10.1	6.2967 ug/L	6.2967 ppb	17:36:08
1	Se 196.026†	17.6	32.2	39.118 ug/L	39.118 ppb	17:36:08
1	Si 251.611†	2226.7	1859.0	99.349 ug/L	99.349 ppb	17:36:08
1	Sn 189.927†	39.0	32.0	10.608 ug/L	10.608 ppb	17:36:08
1	Sr 421.552†	432.1	398.4	5.2423 ug/L	5.2423 ppb	17:34:31
1	Ti 334.940†	1119.8	2162.3	5.0649 ug/L	5.0649 ppb	17:35:48
1	Tl 190.801†	15.7	42.6	23.531 ug/L	23.531 ppb	17:36:08
1	U 409.014†	115.8	1393.2	56.345 ug/L	56.345 ppb	17:35:48
1	V 292.402†	-766.1	484.6	5.5275 ug/L	5.5275 ppb	17:35:48
1	Zn 213.857†	1127.2	615.5	10.529 ug/L	10.529 ppb	17:36:08
1	SiO2†	2288.3	1926.5	214.40 ug/L	214.40 ppb	17:37:04
2	Sc 361.383	603290.9	603290.9	100.56 %		17:36:13
2	Sc Radial	2682.0	2682.0	102 %		17:35:16
2	Y 371.029	508577.4	508577.4	100.72 %		17:36:13
2	Y RADIAL	2982.0	2982.0	102.2 %		17:35:16
2	Ag 328.068†	790.8	704.5	4.8459 ug/L	4.8459 ppb	17:36:13
2	Al 396.153Radial†	78.6	153.2	213.86 ug/L	213.86 ppb	17:35:16
2	As 188.979†	17.4	35.0	27.499 ug/L	27.499 ppb	17:36:33
2	B 249.677†	1072.4	1405.6	54.230 ug/L	54.230 ppb	17:36:33
2	Ba 233.527†	396.4	383.0	5.0805 ug/L	5.0805 ppb	17:36:33
2	Be 313.107†	5371.0	8607.8	5.0327 ug/L	5.0327 ppb	17:36:13
2	Ca 317.933Radial†	76.8	63.6	211.02 ug/L	211.02 ppb	17:35:16
2	Cd 226.502†	76.0	237.2	5.0437 ug/L	5.0437 ppb	17:36:33
2	Co 228.616†	91.1	119.6	4.5231 ug/L	4.5231 ppb	17:36:33
2	Cr 267.716†	324.8	245.1	4.6870 ug/L	4.6870 ppb	17:36:33
2	Cu 324.752†	7409.5	2202.5	9.6718 ug/L	9.6718 ppb	17:36:13
2	Fe 238.204 Radial†	9.1	2.8	71.529 ug/L	71.529 ppb	17:35:16
2	K 766.490 Radial†	3047.8	537.2	145.91 ug/L	145.91 ppb	17:34:56
2	Mg 279.077 IEC†	5.1	4.8	376.14 ug/L	376.14 ppb	17:35:16
2	Mn 257.610†	6023.6	5641.7	10.322 ug/L	10.322 ppb	17:36:13
2	Mo 202.031†	94.7	82.8	10.839 ug/L	10.839 ppb	17:36:33
2	Na 589.592 Radial†	-408.0	545.7	331.80 ug/L	331.80 ppb	17:34:56
2	Ni 231.604†	174.5	95.8	4.3694 ug/L	4.3694 ppb	17:36:33

2	P 214.914†	306.7	142.9	151.01 ug/L	151.01 ppb	17:36:33
2	Pb 220.353†	-4.1	40.0	9.0890 ug/L	9.0890 ppb	17:36:33
2	S 181.975 Axial†	68.1	45.1	115.81 ug/L	115.81 ppb	17:36:33
2	Sb 206.836†	35.1	9.4	5.8972 ug/L	5.8972 ppb	17:36:33
2	Se 196.026†	4.6	19.2	23.408 ug/L	23.408 ppb	17:36:33
2	Si 251.611†	2225.6	1854.6	99.090 ug/L	99.090 ppb	17:36:33
2	Sn 189.927†	33.3	26.3	8.7273 ug/L	8.7273 ppb	17:36:33
2	Sr 421.552†	453.7	426.5	5.6133 ug/L	5.6133 ppb	17:34:56
2	Ti 334.940†	1147.1	2187.9	5.1338 ug/L	5.1338 ppb	17:36:13
2	Tl 190.801†	9.9	36.9	20.375 ug/L	20.375 ppb	17:36:33
2	U 409.014†	95.9	1373.3	55.539 ug/L	55.539 ppb	17:36:13
2	V 292.402†	-812.2	439.9	5.0638 ug/L	5.0638 ppb	17:36:13
2	Zn 213.857†	1123.7	610.3	10.447 ug/L	10.447 ppb	17:36:33
2	SiO2†	2293.8	1928.6	214.59 ug/L	214.59 ppb	17:37:09
3	Sc 361.383	627835.9	627835.9	104.65 %		17:36:38
3	Sc Radial	2694.1	2694.1	103 %		17:35:41
3	Y 371.029	528528.4	528528.4	104.68 %		17:36:38
3	Y RADIAL	2997.1	2997.1	102.7 %		17:35:41
3	Ag 328.068†	869.0	748.5	5.1909 ug/L	5.1909 ppb	17:36:38
3	Al 396.153Radial†	75.6	149.9	209.31 ug/L	209.31 ppb	17:35:41
3	As 188.979†	14.3	31.3	24.641 ug/L	24.641 ppb	17:36:59
3	B 249.677†	1045.7	1338.3	51.614 ug/L	51.614 ppb	17:36:59
3	Ba 233.527†	401.1	372.1	4.9418 ug/L	4.9418 ppb	17:36:59
3	Be 313.107†	5571.4	8590.5	5.0226 ug/L	5.0226 ppb	17:36:38
3	Ca 317.933Radial†	74.8	61.3	203.60 ug/L	203.60 ppb	17:35:41
3	Cd 226.502†	79.9	238.1	5.0468 ug/L	5.0468 ppb	17:36:59
3	Co 228.616†	100.1	124.6	4.7071 ug/L	4.7071 ppb	17:36:59
3	Cr 267.716†	347.8	254.5	4.8897 ug/L	4.8897 ppb	17:36:59
3	Cu 324.752†	7673.7	2166.9	9.5277 ug/L	9.5277 ppb	17:36:38
3	Fe 238.204 Radial†	14.3	7.8	198.44 ug/L	198.44 ppb	17:35:41
3	K 766.490 Radial†	3004.4	481.6	130.78 ug/L	130.78 ppb	17:35:21
3	Mg 279.077 IEC†	6.0	5.7	446.70 ug/L	446.70 ppb	17:35:41
3	Mn 257.610†	6263.8	5637.0	10.326 ug/L	10.326 ppb	17:36:38
3	Mo 202.031†	88.4	73.1	9.5733 ug/L	9.5733 ppb	17:36:59
3	Na 589.592 Radial†	-407.5	547.9	333.14 ug/L	333.14 ppb	17:35:21
3	Ni 231.604†	194.9	108.5	4.9463 ug/L	4.9463 ppb	17:36:59
3	P 214.914†	300.8	125.3	132.07 ug/L	132.07 ppb	17:36:59
3	Pb 220.353†	-0.0	44.1	9.9889 ug/L	9.9889 ppb	17:36:59
3	S 181.975 Axial†	69.8	44.0	113.17 ug/L	113.17 ppb	17:36:59
3	Sb 206.836†	39.1	11.9	7.3619 ug/L	7.3619 ppb	17:36:59
3	Se 196.026†	3.2	17.7	22.074 ug/L	22.074 ppb	17:36:59
3	Si 251.611†	2221.5	1764.1	94.266 ug/L	94.266 ppb	17:36:59
3	Sn 189.927†	41.2	32.5	10.774 ug/L	10.774 ppb	17:36:59
3	Sr 421.552†	430.1	401.6	5.2846 ug/L	5.2846 ppb	17:35:21
3	Ti 334.940†	1197.6	2191.5	5.1380 ug/L	5.1380 ppb	17:36:38
3	Tl 190.801†	7.8	34.5	19.037 ug/L	19.037 ppb	17:36:59
3	U 409.014†	-37.9	1241.7	50.190 ug/L	50.190 ppb	17:36:38
3	V 292.402†	-811.4	472.2	5.3731 ug/L	5.3731 ppb	17:36:38
3	Zn 213.857†	1110.7	554.2	9.4573 ug/L	9.4573 ppb	17:36:59
3	SiO2†	2269.7	1816.4	202.11 ug/L	202.11 ppb	17:37:14

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	611172.0	101.87 %	2.407			2.36%
Sc Radial	2701.2	103 %	0.9			0.87%
Y 371.029	515059.5	102.01 %	2.311			2.27%
Y RADIAL	3003.0	102.9 %	0.84			0.82%
Ag 328.068†	717.2	4.9489 ug/L	0.21037	4.9489 ppb	0.21037	4.25%
QC value within limits for Ag 328.068 Recovery = 98.98%						
Al 396.153Radial†	150.7	210.42 ug/L	3.039	210.42 ppb	3.039	1.44%
QC value within limits for Al 396.153Radial Recovery = 105.21%						
As 188.979†	36.0	28.274 ug/L	4.0754	28.274 ppb	4.0754	14.41%
QC value within limits for As 188.979 Recovery = 94.25%						
B 249.677†	1369.8	52.844 ug/L	1.3150	52.844 ppb	1.3150	2.49%
QC value within limits for B 249.677 Recovery = 105.69%						
Ba 233.527†	380.6	5.0514 ug/L	0.09827	5.0514 ppb	0.09827	1.95%
QC value within limits for Ba 233.527 Recovery = 101.03%						
Be 313.107†	8593.0	5.0240 ug/L	0.00808	5.0240 ppb	0.00808	0.16%
QC value within limits for Be 313.107 Recovery = 100.48%						

Ca 317.933Radial†	62.4	207.21 ug/L	3.712	207.21 ppb	3.712	1.79%
QC value within limits for Ca 317.933Radial Recovery = 103.61%						
Cd 226.502†	236.5	5.0243 ug/L	0.03640	5.0243 ppb	0.03640	0.72%
QC value within limits for Cd 226.502 Recovery = 100.49%						
Co 228.616†	122.3	4.6195 ug/L	0.09233	4.6195 ppb	0.09233	2.00%
QC value within limits for Co 228.616 Recovery = 92.39%						
Cr 267.716†	251.7	4.8205 ug/L	0.11558	4.8205 ppb	0.11558	2.40%
QC value within limits for Cr 267.716 Recovery = 96.41%						
Cu 324.752†	2198.5	9.6592 ug/L	0.12564	9.6592 ppb	0.12564	1.30%
QC value within limits for Cu 324.752 Recovery = 96.59%						
Fe 238.204 Radial†	4.6	116.47 ug/L	71.098	116.47 ppb	71.098	61.04%
QC value within limits for Fe 238.204 Radial Recovery = 116.47%						
K 766.490 Radial†	449.8	122.14 ug/L	29.069	122.14 ppb	29.069	23.80%
QC value within limits for K 766.490 Radial Recovery = 81.43%						
Mg 279.077 IEC†	5.5	431.18 ug/L	49.154	431.18 ppb	49.154	11.40%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 143.73%						
Mn 257.610†	5624.8	10.295 ug/L	0.0514	10.295 ppb	0.0514	0.50%
QC value within limits for Mn 257.610 Recovery = 102.95%						
Mo 202.031†	74.7	9.7828 ug/L	0.96841	9.7828 ppb	0.96841	9.90%
QC value within limits for Mo 202.031 Recovery = 97.83%						
Na 589.592 Radial†	551.0	335.03 ug/L	4.479	335.03 ppb	4.479	1.34%
QC value within limits for Na 589.592 Radial Recovery = 111.68%						
Ni 231.604†	106.3	4.8477 ug/L	0.43739	4.8477 ppb	0.43739	9.02%
QC value within limits for Ni 231.604 Recovery = 96.95%						
P 214.914†	133.0	140.39 ug/L	9.678	140.39 ppb	9.678	6.89%
QC value within limits for P 214.914 Recovery = 93.59%						
Pb 220.353†	45.2	10.242 ug/L	1.2988	10.242 ppb	1.2988	12.68%
QC value within limits for Pb 220.353 Recovery = 102.42%						
S 181.975 Axial†	46.9	120.45 ug/L	10.407	120.45 ppb	10.407	8.64%
QC value within limits for S 181.975 Axial Recovery = 120.45%						
Sb 206.836†	10.5	6.5186 ug/L	0.75716	6.5186 ppb	0.75716	11.62%
QC value less than the lower limit for Sb 206.836 Recovery = 65.19%						
Se 196.026†	23.0	28.200 ug/L	9.4788	28.200 ppb	9.4788	33.61%
QC value within limits for Se 196.026 Recovery = 94.00%						
Si 251.611†	1825.9	97.568 ug/L	2.8625	97.568 ppb	2.8625	2.93%
QC value within limits for Si 251.611 Recovery = 97.57%						
Sn 189.927†	30.2	10.036 ug/L	1.1367	10.036 ppb	1.1367	11.33%
QC value within limits for Sn 189.927 Recovery = 100.36%						
Sr 421.552†	408.8	5.3801 ug/L	0.20310	5.3801 ppb	0.20310	3.78%
QC value within limits for Sr 421.552 Recovery = 107.60%						
Ti 334.940†	2180.6	5.1123 ug/L	0.04105	5.1123 ppb	0.04105	0.80%
QC value within limits for Ti 334.940 Recovery = 102.25%						
Tl 190.801†	38.0	20.981 ug/L	2.3076	20.981 ppb	2.3076	11.00%
QC value within limits for Tl 190.801 Recovery = 104.90%						
U 409.014†	1336.1	54.025 ug/L	3.3454	54.025 ppb	3.3454	6.19%
QC value within limits for U 409.014 Recovery = 108.05%						
V 292.402†	465.6	5.3215 ug/L	0.23615	5.3215 ppb	0.23615	4.44%
QC value within limits for V 292.402 Recovery = 106.43%						
Zn 213.857†	593.3	10.145 ug/L	0.5965	10.145 ppb	0.5965	5.88%
QC value within limits for Zn 213.857 Recovery = 101.45%						
SiO2†	1890.5	210.37 ug/L	7.149	210.37 ppb	7.149	3.40%
QC value within limits for SiO2 Recovery = 98.76%						
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: 4/12/2010 17:39:26

Data Type: Reprocessed on 4/12/2010 18:44:21

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	555315.1	555315.1	92.563 %		17:42:36
1	Sc Radial	2499.8	2499.8	95.3 %		17:41:39
1	Y 371.029	458675.7	458675.7	90.842 %		17:42:36
1	Y RADIAL	2769.8	2769.8	94.93 %		17:41:39
1	Ag 328.068†	-6369.9	-6963.6	-0.2901 ug/L	-0.2901 ppb	17:42:56
1	Al 396.153Radial†	359148.0	376760.0	527210 ug/L	527210 ppb	17:41:19
1	As 188.979†	-56.4	-43.3	5.1113 ug/L	5.1113 ppb	17:42:56
1	B 249.677†	224.4	581.6	-8.8294 ug/L	-8.8294 ppb	17:42:36
1	Ba 233.527†	-370.7	-411.6	2.2901 ug/L	2.2901 ppb	17:42:56
1	Be 313.107†	-3117.7	-101.5	-0.1087 ug/L	-0.1087 ppb	17:42:36
1	Ca 317.933Radial†	143830.4	150841.6	500650 ug/L	500650 ppb	17:41:19
1	Cd 226.502†	782.6	1007.1	0.0217 ug/L	0.0217 ppb	17:42:56
1	Co 228.616†	14.1	44.3	-1.1101 ug/L	-1.1101 ppb	17:42:56
1	Cr 267.716†	-1335.2	-1520.3	3.9707 ug/L	3.9707 ppb	17:42:56
1	Cu 324.752†	2849.3	-2087.6	4.5520 ug/L	4.5520 ppb	17:42:56
1	Fe 238.204 Radial†	7196.1	7541.3	192580 ug/L	192580 ppb	17:41:39
1	K 766.490 Radial†	2351.7	24.2	-128.52 ug/L	-128.52 ppb	17:41:19
1	Mg 279.077 IEC†	6075.8	6372.3	501060 ug/L	501060 ppb	17:41:39
1	Mn 257.610†	-956.5	-1381.8	0.0456 ug/L	0.0456 ppb	17:42:36
1	Mo 202.031†	-154.1	-177.8	0.4625 ug/L	0.4625 ppb	17:42:56
1	Na 589.592 Radial†	-778.3	128.2	77.926 ug/L	77.926 ppb	17:41:39
1	Ni 231.604†	146.6	80.6	2.5512 ug/L	2.5512 ppb	17:42:56
1	P 214.914†	158.7	9.4	-43.612 ug/L	-43.612 ppb	17:42:56
1	Pb 220.353†	-467.3	-460.7	2.1181 ug/L	2.1181 ppb	17:42:56
1	S 181.975 Axial†	31.5	11.3	-93.479 ug/L	-93.479 ppb	17:42:56
1	Sb 206.836†	53.8	32.7	2.1211 ug/L	2.1211 ppb	17:42:56
1	Se 196.026†	-620.3	-655.5	-23.354 ug/L	-23.354 ppb	17:42:56
1	Si 251.611†	396.5	69.7	4.0158 ug/L	4.0158 ppb	17:42:56
1	Sn 189.927†	-302.2	-333.4	13.748 ug/L	13.748 ppb	17:42:56
1	Sr 421.552†	943.2	972.3	9.0607 ug/L	9.0607 ppb	17:41:39
1	Ti 334.940†	-9514.1	-9231.5	-3.2350 ug/L	-3.2350 ppb	17:42:36
1	Tl 190.801†	-63.5	-41.6	-23.095 ug/L	-23.095 ppb	17:42:56
1	U 409.014†	-323.0	928.9	0.4409 ug/L	0.4409 ppb	17:42:36
1	V 292.402†	-51.6	1191.8	-2.8598 ug/L	-2.8598 ppb	17:42:56
1	Zn 213.857†	2091.1	1752.0	-1.7648 ug/L	-1.7648 ppb	17:42:56
1	SiO2†	399.7	79.4	9.4764 ug/L	9.4764 ppb	17:43:52
2	Sc 361.383	565982.0	565982.0	94.341 %		17:43:02
2	Sc Radial	2550.7	2550.7	97.3 %		17:42:04
2	Y 371.029	466908.1	466908.1	92.472 %		17:43:02
2	Y RADIAL	2850.9	2850.9	97.71 %		17:42:04
2	Ag 328.068†	-6432.2	-6899.9	0.5259 ug/L	0.5259 ppb	17:43:22
2	Al 396.153Radial†	363723.5	373953.1	523290 ug/L	523290 ppb	17:41:44
2	As 188.979†	-63.1	-49.2	0.6988 ug/L	0.6988 ppb	17:43:22
2	B 249.677†	247.2	601.1	-8.2753 ug/L	-8.2753 ppb	17:43:02
2	Ba 233.527†	-376.9	-410.6	2.3506 ug/L	2.3506 ppb	17:43:22
2	Be 313.107†	-3171.5	-95.1	-0.1060 ug/L	-0.1060 ppb	17:43:02
2	Ca 317.933Radial†	146098.6	150165.4	498400 ug/L	498400 ppb	17:41:44
2	Cd 226.502†	790.0	999.0	-0.2869 ug/L	-0.2869 ppb	17:43:22
2	Co 228.616†	17.7	47.8	-0.9991 ug/L	-0.9991 ppb	17:43:22
2	Cr 267.716†	-1325.2	-1482.6	4.9026 ug/L	4.9026 ppb	17:43:22
2	Cu 324.752†	2845.9	-2149.2	4.3688 ug/L	4.3688 ppb	17:43:22
2	Fe 238.204 Radial†	7389.5	7589.6	193810 ug/L	193810 ppb	17:42:04
2	K 766.490 Radial†	2355.5	-21.0	-140.23 ug/L	-140.23 ppb	17:41:44
2	Mg 279.077 IEC†	6256.5	6431.0	505670 ug/L	505670 ppb	17:42:04
2	Mn 257.610†	-975.4	-1382.3	0.0036 ug/L	0.0036 ppb	17:43:02
2	Mo 202.031†	-164.4	-185.6	-0.5097 ug/L	-0.5097 ppb	17:43:22
2	Na 589.592 Radial†	-769.9	153.1	93.104 ug/L	93.104 ppb	17:42:04
2	Ni 231.604†	130.9	61.1	1.6510 ug/L	1.6510 ppb	17:43:22

2	P 214.914†	130.5	-23.7	-81.182 ug/L	-81.182 ppb	17:43:22
2	Pb 220.353†	-463.2	-446.8	4.1137 ug/L	4.1137 ppb	17:43:22
2	S 181.975 Axial†	22.5	1.2	-118.54 ug/L	-118.54 ppb	17:43:22
2	Sb 206.836†	45.9	23.2	-3.2728 ug/L	-3.2728 ppb	17:43:22
2	Se 196.026†	-601.2	-622.6	20.894 ug/L	20.894 ppb	17:43:22
2	Si 251.611†	414.7	80.9	4.6286 ug/L	4.6286 ppb	17:43:22
2	Sn 189.927†	-292.2	-316.6	18.758 ug/L	18.758 ppb	17:43:22
2	Sr 421.552†	970.1	980.2	9.1811 ug/L	9.1811 ppb	17:42:04
2	Ti 334.940†	-9888.1	-9434.1	-4.3579 ug/L	-4.3579 ppb	17:43:02
2	Tl 190.801†	-63.4	-40.1	-22.295 ug/L	-22.295 ppb	17:43:22
2	U 409.014†	-301.4	958.4	1.3924 ug/L	1.3924 ppb	17:43:02
2	V 292.402†	-109.8	1131.2	-3.6079 ug/L	-3.6079 ppb	17:43:22
2	Zn 213.857†	2089.7	1708.0	-2.7212 ug/L	-2.7212 ppb	17:43:22
2	SiO2†	441.4	115.4	13.520 ug/L	13.520 ppb	17:43:57
3	Sc 361.383	537200.5	537200.5	89.543 %		17:43:27
3	Sc Radial	2585.3	2585.3	98.6 %		17:42:30
3	Y 371.029	443781.4	443781.4	87.892 %		17:43:27
3	Y RADIAL	2881.2	2881.2	98.74 %		17:42:30
3	Ag 328.068†	-6198.6	-7004.4	-0.2377 ug/L	-0.2377 ppb	17:43:47
3	Al 396.153Radial†	359681.5	364847.8	510540 ug/L	510540 ppb	17:42:09
3	As 188.979†	-48.9	-36.9	10.161 ug/L	10.161 ppb	17:43:47
3	B 249.677†	175.0	534.6	-10.703 ug/L	-10.703 ppb	17:43:27
3	Ba 233.527†	-337.1	-387.6	2.6201 ug/L	2.6201 ppb	17:43:47
3	Be 313.107†	-2909.1	17.9	-0.0382 ug/L	-0.0382 ppb	17:43:27
3	Ca 317.933Radial†	143895.2	145920.0	484310 ug/L	484310 ppb	17:42:09
3	Cd 226.502†	730.9	978.0	-0.6398 ug/L	-0.6398 ppb	17:43:47
3	Co 228.616†	-13.2	14.3	-2.2505 ug/L	-2.2505 ppb	17:43:47
3	Cr 267.716†	-1357.0	-1593.4	2.6382 ug/L	2.6382 ppb	17:43:47
3	Cu 324.752†	2823.3	-2012.9	4.9106 ug/L	4.9106 ppb	17:43:47
3	Fe 238.204 Radial†	7456.9	7556.3	192960 ug/L	192960 ppb	17:42:30
3	K 766.490 Radial†	2255.8	-154.5	-172.75 ug/L	-172.75 ppb	17:42:09
3	Mg 279.077 IEC†	6304.0	6393.0	502690 ug/L	502690 ppb	17:42:30
3	Mn 257.610†	-876.6	-1327.3	0.1244 ug/L	0.1244 ppb	17:43:27
3	Mo 202.031†	-158.3	-188.1	-1.1888 ug/L	-1.1888 ppb	17:43:47
3	Na 589.592 Radial†	-776.9	156.6	95.224 ug/L	95.224 ppb	17:42:30
3	Ni 231.604†	158.4	99.2	3.3974 ug/L	3.3974 ppb	17:43:47
3	P 214.914†	140.5	-5.2	-63.872 ug/L	-63.872 ppb	17:43:47
3	Pb 220.353†	-468.4	-478.9	-6.2317 ug/L	-6.2317 ppb	17:43:47
3	S 181.975 Axial†	21.9	1.8	-114.11 ug/L	-114.11 ppb	17:43:47
3	Sb 206.836†	37.4	16.3	-7.0075 ug/L	-7.0075 ppb	17:43:47
3	Se 196.026†	-581.7	-635.0	2.4702 ug/L	2.4702 ppb	17:43:47
3	Si 251.611†	411.6	101.0	5.7051 ug/L	5.7051 ppb	17:43:47
3	Sn 189.927†	-293.5	-334.7	9.3544 ug/L	9.3544 ppb	17:43:47
3	Sr 421.552†	984.6	981.5	9.3042 ug/L	9.3042 ppb	17:42:30
3	Ti 334.940†	-9055.3	-9065.7	-4.9167 ug/L	-4.9167 ppb	17:43:27
3	Tl 190.801†	-54.3	-33.6	-18.697 ug/L	-18.697 ppb	17:43:47
3	U 409.014†	-360.5	875.3	-1.7998 ug/L	-1.7998 ppb	17:43:27
3	V 292.402†	-105.2	1130.1	-3.5775 ug/L	-3.5775 ppb	17:43:47
3	Zn 213.857†	2059.3	1792.6	-1.1355 ug/L	-1.1355 ppb	17:43:47
3	SiO2†	432.6	130.7	15.236 ug/L	15.236 ppb	17:44:02

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	552832.5	92.149 %	2.4253			2.63%
Sc Radial	2545.3	97.1 %	1.64			1.69%
Y 371.029	456455.1	90.402 %	2.3216			2.57%
Y RADIAL	2833.9	97.13 %	1.974			2.03%
Ag 328.068†	-6956.0	-0.0006 ug/L	0.45672	-0.0006 ppb	0.45672	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	371853.6	520350 ug/L	8714.2	520350 ppb	8714.2	1.67%
QC value within limits for Al 396.153Radial Recovery = 104.07%						
As 188.979†	-43.1	5.3236 ug/L	4.73445	5.3236 ppb	4.73445	88.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	572.4	-9.2692 ug/L	1.27213	-9.2692 ppb	1.27213	13.72%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-403.3	2.4203 ug/L	0.17569	2.4203 ppb	0.17569	7.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-59.6	-0.0843 ug/L	0.03997	-0.0843 ppb	0.03997	47.41%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	148975.7	494450 ug/L	8854.4	494450 ppb	8854.4	1.79%
QC value within limits for Ca 317.933Radial Recovery = 98.89%						
Cd 226.502†	994.7	-0.3017 ug/L	0.33097	-0.3017 ppb	0.33097	109.72%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	35.4	-1.4533 ug/L	0.69267	-1.4533 ppb	0.69267	47.66%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-1532.1	3.8372 ug/L	1.13806	3.8372 ppb	1.13806	29.66%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2083.2	4.6105 ug/L	0.27559	4.6105 ppb	0.27559	5.98%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	7562.4	193120 ug/L	631.2	193120 ppb	631.2	0.33%
QC value within limits for Fe 238.204 Radial Recovery = 96.56%						
K 766.490 Radial†	-50.4	-147.17 ug/L	22.916	-147.17 ppb	22.916	15.57%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	6398.8	503140 ug/L	2339.7	503140 ppb	2339.7	0.47%
QC value within limits for Mg 279.077 IEC Recovery = 100.63%						
Mn 257.610†	-1363.8	0.0579 ug/L	0.06129	0.0579 ppb	0.06129	105.93%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-183.8	-0.4120 ug/L	0.83000	-0.4120 ppb	0.83000	201.46%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	146.0	88.752 ug/L	9.4349	88.752 ppb	9.4349	10.63%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	80.3	2.5332 ug/L	0.87336	2.5332 ppb	0.87336	34.48%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-6.5	-62.888 ug/L	18.8044	-62.888 ppb	18.8044	29.90%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-462.1	0.0000 ug/L	5.48834	0.0000 ppb	5.48834	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	4.7	-108.71 ug/L	13.375	-108.71 ppb	13.375	12.30%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	24.0	-2.7197 ug/L	4.58937	-2.7197 ppb	4.58937	168.74%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-637.7	0.0036 ug/L	22.22681	0.0036 ppb	22.22681	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	83.9	4.7831 ug/L	0.85520	4.7831 ppb	0.85520	17.88%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-328.2	13.953 ug/L	4.7052	13.953 ppb	4.7052	33.72%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	978.0	9.1820 ug/L	0.12178	9.1820 ppb	0.12178	1.33%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-9243.8	-4.1698 ug/L	0.85648	-4.1698 ppb	0.85648	20.54%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-38.4	-21.362 ug/L	2.3425	-21.362 ppb	2.3425	10.97%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	920.9	0.0111 ug/L	1.63892	0.0111 ppb	1.63892	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	1151.0	-3.3484 ug/L	0.42341	-3.3484 ppb	0.42341	12.64%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	1750.9	-1.8738 ug/L	0.79845	-1.8738 ppb	0.79845	42.61%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	108.5	12.744 ug/L	2.9571	12.744 ppb	2.9571	23.20%
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: 4/12/2010 17:46:14

Data Type: Reprocessed on 4/12/2010 18:44:22

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	548980.6	548980.6	91.507 %			17:49:24
1	Sc Radial	2529.5	2529.5	96.5 %			17:48:27
1	Y 371.029	453546.0	453546.0	89.826 %			17:49:24
1	Y RADIAL	2829.3	2829.3	96.97 %			17:48:27
1	Ag 328.068†	29844.4	32532.6	274.00 ug/L		274.00 ppb	17:49:24
1	Al 396.153Radial†	360084.1	373314.0	522370 ug/L		522370 ppb	17:48:06
1	As 188.979†	531.9	598.9	512.80 ug/L		512.80 ppb	17:49:44
1	B 249.677†	12473.1	13970.0	506.45 ug/L		506.45 ppb	17:49:24
1	Ba 233.527†	33877.4	37010.6	498.52 ug/L		498.52 ppb	17:49:24
1	Be 313.107†	385694.1	424759.2	248.88 ug/L		248.88 ppb	17:49:24
1	Ca 317.933Radial†	143094.9	148310.6	492250 ug/L		492250 ppb	17:48:06
1	Cd 226.502†	21080.4	23198.7	471.59 ug/L		471.59 ppb	17:49:44
1	Co 228.616†	11062.7	12118.5	454.12 ug/L		454.12 ppb	17:49:44
1	Cr 267.716†	21549.0	23471.2	482.84 ug/L		482.84 ppb	17:49:44
1	Cu 324.752†	118830.3	124693.7	562.66 ug/L		562.66 ppb	17:49:24
1	Fe 238.204 Radial†	7329.7	7591.3	193870 ug/L		193870 ppb	17:48:27
1	K 766.490 Radial†	22168.1	20535.6	5449.6 ug/L		5449.6 ppb	17:48:06
1	Mg 279.077 IEC†	6199.0	6425.3	505230 ug/L		505230 ppb	17:48:27
1	Mn 257.610†	239856.3	261770.3	481.82 ug/L		481.82 ppb	17:49:24
1	Mo 202.031†	3336.0	3634.3	498.80 ug/L		498.80 ppb	17:49:44
1	Na 589.592 Radial†	8024.2	9261.9	5631.7 ug/L		5631.7 ppb	17:48:27
1	Ni 231.604†	9188.3	9963.4	453.15 ug/L		453.15 ppb	17:49:44
1	P 214.914†	2278.4	2327.8	2312.4 ug/L		2312.4 ppb	17:49:44
1	Pb 220.353†	1418.2	1594.0	464.72 ug/L		464.72 ppb	17:49:44
1	S 181.975 Axial†	970.1	1037.4	2546.0 ug/L		2546.0 ppb	17:49:44
1	Sb 206.836†	843.9	896.8	529.54 ug/L		529.54 ppb	17:49:44
1	Se 196.026†	1319.1	1456.2	2524.2 ug/L		2524.2 ppb	17:49:44
1	Si 251.611†	91230.4	99339.3	5309.0 ug/L		5309.0 ppb	17:49:24
1	Sn 189.927†	1061.2	1152.9	502.34 ug/L		502.34 ppb	17:49:44
1	Sr 421.552†	39555.8	40983.7	535.83 ug/L		535.83 ppb	17:48:06
1	Ti 334.940†	189115.6	207715.5	507.25 ug/L		507.25 ppb	17:49:24
1	Tl 190.801†	713.5	806.8	447.13 ug/L		447.13 ppb	17:49:44
1	U 409.014†	10869.0	13155.7	493.82 ug/L		493.82 ppb	17:49:24
1	V 292.402†	42375.4	47556.1	511.48 ug/L		511.48 ppb	17:49:24
1	Zn 213.857†	28094.3	30194.7	483.72 ug/L		483.72 ppb	17:49:44
1	SiO2†	88804.9	96695.0	10760 ug/L		10760 ppb	17:50:40
2	Sc 361.383	554734.9	554734.9	92.466 %			17:49:49
2	Sc Radial	2531.8	2531.8	96.6 %			17:48:52
2	Y 371.029	458060.3	458060.3	90.720 %			17:49:49
2	Y RADIAL	2824.2	2824.2	96.79 %			17:48:52
2	Ag 328.068†	30096.9	32467.4	273.30 ug/L		273.30 ppb	17:49:49
2	Al 396.153Radial†	359609.9	372476.6	521190 ug/L		521190 ppb	17:48:32
2	As 188.979†	536.1	597.5	511.45 ug/L		511.45 ppb	17:50:09
2	B 249.677†	12676.0	14048.0	509.62 ug/L		509.62 ppb	17:49:49
2	Ba 233.527†	34245.3	37024.4	498.66 ug/L		498.66 ppb	17:49:49
2	Be 313.107†	391298.3	426447.9	249.86 ug/L		249.86 ppb	17:49:49
2	Ca 317.933Radial†	142589.5	147649.5	490050 ug/L		490050 ppb	17:48:32
2	Cd 226.502†	21346.7	23247.7	472.74 ug/L		472.74 ppb	17:50:09
2	Co 228.616†	11210.5	12152.9	455.43 ug/L		455.43 ppb	17:50:09
2	Cr 267.716†	21819.1	23519.0	483.59 ug/L		483.59 ppb	17:50:09
2	Cu 324.752†	120348.3	124988.4	563.89 ug/L		563.89 ppb	17:49:49
2	Fe 238.204 Radial†	7299.4	7552.9	192890 ug/L		192890 ppb	17:48:52
2	K 766.490 Radial†	22140.9	20486.2	5436.7 ug/L		5436.7 ppb	17:48:32
2	Mg 279.077 IEC†	6184.3	6404.1	503560 ug/L		503560 ppb	17:48:52
2	Mn 257.610†	242754.2	262185.4	482.53 ug/L		482.53 ppb	17:49:49
2	Mo 202.031†	3364.3	3627.0	497.74 ug/L		497.74 ppb	17:50:09
2	Na 589.592 Radial†	8042.7	9273.3	5638.7 ug/L		5638.7 ppb	17:48:52
2	Ni 231.604†	9292.9	9972.3	453.57 ug/L		453.57 ppb	17:50:09

2	P 214.914†	2287.1	2311.4	2295.2 ug/L	2295.2 ppb	17:50:09
2	Pb 220.353†	1442.6	1604.3	466.86 ug/L	466.86 ppb	17:50:09
2	S 181.975 Axial†	968.2	1024.4	2512.8 ug/L	2512.8 ppb	17:50:09
2	Sb 206.836†	853.2	897.2	529.93 ug/L	529.93 ppb	17:50:09
2	Se 196.026†	1323.7	1446.2	2508.3 ug/L	2508.3 ppb	17:50:09
2	Si 251.611†	92204.8	99358.9	5310.1 ug/L	5310.1 ppb	17:49:49
2	Sn 189.927†	1090.0	1172.0	508.10 ug/L	508.10 ppb	17:50:09
2	Sr 421.552†	39367.0	40750.1	532.77 ug/L	532.77 ppb	17:48:32
2	Ti 334.940†	191274.4	207906.5	507.58 ug/L	507.58 ppb	17:49:49
2	Tl 190.801†	705.8	790.3	438.08 ug/L	438.08 ppb	17:50:09
2	U 409.014†	10922.0	13089.8	491.35 ug/L	491.35 ppb	17:49:49
2	V 292.402†	42866.6	47607.0	512.11 ug/L	512.11 ppb	17:49:49
2	Zn 213.857†	28428.3	30237.4	484.61 ug/L	484.61 ppb	17:50:09
2	SiO2†	89284.0	96206.5	10706 ug/L	10706 ppb	17:50:45
3	Sc 361.383	570373.3	570373.3	95.073 %		17:50:15
3	Sc Radial	2543.6	2543.6	97.0 %		17:49:17
3	Y 371.029	470273.6	470273.6	93.139 %		17:50:15
3	Y RADIAL	2844.6	2844.6	97.49 %		17:49:17
3	Ag 328.068†	31116.3	32647.1	274.49 ug/L	274.49 ppb	17:50:15
3	Al 396.153Radial†	357045.2	368112.8	515090 ug/L	515090 ppb	17:48:57
3	As 188.979†	544.0	589.8	505.38 ug/L	505.38 ppb	17:50:35
3	B 249.677†	13216.5	14240.6	517.14 ug/L	517.14 ppb	17:50:15
3	Ba 233.527†	35245.5	37061.1	499.13 ug/L	499.13 ppb	17:50:15
3	Be 313.107†	403584.4	427768.0	250.63 ug/L	250.63 ppb	17:50:15
3	Ca 317.933Radial†	141684.5	146034.6	484690 ug/L	484690 ppb	17:48:57
3	Cd 226.502†	21665.5	22950.1	466.46 ug/L	466.46 ppb	17:50:35
3	Co 228.616†	11364.3	11982.3	448.99 ug/L	448.99 ppb	17:50:35
3	Cr 267.716†	22099.8	23167.2	476.79 ug/L	476.79 ppb	17:50:35
3	Cu 324.752†	124242.6	125516.0	566.18 ug/L	566.18 ppb	17:50:15
3	Fe 238.204 Radial†	7318.2	7537.4	192490 ug/L	192490 ppb	17:49:17
3	K 766.490 Radial†	21960.7	20194.5	5358.8 ug/L	5358.8 ppb	17:48:57
3	Mg 279.077 IEC†	6211.3	6402.3	503420 ug/L	503420 ppb	17:49:17
3	Mn 257.610†	250311.0	262935.7	483.86 ug/L	483.86 ppb	17:50:15
3	Mo 202.031†	3404.6	3569.7	490.11 ug/L	490.11 ppb	17:50:35
3	Na 589.592 Radial†	8103.3	9297.2	5653.2 ug/L	5653.2 ppb	17:49:17
3	Ni 231.604†	9461.9	9874.5	449.11 ug/L	449.11 ppb	17:50:35
3	P 214.914†	2368.9	2329.6	2313.0 ug/L	2313.0 ppb	17:50:35
3	Pb 220.353†	1435.1	1553.6	453.94 ug/L	453.94 ppb	17:50:35
3	S 181.975 Axial†	1001.5	1030.7	2530.5 ug/L	2530.5 ppb	17:50:35
3	Sb 206.836†	876.4	896.4	529.40 ug/L	529.40 ppb	17:50:35
3	Se 196.026†	1348.7	1433.2	2490.9 ug/L	2490.9 ppb	17:50:35
3	Si 251.611†	95272.7	99851.8	5336.6 ug/L	5336.6 ppb	17:50:15
3	Sn 189.927†	1106.2	1156.7	501.75 ug/L	501.75 ppb	17:50:35
3	Sr 421.552†	39051.1	40236.2	526.05 ug/L	526.05 ppb	17:48:57
3	Ti 334.940†	196941.5	208195.7	507.63 ug/L	507.63 ppb	17:50:15
3	Tl 190.801†	700.1	763.4	423.30 ug/L	423.30 ppb	17:50:35
3	U 409.014†	11536.6	13412.4	504.49 ug/L	504.49 ppb	17:50:15
3	V 292.402†	44079.3	47611.4	512.13 ug/L	512.13 ppb	17:50:15
3	Zn 213.857†	28826.8	29813.7	477.41 ug/L	477.41 ppb	17:50:35
3	SiO2†	89360.1	93639.0	10420 ug/L	10420 ppb	17:50:50

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	558029.6	93.015 %	1.8453			1.98%
Sc Radial	2535.0	96.7 %	0.29			0.30%
Y 371.029	460626.6	91.228 %	1.7140			1.88%
Y RADIAL	2832.7	97.08 %	0.364			0.37%
Ag 328.068†	32549.0	273.93 ug/L	0.597	273.93 ppb	0.597	0.22%
QC value within limits for Ag 328.068 Recovery = 109.57%						
Al 396.153Radial†	371301.1	519550 ug/L	3907.7	519550 ppb	3907.7	0.75%
QC value within limits for Al 396.153Radial Recovery = 103.91%						
As 188.979†	595.4	509.88 ug/L	3.949	509.88 ppb	3.949	0.77%
QC value within limits for As 188.979 Recovery = 101.98%						
B 249.677†	14086.2	511.07 ug/L	5.489	511.07 ppb	5.489	1.07%
QC value within limits for B 249.677 Recovery = 102.21%						
Ba 233.527†	37032.0	498.77 ug/L	0.321	498.77 ppb	0.321	0.06%
QC value within limits for Ba 233.527 Recovery = 99.75%						
Be 313.107†	426325.0	249.79 ug/L	0.881	249.79 ppb	0.881	0.35%
QC value within limits for Be 313.107 Recovery = 99.92%						

Ca 317.933Radial†	147331.6	489000 ug/L	3885.9	489000 ppb	3885.9	0.79%
QC value within limits for Ca 317.933Radial Recovery = 97.80%						
Cd 226.502†	23132.2	470.26 ug/L	3.342	470.26 ppb	3.342	0.71%
QC value within limits for Cd 226.502 Recovery = 94.05%						
Co 228.616†	12084.6	452.85 ug/L	3.406	452.85 ppb	3.406	0.75%
QC value within limits for Co 228.616 Recovery = 90.57%						
Cr 267.716†	23385.8	481.08 ug/L	3.731	481.08 ppb	3.731	0.78%
QC value within limits for Cr 267.716 Recovery = 96.22%						
Cu 324.752†	125066.0	564.24 ug/L	1.788	564.24 ppb	1.788	0.32%
QC value within limits for Cu 324.752 Recovery = 112.85%						
Fe 238.204 Radial†	7560.5	193080 ug/L	709.4	193080 ppb	709.4	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 96.54%						
K 766.490 Radial†	20405.4	5415.0 ug/L	49.10	5415.0 ppb	49.10	0.91%
QC value within limits for K 766.490 Radial Recovery = 108.30%						
Mg 279.077 IEC†	6410.6	504070 ug/L	1007.3	504070 ppb	1007.3	0.20%
QC value within limits for Mg 279.077 IEC Recovery = 100.81%						
Mn 257.610†	262297.1	482.74 ug/L	1.037	482.74 ppb	1.037	0.21%
QC value within limits for Mn 257.610 Recovery = 96.55%						
Mo 202.031†	3610.3	495.55 ug/L	4.740	495.55 ppb	4.740	0.96%
QC value within limits for Mo 202.031 Recovery = 99.11%						
Na 589.592 Radial†	9277.5	5641.2 ug/L	10.98	5641.2 ppb	10.98	0.19%
QC value within limits for Na 589.592 Radial Recovery = 112.82%						
Ni 231.604†	9936.8	451.94 ug/L	2.462	451.94 ppb	2.462	0.54%
QC value within limits for Ni 231.604 Recovery = 90.39%						
P 214.914†	2322.9	2306.9 ug/L	10.12	2306.9 ppb	10.12	0.44%
QC value within limits for P 214.914 Recovery = 92.27%						
Pb 220.353†	1583.9	461.84 ug/L	6.923	461.84 ppb	6.923	1.50%
QC value within limits for Pb 220.353 Recovery = 92.37%						
S 181.975 Axial†	1030.9	2529.8 ug/L	16.60	2529.8 ppb	16.60	0.66%
QC value within limits for S 181.975 Axial Recovery = 101.19%						
Sb 206.836†	896.8	529.62 ug/L	0.273	529.62 ppb	0.273	0.05%
QC value within limits for Sb 206.836 Recovery = 105.92%						
Se 196.026†	1445.2	2507.8 ug/L	16.64	2507.8 ppb	16.64	0.66%
QC value within limits for Se 196.026 Recovery = 100.31%						
Si 251.611†	99516.7	5318.6 ug/L	15.59	5318.6 ppb	15.59	0.29%
QC value within limits for Si 251.611 Recovery = 106.37%						
Sn 189.927†	1160.5	504.06 ug/L	3.508	504.06 ppb	3.508	0.70%
QC value within limits for Sn 189.927 Recovery = 100.81%						
Sr 421.552†	40656.7	531.55 ug/L	5.005	531.55 ppb	5.005	0.94%
QC value within limits for Sr 421.552 Recovery = 106.31%						
Ti 334.940†	207939.2	507.49 ug/L	0.206	507.49 ppb	0.206	0.04%
QC value within limits for Ti 334.940 Recovery = 101.50%						
Tl 190.801†	786.8	436.17 ug/L	12.030	436.17 ppb	12.030	2.76%
QC value within limits for Tl 190.801 Recovery = 87.23%						
U 409.014†	13219.3	496.55 ug/L	6.984	496.55 ppb	6.984	1.41%
QC value within limits for U 409.014 Recovery = 99.31%						
V 292.402†	47591.5	511.91 ug/L	0.371	511.91 ppb	0.371	0.07%
QC value within limits for V 292.402 Recovery = 102.38%						
Zn 213.857†	30082.0	481.91 ug/L	3.924	481.91 ppb	3.924	0.81%
QC value within limits for Zn 213.857 Recovery = 96.38%						
SiO2†	95513.5	10629 ug/L	182.8	10629 ppb	182.8	1.72%
QC value within limits for SiO2 Recovery = 99.38%						
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: 4/12/2010 17:53:00
 Data Type: Reprocessed on 4/12/2010 18:44:23
 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	552204.2	552204.2	92.044 %		17:56:11
1	Sc Radial	2502.3	2502.3	95.4 %		17:55:14
1	Y 371.029	456579.5	456579.5	90.426 %		17:56:11
1	Y RADIAL	2809.6	2809.6	96.29 %		17:55:14
1	Ag 328.068†	-15974.2	-17436.8	-10.795 ug/L	-10.795 ppb	17:56:11
1	Al 396.153Radial†	345521.7	362105.1	506710 ug/L	506710 ppb	17:54:53
1	As 188.979†	-108.1	-99.8	13.591 ug/L	13.591 ppb	17:56:32
1	B 249.677†	680.4	1078.4	-31.788 ug/L	-31.788 ppb	17:56:11
1	Ba 233.527†	-1048.6	-1150.4	2.9009 ug/L	2.9009 ppb	17:56:32
1	Be 313.107†	-7974.0	-5396.5	-3.1930 ug/L	-3.1930 ppb	17:56:11
1	Ca 317.933Radial†	138470.2	145074.0	481500 ug/L	481500 ppb	17:54:53
1	Cd 226.502†	2016.5	2352.5	2.7033 ug/L	2.7033 ppb	17:56:32
1	Co 228.616†	149.3	191.3	0.6252 ug/L	0.6252 ppb	17:56:32
1	Cr 267.716†	-1202.9	-1384.8	45.189 ug/L	45.189 ppb	17:56:32
1	Cu 324.752†	1204.9	-3856.8	7.0631 ug/L	7.0631 ppb	17:56:11
1	Fe 238.204 Radial†	16896.4	17697.5	451930 ug/L	451930 ppb	17:55:14
1	K 766.490 Radial†	2512.5	190.3	-302.06 ug/L	-302.06 ppb	17:54:53
1	Mg 279.077 IEC†	5997.8	6284.2	493850 ug/L	493850 ppb	17:55:14
1	Mn 257.610†	-16782.8	-18581.8	-0.0922 ug/L	-0.0922 ppb	17:56:11
1	Mo 202.031†	-302.7	-340.2	-3.0230 ug/L	-3.0230 ppb	17:56:32
1	Na 589.592 Radial†	819753.6	859861.2	522840 ug/L	522840 ppb	17:54:53
1	Ni 231.604†	200.9	140.5	3.7603 ug/L	3.7603 ppb	17:56:32
1	P 214.914†	364.4	233.9	-57.194 ug/L	-57.194 ppb	17:56:32
1	Pb 220.353†	-318.9	-302.3	-2.0264 ug/L	-2.0264 ppb	17:56:32
1	S 181.975 Axial†	42.0	22.9	-58.894 ug/L	-58.894 ppb	17:56:32
1	Sb 206.836†	42.7	20.9	-0.1242 ug/L	-0.1242 ppb	17:56:32
1	Se 196.026†	-1402.2	-1508.7	-34.217 ug/L	-34.217 ppb	17:56:32
1	Si 251.611†	-264.8	-266.3	-34.033 ug/L	-34.033 ppb	17:56:32
1	Sn 189.927†	-312.3	-346.1	8.0900 ug/L	8.0900 ppb	17:56:32
1	Sr 421.552†	941.1	969.1	9.1615 ug/L	9.1615 ppb	17:55:14
1	Ti 334.940†	-8731.9	-8439.5	-9.6067 ug/L	-9.6067 ppb	17:56:11
1	Tl 190.801†	-62.6	-41.0	-22.928 ug/L	-22.928 ppb	17:56:32
1	U 409.014†	338033.6	368529.8	14824 ug/L	14824 ppb	17:56:11
1	V 292.402†	289.1	1561.7	-4.9243 ug/L	-4.9243 ppb	17:56:32
1	Zn 213.857†	3592.6	3396.0	-16.445 ug/L	-16.445 ppb	17:56:32
1	SiO2†	-281.2	-657.9	-72.087 ug/L	-72.087 ppb	17:57:28
2	Sc 361.383	537116.9	537116.9	89.529 %		17:56:37
2	Sc Radial	2473.1	2473.1	94.3 %		17:55:39
2	Y 371.029	445376.9	445376.9	88.208 %		17:56:37
2	Y RADIAL	2777.3	2777.3	95.19 %		17:55:39
2	Ag 328.068†	-15427.1	-17313.3	-9.9660 ug/L	-9.9660 ppb	17:56:37
2	Al 396.153Radial†	344388.7	365185.0	511020 ug/L	511020 ppb	17:55:19
2	As 188.979†	-91.0	-84.0	26.006 ug/L	26.006 ppb	17:56:57
2	B 249.677†	625.4	1037.7	-33.372 ug/L	-33.372 ppb	17:56:37
2	Ba 233.527†	-1029.9	-1161.4	2.7574 ug/L	2.7574 ppb	17:56:57
2	Be 313.107†	-7748.4	-5387.9	-3.1867 ug/L	-3.1867 ppb	17:56:37
2	Ca 317.933Radial†	138077.6	146373.5	485820 ug/L	485820 ppb	17:55:19
2	Cd 226.502†	1989.1	2383.3	3.3475 ug/L	3.3475 ppb	17:56:57
2	Co 228.616†	163.0	211.1	1.3665 ug/L	1.3665 ppb	17:56:57
2	Cr 267.716†	-1249.2	-1473.2	43.518 ug/L	43.518 ppb	17:56:57
2	Cu 324.752†	1099.1	-3938.2	6.7206 ug/L	6.7206 ppb	17:56:37
2	Fe 238.204 Radial†	16702.3	17701.0	452020 ug/L	452020 ppb	17:55:39
2	K 766.490 Radial†	2507.2	215.8	-297.20 ug/L	-297.20 ppb	17:55:19
2	Mg 279.077 IEC†	5930.4	6287.0	494080 ug/L	494080 ppb	17:55:39
2	Mn 257.610†	-16303.5	-18558.7	-0.0482 ug/L	-0.0482 ppb	17:56:37
2	Mo 202.031†	-305.0	-352.0	-4.4779 ug/L	-4.4779 ppb	17:56:57
2	Na 589.592 Radial†	813548.0	863439.1	525020 ug/L	525020 ppb	17:55:19
2	Ni 231.604†	240.0	190.4	6.0345 ug/L	6.0345 ppb	17:56:57

2	P 214.914†	385.1	268.0	-19.491 ug/L	-19.491 ppb	17:56:57
2	Pb 220.353†	-341.0	-336.7	-8.7219 ug/L	-8.7219 ppb	17:56:57
2	S 181.975 Axial†	22.8	2.8	-111.50 ug/L	-111.50 ppb	17:56:57
2	Sb 206.836†	52.2	32.8	6.6665 ug/L	6.6665 ppb	17:56:57
2	Se 196.026†	-1392.0	-1540.1	-71.590 ug/L	-71.590 ppb	17:56:57
2	Si 251.611†	-224.4	-609.4	-32.036 ug/L	-32.036 ppb	17:56:57
2	Sn 189.927†	-310.1	-353.2	6.7914 ug/L	6.7914 ppb	17:56:57
2	Sr 421.552†	944.4	984.2	9.3278 ug/L	9.3278 ppb	17:55:39
2	Ti 334.940†	-8271.8	-8192.0	-8.5205 ug/L	-8.5205 ppb	17:56:37
2	Tl 190.801†	-80.4	-62.8	-34.923 ug/L	-34.923 ppb	17:56:57
2	U 409.014†	328450.0	368141.2	14808 ug/L	14808 ppb	17:56:37
2	V 292.402†	258.9	1536.8	-5.2566 ug/L	-5.2566 ppb	17:56:57
2	Zn 213.857†	3571.5	3482.1	-14.993 ug/L	-14.993 ppb	17:56:57
2	SiO2†	-233.9	-613.7	-67.125 ug/L	-67.125 ppb	17:57:33
3	Sc 361.383	531266.0	531266.0	88.554 %		17:57:02
3	Sc Radial	2553.6	2553.6	97.4 %		17:56:05
3	Y 371.029	440287.6	440287.6	87.200 %		17:57:02
3	Y RADIAL	2866.0	2866.0	98.22 %		17:56:05
3	Ag 328.068†	-15118.4	-17154.4	-8.7272 ug/L	-8.7272 ppb	17:57:02
3	Al 396.153Radial†	346937.1	356289.9	498570 ug/L	498570 ppb	17:55:45
3	As 188.979†	-101.7	-97.1	15.634 ug/L	15.634 ppb	17:57:22
3	B 249.677†	688.5	1116.7	-30.297 ug/L	-30.297 ppb	17:57:02
3	Ba 233.527†	-1062.7	-1211.2	2.0918 ug/L	2.0918 ppb	17:57:22
3	Be 313.107†	-7692.7	-5420.3	-3.2111 ug/L	-3.2111 ppb	17:57:02
3	Ca 317.933Radial†	138812.8	142512.9	473000 ug/L	473000 ppb	17:55:45
3	Cd 226.502†	1952.6	2366.6	3.0056 ug/L	3.0056 ppb	17:57:22
3	Co 228.616†	155.9	205.1	1.1516 ug/L	1.1516 ppb	17:57:22
3	Cr 267.716†	-1208.3	-1442.3	44.087 ug/L	44.087 ppb	17:57:22
3	Cu 324.752†	1157.2	-3859.1	7.0668 ug/L	7.0668 ppb	17:57:02
3	Fe 238.204 Radial†	17239.6	17694.4	451850 ug/L	451850 ppb	17:56:05
3	K 766.490 Radial†	2634.2	262.4	-275.12 ug/L	-275.12 ppb	17:55:45
3	Mg 279.077 IEC†	6147.7	6311.9	496040 ug/L	496040 ppb	17:56:05
3	Mn 257.610†	-16285.1	-18738.5	-0.4776 ug/L	-0.4776 ppb	17:57:02
3	Mo 202.031†	-286.3	-334.6	-2.4791 ug/L	-2.4791 ppb	17:57:22
3	Na 589.592 Radial†	817718.1	840526.8	511080 ug/L	511080 ppb	17:55:45
3	Ni 231.604†	206.9	156.0	4.4667 ug/L	4.4667 ppb	17:57:22
3	P 214.914†	376.8	263.4	-27.469 ug/L	-27.469 ppb	17:57:22
3	Pb 220.353†	-343.6	-343.9	-13.431 ug/L	-13.431 ppb	17:57:22
3	S 181.975 Axial†	32.7	14.2	-79.384 ug/L	-79.384 ppb	17:57:22
3	Sb 206.836†	57.2	39.2	10.867 ug/L	10.867 ppb	17:57:22
3	Se 196.026†	-1395.6	-1561.3	-98.008 ug/L	-98.008 ppb	17:57:22
3	Si 251.611†	-264.4	-657.3	-34.628 ug/L	-34.628 ppb	17:57:22
3	Sn 189.927†	-312.6	-359.9	1.4844 ug/L	1.4844 ppb	17:57:22
3	Sr 421.552†	979.8	989.0	9.4866 ug/L	9.4866 ppb	17:56:05
3	Ti 334.940†	-9086.9	-9214.3	-12.609 ug/L	-12.609 ppb	17:57:02
3	Tl 190.801†	-78.0	-61.0	-33.977 ug/L	-33.977 ppb	17:57:22
3	U 409.014†	324436.6	367649.4	14788 ug/L	14788 ppb	17:57:02
3	V 292.402†	225.0	1501.6	-5.5842 ug/L	-5.5842 ppb	17:57:22
3	Zn 213.857†	3533.5	3483.0	-14.939 ug/L	-14.939 ppb	17:57:22
3	SiO2†	-252.1	-637.1	-69.789 ug/L	-69.789 ppb	17:57:38

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	540195.7	90.042 %		1.8007			2.00%
Sc Radial	2509.7	95.7 %		1.55			1.62%
Y 371.029	447414.7	88.611 %		1.6508			1.86%
Y RADIAL	2817.6	96.57 %		1.537			1.59%
Ag 328.068†	-17301.5	-9.8294 ug/L		1.04065	-9.8294 ppb	1.04065	10.59%
Al 396.153Radial†	361193.3	505430 ug/L		6321.0	505430 ppb	6321.0	1.25%
QC value within limits for Al 396.153Radial Recovery = 101.09%							
As 188.979†	-93.6	18.411 ug/L		6.6569	18.411 ppb	6.6569	36.16%
B 249.677†	1077.6	-31.819 ug/L		1.5376	-31.819 ppb	1.5376	4.83%
Ba 233.527†	-1174.3	2.5834 ug/L		0.43172	2.5834 ppb	0.43172	16.71%
Be 313.107†	-5401.6	-3.1969 ug/L		0.01265	-3.1969 ppb	0.01265	0.40%
Ca 317.933Radial†	144653.5	480110 ug/L		6519.8	480110 ppb	6519.8	1.36%
QC value within limits for Ca 317.933Radial Recovery = 96.02%							
Cd 226.502†	2367.5	3.0188 ug/L		0.32232	3.0188 ppb	0.32232	10.68%
Co 228.616†	202.5	1.0478 ug/L		0.38143	1.0478 ppb	0.38143	36.40%
Cr 267.716†	-1433.5	44.265 ug/L		0.8495	44.265 ppb	0.8495	1.92%

Cu 324.752†	-3884.7	6.9502 ug/L	0.19883	6.9502 ppb	0.19883	2.86%
Fe 238.204 Radial†	17697.6	451940 ug/L	84.1	451940 ppb	84.1	0.02%
QC value within limits for Fe 238.204 Radial Recovery = 90.39%						
K 766.490 Radial†	222.8	-291.46 ug/L	14.363	-291.46 ppb	14.363	4.93%
Mg 279.077 IEC†	6294.4	494650 ug/L	1201.5	494650 ppb	1201.5	0.24%
QC value within limits for Mg 279.077 IEC Recovery = 98.93%						
Mn 257.610†	-18626.3	-0.2060 ug/L	0.23623	-0.2060 ppb	0.23623	114.69%
Mo 202.031†	-342.3	-3.3267 ug/L	1.03342	-3.3267 ppb	1.03342	31.06%
Na 589.592 Radial†	854609.1	519650 ug/L	7494.9	519650 ppb	7494.9	1.44%
QC value within limits for Na 589.592 Radial Recovery = 103.93%						
Ni 231.604†	162.3	4.7538 ug/L	1.16401	4.7538 ppb	1.16401	24.49%
P 214.914†	255.1	-34.718 ug/L	19.8696	-34.718 ppb	19.8696	57.23%
Pb 220.353†	-327.6	-8.0597 ug/L	5.73094	-8.0597 ppb	5.73094	71.11%
S 181.975 Axial†	13.3	-83.259 ug/L	26.5158	-83.259 ppb	26.5158	31.85%
Sb 206.836†	31.0	5.8029 ug/L	5.54604	5.8029 ppb	5.54604	95.57%
Se 196.026†	-1536.7	-67.938 ug/L	32.0521	-67.938 ppb	32.0521	47.18%
Si 251.611†	-637.7	-33.566 ug/L	1.3575	-33.566 ppb	1.3575	4.04%
Sn 189.927†	-353.1	5.4553 ug/L	3.49965	5.4553 ppb	3.49965	64.15%
Sr 421.552†	980.7	9.3253 ug/L	0.16255	9.3253 ppb	0.16255	1.74%
Ti 334.940†	-8615.3	-10.245 ug/L	2.1175	-10.245 ppb	2.1175	20.67%
Tl 190.801†	-54.9	-30.609 ug/L	6.6695	-30.609 ppb	6.6695	21.79%
U 409.014†	368106.8	14806 ug/L	17.8	14806 ppb	17.8	0.12%
QC value within limits for U 409.014 Recovery = 98.71%						
V 292.402†	1533.4	-5.2550 ug/L	0.32999	-5.2550 ppb	0.32999	6.28%
Zn 213.857†	3453.7	-15.459 ug/L	0.8544	-15.459 ppb	0.8544	5.53%
SiO2†	-636.2	-69.667 ug/L	2.4831	-69.667 ppb	2.4831	3.56%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 4/12/2010 17:59:49

Data Type: Reprocessed on 4/12/2010 18:44:24

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	607283.6	607283.6	101.22 %			18:03:22
1	Sc Radial	2713.1	2713.1	103 %			18:02:06
1	Y 371.029	501955.3	501955.3	99.413 %			18:03:22
1	Y RADIAL	3003.2	3003.2	102.9 %			18:02:06
1	Ag 328.068†	-4434.2	-4462.4	9.4528 ug/L		9.4528 ppb	18:03:27
1	Al 396.153Radial†	277.3	344.3	12.543 ug/L		12.543 ppb	18:02:06
1	As 188.979†	12731.7	12595.3	9950.6 ug/L		9950.6 ppb	18:03:27
1	B 249.677†	131443.8	130192.2	4997.9 ug/L		4997.9 ppb	18:03:22
1	Ba 233.527†	1073895.6	1060888.7	14055 ug/L		14055 ppb	18:03:22
1	Be 313.107†	4945701.2	4889117.5	2874.2 ug/L		2874.2 ppb	18:03:17
1	Ca 317.933Radial†	22.5	10.2	33.981 ug/L		33.981 ppb	18:02:06
1	Cd 226.502†	462459.0	457024.2	9712.9 ug/L		9712.9 ppb	18:03:22
1	Co 228.616†	258901.9	255797.8	9640.3 ug/L		9640.3 ppb	18:03:22
1	Cr 267.716†	1259310.6	1243993.2	23814 ug/L		23814 ppb	18:03:22
1	Cu 324.752†	4624413.1	4563284.9	20099 ug/L		20099 ppb	18:03:17
1	Fe 238.204 Radial†	-2.5	-8.5	70.271 ug/L		70.271 ppb	18:02:06
1	K 766.490 Radial†	1109922.3	1070147.5	291060 ug/L		291060 ppb	18:01:41
1	Mg 279.077 IEC†	-0.9	-1.0	10.898 ug/L		10.898 ppb	18:02:06
1	Mn 257.610†	5198385.1	5135128.4	9401.7 ug/L		9401.7 ppb	18:03:17
1	Mo 202.031†	74929.7	74011.5	9676.7 ug/L		9676.7 ppb	18:03:27
1	Na 589.592 Radial†	-513.7	448.1	272.48 ug/L		272.48 ppb	18:01:46
1	Ni 231.604†	215762.0	213073.2	9715.3 ug/L		9715.3 ppb	18:03:22
1	P 214.914†	16091.1	15734.3	12217 ug/L		12217 ppb	18:03:27
1	Pb 220.353†	104330.3	103111.9	23258 ug/L		23258 ppb	18:03:27
1	S 181.975 Axial†	20081.5	19815.7	50949 ug/L		50949 ppb	18:03:27
1	Sb 206.836†	17303.4	17068.5	10418 ug/L		10418 ppb	18:03:27
1	Se 196.026†	8297.0	8211.3	9910.1 ug/L		9910.1 ppb	18:03:27
1	Si 251.611†	888243.2	877135.5	46810 ug/L		46810 ppb	18:03:22
1	Sn 189.927†	30694.9	30316.6	10008 ug/L		10008 ppb	18:03:27
1	Sr 421.552†	807552.3	780373.0	10273 ug/L		10273 ppb	18:01:41
1	Ti 334.940†	4229706.4	4179567.7	9859.4 ug/L		9859.4 ppb	18:03:17
1	Tl 190.801†	17354.2	17171.3	9511.0 ug/L		9511.0 ppb	18:03:27
1	U 409.014†	-187.5	1092.7	-9.0080 ug/L		-9.0080 ppb	18:03:22
1	V 292.402†	916968.7	907119.5	10040 ug/L		10040 ppb	18:03:22
1	Zn 213.857†	826085.9	815581.9	13942 ug/L		13942 ppb	18:03:22
1	SiO2†	878894.6	867906.3	96435 ug/L		96435 ppb	18:04:12
2	Sc 361.383	605756.2	605756.2	100.97 %			18:03:41
2	Sc Radial	2737.8	2737.8	104 %			18:02:36
2	Y 371.029	501425.8	501425.8	99.308 %			18:03:41
2	Y RADIAL	3011.3	3011.3	103.2 %			18:02:36
2	Ag 328.068†	-4531.6	-4569.9	8.6893 ug/L		8.6893 ppb	18:03:46
2	Al 396.153Radial†	276.1	340.8	7.7740 ug/L		7.7740 ppb	18:02:36
2	As 188.979†	12654.4	12550.4	9915.3 ug/L		9915.3 ppb	18:03:46
2	B 249.677†	131183.3	130261.7	5000.6 ug/L		5000.6 ppb	18:03:41
2	Ba 233.527†	1069006.0	1058721.1	14027 ug/L		14027 ppb	18:03:41
2	Be 313.107†	4934526.4	4890369.2	2874.9 ug/L		2874.9 ppb	18:03:36
2	Ca 317.933Radial†	17.7	5.4	18.018 ug/L		18.018 ppb	18:02:36
2	Cd 226.502†	460198.0	455936.9	9689.8 ug/L		9689.8 ppb	18:03:41
2	Co 228.616†	257675.6	255228.2	9618.9 ug/L		9618.9 ppb	18:03:41
2	Cr 267.716†	1255062.4	1242922.5	23793 ug/L		23793 ppb	18:03:41
2	Cu 324.752†	4604017.3	4554604.0	20061 ug/L		20061 ppb	18:03:36
2	Fe 238.204 Radial†	-3.6	-9.6	43.179 ug/L		43.179 ppb	18:02:36
2	K 766.490 Radial†	1146636.4	1095651.4	298000 ug/L		298000 ppb	18:02:11
2	Mg 279.077 IEC†	-1.6	-1.7	-41.242 ug/L		-41.242 ppb	18:02:36
2	Mn 257.610†	5172484.6	5122425.4	9378.4 ug/L		9378.4 ppb	18:03:36
2	Mo 202.031†	74710.5	73981.2	9672.7 ug/L		9672.7 ppb	18:03:46
2	Na 589.592 Radial†	-538.2	429.1	260.90 ug/L		260.90 ppb	18:02:16
2	Ni 231.604†	215018.9	212874.7	9706.3 ug/L		9706.3 ppb	18:03:41

2	P 214.914†	16091.4	15774.7	12270 ug/L	12270 ppb	18:03:46
2	Pb 220.353†	103845.7	102891.8	23209 ug/L	23209 ppb	18:03:46
2	S 181.975 Axial†	20036.4	19821.1	50963 ug/L	50963 ppb	18:03:46
2	Sb 206.836†	17300.7	17109.0	10442 ug/L	10442 ppb	18:03:46
2	Se 196.026†	8252.6	8188.0	9881.9 ug/L	9881.9 ppb	18:03:46
2	Si 251.611†	885347.4	876479.9	46775 ug/L	46775 ppb	18:03:41
2	Sn 189.927†	30606.1	30305.1	10004 ug/L	10004 ppb	18:03:46
2	Sr 421.552†	830976.7	795780.3	10476 ug/L	10476 ppb	18:02:11
2	Ti 334.940†	4212303.7	4172868.0	9843.6 ug/L	9843.6 ppb	18:03:36
2	Tl 190.801†	17258.4	17119.5	9482.4 ug/L	9482.4 ppb	18:03:46
2	U 409.014†	-44.3	1234.0	-3.2395 ug/L	-3.2395 ppb	18:03:41
2	V 292.402†	914427.6	906886.9	10038 ug/L	10038 ppb	18:03:41
2	Zn 213.857†	822675.9	814262.3	13919 ug/L	13919 ppb	18:03:41
2	SiO2†	873290.7	864545.4	96060 ug/L	96060 ppb	18:04:17
3	Sc 361.383	596481.8	596481.8	99.424 %		18:04:00
3	Sc Radial	2730.2	2730.2	104 %		18:03:07
3	Y 371.029	494062.4	494062.4	97.850 %		18:04:00
3	Y RADIAL	3019.2	3019.2	103.5 %		18:03:07
3	Ag 328.068†	-4502.4	-4610.3	8.3524 ug/L	8.3524 ppb	18:04:05
3	Al 396.153Radial†	282.0	347.2	8.4271 ug/L	8.4271 ppb	18:03:07
3	As 188.979†	12698.0	12789.2	10102 ug/L	10102 ppb	18:04:05
3	B 249.677†	128928.8	130014.3	4991.2 ug/L	4991.2 ppb	18:04:00
3	Ba 233.527†	1050980.9	1057053.4	14005 ug/L	14005 ppb	18:04:00
3	Be 313.107†	4827108.7	4858317.1	2856.1 ug/L	2856.1 ppb	18:03:54
3	Ca 317.933Radial†	21.9	9.6	31.839 ug/L	31.839 ppb	18:03:07
3	Cd 226.502†	451363.5	454137.8	9651.6 ug/L	9651.6 ppb	18:04:00
3	Co 228.616†	252832.2	254324.7	9585.3 ug/L	9585.3 ppb	18:04:00
3	Cr 267.716†	1233748.4	1240812.1	23753 ug/L	23753 ppb	18:04:00
3	Cu 324.752†	4507578.4	4528504.7	19946 ug/L	19946 ppb	18:03:54
3	Fe 238.204 Radial†	-4.6	-10.5	18.180 ug/L	18.180 ppb	18:03:07
3	K 766.490 Radial†	1132132.6	1084755.9	295030 ug/L	295030 ppb	18:02:42
3	Mg 279.077 IEC†	-0.3	-0.5	55.637 ug/L	55.637 ppb	18:03:07
3	Mn 257.610†	5065167.7	5094139.0	9326.6 ug/L	9326.6 ppb	18:03:54
3	Mo 202.031†	74869.7	75291.7	9844.1 ug/L	9844.1 ppb	18:04:05
3	Na 589.592 Radial†	-553.9	412.6	250.85 ug/L	250.85 ppb	18:02:47
3	Ni 231.604†	211168.2	212312.8	9680.6 ug/L	9680.6 ppb	18:04:00
3	P 214.914†	16111.3	16042.5	12586 ug/L	12586 ppb	18:04:05
3	Pb 220.353†	104210.1	104857.5	23652 ug/L	23652 ppb	18:04:05
3	S 181.975 Axial†	20071.5	20165.0	51847 ug/L	51847 ppb	18:04:05
3	Sb 206.836†	17314.9	17389.7	10614 ug/L	10614 ppb	18:04:05
3	Se 196.026†	8318.8	8381.6	10115 ug/L	10115 ppb	18:04:05
3	Si 251.611†	868607.9	873277.1	46601 ug/L	46601 ppb	18:04:00
3	Sn 189.927†	30655.1	30825.7	10176 ug/L	10176 ppb	18:04:05
3	Sr 421.552†	822366.3	789709.5	10396 ug/L	10396 ppb	18:02:42
3	Ti 334.940†	4124551.3	4149473.4	9788.4 ug/L	9788.4 ppb	18:03:54
3	Tl 190.801†	17386.3	17514.0	9699.0 ug/L	9699.0 ppb	18:04:05
3	U 409.014†	-186.7	1090.1	-8.9676 ug/L	-8.9676 ppb	18:04:00
3	V 292.402†	899160.2	905612.5	10026 ug/L	10026 ppb	18:04:00
3	Zn 213.857†	809506.8	813685.5	13910 ug/L	13910 ppb	18:04:00
3	SiO2†	877647.0	882374.8	98042 ug/L	98042 ppb	18:04:23

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	603173.8	100.54 %	0.974			0.97%
Sc Radial	2727.1	104 %	0.5			0.46%
Y 371.029	499147.8	98.857 %	0.8738			0.88%
Y RADIAL	3011.2	103.2 %	0.27			0.26%
Ag 328.068†	-4547.5	8.8315 ug/L	0.56382	8.8315 ppb	0.56382	6.38%
Al 396.153Radial†	344.1	9.5813 ug/L	2.58553	9.5813 ppb	2.58553	26.98%
As 188.979†	12645.0	9989.3 ug/L	99.18	9989.3 ppb	99.18	0.99%
QC value within limits for As 188.979 Recovery = 99.89%						
B 249.677†	130156.1	4996.6 ug/L	4.86	4996.6 ppb	4.86	0.10%
QC value within limits for B 249.677 Recovery = 99.93%						
Ba 233.527†	1058887.7	14029 ug/L	25.5	14029 ppb	25.5	0.18%
QC value within limits for Ba 233.527 Recovery = 93.53%						
Be 313.107†	4879267.9	2868.4 ug/L	10.67	2868.4 ppb	10.67	0.37%
QC value within limits for Be 313.107 Recovery = 95.61%						
Ca 317.933Radial†	8.4	27.946 ug/L	8.6645	27.946 ppb	8.6645	31.00%
Cd 226.502†	455699.6	9684.7 ug/L	30.97	9684.7 ppb	30.97	0.32%

QC value within limits for Cd 226.502 Recovery = 96.85%									
Co	228.616†	255116.9	9614.8 ug/L	27.71	9614.8 ppb	27.71	0.29%		
QC value within limits for Co 228.616 Recovery = 96.15%									
Cr	267.716†	1242575.9	23787 ug/L	31.0	23787 ppb	31.0	0.13%		
QC value within limits for Cr 267.716 Recovery = 95.15%									
Cu	324.752†	4548797.9	20035 ug/L	79.8	20035 ppb	79.8	0.40%		
QC value within limits for Cu 324.752 Recovery = 100.18%									
Fe	238.204 Radial†	-9.5	43.877 ug/L	26.0529	43.877 ppb	26.0529	59.38%		
K	766.490 Radial†	1083518.3	294700 ug/L	3480.7	294700 ppb	3480.7	1.18%		
QC value within limits for K 766.490 Radial Recovery = 98.23%									
Mg	279.077 IEC†	-1.1	8.4308 ug/L	48.48668	8.4308 ppb	48.48668	575.11%		
Mn	257.610†	5117231.0	9368.9 ug/L	38.42	9368.9 ppb	38.42	0.41%		
QC value within limits for Mn 257.610 Recovery = 93.69%									
Mo	202.031†	74428.1	9731.2 ug/L	97.80	9731.2 ppb	97.80	1.01%		
QC value within limits for Mo 202.031 Recovery = 97.31%									
Na	589.592 Radial†	429.9	261.41 ug/L	10.821	261.41 ppb	10.821	4.14%		
Ni	231.604†	212753.6	9700.7 ug/L	17.98	9700.7 ppb	17.98	0.19%		
QC value within limits for Ni 231.604 Recovery = 97.01%									
P	214.914†	15850.5	12358 ug/L	199.2	12358 ppb	199.2	1.61%		
QC value less than the lower limit for P 214.914 Recovery = 82.38%									
Pb	220.353†	103620.4	23373 ug/L	243.2	23373 ppb	243.2	1.04%		
QC value within limits for Pb 220.353 Recovery = 93.49%									
S	181.975 Axial†	19934.0	51253 ug/L	514.5	51253 ppb	514.5	1.00%		
QC value within limits for S 181.975 Axial Recovery = 102.51%									
Sb	206.836†	17189.0	10491 ug/L	106.7	10491 ppb	106.7	1.02%		
QC value within limits for Sb 206.836 Recovery = 104.91%									
Se	196.026†	8260.3	9969.1 ug/L	127.41	9969.1 ppb	127.41	1.28%		
QC value within limits for Se 196.026 Recovery = 99.69%									
Si	251.611†	875630.8	46729 ug/L	111.6	46729 ppb	111.6	0.24%		
QC value within limits for Si 251.611 Recovery = 93.46%									
Sn	189.927†	30482.4	10063 ug/L	98.2	10063 ppb	98.2	0.98%		
QC value within limits for Sn 189.927 Recovery = 100.63%									
Sr	421.552†	788620.9	10381 ug/L	102.2	10381 ppb	102.2	0.98%		
QC value within limits for Sr 421.552 Recovery = 103.81%									
Ti	334.940†	4167303.1	9830.5 ug/L	37.30	9830.5 ppb	37.30	0.38%		
QC value within limits for Ti 334.940 Recovery = 98.30%									
Tl	190.801†	17268.3	9564.1 ug/L	117.69	9564.1 ppb	117.69	1.23%		
QC value within limits for Tl 190.801 Recovery = 95.64%									
U	409.014†	1138.9	-7.0717 ug/L	3.31883	-7.0717 ppb	3.31883	46.93%		
V	292.402†	906539.7	10035 ug/L	7.4	10035 ppb	7.4	0.07%		
QC value within limits for V 292.402 Recovery = 100.35%									
Zn	213.857†	814509.9	13924 ug/L	16.5	13924 ppb	16.5	0.12%		
QC value within limits for Zn 213.857 Recovery = 92.82%									
SiO2†		871608.8	96846 ug/L	1052.9	96846 ppb	1052.9	1.09%		
QC value within limits for SiO2 Recovery = 90.51%									
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: 4/12/2010 18:21:30
 Data Type: Reprocessed on 4/12/2010 18:44:27
 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	617162.3	617162.3	102.87 %		18:24:39
1	Sc Radial	2802.9	2802.9	107 %		18:23:42
1	Y 371.029	514654.4	514654.4	101.93 %		18:24:39
1	Y RADIAL	3114.4	3114.4	106.7 %		18:23:42
1	Ag 328.068†	74479.1	72318.1	501.31 ug/L	501.31 ppb	18:24:44
1	Al 396.153Radial†	3775.3	3607.7	5023.7 ug/L	5023.7 ppb	18:23:22
1	As 188.979†	640.5	640.3	506.83 ug/L	506.83 ppb	18:25:04
1	B 249.677†	13137.8	13110.2	503.78 ug/L	503.78 ppb	18:24:44
1	Ba 233.527†	38434.4	37350.4	495.40 ug/L	495.40 ppb	18:24:44
1	Be 313.107†	881371.8	860035.3	502.77 ug/L	502.77 ppb	18:24:39
1	Ca 317.933Radial†	1669.3	1550.0	5144.5 ug/L	5144.5 ppb	18:23:42
1	Cd 226.502†	23832.7	23329.1	495.33 ug/L	495.33 ppb	18:24:44
1	Co 228.616†	13634.0	13282.4	500.78 ug/L	500.78 ppb	18:25:04
1	Cr 267.716†	26688.6	25865.7	496.25 ug/L	496.25 ppb	18:24:44
1	Cu 324.752†	121607.9	113047.4	497.87 ug/L	497.87 ppb	18:24:44
1	Fe 238.204 Radial†	222.5	202.0	5173.7 ug/L	5173.7 ppb	18:23:42
1	K 766.490 Radial†	22681.8	18774.5	5099.9 ug/L	5099.9 ppb	18:23:22
1	Mg 279.077 IEC†	73.2	68.3	5374.7 ug/L	5374.7 ppb	18:23:42
1	Mn 257.610†	275983.8	267931.5	490.94 ug/L	490.94 ppb	18:24:44
1	Mo 202.031†	4018.6	3895.0	509.73 ug/L	509.73 ppb	18:25:04
1	Na 589.592 Radial†	17446.3	17263.9	10497 ug/L	10497 ppb	18:23:22
1	Ni 231.604†	11422.1	11025.5	502.69 ug/L	502.69 ppb	18:25:04
1	P 214.914†	2579.7	2345.6	2398.3 ug/L	2398.3 ppb	18:25:04
1	Pb 220.353†	2277.3	2257.9	510.55 ug/L	510.55 ppb	18:25:04
1	S 181.975 Axial†	434.3	399.4	1025.9 ug/L	1025.9 ppb	18:25:04
1	Sb 206.836†	912.5	861.6	526.16 ug/L	526.16 ppb	18:25:04
1	Se 196.026†	422.3	425.1	533.49 ug/L	533.49 ppb	18:25:04
1	Si 251.611†	48029.7	46330.3	2472.5 ug/L	2472.5 ppb	18:24:44
1	Sn 189.927†	1567.8	1517.2	502.14 ug/L	502.14 ppb	18:25:04
1	Sr 421.552†	42439.3	39681.0	522.32 ug/L	522.32 ppb	18:23:22
1	Ti 334.940†	212330.7	207450.7	489.57 ug/L	489.57 ppb	18:24:44
1	Tl 190.801†	929.4	930.5	515.14 ug/L	515.14 ppb	18:25:04
1	U 409.014†	11248.2	12212.1	492.00 ug/L	492.00 ppb	18:24:44
1	V 292.402†	45223.8	45209.0	501.39 ug/L	501.39 ppb	18:24:44
1	Zn 213.857†	30260.0	28908.2	492.60 ug/L	492.60 ppb	18:24:44
1	SiO2†	48843.3	47127.4	5236.9 ug/L	5236.9 ppb	18:26:11
2	Sc 361.383	640186.6	640186.6	106.71 %		18:25:10
2	Sc Radial	2816.2	2816.2	107 %		18:24:07
2	Y 371.029	532837.2	532837.2	105.53 %		18:25:10
2	Y RADIAL	3113.3	3113.3	106.7 %		18:24:07
2	Ag 328.068†	77507.9	72552.7	502.94 ug/L	502.94 ppb	18:25:15
2	Al 396.153Radial†	3841.8	3653.1	5087.6 ug/L	5087.6 ppb	18:23:47
2	As 188.979†	659.6	635.8	503.32 ug/L	503.32 ppb	18:25:35
2	B 249.677†	13819.2	13289.5	510.72 ug/L	510.72 ppb	18:25:15
2	Ba 233.527†	40222.2	37682.1	499.79 ug/L	499.79 ppb	18:25:15
2	Be 313.107†	919735.0	865172.8	505.78 ug/L	505.78 ppb	18:25:10
2	Ca 317.933Radial†	1673.0	1546.1	5131.5 ug/L	5131.5 ppb	18:24:07
2	Cd 226.502†	25019.3	23607.9	501.24 ug/L	501.24 ppb	18:25:15
2	Co 228.616†	13998.4	13147.3	495.66 ug/L	495.66 ppb	18:25:35
2	Cr 267.716†	27892.8	26061.1	499.99 ug/L	499.99 ppb	18:25:15
2	Cu 324.752†	126914.0	113768.4	501.05 ug/L	501.05 ppb	18:25:15
2	Fe 238.204 Radial†	223.4	201.9	5170.6 ug/L	5170.6 ppb	18:24:07
2	K 766.490 Radial†	22972.6	18945.3	5146.3 ug/L	5146.3 ppb	18:23:47
2	Mg 279.077 IEC†	73.2	68.0	5348.5 ug/L	5348.5 ppb	18:24:07
2	Mn 257.610†	288466.6	269980.7	494.69 ug/L	494.69 ppb	18:25:15
2	Mo 202.031†	4087.5	3819.1	499.80 ug/L	499.80 ppb	18:25:35
2	Na 589.592 Radial†	17646.2	17373.2	10564 ug/L	10564 ppb	18:23:47
2	Ni 231.604†	11697.1	10883.9	496.23 ug/L	496.23 ppb	18:25:35

2	P 214.914†	2639.1	2311.1	2360.6 ug/L	2360.6 ppb	18:25:35
2	Pb 220.353†	2336.1	2233.4	505.02 ug/L	505.02 ppb	18:25:35
2	S 181.975 Axial†	444.1	393.5	1010.5 ug/L	1010.5 ppb	18:25:35
2	Sb 206.836†	933.8	849.6	518.92 ug/L	518.92 ppb	18:25:35
2	Se 196.026†	427.1	414.9	521.15 ug/L	521.15 ppb	18:25:35
2	Si 251.611†	50338.7	46814.9	2498.6 ug/L	2498.6 ppb	18:25:15
2	Sn 189.927†	1629.0	1519.7	502.97 ug/L	502.97 ppb	18:25:35
2	Sr 421.552†	43045.5	40058.5	527.29 ug/L	527.29 ppb	18:23:47
2	Ti 334.940†	221586.8	208701.5	492.52 ug/L	492.52 ppb	18:25:15
2	Tl 190.801†	942.1	909.9	503.87 ug/L	503.87 ppb	18:25:35
2	U 409.014†	11685.8	12228.9	492.68 ug/L	492.68 ppb	18:25:15
2	V 292.402†	47175.6	45457.0	503.96 ug/L	503.96 ppb	18:25:15
2	Zn 213.857†	31600.8	29106.7	496.05 ug/L	496.05 ppb	18:25:15
2	SiO2†	50051.8	46552.4	5173.1 ug/L	5173.1 ppb	18:26:16
3	Sc 361.383	646878.3	646878.3	107.82 %		18:25:40
3	Sc Radial	2755.6	2755.6	105 %		18:24:32
3	Y 371.029	538372.2	538372.2	106.63 %		18:25:40
3	Y RADIAL	3058.5	3058.5	104.8 %		18:24:32
3	Ag 328.068†	78362.2	72593.6	503.24 ug/L	503.24 ppb	18:25:46
3	Al 396.153Radial†	3733.3	3628.4	5053.5 ug/L	5053.5 ppb	18:24:12
3	As 188.979†	649.9	620.5	491.29 ug/L	491.29 ppb	18:26:06
3	B 249.677†	14117.4	13432.1	516.24 ug/L	516.24 ppb	18:25:46
3	Ba 233.527†	40686.0	37722.3	500.33 ug/L	500.33 ppb	18:25:46
3	Be 313.107†	929944.1	865725.1	506.10 ug/L	506.10 ppb	18:25:40
3	Ca 317.933Radial†	1637.8	1546.8	5133.9 ug/L	5133.9 ppb	18:24:32
3	Cd 226.502†	25358.1	23679.6	502.75 ug/L	502.75 ppb	18:25:46
3	Co 228.616†	13842.5	12867.0	485.07 ug/L	485.07 ppb	18:26:06
3	Cr 267.716†	28216.9	26091.3	500.58 ug/L	500.58 ppb	18:25:46
3	Cu 324.752†	128413.8	113929.0	501.77 ug/L	501.77 ppb	18:25:46
3	Fe 238.204 Radial†	221.4	204.5	5237.1 ug/L	5237.1 ppb	18:24:32
3	K 766.490 Radial†	22252.3	18729.8	5087.8 ug/L	5087.8 ppb	18:24:12
3	Mg 279.077 IEC†	70.7	67.1	5277.2 ug/L	5277.2 ppb	18:24:32
3	Mn 257.610†	291879.3	270349.4	495.38 ug/L	495.38 ppb	18:25:46
3	Mo 202.031†	4062.8	3756.6	491.64 ug/L	491.64 ppb	18:26:06
3	Na 589.592 Radial†	16998.7	17118.0	10409 ug/L	10409 ppb	18:24:12
3	Ni 231.604†	11559.3	10642.8	485.24 ug/L	485.24 ppb	18:26:06
3	P 214.914†	2620.5	2268.3	2314.3 ug/L	2314.3 ppb	18:26:06
3	Pb 220.353†	2291.9	2169.7	490.62 ug/L	490.62 ppb	18:26:06
3	S 181.975 Axial†	438.5	384.0	986.10 ug/L	986.10 ppb	18:26:06
3	Sb 206.836†	922.9	830.5	507.31 ug/L	507.31 ppb	18:26:06
3	Se 196.026†	424.4	408.2	513.30 ug/L	513.30 ppb	18:26:06
3	Si 251.611†	50903.4	46850.6	2500.6 ug/L	2500.6 ppb	18:25:46
3	Sn 189.927†	1615.8	1491.7	493.73 ug/L	493.73 ppb	18:26:06
3	Sr 421.552†	41726.5	39683.8	522.36 ug/L	522.36 ppb	18:24:12
3	Ti 334.940†	224159.6	208939.5	493.09 ug/L	493.09 ppb	18:25:46
3	Tl 190.801†	924.3	884.3	489.80 ug/L	489.80 ppb	18:26:06
3	U 409.014†	11928.4	12340.7	497.18 ug/L	497.18 ppb	18:25:46
3	V 292.402†	47796.7	45575.7	505.13 ug/L	505.13 ppb	18:25:46
3	Zn 213.857†	32085.2	29249.7	498.57 ug/L	498.57 ppb	18:25:46
3	SiO2†	48767.6	44876.1	4986.5 ug/L	4986.5 ppb	18:26:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	634742.4	105.80 %	2.598			2.46%
Sc Radial	2791.6	106 %	1.2			1.14%
Y 371.029	528621.3	104.69 %	2.457			2.35%
Y RADIAL	3095.4	106.1 %	1.10			1.03%
Ag 328.068†	72488.1	502.50 ug/L	1.037	502.50 ppb	1.037	0.21%
QC value within limits for Ag 328.068 Recovery = 100.50%						
Al 396.153Radial†	3629.7	5054.9 ug/L	31.98	5054.9 ppb	31.98	0.63%
QC value within limits for Al 396.153Radial Recovery = 101.10%						
As 188.979†	632.2	500.48 ug/L	8.150	500.48 ppb	8.150	1.63%
QC value within limits for As 188.979 Recovery = 100.10%						
B 249.677†	13277.3	510.25 ug/L	6.243	510.25 ppb	6.243	1.22%
QC value within limits for B 249.677 Recovery = 102.05%						
Ba 233.527†	37584.9	498.51 ug/L	2.705	498.51 ppb	2.705	0.54%
QC value within limits for Ba 233.527 Recovery = 99.70%						
Be 313.107†	863644.4	504.88 ug/L	1.835	504.88 ppb	1.835	0.36%
QC value within limits for Be 313.107 Recovery = 100.98%						

Ca 317.933Radial†	1547.6	5136.6 ug/L	6.91	5136.6 ppb	6.91	0.13%
QC value within limits for Ca 317.933Radial Recovery = 102.73%						
Cd 226.502†	23538.9	499.77 ug/L	3.925	499.77 ppb	3.925	0.79%
QC value within limits for Cd 226.502 Recovery = 99.95%						
Co 228.616†	13098.9	493.84 ug/L	8.012	493.84 ppb	8.012	1.62%
QC value within limits for Co 228.616 Recovery = 98.77%						
Cr 267.716†	26006.0	498.94 ug/L	2.349	498.94 ppb	2.349	0.47%
QC value within limits for Cr 267.716 Recovery = 99.79%						
Cu 324.752†	113581.6	500.23 ug/L	2.074	500.23 ppb	2.074	0.41%
QC value within limits for Cu 324.752 Recovery = 100.05%						
Fe 238.204 Radial†	202.8	5193.8 ug/L	37.53	5193.8 ppb	37.53	0.72%
QC value within limits for Fe 238.204 Radial Recovery = 103.88%						
K 766.490 Radial†	18816.5	5111.3 ug/L	30.90	5111.3 ppb	30.90	0.60%
QC value within limits for K 766.490 Radial Recovery = 102.23%						
Mg 279.077 IEC†	67.8	5333.5 ug/L	50.43	5333.5 ppb	50.43	0.95%
QC value within limits for Mg 279.077 IEC Recovery = 106.67%						
Mn 257.610†	269420.5	493.67 ug/L	2.389	493.67 ppb	2.389	0.48%
QC value within limits for Mn 257.610 Recovery = 98.73%						
Mo 202.031†	3823.6	500.39 ug/L	9.059	500.39 ppb	9.059	1.81%
QC value within limits for Mo 202.031 Recovery = 100.08%						
Na 589.592 Radial†	17251.7	10490 ug/L	77.9	10490 ppb	77.9	0.74%
QC value within limits for Na 589.592 Radial Recovery = 104.90%						
Ni 231.604†	10850.7	494.72 ug/L	8.824	494.72 ppb	8.824	1.78%
QC value within limits for Ni 231.604 Recovery = 98.94%						
P 214.914†	2308.3	2357.7 ug/L	42.08	2357.7 ppb	42.08	1.78%
QC value within limits for P 214.914 Recovery = 94.31%						
Pb 220.353†	2220.3	502.06 ug/L	10.289	502.06 ppb	10.289	2.05%
QC value within limits for Pb 220.353 Recovery = 100.41%						
S 181.975 Axial†	392.3	1007.5 ug/L	20.05	1007.5 ppb	20.05	1.99%
QC value within limits for S 181.975 Axial Recovery = 100.75%						
Sb 206.836†	847.3	517.46 ug/L	9.506	517.46 ppb	9.506	1.84%
QC value within limits for Sb 206.836 Recovery = 103.49%						
Se 196.026†	416.1	522.65 ug/L	10.178	522.65 ppb	10.178	1.95%
QC value within limits for Se 196.026 Recovery = 104.53%						
Si 251.611†	46665.3	2490.5 ug/L	15.65	2490.5 ppb	15.65	0.63%
QC value within limits for Si 251.611 Recovery = 99.62%						
Sn 189.927†	1509.5	499.62 ug/L	5.115	499.62 ppb	5.115	1.02%
QC value within limits for Sn 189.927 Recovery = 99.92%						
Sr 421.552†	39807.8	523.99 ug/L	2.858	523.99 ppb	2.858	0.55%
QC value within limits for Sr 421.552 Recovery = 104.80%						
Ti 334.940†	208363.9	491.73 ug/L	1.889	491.73 ppb	1.889	0.38%
QC value within limits for Ti 334.940 Recovery = 98.35%						
Tl 190.801†	908.2	502.94 ug/L	12.693	502.94 ppb	12.693	2.52%
QC value within limits for Tl 190.801 Recovery = 100.59%						
U 409.014†	12260.6	493.95 ug/L	2.816	493.95 ppb	2.816	0.57%
QC value within limits for U 409.014 Recovery = 98.79%						
V 292.402†	45413.9	503.49 ug/L	1.914	503.49 ppb	1.914	0.38%
QC value within limits for V 292.402 Recovery = 100.70%						
Zn 213.857†	29088.2	495.74 ug/L	2.997	495.74 ppb	2.997	0.60%
QC value within limits for Zn 213.857 Recovery = 99.15%						
SiO2†	46185.3	5132.1 ug/L	130.09	5132.1 ppb	130.09	2.53%
QC value within limits for SiO2 Recovery = 95.97%						
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: 4/12/2010 18:28:32

Data Type: Reprocessed on 4/12/2010 18:44:29

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	628081.3	628081.3	104.69 %		18:31:42
1	Sc Radial	2657.4	2657.4	101 %		18:30:45
1	Y 371.029	529302.2	529302.2	104.83 %		18:31:42
1	Y RADIAL	2965.4	2965.4	101.6 %		18:30:45
1	Ag 328.068†	158.6	69.6	0.4932 ug/L	0.4932 ppb	18:31:42
1	Al 396.153Radial†	-75.4	1.9	2.6674 ug/L	2.6674 ppb	18:30:45
1	As 188.979†	-11.9	6.4	5.0053 ug/L	5.0053 ppb	18:32:02
1	B 249.677†	89.8	424.9	16.392 ug/L	16.392 ppb	18:32:02
1	Ba 233.527†	17.8	5.8	0.0808 ug/L	0.0808 ppb	18:32:02
1	Be 313.107†	-3253.5	159.0	0.0930 ug/L	0.0930 ppb	18:31:42
1	Ca 317.933Radial†	11.3	-0.3	-1.1603 ug/L	-1.1603 ppb	18:30:45
1	Cd 226.502†	-146.7	21.6	0.4533 ug/L	0.4533 ppb	18:32:02
1	Co 228.616†	-22.8	7.3	0.2739 ug/L	0.2739 ppb	18:32:02
1	Cr 267.716†	91.6	9.6	0.1914 ug/L	0.1914 ppb	18:32:02
1	Cu 324.752†	5277.0	-125.3	-0.5514 ug/L	-0.5514 ppb	18:31:42
1	Fe 238.204 Radial†	8.4	2.2	55.272 ug/L	55.272 ppb	18:30:45
1	K 766.490 Radial†	2640.3	162.8	44.276 ug/L	44.276 ppb	18:30:25
1	Mg 279.077 IEC†	1.4	1.3	98.381 ug/L	98.381 ppb	18:30:45
1	Mn 257.610†	336.1	-27.4	-0.0475 ug/L	-0.0475 ppb	18:32:02
1	Mo 202.031†	12.3	0.4	0.0615 ug/L	0.0615 ppb	18:32:02
1	Na 589.592 Radial†	-898.3	58.2	35.417 ug/L	35.417 ppb	18:30:25
1	Ni 231.604†	96.6	14.6	0.6635 ug/L	0.6635 ppb	18:32:02
1	P 214.914†	155.7	-13.4	-14.237 ug/L	-14.237 ppb	18:32:02
1	Pb 220.353†	-48.2	-1.9	-0.4412 ug/L	-0.4412 ppb	18:32:02
1	S 181.975 Axial†	26.7	2.8	7.1911 ug/L	7.1911 ppb	18:32:02
1	Sb 206.836†	22.9	-3.6	-2.0834 ug/L	-2.0834 ppb	18:32:02
1	Se 196.026†	-25.2	-9.5	-11.163 ug/L	-11.163 ppb	18:32:02
1	Si 251.611†	362.6	-12.4	-0.6616 ug/L	-0.6616 ppb	18:32:02
1	Sn 189.927†	9.1	1.8	0.5987 ug/L	0.5987 ppb	18:32:02
1	Sr 421.552†	10.6	-6.5	-0.0858 ug/L	-0.0858 ppb	18:30:25
1	Ti 334.940†	-1036.4	57.1	0.1241 ug/L	0.1241 ppb	18:31:42
1	Tl 190.801†	-25.6	2.6	1.4274 ug/L	1.4274 ppb	18:32:02
1	U 409.014†	-1186.7	144.4	5.8308 ug/L	5.8308 ppb	18:31:42
1	V 292.402†	-1249.8	53.8	0.5945 ug/L	0.5945 ppb	18:31:42
1	Zn 213.857†	525.7	-5.0	-0.0980 ug/L	-0.0980 ppb	18:32:02
1	SiO2†	361.5	-7.1	-0.7935 ug/L	-0.7935 ppb	18:33:13
2	Sc 361.383	613222.4	613222.4	102.21 %		18:32:07
2	Sc Radial	2690.5	2690.5	103 %		18:31:10
2	Y 371.029	517256.1	517256.1	102.44 %		18:32:07
2	Y RADIAL	3003.6	3003.6	102.9 %		18:31:10
2	Ag 328.068†	222.0	135.4	0.9441 ug/L	0.9441 ppb	18:32:07
2	Al 396.153Radial†	-74.1	4.1	5.7736 ug/L	5.7736 ppb	18:31:10
2	As 188.979†	-19.8	-1.7	-1.2844 ug/L	-1.2844 ppb	18:32:27
2	B 249.677†	80.2	417.6	16.112 ug/L	16.112 ppb	18:32:27
2	Ba 233.527†	21.4	9.8	0.1320 ug/L	0.1320 ppb	18:32:27
2	Be 313.107†	-3061.9	271.1	0.1588 ug/L	0.1588 ppb	18:32:07
2	Ca 317.933Radial†	6.6	-5.1	-16.887 ug/L	-16.887 ppb	18:31:10
2	Cd 226.502†	-152.1	12.9	0.2679 ug/L	0.2679 ppb	18:32:27
2	Co 228.616†	-35.8	-6.0	-0.2259 ug/L	-0.2259 ppb	18:32:27
2	Cr 267.716†	70.7	-8.8	-0.1603 ug/L	-0.1603 ppb	18:32:27
2	Cu 324.752†	5245.8	-33.8	-0.1483 ug/L	-0.1483 ppb	18:32:07
2	Fe 238.204 Radial†	8.4	2.1	53.735 ug/L	53.735 ppb	18:31:10
2	K 766.490 Radial†	2714.1	202.7	55.101 ug/L	55.101 ppb	18:30:50
2	Mg 279.077 IEC†	4.3	4.0	317.98 ug/L	317.98 ppb	18:31:10
2	Mn 257.610†	344.4	-11.5	-0.0276 ug/L	-0.0276 ppb	18:32:27
2	Mo 202.031†	15.2	3.5	0.4585 ug/L	0.4585 ppb	18:32:27
2	Na 589.592 Radial†	-878.4	88.5	53.815 ug/L	53.815 ppb	18:30:50
2	Ni 231.604†	70.8	-8.5	-0.3863 ug/L	-0.3863 ppb	18:32:27

2	P 214.914†	156.9	-8.5	-9.1870 ug/L	-9.1870 ppb	18:32:27
2	Pb 220.353†	-30.3	14.5	3.2557 ug/L	3.2557 ppb	18:32:27
2	S 181.975 Axial†	23.9	0.7	1.8841 ug/L	1.8841 ppb	18:32:27
2	Sb 206.836†	23.8	-2.1	-1.2522 ug/L	-1.2522 ppb	18:32:27
2	Se 196.026†	-11.2	3.7	4.6373 ug/L	4.6373 ppb	18:32:27
2	Si 251.611†	341.3	-24.8	-1.3341 ug/L	-1.3341 ppb	18:32:27
2	Sn 189.927†	5.3	-1.7	-0.5720 ug/L	-0.5720 ppb	18:32:27
2	Sr 421.552†	23.7	6.1	0.0801 ug/L	0.0801 ppb	18:30:50
2	Ti 334.940†	-949.1	118.6	0.2495 ug/L	0.2495 ppb	18:32:07
2	Tl 190.801†	-24.7	2.9	1.6111 ug/L	1.6111 ppb	18:32:27
2	U 409.014†	-1161.5	141.6	5.7183 ug/L	5.7183 ppb	18:32:07
2	V 292.402†	-1260.4	14.5	0.1744 ug/L	0.1744 ppb	18:32:07
2	Zn 213.857†	519.1	0.7	0.0055 ug/L	0.0055 ppb	18:32:27
2	SiO2†	357.7	-2.5	-0.2897 ug/L	-0.2897 ppb	18:33:33
3	Sc 361.383	589309.1	589309.1	98.229 %		18:32:32
3	Sc Radial	2742.8	2742.8	105 %		18:31:35
3	Y 371.029	496931.3	496931.3	98.418 %		18:32:32
3	Y RADIAL	3068.0	3068.0	105.1 %		18:31:35
3	Ag 328.068†	153.4	74.3	0.5095 ug/L	0.5095 ppb	18:32:32
3	Al 396.153Radial†	-67.7	11.6	16.222 ug/L	16.222 ppb	18:31:35
3	As 188.979†	-14.7	2.7	2.1522 ug/L	2.1522 ppb	18:32:52
3	B 249.677†	66.7	407.1	15.712 ug/L	15.712 ppb	18:32:52
3	Ba 233.527†	6.0	-5.1	-0.0683 ug/L	-0.0683 ppb	18:32:52
3	Be 313.107†	-3138.9	71.2	0.0420 ug/L	0.0420 ppb	18:32:32
3	Ca 317.933Radial†	10.1	-1.8	-5.9230 ug/L	-5.9230 ppb	18:31:35
3	Cd 226.502†	-145.8	13.3	0.2817 ug/L	0.2817 ppb	18:32:52
3	Co 228.616†	-33.9	-5.5	-0.2064 ug/L	-0.2064 ppb	18:32:52
3	Cr 267.716†	84.4	8.0	0.1533 ug/L	0.1533 ppb	18:32:52
3	Cu 324.752†	5101.4	27.6	0.1207 ug/L	0.1207 ppb	18:32:32
3	Fe 238.204 Radial†	6.6	0.2	4.1384 ug/L	4.1384 ppb	18:31:35
3	K 766.490 Radial†	2714.4	152.4	41.438 ug/L	41.438 ppb	18:31:15
3	Mg 279.077 IEC†	0.4	0.2	18.415 ug/L	18.415 ppb	18:31:35
3	Mn 257.610†	344.6	2.4	0.0041 ug/L	0.0041 ppb	18:32:52
3	Mo 202.031†	16.1	5.1	0.6651 ug/L	0.6651 ppb	18:32:52
3	Na 589.592 Radial†	-906.1	78.3	47.636 ug/L	47.636 ppb	18:31:15
3	Ni 231.604†	78.3	2.0	0.0907 ug/L	0.0907 ppb	18:32:52
3	P 214.914†	160.8	1.6	1.6780 ug/L	1.6780 ppb	18:32:52
3	Pb 220.353†	-46.7	-3.4	-0.7576 ug/L	-0.7576 ppb	18:32:52
3	S 181.975 Axial†	19.3	-3.1	-7.8560 ug/L	-7.8560 ppb	18:32:52
3	Sb 206.836†	27.8	2.9	1.6927 ug/L	1.6927 ppb	18:32:52
3	Se 196.026†	-16.5	-2.2	-2.6237 ug/L	-2.6237 ppb	18:32:52
3	Si 251.611†	336.5	-16.2	-0.8725 ug/L	-0.8725 ppb	18:32:52
3	Sn 189.927†	5.4	-1.3	-0.4376 ug/L	-0.4376 ppb	18:32:52
3	Sr 421.552†	-1.2	-18.2	-0.2390 ug/L	-0.2390 ppb	18:31:15
3	Ti 334.940†	-940.2	90.0	0.2096 ug/L	0.2096 ppb	18:32:32
3	Tl 190.801†	-28.1	-1.5	-0.8358 ug/L	-0.8358 ppb	18:32:52
3	U 409.014†	-1225.8	29.9	1.2106 ug/L	1.2106 ppb	18:32:32
3	V 292.402†	-1281.1	-56.6	-0.6077 ug/L	-0.6077 ppb	18:32:32
3	Zn 213.857†	514.7	16.9	0.2891 ug/L	0.2891 ppb	18:32:52
3	SiO2†	368.9	23.2	2.5623 ug/L	2.5623 ppb	18:33:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	610204.3	101.71 %	%	3.261			3.21%
Sc Radial	2696.9	103 %	%	1.6			1.60%
Y 371.029	514496.5	101.90 %	%	3.240			3.18%
Y RADIAL	3012.3	103.2 %	%	1.78			1.72%
Ag 328.068†	93.1	0.6489 ug/L	ug/L	0.25578	0.6489 ppb	0.25578	39.42%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	5.9	8.2210 ug/L	ug/L	7.10092	8.2210 ppb	7.10092	86.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.5	1.9577 ug/L	ug/L	3.14940	1.9577 ppb	3.14940	160.87%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	416.5	16.072 ug/L	ug/L	0.3416	16.072 ppb	0.3416	2.13%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	3.5	0.0482 ug/L	ug/L	0.10409	0.0482 ppb	0.10409	216.12%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	167.1	0.0979 ug/L	ug/L	0.05854	0.0979 ppb	0.05854	59.77%
QC value within limits for Be 313.107 Recovery = Not calculated							

Ca 317.933Radial†	-2.4	-7.9901 ug/L	8.06453	-7.9901 ppb	8.06453	100.93%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	15.9	0.3343 ug/L	0.10331	0.3343 ppb	0.10331	30.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.4	-0.0528 ug/L	0.28310	-0.0528 ppb	0.28310	536.20%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.0	0.0615 ug/L	0.19300	0.0615 ppb	0.19300	313.89%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-43.8	-0.1930 ug/L	0.33830	-0.1930 ppb	0.33830	175.29%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.5	37.715 ug/L	29.0886	37.715 ppb	29.0886	77.13%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	172.6	46.938 ug/L	7.2102	46.938 ppb	7.2102	15.36%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.8	144.92 ug/L	155.110	144.92 ppb	155.110	107.03%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-12.2	-0.0237 ug/L	0.02603	-0.0237 ppb	0.02603	109.98%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.0	0.3950 ug/L	0.30677	0.3950 ppb	0.30677	77.67%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	75.0	45.623 ug/L	9.3626	45.623 ppb	9.3626	20.52%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	2.7	0.1226 ug/L	0.52563	0.1226 ppb	0.52563	428.62%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-6.8	-7.2488 ug/L	8.13279	-7.2488 ppb	8.13279	112.20%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.0	0.6856 ug/L	2.23136	0.6856 ppb	2.23136	325.45%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.2	0.4064 ug/L	7.63161	0.4064 ppb	7.63161	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-0.9	-0.5476 ug/L	1.98418	-0.5476 ppb	1.98418	362.34%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.7	-3.0498 ug/L	7.90882	-3.0498 ppb	7.90882	259.32%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-17.8	-0.9561 ug/L	0.34394	-0.9561 ppb	0.34394	35.97%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.4	-0.1370 ug/L	0.64064	-0.1370 ppb	0.64064	467.63%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-6.2	-0.0816 ug/L	0.15960	-0.0816 ppb	0.15960	195.60%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	88.6	0.1944 ug/L	0.06406	0.1944 ppb	0.06406	32.95%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	1.3	0.7342 ug/L	1.36281	0.7342 ppb	1.36281	185.61%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	105.3	4.2533 ug/L	2.63563	4.2533 ppb	2.63563	61.97%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	3.9	0.0537 ug/L	0.61009	0.0537 ppb	0.61009	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	4.2	0.0655 ug/L	0.20043	0.0655 ppb	0.20043	305.77%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	4.5	0.4930 ug/L	1.80963	0.4930 ppb	1.80963	367.03%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 4/12/2010 18:56:27

Plasma On Time: 4/11/2010 23:51:45

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\041210.sif

Batch ID:

Results Data Set: 041210D

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 4/12/2010 18:56:29

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2740.6	2740.6	105 %		18:58:41
1	Y RADIAL	3042.5	3042.5	104.3 %		18:58:41
1	Al 396.153Radial†	3657.9	3575.7	4979.5 ug/L	4979.5 ppb	18:58:21
1	Ca 317.933Radial†	1607.9	1526.7	5067.2 ug/L	5067.2 ppb	18:58:41
1	Fe 238.204 Radial†	220.1	204.5	5235.7 ug/L	5235.7 ppb	18:58:41
1	K 766.490 Radial†	21526.1	18151.2	4930.4 ug/L	4930.4 ppb	18:58:21
1	Mg 279.077 IEC†	70.8	67.5	5312.9 ug/L	5312.9 ppb	18:58:41
1	Na 589.592 Radial†	16867.2	17080.8	10386 ug/L	10386 ppb	18:58:21
1	Sr 421.552†	41053.0	39257.1	516.74 ug/L	516.74 ppb	18:58:21
1	Sc 361.383	637345.3	637345.3	106.24 %		18:59:38
1	Y 371.029	531475.3	531475.3	105.26 %		18:59:38
1	Ag 328.068†	76618.8	72039.6	499.41 ug/L	499.41 ppb	18:59:38
1	As 188.979†	654.3	633.6	501.61 ug/L	501.61 ppb	18:59:58
1	B 249.677†	13329.5	12886.2	495.16 ug/L	495.16 ppb	18:59:38
1	Ba 233.527†	39783.9	37437.5	496.55 ug/L	496.55 ppb	18:59:38
1	Be 313.107†	900634.2	851035.6	497.54 ug/L	497.54 ppb	18:59:38
1	Cd 226.502†	24761.1	23469.3	498.29 ug/L	498.29 ppb	18:59:38
1	Co 228.616†	13774.3	12994.8	489.90 ug/L	489.90 ppb	18:59:58
1	Cr 267.716†	27603.1	25905.0	497.01 ug/L	497.01 ppb	18:59:38
1	Cu 324.752†	125834.4	113282.3	498.92 ug/L	498.92 ppb	18:59:38
1	Mn 257.610†	288582.5	271295.0	497.11 ug/L	497.11 ppb	18:59:38
1	Mo 202.031†	4041.7	3793.1	496.40 ug/L	496.40 ppb	18:59:58
1	Ni 231.604†	11512.8	10759.3	490.55 ug/L	490.55 ppb	18:59:58
1	P 214.914†	2597.4	2282.8	2330.6 ug/L	2330.6 ppb	18:59:58
1	Pb 220.353†	2285.1	2195.1	496.35 ug/L	496.35 ppb	18:59:58
1	S 181.975 Axial†	436.9	388.6	997.90 ug/L	997.90 ppb	18:59:58
1	Sb 206.836†	908.2	829.4	506.72 ug/L	506.72 ppb	18:59:58
1	Se 196.026†	418.1	408.2	513.26 ug/L	513.26 ppb	18:59:58
1	Si 251.611†	49702.1	46426.0	2477.8 ug/L	2477.8 ppb	18:59:38
1	Sn 189.927†	1584.7	1484.8	491.44 ug/L	491.44 ppb	18:59:58
1	Ti 334.940†	222057.0	210069.9	495.75 ug/L	495.75 ppb	18:59:38
1	Tl 190.801†	912.7	886.2	490.87 ug/L	490.87 ppb	18:59:58
1	U 409.014†	11390.6	11999.9	483.40 ug/L	483.40 ppb	18:59:38
1	V 292.402†	46565.0	45079.4	499.75 ug/L	499.75 ppb	18:59:38
1	Zn 213.857†	31238.8	28898.0	492.49 ug/L	492.49 ppb	18:59:38
1	SiO2†	49246.8	46003.7	5112.0 ug/L	5112.0 ppb	19:00:56
2	Sc Radial	2696.3	2696.3	103 %		18:59:06
2	Y RADIAL	3000.4	3000.4	102.8 %		18:59:06
2	Al 396.153Radial†	3601.6	3578.5	4983.9 ug/L	4983.9 ppb	18:58:46
2	Ca 317.933Radial†	1589.0	1533.6	5090.1 ug/L	5090.1 ppb	18:59:06
2	Fe 238.204 Radial†	215.4	203.3	5207.1 ug/L	5207.1 ppb	18:59:06
2	K 766.490 Radial†	21364.1	18332.1	4979.6 ug/L	4979.6 ppb	18:58:46
2	Mg 279.077 IEC†	71.3	69.2	5444.1 ug/L	5444.1 ppb	18:59:06
2	Na 589.592 Radial†	16610.0	17095.9	10395 ug/L	10395 ppb	18:58:46
2	Sr 421.552†	40406.2	39273.7	516.96 ug/L	516.96 ppb	18:58:46
2	Sc 361.383	641776.9	641776.9	106.97 %		19:00:04
2	Y 371.029	535233.1	535233.1	106.00 %		19:00:04

2	Ag 328.068†	77134.3	72023.4	499.30 ug/L	499.30 ppb	19:00:04
2	As 188.979†	641.9	617.7	489.15 ug/L	489.15 ppb	19:00:24
2	B 249.677†	13384.7	12851.2	493.84 ug/L	493.84 ppb	19:00:04
2	Ba 233.527†	39979.8	37362.1	495.56 ug/L	495.56 ppb	19:00:04
2	Be 313.107†	906285.0	850463.9	497.20 ug/L	497.20 ppb	19:00:04
2	Cd 226.502†	24891.6	23430.4	497.46 ug/L	497.46 ppb	19:00:04
2	Co 228.616†	13569.3	12713.7	479.28 ug/L	479.28 ppb	19:00:24
2	Cr 267.716†	27760.9	25873.0	496.40 ug/L	496.40 ppb	19:00:04
2	Cu 324.752†	126563.2	113145.7	498.32 ug/L	498.32 ppb	19:00:04
2	Mn 257.610†	290370.0	271090.2	496.73 ug/L	496.73 ppb	19:00:04
2	Mo 202.031†	3987.7	3716.3	486.37 ug/L	486.37 ppb	19:00:24
2	Ni 231.604†	11335.3	10518.5	479.57 ug/L	479.57 ppb	19:00:24
2	P 214.914†	2557.5	2228.7	2272.6 ug/L	2272.6 ppb	19:00:24
2	Pb 220.353†	2243.7	2141.5	484.24 ug/L	484.24 ppb	19:00:24
2	S 181.975 Axial†	427.0	376.5	966.80 ug/L	966.80 ppb	19:00:24
2	Sb 206.836†	907.2	822.6	502.40 ug/L	502.40 ppb	19:00:24
2	Se 196.026†	412.6	400.3	503.66 ug/L	503.66 ppb	19:00:24
2	Si 251.611†	49982.0	46364.6	2474.6 ug/L	2474.6 ppb	19:00:04
2	Sn 189.927†	1574.3	1464.8	484.83 ug/L	484.83 ppb	19:00:24
2	Ti 334.940†	223204.5	209699.2	494.87 ug/L	494.87 ppb	19:00:04
2	Tl 190.801†	907.0	874.9	484.70 ug/L	484.70 ppb	19:00:24
2	U 409.014†	11562.2	12086.3	486.91 ug/L	486.91 ppb	19:00:04
2	V 292.402†	47041.9	45222.4	501.18 ug/L	501.18 ppb	19:00:04
2	Zn 213.857†	31421.2	28865.5	492.01 ug/L	492.01 ppb	19:00:04
2	SiO2†	48325.0	44821.9	4980.6 ug/L	4980.6 ppb	19:01:01
3	Sc Radial	2747.4	2747.4	105 %		18:59:31
3	Y RADIAL	3050.2	3050.2	104.5 %		18:59:31
3	Al 396.153Radial†	3643.5	3553.3	4948.4 ug/L	4948.4 ppb	18:59:11
3	Ca 317.933Radial†	1607.3	1522.4	5052.9 ug/L	5052.9 ppb	18:59:31
3	Fe 238.204 Radial†	222.8	206.5	5288.2 ug/L	5288.2 ppb	18:59:31
3	K 766.490 Radial†	21527.0	18101.0	4916.8 ug/L	4916.8 ppb	18:59:11
3	Mg 279.077 IEC†	69.3	65.9	5185.9 ug/L	5185.9 ppb	18:59:31
3	Na 589.592 Radial†	16776.2	16954.0	10309 ug/L	10309 ppb	18:59:11
3	Sr 421.552†	41026.6	39134.7	515.13 ug/L	515.13 ppb	18:59:11
3	Sc 361.383	637134.9	637134.9	106.20 %		19:00:30
3	Y 371.029	530189.7	530189.7	105.01 %		19:00:30
3	Ag 328.068†	76587.8	72034.2	499.38 ug/L	499.38 ppb	19:00:30
3	As 188.979†	642.2	622.4	492.82 ug/L	492.82 ppb	19:00:50
3	B 249.677†	13331.8	12892.6	495.41 ug/L	495.41 ppb	19:00:30
3	Ba 233.527†	39860.4	37522.0	497.67 ug/L	497.67 ppb	19:00:30
3	Be 313.107†	898045.7	848878.3	496.28 ug/L	496.28 ppb	19:00:30
3	Cd 226.502†	24779.4	23494.2	498.81 ug/L	498.81 ppb	19:00:30
3	Co 228.616†	13601.4	12836.2	483.91 ug/L	483.91 ppb	19:00:50
3	Cr 267.716†	27572.0	25884.3	496.62 ug/L	496.62 ppb	19:00:30
3	Cu 324.752†	125712.7	113206.8	498.59 ug/L	498.59 ppb	19:00:30
3	Mn 257.610†	289210.5	271976.0	498.37 ug/L	498.37 ppb	19:00:30
3	Mo 202.031†	3995.0	3750.4	490.82 ug/L	490.82 ppb	19:00:50
3	Ni 231.604†	11379.3	10637.2	484.98 ug/L	484.98 ppb	19:00:50
3	P 214.914†	2565.3	2253.5	2299.1 ug/L	2299.1 ppb	19:00:50
3	Pb 220.353†	2234.8	2148.4	485.79 ug/L	485.79 ppb	19:00:50
3	S 181.975 Axial†	416.4	369.4	948.57 ug/L	948.57 ppb	19:00:50
3	Sb 206.836†	906.8	828.4	505.92 ug/L	505.92 ppb	19:00:50
3	Se 196.026†	410.7	401.3	505.23 ug/L	505.23 ppb	19:00:50
3	Si 251.611†	49774.0	46509.2	2482.3 ug/L	2482.3 ppb	19:00:30
3	Sn 189.927†	1570.3	1471.7	487.12 ug/L	487.12 ppb	19:00:50
3	Ti 334.940†	222366.3	210430.2	496.61 ug/L	496.61 ppb	19:00:30
3	Tl 190.801†	897.5	872.2	483.21 ug/L	483.21 ppb	19:00:50
3	U 409.014†	11538.5	12142.7	489.17 ug/L	489.17 ppb	19:00:30
3	V 292.402†	46506.5	45038.7	499.22 ug/L	499.22 ppb	19:00:30
3	Zn 213.857†	31229.7	28899.2	492.54 ug/L	492.54 ppb	19:00:30
3	SiO2†	47679.2	44543.0	4949.4 ug/L	4949.4 ppb	19:01:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	638752.4	106.47 %	0.437			0.41%
Sc Radial	2728.1	104 %	1.1			1.02%
Y 371.029	532299.3	105.42 %	0.519			0.49%
Y RADIAL	3031.0	103.9 %	0.92			0.89%
Ag 328.068†	72032.4	499.36 ug/L	0.060	499.36 ppb	0.060	0.01%

QC value within limits for Ag 328.068 Recovery = 99.87%							
Al 396.153Radial†	3569.2	4970.6 ug/L	19.34	4970.6 ppb	19.34	0.39%	
QC value within limits for Al 396.153Radial Recovery = 99.41%							
As 188.979†	624.6	494.53 ug/L	6.405	494.53 ppb	6.405	1.30%	
QC value within limits for As 188.979 Recovery = 98.91%							
B 249.677†	12876.7	494.80 ug/L	0.844	494.80 ppb	0.844	0.17%	
QC value within limits for B 249.677 Recovery = 98.96%							
Ba 233.527†	37440.5	496.59 ug/L	1.057	496.59 ppb	1.057	0.21%	
QC value within limits for Ba 233.527 Recovery = 99.32%							
Be 313.107†	850125.9	497.01 ug/L	0.651	497.01 ppb	0.651	0.13%	
QC value within limits for Be 313.107 Recovery = 99.40%							
Ca 317.933Radial†	1527.6	5070.1 ug/L	18.77	5070.1 ppb	18.77	0.37%	
QC value within limits for Ca 317.933Radial Recovery = 101.40%							
Cd 226.502†	23464.6	498.19 ug/L	0.682	498.19 ppb	0.682	0.14%	
QC value within limits for Cd 226.502 Recovery = 99.64%							
Co 228.616†	12848.2	484.36 ug/L	5.324	484.36 ppb	5.324	1.10%	
QC value within limits for Co 228.616 Recovery = 96.87%							
Cr 267.716†	25887.4	496.68 ug/L	0.311	496.68 ppb	0.311	0.06%	
QC value within limits for Cr 267.716 Recovery = 99.34%							
Cu 324.752†	113211.6	498.61 ug/L	0.301	498.61 ppb	0.301	0.06%	
QC value within limits for Cu 324.752 Recovery = 99.72%							
Fe 238.204 Radial†	204.8	5243.7 ug/L	41.11	5243.7 ppb	41.11	0.78%	
QC value within limits for Fe 238.204 Radial Recovery = 104.87%							
K 766.490 Radial†	18194.8	4942.3 ug/L	33.04	4942.3 ppb	33.04	0.67%	
QC value within limits for K 766.490 Radial Recovery = 98.85%							
Mg 279.077 IEC†	67.6	5314.3 ug/L	129.11	5314.3 ppb	129.11	2.43%	
QC value within limits for Mg 279.077 IEC Recovery = 106.29%							
Mn 257.610†	271453.7	497.40 ug/L	0.859	497.40 ppb	0.859	0.17%	
QC value within limits for Mn 257.610 Recovery = 99.48%							
Mo 202.031†	3753.3	491.20 ug/L	5.029	491.20 ppb	5.029	1.02%	
QC value within limits for Mo 202.031 Recovery = 98.24%							
Na 589.592 Radial†	17043.6	10363 ug/L	47.4	10363 ppb	47.4	0.46%	
QC value within limits for Na 589.592 Radial Recovery = 103.63%							
Ni 231.604†	10638.3	485.03 ug/L	5.490	485.03 ppb	5.490	1.13%	
QC value within limits for Ni 231.604 Recovery = 97.01%							
P 214.914†	2255.0	2300.8 ug/L	29.00	2300.8 ppb	29.00	1.26%	
QC value within limits for P 214.914 Recovery = 92.03%							
Pb 220.353†	2161.7	488.79 ug/L	6.587	488.79 ppb	6.587	1.35%	
QC value within limits for Pb 220.353 Recovery = 97.76%							
S 181.975 Axial†	378.1	971.09 ug/L	24.939	971.09 ppb	24.939	2.57%	
QC value within limits for S 181.975 Axial Recovery = 97.11%							
Sb 206.836†	826.8	505.01 ug/L	2.300	505.01 ppb	2.300	0.46%	
QC value within limits for Sb 206.836 Recovery = 101.00%							
Se 196.026†	403.3	507.39 ug/L	5.152	507.39 ppb	5.152	1.02%	
QC value within limits for Se 196.026 Recovery = 101.48%							
Si 251.611†	46433.3	2478.2 ug/L	3.86	2478.2 ppb	3.86	0.16%	
QC value within limits for Si 251.611 Recovery = 99.13%							
Sn 189.927†	1473.8	487.80 ug/L	3.354	487.80 ppb	3.354	0.69%	
QC value within limits for Sn 189.927 Recovery = 97.56%							
Sr 421.552†	39221.8	516.27 ug/L	0.999	516.27 ppb	0.999	0.19%	
QC value within limits for Sr 421.552 Recovery = 103.25%							
Ti 334.940†	210066.4	495.75 ug/L	0.871	495.75 ppb	0.871	0.18%	
QC value within limits for Ti 334.940 Recovery = 99.15%							
Tl 190.801†	877.8	486.26 ug/L	4.064	486.26 ppb	4.064	0.84%	
QC value within limits for Tl 190.801 Recovery = 97.25%							
U 409.014†	12076.3	486.49 ug/L	2.907	486.49 ppb	2.907	0.60%	
QC value within limits for U 409.014 Recovery = 97.30%							
V 292.402†	45113.5	500.05 ug/L	1.013	500.05 ppb	1.013	0.20%	
QC value within limits for V 292.402 Recovery = 100.01%							
Zn 213.857†	28887.6	492.35 ug/L	0.295	492.35 ppb	0.295	0.06%	
QC value within limits for Zn 213.857 Recovery = 98.47%							
SiO2†	45122.8	5014.0 ug/L	86.29	5014.0 ppb	86.29	1.72%	
QC value within limits for SiO2 Recovery = 93.76%							

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/12/2010 19:03:16

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	2620.8	2620.8	100.0 %		19:05:28
1	Y RADIAL	2918.4	2918.4	100.0 %		19:05:28
1	Al 396.153Radial†	-82.1	-5.8	-8.0876 ug/L	-8.0876 ppb	19:05:28
1	Ca 317.933Radial†	10.1	-1.4	-4.5693 ug/L	-4.5693 ppb	19:05:28
1	Fe 238.204 Radial†	5.7	-0.5	-12.094 ug/L	-12.094 ppb	19:05:28
1	K 766.490 Radial†	2514.5	73.3	19.923 ug/L	19.923 ppb	19:05:08
1	Mg 279.077 IEC†	2.8	2.6	205.64 ug/L	205.64 ppb	19:05:28
1	Na 589.592 Radial†	-926.1	18.0	10.957 ug/L	10.957 ppb	19:05:08
1	Sr 421.552†	20.1	3.1	0.0402 ug/L	0.0402 ppb	19:05:08
1	Sc 361.383	589691.4	589691.4	98.293 %		19:06:25
1	Y 371.029	497330.2	497330.2	98.497 %		19:06:25
1	Ag 328.068†	115.7	35.8	0.2413 ug/L	0.2413 ppb	19:06:25
1	As 188.979†	-19.9	-2.5	-1.9763 ug/L	-1.9763 ppb	19:06:45
1	B 249.677†	-97.7	239.8	9.2591 ug/L	9.2591 ppb	19:06:45
1	Ba 233.527†	16.1	5.2	0.0676 ug/L	0.0676 ppb	19:06:45
1	Be 313.107†	-3125.4	87.0	0.0515 ug/L	0.0515 ppb	19:06:25
1	Cd 226.502†	-153.9	5.0	0.1090 ug/L	0.1090 ppb	19:06:45
1	Co 228.616†	-39.7	-11.4	-0.4309 ug/L	-0.4309 ppb	19:06:45
1	Cr 267.716†	85.3	8.9	0.1665 ug/L	0.1665 ppb	19:06:45
1	Cu 324.752†	5089.3	11.9	0.0515 ug/L	0.0515 ppb	19:06:25
1	Mn 257.610†	373.3	31.4	0.0476 ug/L	0.0476 ppb	19:06:45
1	Mo 202.031†	8.4	-2.8	-0.3670 ug/L	-0.3670 ppb	19:06:45
1	Ni 231.604†	90.2	14.1	0.6418 ug/L	0.6418 ppb	19:06:45
1	P 214.914†	157.1	-2.2	-2.3467 ug/L	-2.3467 ppb	19:06:45
1	Pb 220.353†	-34.2	9.4	2.1179 ug/L	2.1179 ppb	19:06:45
1	S 181.975 Axial†	25.6	3.4	8.7232 ug/L	8.7232 ppb	19:06:45
1	Sb 206.836†	21.2	-3.9	-2.2743 ug/L	-2.2743 ppb	19:06:45
1	Se 196.026†	-18.5	-4.2	-5.0737 ug/L	-5.0737 ppb	19:06:45
1	Si 251.611†	447.5	96.6	5.1721 ug/L	5.1721 ppb	19:06:45
1	Sn 189.927†	13.1	6.4	2.1262 ug/L	2.1262 ppb	19:06:45
1	Ti 334.940†	-891.8	139.9	0.3127 ug/L	0.3127 ppb	19:06:25
1	Tl 190.801†	-23.7	3.0	1.6426 ug/L	1.6426 ppb	19:06:45
1	U 409.014†	-1249.9	6.3	0.2573 ug/L	0.2573 ppb	19:06:25
1	V 292.402†	-1273.0	-47.5	-0.5192 ug/L	-0.5192 ppb	19:06:25
1	Zn 213.857†	537.2	39.4	0.6749 ug/L	0.6749 ppb	19:06:45
1	SiO2†	458.8	114.3	12.748 ug/L	12.748 ppb	19:07:56
2	Sc Radial	2685.9	2685.9	102 %		19:05:53
2	Y RADIAL	2994.5	2994.5	102.6 %		19:05:53
2	Al 396.153Radial†	-71.2	6.8	9.5293 ug/L	9.5293 ppb	19:05:53
2	Ca 317.933Radial†	11.3	-0.4	-1.4571 ug/L	-1.4571 ppb	19:05:53
2	Fe 238.204 Radial†	7.8	1.5	37.597 ug/L	37.597 ppb	19:05:53
2	K 766.490 Radial†	2546.1	43.2	11.750 ug/L	11.750 ppb	19:05:33
2	Mg 279.077 IEC†	1.0	0.8	64.122 ug/L	64.122 ppb	19:05:53
2	Na 589.592 Radial†	-966.0	1.5	0.9262 ug/L	0.9262 ppb	19:05:33
2	Sr 421.552†	33.4	15.6	0.2055 ug/L	0.2055 ppb	19:05:33
2	Sc 361.383	610509.2	610509.2	101.76 %		19:06:50
2	Y 371.029	515746.2	515746.2	102.14 %		19:06:50
2	Ag 328.068†	136.5	52.3	0.3682 ug/L	0.3682 ppb	19:06:50
2	As 188.979†	-21.1	-3.1	-2.4193 ug/L	-2.4193 ppb	19:07:10
2	B 249.677†	-91.7	249.1	9.6072 ug/L	9.6072 ppb	19:07:10
2	Ba 233.527†	30.8	19.1	0.2532 ug/L	0.2532 ppb	19:07:10
2	Be 313.107†	-3178.9	142.8	0.0838 ug/L	0.0838 ppb	19:06:50
2	Cd 226.502†	-160.0	4.4	0.0894 ug/L	0.0894 ppb	19:07:10
2	Co 228.616†	-27.1	2.4	0.0899 ug/L	0.0899 ppb	19:07:10
2	Cr 267.716†	84.8	5.4	0.1094 ug/L	0.1094 ppb	19:07:10
2	Cu 324.752†	5211.3	-44.8	-0.1946 ug/L	-0.1946 ppb	19:06:50
2	Mn 257.610†	374.6	19.7	0.0380 ug/L	0.0380 ppb	19:07:10
2	Mo 202.031†	7.6	-3.8	-0.4988 ug/L	-0.4988 ppb	19:07:10
2	Ni 231.604†	83.3	4.1	0.1882 ug/L	0.1882 ppb	19:07:10

2	P 214.914†	164.8	-0.2	-0.1629 ug/L	-0.1629 ppb	19:07:10
2	Pb 220.353†	-33.8	10.9	2.4554 ug/L	2.4554 ppb	19:07:10
2	S 181.975 Axial†	18.4	-4.6	-11.746 ug/L	-11.746 ppb	19:07:10
2	Sb 206.836†	18.7	-7.1	-4.1779 ug/L	-4.1779 ppb	19:07:10
2	Se 196.026†	-13.9	1.0	1.3284 ug/L	1.3284 ppb	19:07:10
2	Si 251.611†	456.1	89.5	4.7938 ug/L	4.7938 ppb	19:07:10
2	Sn 189.927†	7.8	0.8	0.2523 ug/L	0.2523 ppb	19:07:10
2	Ti 334.940†	-973.2	90.8	0.2088 ug/L	0.2088 ppb	19:06:50
2	Tl 190.801†	-27.7	-0.2	-0.0966 ug/L	-0.0966 ppb	19:07:10
2	U 409.014†	-1290.2	10.1	0.3993 ug/L	0.3993 ppb	19:06:50
2	V 292.402†	-1322.9	-52.4	-0.5840 ug/L	-0.5840 ppb	19:06:50
2	Zn 213.857†	527.9	11.6	0.1927 ug/L	0.1927 ppb	19:07:10
2	SiO2†	463.5	103.1	11.496 ug/L	11.496 ppb	19:08:16
3	Sc Radial	2625.1	2625.1	100 %		19:06:18
3	Y RADIAL	2943.7	2943.7	100.9 %		19:06:18
3	Al 396.153Radial†	-76.2	0.3	0.3555 ug/L	0.3555 ppb	19:06:18
3	Ca 317.933Radial†	9.6	-1.9	-6.1962 ug/L	-6.1962 ppb	19:06:18
3	Fe 238.204 Radial†	7.7	1.6	40.634 ug/L	40.634 ppb	19:06:18
3	K 766.490 Radial†	2532.5	87.1	23.709 ug/L	23.709 ppb	19:05:58
3	Mg 279.077 IEC†	2.3	2.2	171.22 ug/L	171.22 ppb	19:06:18
3	Na 589.592 Radial†	-963.2	-17.5	-10.632 ug/L	-10.632 ppb	19:05:58
3	Sr 421.552†	28.1	11.1	0.1457 ug/L	0.1457 ppb	19:05:58
3	Sc 361.383	592723.0	592723.0	98.798 %		19:07:15
3	Y 371.029	500313.7	500313.7	99.088 %		19:07:15
3	Ag 328.068†	82.6	1.8	0.0223 ug/L	0.0223 ppb	19:07:15
3	As 188.979†	-24.8	-7.5	-5.8467 ug/L	-5.8467 ppb	19:07:35
3	B 249.677†	-119.4	218.3	8.4194 ug/L	8.4194 ppb	19:07:35
3	Ba 233.527†	3.8	-7.3	-0.0948 ug/L	-0.0948 ppb	19:07:35
3	Be 313.107†	-3085.4	143.8	0.0842 ug/L	0.0842 ppb	19:07:15
3	Cd 226.502†	-159.8	-0.1	-0.0052 ug/L	-0.0052 ppb	19:07:35
3	Co 228.616†	-29.4	-0.8	-0.0281 ug/L	-0.0281 ppb	19:07:35
3	Cr 267.716†	92.3	15.5	0.3022 ug/L	0.3022 ppb	19:07:35
3	Cu 324.752†	5165.6	62.7	0.2770 ug/L	0.2770 ppb	19:07:15
3	Mn 257.610†	363.4	19.5	0.0335 ug/L	0.0335 ppb	19:07:35
3	Mo 202.031†	16.7	5.5	0.7229 ug/L	0.7229 ppb	19:07:35
3	Ni 231.604†	78.4	1.6	0.0749 ug/L	0.0749 ppb	19:07:35
3	P 214.914†	154.0	-6.2	-6.7015 ug/L	-6.7015 ppb	19:07:35
3	Pb 220.353†	-26.4	17.4	3.9157 ug/L	3.9157 ppb	19:07:35
3	S 181.975 Axial†	25.5	3.1	8.0742 ug/L	8.0742 ppb	19:07:35
3	Sb 206.836†	25.1	-0.0	0.0268 ug/L	0.0268 ppb	19:07:35
3	Se 196.026†	-14.5	-0.0	0.1571 ug/L	0.1571 ppb	19:07:35
3	Si 251.611†	443.6	90.3	4.8238 ug/L	4.8238 ppb	19:07:35
3	Sn 189.927†	9.7	3.0	0.9747 ug/L	0.9747 ppb	19:07:35
3	Ti 334.940†	-973.0	62.3	0.1310 ug/L	0.1310 ppb	19:07:15
3	Tl 190.801†	-24.8	2.0	1.0954 ug/L	1.0954 ppb	19:07:35
3	U 409.014†	-1193.6	69.8	2.8155 ug/L	2.8155 ppb	19:07:15
3	V 292.402†	-1217.7	15.1	0.1784 ug/L	0.1784 ppb	19:07:15
3	Zn 213.857†	537.7	37.1	0.6300 ug/L	0.6300 ppb	19:07:35
3	SiO2†	465.6	118.9	13.223 ug/L	13.223 ppb	19:08:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	597641.2	99.618 %		1.8746			1.88%
Sc Radial	2644.0	101 %		1.4			1.38%
Y 371.029	504463.4	99.910 %		1.9576			1.96%
Y RADIAL	2952.2	101.2 %		1.33			1.31%
Ag 328.068†	30.0	0.2106 ug/L		0.17500	0.2106 ppb	0.17500	83.10%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.4	0.5991 ug/L		8.81095	0.5991 ppb	8.81095	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-4.4	-3.4141 ug/L		2.11830	-3.4141 ppb	2.11830	62.05%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	235.7	9.0952 ug/L		0.61065	9.0952 ppb	0.61065	6.71%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	5.7	0.0753 ug/L		0.17415	0.0753 ppb	0.17415	231.24%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	124.5	0.0732 ug/L		0.01877	0.0732 ppb	0.01877	25.66%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.2	-4.0742 ug/L		2.40804	-4.0742 ppb	2.40804	59.10%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	3.1	0.0644 ug/L	0.06105	0.0644 ppb	0.06105	94.76%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-3.2	-0.1231 ug/L	0.27308	-0.1231 ppb	0.27308	221.89%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	9.9	0.1927 ug/L	0.09901	0.1927 ppb	0.09901	51.38%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	9.9	0.0446 ug/L	0.23589	0.0446 ppb	0.23589	528.79%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	0.9	22.046 ug/L	29.6049	22.046 ppb	29.6049	134.29%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	67.9	18.460 ug/L	6.1122	18.460 ppb	6.1122	33.11%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1.9	146.99 ug/L	73.805	146.99 ppb	73.805	50.21%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	23.5	0.0397 ug/L	0.00716	0.0397 ppb	0.00716	18.05%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	-0.4	-0.0476 ug/L	0.67056	-0.0476 ppb	0.67056	>999.9%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	0.7	0.4170 ug/L	10.80313	0.4170 ppb	10.80313	>999.9%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	6.6	0.3016 ug/L	0.29999	0.3016 ppb	0.29999	99.46%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-2.8	-3.0704 ug/L	3.32881	-3.0704 ppb	3.32881	108.42%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	12.6	2.8297 ug/L	0.95556	2.8297 ppb	0.95556	33.77%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	0.7	1.6838 ug/L	11.63518	1.6838 ppb	11.63518	691.02%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	-3.7	-2.1418 ug/L	2.10551	-2.1418 ppb	2.10551	98.31%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-1.1	-1.1960 ug/L	3.40882	-1.1960 ppb	3.40882	285.01%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	92.1	4.9299 ug/L	0.21028	4.9299 ppb	0.21028	4.27%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	3.4	1.1178 ug/L	0.94510	1.1178 ppb	0.94510	84.55%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	9.9	0.1304 ug/L	0.08367	0.1304 ppb	0.08367	64.14%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	97.7	0.2175 ug/L	0.09115	0.2175 ppb	0.09115	41.90%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	1.6	0.8805 ug/L	0.88926	0.8805 ppb	0.88926	101.00%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	28.7	1.1574 ug/L	1.43774	1.1574 ppb	1.43774	124.23%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	-28.3	-0.3082 ug/L	0.42270	-0.3082 ppb	0.42270	137.13%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	29.3	0.4992 ug/L	0.26635	0.4992 ppb	0.26635	53.36%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	112.1	12.489 ug/L	0.8920	12.489 ppb	0.8920	7.14%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 3

Sample ID: 1202091941|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 4/12/2010 19:10:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202091941|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2690.4	2690.4	103 %			19:12:59
1	Y RADIAL	2990.6	2990.6	102.5 %			19:12:59
1	Al 396.153Radial†	-77.4	0.9	1.2709 ug/L		1.2709 ppb	19:12:59
1	Ca 317.933Radial†	19.2	7.2	23.989 ug/L		23.989 ppb	19:12:59
1	Fe 238.204 Radial†	6.0	-0.3	-7.0213 ug/L		-7.0213 ppb	19:12:59
1	K 766.490 Radial†	2436.6	-67.7	-18.444 ug/L		-18.444 ppb	19:12:39
1	Mg 279.077 IEC†	3.3	3.1	240.99 ug/L		240.99 ppb	19:12:59
1	Na 589.592 Radial†	-874.8	92.0	55.945 ug/L		55.945 ppb	19:12:39
1	Sr 421.552†	3.4	-13.7	-0.1803 ug/L		-0.1803 ppb	19:12:39
1	Sc 361.383	593680.8	593680.8	98.958 %			19:13:56
1	Y 371.029	500646.5	500646.5	99.154 %			19:13:56
1	Ag 328.068†	99.7	18.9	0.1269 ug/L		0.1269 ppb	19:13:56
1	As 188.979†	-11.4	6.2	4.8299 ug/L		4.8299 ppb	19:14:16
1	B 249.677†	-187.7	149.5	5.7720 ug/L		5.7720 ppb	19:14:16
1	Ba 233.527†	13.4	2.4	0.0328 ug/L		0.0328 ppb	19:14:16
1	Be 313.107†	-3059.9	174.6	0.1023 ug/L		0.1023 ppb	19:13:56
1	Cd 226.502†	-152.8	7.3	0.1567 ug/L		0.1567 ppb	19:14:16
1	Co 228.616†	-43.2	-14.7	-0.5531 ug/L		-0.5531 ppb	19:14:16
1	Cr 267.716†	121.6	45.0	0.8588 ug/L		0.8588 ppb	19:14:16
1	Cu 324.752†	5132.4	20.7	0.0890 ug/L		0.0890 ppb	19:13:56
1	Mn 257.610†	747.8	407.3	0.7351 ug/L		0.7351 ppb	19:14:16
1	Mo 202.031†	11.5	0.3	0.0359 ug/L		0.0359 ppb	19:14:16
1	Ni 231.604†	88.3	11.5	0.5244 ug/L		0.5244 ppb	19:14:16
1	P 214.914†	156.3	-4.2	-4.4443 ug/L		-4.4443 ppb	19:14:16
1	Pb 220.353†	-41.8	1.9	0.4248 ug/L		0.4248 ppb	19:14:16
1	S 181.975 Axial†	20.4	-2.1	-5.3166 ug/L		-5.3166 ppb	19:14:16
1	Sb 206.836†	25.5	0.4	0.2487 ug/L		0.2487 ppb	19:14:16
1	Se 196.026†	-20.2	-5.7	-6.9058 ug/L		-6.9058 ppb	19:14:16
1	Si 251.611†	956.9	608.3	32.544 ug/L		32.544 ppb	19:14:16
1	Sn 189.927†	13.8	7.1	2.3336 ug/L		2.3336 ppb	19:14:16
1	Ti 334.940†	-944.7	92.5	0.2001 ug/L		0.2001 ppb	19:13:56
1	Tl 190.801†	-17.0	9.9	5.4538 ug/L		5.4538 ppb	19:14:16
1	U 409.014†	-1199.8	65.4	2.6471 ug/L		2.6471 ppb	19:13:56
1	V 292.402†	-1205.4	29.4	0.3325 ug/L		0.3325 ppb	19:13:56
1	Zn 213.857†	648.2	147.9	2.5421 ug/L		2.5421 ppb	19:14:16
1	SiO2†	964.3	622.0	69.303 ug/L		69.303 ppb	19:15:27
2	Sc Radial	2665.7	2665.7	102 %			19:13:24
2	Y RADIAL	2970.7	2970.7	101.8 %			19:13:24
2	Al 396.153Radial†	-75.6	2.0	2.8482 ug/L		2.8482 ppb	19:13:24
2	Ca 317.933Radial†	18.3	6.5	21.583 ug/L		21.583 ppb	19:13:24
2	Fe 238.204 Radial†	7.2	1.0	24.930 ug/L		24.930 ppb	19:13:24
2	K 766.490 Radial†	2522.0	38.3	10.408 ug/L		10.408 ppb	19:13:04
2	Mg 279.077 IEC†	0.3	0.1	11.575 ug/L		11.575 ppb	19:13:24
2	Na 589.592 Radial†	-897.2	62.1	37.749 ug/L		37.749 ppb	19:13:04
2	Sr 421.552†	21.5	4.1	0.0542 ug/L		0.0542 ppb	19:13:04
2	Sc 361.383	589960.1	589960.1	98.337 %			19:14:21
2	Y 371.029	497236.6	497236.6	98.479 %			19:14:21
2	Ag 328.068†	-4.1	-86.0	-0.5875 ug/L		-0.5875 ppb	19:14:21
2	As 188.979†	-15.4	2.0	1.5724 ug/L		1.5724 ppb	19:14:41
2	B 249.677†	-140.5	196.3	7.5739 ug/L		7.5739 ppb	19:14:41
2	Ba 233.527†	6.6	-4.4	-0.0565 ug/L		-0.0565 ppb	19:14:41
2	Be 313.107†	-3090.7	123.7	0.0730 ug/L		0.0730 ppb	19:14:21
2	Cd 226.502†	-154.1	5.0	0.1032 ug/L		0.1032 ppb	19:14:41
2	Co 228.616†	-38.3	-10.0	-0.3813 ug/L		-0.3813 ppb	19:14:41
2	Cr 267.716†	127.2	51.4	0.9878 ug/L		0.9878 ppb	19:14:41
2	Cu 324.752†	5129.4	50.3	0.2228 ug/L		0.2228 ppb	19:14:21
2	Mn 257.610†	760.4	424.8	0.7804 ug/L		0.7804 ppb	19:14:41
2	Mo 202.031†	-1.9	-13.3	-1.7309 ug/L		-1.7309 ppb	19:14:41
2	Ni 231.604†	78.2	1.8	0.0803 ug/L		0.0803 ppb	19:14:41

2	P 214.914†	149.1	-10.5	-11.313 ug/L	-11.313 ppb	19:14:41
2	Pb 220.353†	-38.0	5.5	1.2279 ug/L	1.2279 ppb	19:14:41
2	S 181.975 Axial†	23.1	0.8	2.1217 ug/L	2.1217 ppb	19:14:41
2	Sb 206.836†	23.3	-1.8	-1.0407 ug/L	-1.0407 ppb	19:14:41
2	Se 196.026†	-12.7	1.7	2.1457 ug/L	2.1457 ppb	19:14:41
2	Si 251.611†	953.6	611.0	32.713 ug/L	32.713 ppb	19:14:41
2	Sn 189.927†	12.1	5.4	1.8014 ug/L	1.8014 ppb	19:14:41
2	Ti 334.940†	-874.4	157.9	0.3729 ug/L	0.3729 ppb	19:14:21
2	Tl 190.801†	-26.8	-0.2	-0.1166 ug/L	-0.1166 ppb	19:14:41
2	U 409.014†	-1191.3	66.5	2.6827 ug/L	2.6827 ppb	19:14:21
2	V 292.402†	-1209.4	17.7	0.1698 ug/L	0.1698 ppb	19:14:21
2	Zn 213.857†	646.4	150.2	2.5792 ug/L	2.5792 ppb	19:14:41
2	SiO2†	973.5	637.6	71.081 ug/L	71.081 ppb	19:15:47
3	Sc Radial	2672.2	2672.2	102 %		19:13:49
3	Y RADIAL	2981.7	2981.7	102.2 %		19:13:49
3	Al 396.153Radial†	-71.3	6.4	8.9579 ug/L	8.9579 ppb	19:13:49
3	Ca 317.933Radial†	19.0	7.2	23.818 ug/L	23.818 ppb	19:13:49
3	Fe 238.204 Radial†	8.7	2.4	60.820 ug/L	60.820 ppb	19:13:49
3	K 766.490 Radial†	2532.4	42.5	11.547 ug/L	11.547 ppb	19:13:29
3	Mg 279.077 IEC†	2.4	2.2	176.44 ug/L	176.44 ppb	19:13:49
3	Na 589.592 Radial†	-931.4	30.6	18.637 ug/L	18.637 ppb	19:13:29
3	Sr 421.552†	14.1	-3.2	-0.0427 ug/L	-0.0427 ppb	19:13:29
3	Sc 361.383	601164.2	601164.2	100.20 %		19:14:47
3	Y 371.029	505822.8	505822.8	100.18 %		19:14:47
3	Ag 328.068†	80.5	-1.5	0.0065 ug/L	0.0065 ppb	19:14:47
3	As 188.979†	-19.9	-2.2	-1.7081 ug/L	-1.7081 ppb	19:15:07
3	B 249.677†	-157.0	182.5	7.0343 ug/L	7.0343 ppb	19:15:07
3	Ba 233.527†	14.5	3.3	0.0467 ug/L	0.0467 ppb	19:15:07
3	Be 313.107†	-3128.2	144.9	0.0852 ug/L	0.0852 ppb	19:14:47
3	Cd 226.502†	-151.4	10.5	0.2175 ug/L	0.2175 ppb	19:15:07
3	Co 228.616†	-34.9	-5.8	-0.2198 ug/L	-0.2198 ppb	19:15:07
3	Cr 267.716†	124.1	45.9	0.8890 ug/L	0.8890 ppb	19:15:07
3	Cu 324.752†	5173.8	-2.6	-0.0078 ug/L	-0.0078 ppb	19:14:47
3	Mn 257.610†	779.0	429.0	0.7856 ug/L	0.7856 ppb	19:15:07
3	Mo 202.031†	10.9	-0.5	-0.0543 ug/L	-0.0543 ppb	19:15:07
3	Ni 231.604†	78.7	0.9	0.0389 ug/L	0.0389 ppb	19:15:07
3	P 214.914†	161.0	-1.4	-1.5049 ug/L	-1.5049 ppb	19:15:07
3	Pb 220.353†	-38.3	5.9	1.3353 ug/L	1.3353 ppb	19:15:07
3	S 181.975 Axial†	24.0	1.2	3.1708 ug/L	3.1708 ppb	19:15:07
3	Sb 206.836†	12.3	-13.2	-7.7627 ug/L	-7.7627 ppb	19:15:07
3	Se 196.026†	-16.9	-2.2	-2.4264 ug/L	-2.4264 ppb	19:15:07
3	Si 251.611†	957.8	597.1	31.949 ug/L	31.949 ppb	19:15:07
3	Sn 189.927†	9.6	2.7	0.9100 ug/L	0.9100 ppb	19:15:07
3	Ti 334.940†	-917.5	131.5	0.2980 ug/L	0.2980 ppb	19:14:47
3	Tl 190.801†	-30.6	-3.4	-1.8847 ug/L	-1.8847 ppb	19:15:07
3	U 409.014†	-1244.1	36.4	1.4580 ug/L	1.4580 ppb	19:14:47
3	V 292.402†	-1220.2	29.8	0.3229 ug/L	0.3229 ppb	19:14:47
3	Zn 213.857†	647.5	139.0	2.3819 ug/L	2.3819 ppb	19:15:07
3	SiO2†	965.4	611.0	68.079 ug/L	68.079 ppb	19:16:07

Mean Data: 1202091941|973758|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	594935.1	99.167 %		0.9512			0.96%
Sc Radial	2676.1	102 %		0.5			0.48%
Y 371.029	501235.3	99.271 %		0.8562			0.86%
Y RADIAL	2981.0	102.2 %		0.34			0.33%
Ag 328.068†	-22.9	-0.1514 ug/L		0.38250	-0.1514 ppb	0.38250	252.71%
Al 396.153Radial†	3.1	4.3590 ug/L		4.06009	4.3590 ppb	4.06009	93.14%
As 188.979†	2.0	1.5647 ug/L		3.26901	1.5647 ppb	3.26901	208.92%
B 249.677†	176.1	6.7934 ug/L		0.92476	6.7934 ppb	0.92476	13.61%
Ba 233.527†	0.4	0.0076 ug/L		0.05602	0.0076 ppb	0.05602	733.64%
Be 313.107†	147.7	0.0868 ug/L		0.01473	0.0868 ppb	0.01473	16.96%
Ca 317.933Radial†	7.0	23.130 ug/L		1.3428	23.130 ppb	1.3428	5.81%
Cd 226.502†	7.6	0.1591 ug/L		0.05717	0.1591 ppb	0.05717	35.93%
Co 228.616†	-10.1	-0.3848 ug/L		0.16667	-0.3848 ppb	0.16667	43.32%
Cr 267.716†	47.5	0.9119 ug/L		0.06747	0.9119 ppb	0.06747	7.40%
Cu 324.752†	22.8	0.1013 ug/L		0.11580	0.1013 ppb	0.11580	114.29%
Fe 238.204 Radial†	1.0	26.243 ug/L		33.9398	26.243 ppb	33.9398	129.33%
K 766.490 Radial†	4.4	1.1703 ug/L		16.99589	1.1703 ppb	16.99589	>999.9%

Mg 279.077 IEC†	1.8	143.00 ug/L	118.306	143.00 ppb	118.306	82.73%
Mn 257.610†	420.4	0.7670 ug/L	0.02777	0.7670 ppb	0.02777	3.62%
Mo 202.031†	-4.5	-0.5831 ug/L	0.99506	-0.5831 ppb	0.99506	170.65%
Na 589.592 Radial†	61.6	37.443 ug/L	18.6561	37.443 ppb	18.6561	49.82%
Ni 231.604†	4.7	0.2145 ug/L	0.26917	0.2145 ppb	0.26917	125.47%
P 214.914†	-5.3	-5.7541 ug/L	5.03363	-5.7541 ppb	5.03363	87.48%
Pb 220.353†	4.4	0.9960 ug/L	0.49761	0.9960 ppb	0.49761	49.96%
S 181.975 Axial†	-0.0	-0.0080 ug/L	4.62719	-0.0080 ppb	4.62719	>999.9%
Sb 206.836†	-4.9	-2.8515 ug/L	4.30175	-2.8515 ppb	4.30175	150.86%
Se 196.026†	-2.1	-2.3955 ug/L	4.52585	-2.3955 ppb	4.52585	188.93%
Si 251.611†	605.5	32.402 ug/L	0.4012	32.402 ppb	0.4012	1.24%
Sn 189.927†	5.1	1.6816 ug/L	0.71933	1.6816 ppb	0.71933	42.78%
Sr 421.552†	-4.3	-0.0563 ug/L	0.11782	-0.0563 ppb	0.11782	209.41%
Ti 334.940†	127.3	0.2903 ug/L	0.08669	0.2903 ppb	0.08669	29.86%
Tl 190.801†	2.1	1.1508 ug/L	3.82990	1.1508 ppb	3.82990	332.79%
U 409.014†	56.1	2.2626 ug/L	0.69701	2.2626 ppb	0.69701	30.81%
V 292.402†	25.7	0.2751 ug/L	0.09129	0.2751 ppb	0.09129	33.19%
Zn 213.857†	145.7	2.5011 ug/L	0.10487	2.5011 ppb	0.10487	4.19%
SiO2†	623.5	69.488 ug/L	1.5096	69.488 ppb	1.5096	2.17%

Sequence No.: 4

Sample ID: 1202091942|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 39

Date Collected: 4/12/2010 19:18:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202091942|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2895.8	2895.8	110 %		19:20:31
1	Y RADIAL	3494.0	3494.0	119.7 %		19:20:31
1	Al 396.153Radial†	68355.0	61965.0	86685 ug/L	86685 ppb	19:20:11
1	Ca 317.933Radial†	32852.9	29733.6	98686 ug/L	98686 ppb	19:20:11
1	Fe 238.204 Radial†	8220.7	7436.9	189940 ug/L	189940 ppb	19:20:11
1	K 766.490 Radial†	171197.5	152560.0	41462 ug/L	41462 ppb	19:20:11
1	Mg 279.077 IEC†	536.3	485.4	37989 ug/L	37989 ppb	19:20:31
1	Na 589.592 Radial†	17971.2	17215.6	10468 ug/L	10468 ppb	19:20:11
1	Sr 421.552†	200105.0	181158.1	2384.0 ug/L	2384.0 ppb	19:20:11
1	Sc 361.383	637608.6	637608.6	106.28 %		19:21:30
1	Y 371.029	574877.1	574877.1	113.86 %		19:21:30
1	Ag 328.068†	39823.1	37388.2	315.30 ug/L	315.30 ppb	19:21:30
1	As 188.979†	1329.7	1268.8	1081.6 ug/L	1081.6 ppb	19:21:50
1	B 249.677†	40386.3	38339.1	1446.5 ug/L	1446.5 ppb	19:21:30
1	Ba 233.527†	153365.9	144292.9	1919.0 ug/L	1919.0 ppb	19:21:30
1	Be 313.107†	1449045.2	1366692.7	810.95 ug/L	810.95 ppb	19:21:30
1	Cd 226.502†	29591.3	28004.5	574.47 ug/L	574.47 ppb	19:21:50
1	Co 228.616†	25193.1	23733.6	880.25 ug/L	880.25 ppb	19:21:50
1	Cr 267.716†	129565.8	121832.3	2365.3 ug/L	2365.3 ppb	19:21:30
1	Cu 324.752†	457043.4	424872.4	1885.2 ug/L	1885.2 ppb	19:21:30
1	Mn 257.610†	3008400.4	2830295.9	5203.1 ug/L	5203.1 ppb	19:21:30
1	Mo 202.031†	4079.5	3827.1	515.68 ug/L	515.68 ppb	19:21:50
1	Ni 231.604†	29264.9	27458.0	1251.1 ug/L	1251.1 ppb	19:21:50
1	P 214.914†	7710.8	7093.1	7010.3 ug/L	7010.3 ppb	19:21:50
1	Pb 220.353†	3878.8	3693.7	829.06 ug/L	829.06 ppb	19:21:50
1	S 181.975 Axial†	1479.4	1369.3	3500.5 ug/L	3500.5 ppb	19:21:50
1	Sb 206.836†	2959.1	2758.8	1637.8 ug/L	1637.8 ppb	19:21:50
1	Se 196.026†	2051.3	1944.7	3087.7 ug/L	3087.7 ppb	19:21:50
1	Si 251.611†	193570.8	181774.6	9719.2 ug/L	9719.2 ppb	19:21:30
1	Sn 189.927†	3175.9	2981.4	1010.5 ug/L	1010.5 ppb	19:21:50
1	Ti 334.940†	2726693.9	2566630.0	6067.7 ug/L	6067.7 ppb	19:21:30
1	Tl 190.801†	1971.4	1882.0	1100.6 ug/L	1100.6 ppb	19:21:50
1	U 409.014†	-5867.5	-4243.0	-213.58 ug/L	-213.58 ppb	19:21:30
1	V 292.402†	119706.1	113880.6	1220.7 ug/L	1220.7 ppb	19:21:30
1	Zn 213.857†	365459.9	343359.0	5865.3 ug/L	5865.3 ppb	19:21:30
1	SiO2†	192784.5	181041.1	20157 ug/L	20157 ppb	19:22:50
2	Sc Radial	2890.3	2890.3	110 %		19:20:56
2	Y RADIAL	3501.3	3501.3	120.0 %		19:20:56
2	Al 396.153Radial†	67950.3	61715.4	86336 ug/L	86336 ppb	19:20:36
2	Ca 317.933Radial†	32603.3	29563.6	98122 ug/L	98122 ppb	19:20:36
2	Fe 238.204 Radial†	8161.5	7397.3	188930 ug/L	188930 ppb	19:20:36
2	K 766.490 Radial†	170135.1	151890.6	41280 ug/L	41280 ppb	19:20:36
2	Mg 279.077 IEC†	537.4	487.3	38138 ug/L	38138 ppb	19:20:56
2	Na 589.592 Radial†	17728.0	17025.9	10353 ug/L	10353 ppb	19:20:36
2	Sr 421.552†	198636.1	180169.6	2371.0 ug/L	2371.0 ppb	19:20:36
2	Sc 361.383	630134.4	630134.4	105.03 %		19:21:57
2	Y 371.029	567816.6	567816.6	112.46 %		19:21:57
2	Ag 328.068†	39354.2	37386.2	315.00 ug/L	315.00 ppb	19:21:57
2	As 188.979†	1341.2	1294.6	1101.7 ug/L	1101.7 ppb	19:22:17
2	B 249.677†	39796.1	38228.0	1442.3 ug/L	1442.3 ppb	19:21:57
2	Ba 233.527†	151737.6	144454.3	1921.1 ug/L	1921.1 ppb	19:21:57
2	Be 313.107†	1429932.6	1364668.3	809.78 ug/L	809.78 ppb	19:21:57
2	Cd 226.502†	29654.1	28394.6	582.87 ug/L	582.87 ppb	19:22:17
2	Co 228.616†	25280.1	24097.5	893.99 ug/L	893.99 ppb	19:22:17
2	Cr 267.716†	128132.3	121913.5	2366.7 ug/L	2366.7 ppb	19:21:57
2	Cu 324.752†	450659.3	423895.2	1880.8 ug/L	1880.8 ppb	19:21:57
2	Mn 257.610†	2973206.2	2830363.8	5203.0 ug/L	5203.0 ppb	19:21:57
2	Mo 202.031†	4079.3	3872.4	521.52 ug/L	521.52 ppb	19:22:17
2	Ni 231.604†	29375.0	27889.4	1270.8 ug/L	1270.8 ppb	19:22:17

2	P 214.914†	7724.4	7192.1	7118.5 ug/L	7118.5 ppb	19:22:17
2	Pb 220.353†	3909.1	3765.9	845.39 ug/L	845.39 ppb	19:22:17
2	S 181.975 Axial†	1503.4	1408.6	3601.7 ug/L	3601.7 ppb	19:22:17
2	Sb 206.836†	2974.0	2806.0	1666.0 ug/L	1666.0 ppb	19:22:17
2	Se 196.026†	2052.0	1968.3	3112.2 ug/L	3112.2 ppb	19:22:17
2	Si 251.611†	190797.1	181294.3	9693.4 ug/L	9693.4 ppb	19:21:57
2	Sn 189.927†	3189.3	3029.6	1026.2 ug/L	1026.2 ppb	19:22:17
2	Ti 334.940†	2696058.2	2567893.9	6070.6 ug/L	6070.6 ppb	19:21:57
2	Tl 190.801†	1961.2	1894.2	1107.3 ug/L	1107.3 ppb	19:22:17
2	U 409.014†	-5846.5	-4288.4	-215.23 ug/L	-215.23 ppb	19:21:57
2	V 292.402†	118116.4	113703.1	1218.9 ug/L	1218.9 ppb	19:21:57
2	Zn 213.857†	360328.3	342552.1	5851.5 ug/L	5851.5 ppb	19:21:57
2	SiO2†	193043.9	183439.7	20424 ug/L	20424 ppb	19:22:55
3	Sc Radial	2900.4	2900.4	111 %		19:21:21
3	Y RADIAL	3525.9	3525.9	120.8 %		19:21:21
3	Al 396.153Radial†	69475.8	62880.5	87967 ug/L	87967 ppb	19:21:01
3	Ca 317.933Radial†	33309.3	30099.2	99900 ug/L	99900 ppb	19:21:01
3	Fe 238.204 Radial†	8331.0	7524.8	192180 ug/L	192180 ppb	19:21:01
3	K 766.490 Radial†	173686.3	154565.4	42007 ug/L	42007 ppb	19:21:01
3	Mg 279.077 IEC†	538.4	486.6	38078 ug/L	38078 ppb	19:21:21
3	Na 589.592 Radial†	18057.0	17267.6	10500 ug/L	10500 ppb	19:21:01
3	Sr 421.552†	202790.0	183299.6	2412.2 ug/L	2412.2 ppb	19:21:01
3	Sc 361.383	640396.9	640396.9	106.74 %		19:22:24
3	Y 371.029	577140.5	577140.5	114.30 %		19:22:24
3	Ag 328.068†	39946.1	37340.3	315.57 ug/L	315.57 ppb	19:22:24
3	As 188.979†	1335.4	1268.7	1081.9 ug/L	1081.9 ppb	19:22:44
3	B 249.677†	40496.3	38276.8	1443.7 ug/L	1443.7 ppb	19:22:24
3	Ba 233.527†	153860.6	144128.1	1916.9 ug/L	1916.9 ppb	19:22:24
3	Be 313.107†	1454569.9	1365932.2	810.49 ug/L	810.49 ppb	19:22:24
3	Cd 226.502†	29396.1	27700.4	567.75 ug/L	567.75 ppb	19:22:44
3	Co 228.616†	25002.8	23452.1	869.61 ug/L	869.61 ppb	19:22:44
3	Cr 267.716†	130011.9	121719.5	2363.5 ug/L	2363.5 ppb	19:22:24
3	Cu 324.752†	458169.4	424054.9	1881.8 ug/L	1881.8 ppb	19:22:24
3	Mn 257.610†	3015908.9	2825005.6	5193.6 ug/L	5193.6 ppb	19:22:24
3	Mo 202.031†	4068.3	3799.9	512.30 ug/L	512.30 ppb	19:22:44
3	Ni 231.604†	29096.6	27180.5	1238.4 ug/L	1238.4 ppb	19:22:44
3	P 214.914†	7657.4	7011.5	6921.8 ug/L	6921.8 ppb	19:22:44
3	Pb 220.353†	3847.0	3648.1	818.78 ug/L	818.78 ppb	19:22:44
3	S 181.975 Axial†	1463.5	1348.3	3446.2 ug/L	3446.2 ppb	19:22:44
3	Sb 206.836†	2974.2	2760.8	1638.8 ug/L	1638.8 ppb	19:22:44
3	Se 196.026†	2027.9	1914.4	3060.1 ug/L	3060.1 ppb	19:22:44
3	Si 251.611†	193977.9	181363.0	9697.2 ug/L	9697.2 ppb	19:22:24
3	Sn 189.927†	3168.1	2961.0	1004.1 ug/L	1004.1 ppb	19:22:44
3	Ti 334.940†	2735577.0	2563781.6	6061.1 ug/L	6061.1 ppb	19:22:24
3	Tl 190.801†	1940.0	1844.5	1080.0 ug/L	1080.0 ppb	19:22:44
3	U 409.014†	-5920.1	-4268.2	-215.03 ug/L	-215.03 ppb	19:22:24
3	V 292.402†	119847.6	113522.8	1216.4 ug/L	1216.4 ppb	19:22:24
3	Zn 213.857†	365836.7	342214.8	5845.4 ug/L	5845.4 ppb	19:22:24
3	SiO2†	191860.1	179385.4	19973 ug/L	19973 ppb	19:23:00

Mean Data: 1202091942|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	636046.6	106.02 %	0.885			0.83%
Sc Radial	2895.5	110 %	0.2			0.17%
Y 371.029	573278.1	113.54 %	0.963			0.85%
Y RADIAL	3507.1	120.2 %	0.57			0.48%
Ag 328.068†	37371.6	315.29 ug/L	0.287	315.29 ppb	0.287	0.09%
Al 396.153Radial†	62187.0	86996 ug/L	858.7	86996 ppb	858.7	0.99%
As 188.979†	1277.3	1088.4 ug/L	11.49	1088.4 ppb	11.49	1.06%
B 249.677†	38281.3	1444.2 ug/L	2.12	1444.2 ppb	2.12	0.15%
Ba 233.527†	144291.7	1919.0 ug/L	2.09	1919.0 ppb	2.09	0.11%
Be 313.107†	1365764.4	810.41 ug/L	0.592	810.41 ppb	0.592	0.07%
Ca 317.933Radial†	29798.8	98903 ug/L	908.4	98903 ppb	908.4	0.92%
Cd 226.502†	28033.2	575.03 ug/L	7.578	575.03 ppb	7.578	1.32%
Co 228.616†	23761.1	881.28 ug/L	12.223	881.28 ppb	12.223	1.39%
Cr 267.716†	121821.8	2365.2 ug/L	1.58	2365.2 ppb	1.58	0.07%
Cu 324.752†	424274.2	1882.6 ug/L	2.31	1882.6 ppb	2.31	0.12%
Fe 238.204 Radial†	7453.0	190350 ug/L	1666.2	190350 ppb	1666.2	0.88%
K 766.490 Radial†	153005.3	41583 ug/L	378.3	41583 ppb	378.3	0.91%

Mg 279.077 IEC†	486.4	38068 ug/L	75.2	38068 ppb	75.2	0.20%
Mn 257.610†	2828555.1	5199.9 ug/L	5.44	5199.9 ppb	5.44	0.10%
Mo 202.031†	3833.2	516.50 ug/L	4.664	516.50 ppb	4.664	0.90%
Na 589.592 Radial†	17169.7	10440 ug/L	77.4	10440 ppb	77.4	0.74%
Ni 231.604†	27509.3	1253.4 ug/L	16.30	1253.4 ppb	16.30	1.30%
P 214.914†	7098.9	7016.9 ug/L	98.51	7016.9 ppb	98.51	1.40%
Pb 220.353†	3702.6	831.07 ug/L	13.421	831.07 ppb	13.421	1.61%
S 181.975 Axial†	1375.4	3516.2 ug/L	78.93	3516.2 ppb	78.93	2.24%
Sb 206.836†	2775.2	1647.5 ug/L	16.01	1647.5 ppb	16.01	0.97%
Se 196.026†	1942.5	3086.7 ug/L	26.09	3086.7 ppb	26.09	0.85%
Si 251.611†	181477.3	9703.3 ug/L	13.91	9703.3 ppb	13.91	0.14%
Sn 189.927†	2990.7	1013.6 ug/L	11.40	1013.6 ppb	11.40	1.13%
Sr 421.552†	181542.4	2389.1 ug/L	21.06	2389.1 ppb	21.06	0.88%
Ti 334.940†	2566101.9	6066.5 ug/L	4.86	6066.5 ppb	4.86	0.08%
Tl 190.801†	1873.6	1096.0 ug/L	14.27	1096.0 ppb	14.27	1.30%
U 409.014†	-4266.5	-214.61 ug/L	0.900	-214.61 ppb	0.900	0.42%
V 292.402†	113702.2	1218.7 ug/L	2.14	1218.7 ppb	2.14	0.18%
Zn 213.857†	342708.7	5854.1 ug/L	10.23	5854.1 ppb	10.23	0.17%
SiO2†	181288.7	20185 ug/L	227.0	20185 ppb	227.0	1.12%

Sequence No.: 5

Sample ID: 248511001|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 4/12/2010 19:25:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511001|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2977.8	2977.8	114 %		19:27:24
1	Y RADIAL	3975.3	3975.3	136.2 %		19:27:03
1	Al 396.153Radial†	23746.1	20984.0	29364 ug/L	29364 ppb	19:27:03
1	Ca 317.933Radial†	8808.3	7743.9	25702 ug/L	25702 ppb	19:27:03
1	Fe 238.204 Radial†	3099.3	2722.7	69530 ug/L	69530 ppb	19:27:24
1	K 766.490 Radial†	40172.5	32928.3	8947.7 ug/L	8947.7 ppb	19:27:03
1	Mg 279.077 IEC†	103.0	90.5	7047.9 ug/L	7047.9 ppb	19:27:24
1	Na 589.592 Radial†	-117.7	840.9	511.31 ug/L	511.31 ppb	19:27:03
1	Sr 421.552†	30016.0	26411.1	347.48 ug/L	347.48 ppb	19:27:03
1	Sc 361.383	641718.5	641718.5	106.96 %		19:28:21
1	Y 371.029	640062.7	640062.7	126.77 %		19:28:21
1	Ag 328.068†	-2826.7	-2724.5	1.1022 ug/L	1.1022 ppb	19:28:26
1	As 188.979†	-7.6	10.5	41.427 ug/L	41.427 ppb	19:28:46
1	B 249.677†	1746.7	1972.1	64.774 ug/L	64.774 ppb	19:28:26
1	Ba 233.527†	38671.7	36142.6	481.00 ug/L	481.00 ppb	19:28:26
1	Be 313.107†	-3796.6	-282.7	5.3112 ug/L	5.3112 ppb	19:28:26
1	Cd 226.502†	321.1	461.9	2.0872 ug/L	2.0872 ppb	19:28:46
1	Co 228.616†	540.0	533.9	14.258 ug/L	14.258 ppb	19:28:46
1	Cr 267.716†	4499.5	4128.6	91.129 ug/L	91.129 ppb	19:28:46
1	Cu 324.752†	15495.2	9320.5	46.153 ug/L	46.153 ppb	19:28:26
1	Mn 257.610†	2154522.6	2013887.7	3695.2 ug/L	3695.2 ppb	19:28:21
1	Mo 202.031†	0.4	-11.0	3.9517 ug/L	3.9517 ppb	19:28:46
1	Ni 231.604†	1544.6	1366.3	61.915 ug/L	61.915 ppb	19:28:46
1	P 214.914†	1445.3	1189.1	1205.0 ug/L	1205.0 ppb	19:28:46
1	Pb 220.353†	339.3	361.3	79.441 ug/L	79.441 ppb	19:28:46
1	S 181.975 Axial†	392.7	344.4	878.73 ug/L	878.73 ppb	19:28:46
1	Sb 206.836†	43.1	14.8	0.8518 ug/L	0.8518 ppb	19:28:46
1	Se 196.026†	-235.3	-205.4	25.933 ug/L	25.933 ppb	19:28:46
1	Si 251.611†	176810.8	164939.5	8824.7 ug/L	8824.7 ppb	19:28:26
1	Sn 189.927†	-111.5	-111.1	-29.569 ug/L	-29.569 ppb	19:28:46
1	Ti 334.940†	1091662.0	1021628.2	2414.6 ug/L	2414.6 ppb	19:28:21
1	Tl 190.801†	-109.8	-75.6	-5.8283 ug/L	-5.8283 ppb	19:28:46
1	U 409.014†	-7242.3	-5492.8	-235.85 ug/L	-235.85 ppb	19:28:26
1	V 292.402†	6827.1	7630.1	71.394 ug/L	71.394 ppb	19:28:26
1	Zn 213.857†	39841.5	36740.2	620.13 ug/L	620.13 ppb	19:28:26
1	SiO2†	175894.4	164089.0	18282 ug/L	18282 ppb	19:29:54
2	Sc Radial	2909.6	2909.6	111 %		19:27:49
2	Y RADIAL	3969.8	3969.8	136.1 %		19:27:29
2	Al 396.153Radial†	23191.0	20974.4	29350 ug/L	29350 ppb	19:27:29
2	Ca 317.933Radial†	8590.7	7729.8	25655 ug/L	25655 ppb	19:27:29
2	Fe 238.204 Radial†	3084.8	2773.6	70830 ug/L	70830 ppb	19:27:49
2	K 766.490 Radial†	39276.7	32951.0	8953.9 ug/L	8953.9 ppb	19:27:29
2	Mg 279.077 IEC†	104.7	94.2	7332.5 ug/L	7332.5 ppb	19:27:49
2	Na 589.592 Radial†	-175.0	786.8	478.41 ug/L	478.41 ppb	19:27:29
2	Sr 421.552†	29130.4	26233.1	345.14 ug/L	345.14 ppb	19:27:29
2	Sc 361.383	633549.6	633549.6	105.60 %		19:28:52
2	Y 371.029	630304.7	630304.7	124.83 %		19:28:52
2	Ag 328.068†	-2786.6	-2720.6	1.5015 ug/L	1.5015 ppb	19:28:57
2	As 188.979†	-16.2	2.3	35.159 ug/L	35.159 ppb	19:29:17
2	B 249.677†	1655.4	1906.7	62.038 ug/L	62.038 ppb	19:28:57
2	Ba 233.527†	38420.8	36371.1	484.08 ug/L	484.08 ppb	19:28:57
2	Be 313.107†	-3813.7	-344.6	5.2527 ug/L	5.2527 ppb	19:28:57
2	Cd 226.502†	320.9	465.5	2.0215 ug/L	2.0215 ppb	19:29:17
2	Co 228.616†	535.2	535.9	14.338 ug/L	14.338 ppb	19:29:17
2	Cr 267.716†	4490.5	4174.4	92.227 ug/L	92.227 ppb	19:29:17
2	Cu 324.752†	15430.9	9446.3	46.798 ug/L	46.798 ppb	19:28:57
2	Mn 257.610†	2120957.7	2008074.9	3684.7 ug/L	3684.7 ppb	19:28:52
2	Mo 202.031†	5.9	-5.7	4.7274 ug/L	4.7274 ppb	19:29:17
2	Ni 231.604†	1523.5	1364.9	61.847 ug/L	61.847 ppb	19:29:17

2	P 214.914†	1422.0	1184.5	1198.6 ug/L	1198.6 ppb	19:29:17
2	Pb 220.353†	319.2	346.4	75.899 ug/L	75.899 ppb	19:29:17
2	S 181.975 Axial†	390.5	347.1	885.54 ug/L	885.54 ppb	19:29:17
2	Sb 206.836†	36.4	9.1	-2.4685 ug/L	-2.4685 ppb	19:29:17
2	Se 196.026†	-241.1	-213.6	21.091 ug/L	21.091 ppb	19:29:17
2	Si 251.611†	176091.9	166390.1	8902.3 ug/L	8902.3 ppb	19:28:57
2	Sn 189.927†	-109.4	-110.5	-29.380 ug/L	-29.380 ppb	19:29:17
2	Ti 334.940†	1073357.5	1017454.1	2404.7 ug/L	2404.7 ppb	19:28:52
2	Tl 190.801†	-107.0	-74.3	-5.2529 ug/L	-5.2529 ppb	19:29:17
2	U 409.014†	-7065.7	-5412.9	-232.87 ug/L	-232.87 ppb	19:28:57
2	V 292.402†	6889.8	7771.8	72.804 ug/L	72.804 ppb	19:28:57
2	Zn 213.857†	39861.8	37239.6	628.51 ug/L	628.51 ppb	19:28:57
2	SiO2†	177328.5	167567.3	18670 ug/L	18670 ppb	19:29:59
3	Sc Radial	2857.4	2857.4	109 %		19:28:14
3	Y RADIAL	3930.0	3930.0	134.7 %		19:27:54
3	Al 396.153Radial†	23262.5	21421.7	29976 ug/L	29976 ppb	19:27:54
3	Ca 317.933Radial†	8625.4	7903.1	26230 ug/L	26230 ppb	19:27:54
3	Fe 238.204 Radial†	3020.4	2765.3	70618 ug/L	70618 ppb	19:28:14
3	K 766.490 Radial†	39341.4	33656.9	9145.8 ug/L	9145.8 ppb	19:27:54
3	Mg 279.077 IEC†	102.5	93.9	7314.3 ug/L	7314.3 ppb	19:28:14
3	Na 589.592 Radial†	-165.5	792.7	482.00 ug/L	482.00 ppb	19:27:54
3	Sr 421.552†	29238.3	26811.7	352.75 ug/L	352.75 ppb	19:27:54
3	Sc 361.383	644942.8	644942.8	107.50 %		19:29:23
3	Y 371.029	641795.8	641795.8	127.11 %		19:29:23
3	Ag 328.068†	-2769.7	-2658.3	1.8430 ug/L	1.8430 ppb	19:29:28
3	As 188.979†	-17.8	1.1	34.106 ug/L	34.106 ppb	19:29:48
3	B 249.677†	1601.1	1828.5	59.053 ug/L	59.053 ppb	19:29:28
3	Ba 233.527†	37831.2	35180.0	468.31 ug/L	468.31 ppb	19:29:28
3	Be 313.107†	-3759.5	-230.4	5.2935 ug/L	5.2935 ppb	19:29:28
3	Cd 226.502†	315.7	455.3	1.8288 ug/L	1.8288 ppb	19:29:48
3	Co 228.616†	544.0	535.1	14.328 ug/L	14.328 ppb	19:29:48
3	Cr 267.716†	4522.7	4129.2	91.319 ug/L	91.319 ppb	19:29:48
3	Cu 324.752†	15174.5	8949.7	44.592 ug/L	44.592 ppb	19:29:28
3	Mn 257.610†	2145577.5	1995496.9	3661.6 ug/L	3661.6 ppb	19:29:23
3	Mo 202.031†	5.8	-5.9	4.7012 ug/L	4.7012 ppb	19:29:48
3	Ni 231.604†	1530.2	1345.7	60.969 ug/L	60.969 ppb	19:29:48
3	P 214.914†	1432.8	1170.7	1184.8 ug/L	1184.8 ppb	19:29:48
3	Pb 220.353†	311.2	333.6	73.196 ug/L	73.196 ppb	19:29:48
3	S 181.975 Axial†	392.2	342.1	872.74 ug/L	872.74 ppb	19:29:48
3	Sb 206.836†	26.8	-0.5	-8.0961 ug/L	-8.0961 ppb	19:29:48
3	Se 196.026†	-233.9	-202.9	33.168 ug/L	33.168 ppb	19:29:48
3	Si 251.611†	173581.4	161109.1	8619.7 ug/L	8619.7 ppb	19:29:28
3	Sn 189.927†	-106.4	-105.9	-27.712 ug/L	-27.712 ppb	19:29:48
3	Ti 334.940†	1087486.1	1012641.5	2393.4 ug/L	2393.4 ppb	19:29:23
3	Tl 190.801†	-102.3	-68.1	-2.0112 ug/L	-2.0112 ppb	19:29:48
3	U 409.014†	-7034.1	-5265.3	-226.86 ug/L	-226.86 ppb	19:29:28
3	V 292.402†	6647.3	7431.0	69.128 ug/L	69.128 ppb	19:29:28
3	Zn 213.857†	39260.6	36013.6	607.46 ug/L	607.46 ppb	19:29:28
3	SiO2†	175031.3	162464.1	18101 ug/L	18101 ppb	19:30:04

Mean Data: 248511001|973758|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
Sc 361.383	640070.3	106.69 %		0.979			0.92%
Sc Radial	2914.9	111 %		2.3			2.07%
Y 371.029	637387.7	126.24 %		1.227			0.97%
Y RADIAL	3958.4	135.7 %		0.85			0.62%
Ag 328.068†	-2701.1	1.4822 ug/L		0.37074	1.4822 ppb	0.37074	25.01%
Al 396.153Radial†	21126.7	29563 ug/L		357.6	29563 ppb	357.6	1.21%
As 188.979†	4.7	36.897 ug/L		3.9581	36.897 ppb	3.9581	10.73%
B 249.677†	1902.4	61.955 ug/L		2.8611	61.955 ppb	2.8611	4.62%
Ba 233.527†	35897.9	477.80 ug/L		8.360	477.80 ppb	8.360	1.75%
Be 313.107†	-285.9	5.2858 ug/L		0.03002	5.2858 ppb	0.03002	0.57%
Ca 317.933Radial†	7792.3	25863 ug/L		319.4	25863 ppb	319.4	1.23%
Cd 226.502†	460.9	1.9792 ug/L		0.13431	1.9792 ppb	0.13431	6.79%
Co 228.616†	534.9	14.308 ug/L		0.0434	14.308 ppb	0.0434	0.30%
Cr 267.716†	4144.1	91.558 ug/L		0.5872	91.558 ppb	0.5872	0.64%
Cu 324.752†	9238.8	45.848 ug/L		1.1343	45.848 ppb	1.1343	2.47%
Fe 238.204 Radial†	2753.9	70326 ug/L		697.4	70326 ppb	697.4	0.99%
K 766.490 Radial†	33178.7	9015.8 ug/L		112.60	9015.8 ppb	112.60	1.25%

Mg 279.077 IEC†	92.9	7231.6 ug/L	159.32	7231.6 ppb	159.32	2.20%
Mn 257.610†	2005819.8	3680.5 ug/L	17.16	3680.5 ppb	17.16	0.47%
Mo 202.031†	-7.5	4.4601 ug/L	0.44051	4.4601 ppb	0.44051	9.88%
Na 589.592 Radial†	806.8	490.57 ug/L	18.048	490.57 ppb	18.048	3.68%
Ni 231.604†	1359.0	61.577 ug/L	0.5274	61.577 ppb	0.5274	0.86%
P 214.914†	1181.4	1196.1 ug/L	10.35	1196.1 ppb	10.35	0.86%
Pb 220.353†	347.1	76.178 ug/L	3.1318	76.178 ppb	3.1318	4.11%
S 181.975 Axial†	344.5	879.00 ug/L	6.403	879.00 ppb	6.403	0.73%
Sb 206.836†	7.8	-3.2376 ug/L	4.52327	-3.2376 ppb	4.52327	139.71%
Se 196.026†	-207.3	26.731 ug/L	6.0778	26.731 ppb	6.0778	22.74%
Si 251.611†	164146.2	8782.2 ug/L	145.98	8782.2 ppb	145.98	1.66%
Sn 189.927†	-109.1	-28.887 ug/L	1.0219	-28.887 ppb	1.0219	3.54%
Sr 421.552†	26485.3	348.46 ug/L	3.898	348.46 ppb	3.898	1.12%
Ti 334.940†	1017241.3	2404.3 ug/L	10.60	2404.3 ppb	10.60	0.44%
Tl 190.801†	-72.7	-4.3641 ug/L	2.05792	-4.3641 ppb	2.05792	47.16%
U 409.014†	-5390.3	-231.86 ug/L	4.582	-231.86 ppb	4.582	1.98%
V 292.402†	7611.0	71.108 ug/L	1.8546	71.108 ppb	1.8546	2.61%
Zn 213.857†	36664.5	618.70 ug/L	10.598	618.70 ppb	10.598	1.71%
SiO2†	164706.8	18351 ug/L	290.5	18351 ppb	290.5	1.58%

Sequence No.: 6

Sample ID: 1202062395|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 4/12/2010 19:32:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062395|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2880.2	2880.2	110 %			19:34:28
1	Y RADIAL	3852.3	3852.3	132.0 %			19:34:07
1	Al 396.153Radial†	20958.7	19155.3	26805 ug/L		26805 ppb	19:34:07
1	Ca 317.933Radial†	9200.1	8363.5	27759 ug/L		27759 ppb	19:34:07
1	Fe 238.204 Radial†	2709.5	2460.3	62829 ug/L		62829 ppb	19:34:28
1	K 766.490 Radial†	37068.9	31302.1	8504.8 ug/L		8504.8 ppb	19:34:07
1	Mg 279.077 IEC†	101.1	91.9	7164.0 ug/L		7164.0 ppb	19:34:28
1	Na 589.592 Radial†	-131.4	824.9	501.55 ug/L		501.55 ppb	19:34:07
1	Sr 421.552†	31007.0	28209.0	371.13 ug/L		371.13 ppb	19:34:07
1	Sc 361.383	646031.4	646031.4	107.68 %			19:35:25
1	Y 371.029	617860.8	617860.8	122.37 %			19:35:25
1	Ag 328.068†	-2329.9	-2245.6	2.3986 ug/L		2.3986 ppb	19:35:30
1	As 188.979†	-12.3	6.2	34.088 ug/L		34.088 ppb	19:35:50
1	B 249.677†	1544.5	1773.4	58.195 ug/L		58.195 ppb	19:35:30
1	Ba 233.527†	40992.2	38056.1	506.02 ug/L		506.02 ppb	19:35:30
1	Be 313.107†	-3990.2	-438.8	4.4701 ug/L		4.4701 ppb	19:35:30
1	Cd 226.502†	297.0	437.5	2.3267 ug/L		2.3267 ppb	19:35:50
1	Co 228.616†	522.1	513.9	14.296 ug/L		14.296 ppb	19:35:50
1	Cr 267.716†	5934.2	5432.9	114.90 ug/L		114.90 ppb	19:35:50
1	Cu 324.752†	16641.0	10287.8	49.909 ug/L		49.909 ppb	19:35:30
1	Mn 257.610†	2198813.3	2041570.9	3745.1 ug/L		3745.1 ppb	19:35:25
1	Mo 202.031†	6.1	-5.7	4.2199 ug/L		4.2199 ppb	19:35:50
1	Ni 231.604†	1699.2	1500.2	68.065 ug/L		68.065 ppb	19:35:50
1	P 214.914†	1624.0	1346.1	1378.1 ug/L		1378.1 ppb	19:35:50
1	Pb 220.353†	391.5	407.7	90.242 ug/L		90.242 ppb	19:35:50
1	S 181.975 Axial†	447.6	393.0	1004.2 ug/L		1004.2 ppb	19:35:50
1	Sb 206.836†	36.9	8.8	-1.6521 ug/L		-1.6521 ppb	19:35:50
1	Se 196.026†	-215.6	-185.6	23.412 ug/L		23.412 ppb	19:35:50
1	Si 251.611†	163759.4	151715.8	8117.2 ug/L		8117.2 ppb	19:35:30
1	Sn 189.927†	-108.3	-107.4	-27.944 ug/L		-27.944 ppb	19:35:50
1	Ti 334.940†	948331.0	881711.0	2084.5 ug/L		2084.5 ppb	19:35:25
1	Tl 190.801†	-103.9	-69.5	-4.7088 ug/L		-4.7088 ppb	19:35:50
1	U 409.014†	-6029.1	-4321.0	-187.20 ug/L		-187.20 ppb	19:35:30
1	V 292.402†	5978.5	6799.4	63.635 ug/L		63.635 ppb	19:35:50
1	Zn 213.857†	41040.8	37605.3	636.08 ug/L		636.08 ppb	19:35:30
1	SiO2†	163752.8	151716.0	16904 ug/L		16904 ppb	19:36:58
2	Sc Radial	2898.9	2898.9	111 %			19:34:53
2	Y RADIAL	3831.1	3831.1	131.3 %			19:34:33
2	Al 396.153Radial†	21322.2	19360.7	27092 ug/L		27092 ppb	19:34:33
2	Ca 317.933Radial†	9276.6	8378.5	27808 ug/L		27808 ppb	19:34:33
2	Fe 238.204 Radial†	2704.5	2439.9	62307 ug/L		62307 ppb	19:34:53
2	K 766.490 Radial†	37440.3	31419.6	8536.8 ug/L		8536.8 ppb	19:34:33
2	Mg 279.077 IEC†	99.3	89.7	6987.1 ug/L		6987.1 ppb	19:34:53
2	Na 589.592 Radial†	-227.5	738.8	449.20 ug/L		449.20 ppb	19:34:33
2	Sr 421.552†	31393.3	28375.8	373.33 ug/L		373.33 ppb	19:34:33
2	Sc 361.383	659698.2	659698.2	109.96 %			19:35:56
2	Y 371.029	631056.0	631056.0	124.98 %			19:35:56
2	Ag 328.068†	-2363.0	-2230.8	2.3487 ug/L		2.3487 ppb	19:36:01
2	As 188.979†	-15.7	3.4	31.816 ug/L		31.816 ppb	19:36:21
2	B 249.677†	1572.6	1769.3	58.121 ug/L		58.121 ppb	19:36:01
2	Ba 233.527†	40978.5	37255.1	495.40 ug/L		495.40 ppb	19:36:01
2	Be 313.107†	-3881.5	-263.1	4.5851 ug/L		4.5851 ppb	19:36:01
2	Cd 226.502†	290.6	425.9	2.1379 ug/L		2.1379 ppb	19:36:21
2	Co 228.616†	516.8	499.0	13.727 ug/L		13.727 ppb	19:36:21
2	Cr 267.716†	5944.2	5327.8	112.80 ug/L		112.80 ppb	19:36:21
2	Cu 324.752†	16741.6	10059.1	48.865 ug/L		48.865 ppb	19:36:01
2	Mn 257.610†	2252106.1	2047733.9	3756.3 ug/L		3756.3 ppb	19:35:56
2	Mo 202.031†	4.7	-7.1	4.0017 ug/L		4.0017 ppb	19:36:21
2	Ni 231.604†	1721.0	1487.4	67.484 ug/L		67.484 ppb	19:36:21

2	P 214.914†	1638.4	1327.9	1359.4 ug/L	1359.4 ppb	19:36:21
2	Pb 220.353†	404.9	412.4	91.434 ug/L	91.434 ppb	19:36:21
2	S 181.975 Axial†	456.3	392.3	1002.3 ug/L	1002.3 ppb	19:36:21
2	Sb 206.836†	42.2	12.9	0.7259 ug/L	0.7259 ppb	19:36:21
2	Se 196.026†	-212.7	-178.8	29.537 ug/L	29.537 ppb	19:36:21
2	Si 251.611†	164006.6	148790.2	7960.6 ug/L	7960.6 ppb	19:36:01
2	Sn 189.927†	-113.4	-110.0	-28.806 ug/L	-28.806 ppb	19:36:21
2	Ti 334.940†	970955.7	884041.5	2090.0 ug/L	2090.0 ppb	19:35:56
2	Tl 190.801†	-82.9	-48.3	7.0306 ug/L	7.0306 ppb	19:36:21
2	U 409.014†	-6178.9	-4341.2	-187.92 ug/L	-187.92 ppb	19:36:01
2	V 292.402†	6007.5	6710.8	62.722 ug/L	62.722 ppb	19:36:21
2	Zn 213.857†	41295.7	37047.4	626.57 ug/L	626.57 ppb	19:36:01
2	SiO2†	167598.7	152063.1	16942 ug/L	16942 ppb	19:37:03
3	Sc Radial	2867.1	2867.1	109 %		19:35:18
3	Y RADIAL	3803.8	3803.8	130.4 %		19:34:58
3	Al 396.153Radial†	21099.9	19371.6	27107 ug/L	27107 ppb	19:34:58
3	Ca 317.933Radial†	9142.8	8349.3	27712 ug/L	27712 ppb	19:34:58
3	Fe 238.204 Radial†	2660.4	2426.8	61972 ug/L	61972 ppb	19:35:18
3	K 766.490 Radial†	37013.2	31405.3	8532.9 ug/L	8532.9 ppb	19:34:58
3	Mg 279.077 IEC†	99.9	91.2	7107.1 ug/L	7107.1 ppb	19:35:18
3	Na 589.592 Radial†	-192.3	768.6	467.36 ug/L	467.36 ppb	19:34:58
3	Sr 421.552†	31045.6	28373.3	373.30 ug/L	373.30 ppb	19:34:58
3	Sc 361.383	648495.1	648495.1	108.09 %		19:36:27
3	Y 371.029	620892.5	620892.5	122.97 %		19:36:27
3	Ag 328.068†	-2380.8	-2284.4	1.8911 ug/L	1.8911 ppb	19:36:32
3	As 188.979†	-14.3	4.5	32.566 ug/L	32.566 ppb	19:36:52
3	B 249.677†	1631.5	1848.4	61.230 ug/L	61.230 ppb	19:36:32
3	Ba 233.527†	41089.9	38001.8	505.27 ug/L	505.27 ppb	19:36:32
3	Be 313.107†	-3977.8	-413.2	4.4927 ug/L	4.4927 ppb	19:36:32
3	Cd 226.502†	304.5	443.4	2.5475 ug/L	2.5475 ppb	19:36:52
3	Co 228.616†	530.7	520.0	14.531 ug/L	14.531 ppb	19:36:52
3	Cr 267.716†	5984.2	5458.2	115.24 ug/L	115.24 ppb	19:36:52
3	Cu 324.752†	16740.2	10320.8	49.994 ug/L	49.994 ppb	19:36:32
3	Mn 257.610†	2210797.5	2044900.3	3751.0 ug/L	3751.0 ppb	19:36:27
3	Mo 202.031†	1.8	-9.7	3.6376 ug/L	3.6376 ppb	19:36:52
3	Ni 231.604†	1726.0	1519.0	68.927 ug/L	68.927 ppb	19:36:52
3	P 214.914†	1627.2	1343.3	1375.9 ug/L	1375.9 ppb	19:36:52
3	Pb 220.353†	382.7	398.2	88.285 ug/L	88.285 ppb	19:36:52
3	S 181.975 Axial†	450.0	393.6	1005.7 ug/L	1005.7 ppb	19:36:52
3	Sb 206.836†	38.1	9.8	-1.1656 ug/L	-1.1656 ppb	19:36:52
3	Se 196.026†	-222.2	-190.9	13.694 ug/L	13.694 ppb	19:36:52
3	Si 251.611†	164218.5	151562.8	8109.0 ug/L	8109.0 ppb	19:36:32
3	Sn 189.927†	-118.6	-116.6	-31.007 ug/L	-31.007 ppb	19:36:52
3	Ti 334.940†	953489.4	883137.4	2087.8 ug/L	2087.8 ppb	19:36:27
3	Tl 190.801†	-105.5	-70.5	-5.2578 ug/L	-5.2578 ppb	19:36:52
3	U 409.014†	-6059.6	-4328.0	-187.32 ug/L	-187.32 ppb	19:36:32
3	V 292.402†	6051.8	6846.2	64.246 ug/L	64.246 ppb	19:36:52
3	Zn 213.857†	41225.1	37630.9	636.66 ug/L	636.66 ppb	19:36:32
3	SiO2†	165800.3	153032.4	17050 ug/L	17050 ppb	19:37:08

Mean Data: 1202062395|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	651408.2	108.58 %	1.214			1.12%
Sc Radial	2882.1	110 %	0.6			0.56%
Y 371.029	623269.8	123.44 %	1.369			1.11%
Y RADIAL	3829.1	131.2 %	0.83			0.64%
Ag 328.068†	-2253.6	2.2128 ug/L	0.27972	2.2128 ppb	0.27972	12.64%
Al 396.153Radial†	19295.9	27001 ug/L	170.5	27001 ppb	170.5	0.63%
As 188.979†	4.7	32.823 ug/L	1.1578	32.823 ppb	1.1578	3.53%
B 249.677†	1797.0	59.182 ug/L	1.7737	59.182 ppb	1.7737	3.00%
Ba 233.527†	37771.0	502.23 ug/L	5.925	502.23 ppb	5.925	1.18%
Be 313.107†	-371.7	4.5160 ug/L	0.06091	4.5160 ppb	0.06091	1.35%
Ca 317.933Radial†	8363.8	27760 ug/L	48.4	27760 ppb	48.4	0.17%
Cd 226.502†	435.6	2.3374 ug/L	0.20501	2.3374 ppb	0.20501	8.77%
Co 228.616†	511.0	14.185 ug/L	0.4138	14.185 ppb	0.4138	2.92%
Cr 267.716†	5406.3	114.31 ug/L	1.321	114.31 ppb	1.321	1.16%
Cu 324.752†	10222.5	49.590 ug/L	0.6287	49.590 ppb	0.6287	1.27%
Fe 238.204 Radial†	2442.3	62369 ug/L	431.8	62369 ppb	431.8	0.69%
K 766.490 Radial†	31375.7	8524.9 ug/L	17.45	8524.9 ppb	17.45	0.20%

Mg 279.077 IEC†	90.9	7086.1 ug/L	90.30	7086.1 ppb	90.30	1.27%
Mn 257.610†	2044735.0	3750.8 ug/L	5.62	3750.8 ppb	5.62	0.15%
Mo 202.031†	-7.5	3.9531 ug/L	0.29418	3.9531 ppb	0.29418	7.44%
Na 589.592 Radial†	777.4	472.70 ug/L	26.582	472.70 ppb	26.582	5.62%
Ni 231.604†	1502.2	68.159 ug/L	0.7263	68.159 ppb	0.7263	1.07%
P 214.914†	1339.1	1371.1 ug/L	10.22	1371.1 ppb	10.22	0.75%
Pb 220.353†	406.1	89.987 ug/L	1.5900	89.987 ppb	1.5900	1.77%
S 181.975 Axial†	393.0	1004.1 ug/L	1.70	1004.1 ppb	1.70	0.17%
Sb 206.836†	10.5	-0.6972 ug/L	1.25629	-0.6972 ppb	1.25629	180.18%
Se 196.026†	-185.1	22.214 ug/L	7.9894	22.214 ppb	7.9894	35.97%
Si 251.611†	150689.6	8062.3 ug/L	88.10	8062.3 ppb	88.10	1.09%
Sn 189.927†	-111.3	-29.253 ug/L	1.5795	-29.253 ppb	1.5795	5.40%
Sr 421.552†	28319.4	372.59 ug/L	1.258	372.59 ppb	1.258	0.34%
Ti 334.940†	882963.3	2087.4 ug/L	2.78	2087.4 ppb	2.78	0.13%
Tl 190.801†	-62.8	-0.9787 ug/L	6.94164	-0.9787 ppb	6.94164	709.28%
U 409.014†	-4330.1	-187.48 ug/L	0.383	-187.48 ppb	0.383	0.20%
V 292.402†	6785.5	63.535 ug/L	0.7670	63.535 ppb	0.7670	1.21%
Zn 213.857†	37427.9	633.10 ug/L	5.662	633.10 ppb	5.662	0.89%
SiO2†	152270.5	16965 ug/L	76.0	16965 ppb	76.0	0.45%

Sequence No.: 7

Sample ID: 1202062396|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 42

Date Collected: 4/12/2010 19:39:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062396|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2916.2	2916.2	111 %		19:41:32
1	Y RADIAL	3945.8	3945.8	135.2 %		19:41:12
1	Al 396.153Radial†	41611.2	37487.3	52435 ug/L	52435 ppb	19:41:12
1	Ca 317.933Radial†	9991.2	8971.2	29776 ug/L	29776 ppb	19:41:12
1	Fe 238.204 Radial†	3446.6	3092.5	78987 ug/L	78987 ppb	19:41:32
1	K 766.490 Radial†	64915.8	55920.9	15198 ug/L	15198 ppb	19:41:12
1	Mg 279.077 IEC†	201.0	180.6	14126 ug/L	14126 ppb	19:41:32
1	Na 589.592 Radial†	9161.7	9181.5	5582.8 ug/L	5582.8 ppb	19:41:12
1	Sr 421.552†	72342.9	65023.6	855.74 ug/L	855.74 ppb	19:41:12
1	Sc 361.383	635698.8	635698.8	105.96 %		19:42:31
1	Y 371.029	629580.4	629580.4	124.69 %		19:42:31
1	Ag 328.068†	70158.3	66129.3	479.72 ug/L	479.72 ppb	19:42:31
1	As 188.979†	617.6	600.6	510.03 ug/L	510.03 ppb	19:42:51
1	B 249.677†	14457.1	13982.9	525.53 ug/L	525.53 ppb	19:42:31
1	Ba 233.527†	77545.3	73171.5	972.28 ug/L	972.28 ppb	19:42:31
1	Be 313.107†	888755.8	842021.3	497.84 ug/L	497.84 ppb	19:42:31
1	Cd 226.502†	23399.3	22244.6	464.07 ug/L	464.07 ppb	19:42:51
1	Co 228.616†	13597.6	12861.6	478.81 ug/L	478.81 ppb	19:42:51
1	Cr 267.716†	31337.6	29496.7	578.57 ug/L	578.57 ppb	19:42:51
1	Cu 324.752†	137347.6	124454.7	553.56 ug/L	553.56 ppb	19:42:31
1	Mn 257.610†	2382367.0	2247987.2	4124.6 ug/L	4124.6 ppb	19:42:31
1	Mo 202.031†	3784.1	3559.8	471.56 ug/L	471.56 ppb	19:42:51
1	Ni 231.604†	12488.2	11707.9	533.40 ug/L	533.40 ppb	19:42:51
1	P 214.914†	1985.9	1712.1	1646.9 ug/L	1646.9 ppb	19:42:51
1	Pb 220.353†	2474.0	2379.0	539.28 ug/L	539.28 ppb	19:42:51
1	S 181.975 Axial†	2357.1	2201.8	5649.1 ug/L	5649.1 ppb	19:42:51
1	Sb 206.836†	768.9	700.2	420.91 ug/L	420.91 ppb	19:42:51
1	Se 196.026†	173.1	178.1	526.25 ug/L	526.25 ppb	19:42:51
1	Si 251.611†	204370.1	192513.6	10294 ug/L	10294 ppb	19:42:31
1	Sn 189.927†	1377.7	1293.4	435.15 ug/L	435.15 ppb	19:42:51
1	Ti 334.940†	1320663.4	1247410.3	2947.2 ug/L	2947.2 ppb	19:42:31
1	Tl 190.801†	688.3	676.7	411.41 ug/L	411.41 ppb	19:42:51
1	U 409.014†	5230.9	6214.5	234.92 ug/L	234.92 ppb	19:42:31
1	V 292.402†	53015.8	51280.7	554.52 ug/L	554.52 ppb	19:42:31
1	Zn 213.857†	69173.2	64774.4	1097.2 ug/L	1097.2 ppb	19:42:31
1	SiO2†	204413.4	192560.8	21442 ug/L	21442 ppb	19:43:50
2	Sc Radial	2866.8	2866.8	109 %		19:41:57
2	Y RADIAL	3896.6	3896.6	133.5 %		19:41:37
2	Al 396.153Radial†	41039.4	37609.2	52605 ug/L	52605 ppb	19:41:37
2	Ca 317.933Radial†	9863.8	9009.6	29903 ug/L	29903 ppb	19:41:37
2	Fe 238.204 Radial†	3374.4	3079.9	78665 ug/L	78665 ppb	19:41:57
2	K 766.490 Radial†	64214.8	56285.8	15297 ug/L	15297 ppb	19:41:37
2	Mg 279.077 IEC†	200.1	182.8	14302 ug/L	14302 ppb	19:41:57
2	Na 589.592 Radial†	9065.7	9235.6	5615.7 ug/L	5615.7 ppb	19:41:37
2	Sr 421.552†	71226.0	65123.2	857.05 ug/L	857.05 ppb	19:41:37
2	Sc 361.383	642962.6	642962.6	107.17 %		19:42:58
2	Y 371.029	636444.9	636444.9	126.05 %		19:42:58
2	Ag 328.068†	70985.4	66153.0	479.78 ug/L	479.78 ppb	19:42:58
2	As 188.979†	612.0	588.8	500.65 ug/L	500.65 ppb	19:43:18
2	B 249.677†	14551.2	13916.5	523.03 ug/L	523.03 ppb	19:42:58
2	Ba 233.527†	78210.1	72965.0	969.53 ug/L	969.53 ppb	19:42:58
2	Be 313.107†	896201.4	839492.8	496.35 ug/L	496.35 ppb	19:42:58
2	Cd 226.502†	23449.6	22042.0	459.80 ug/L	459.80 ppb	19:43:18
2	Co 228.616†	13571.8	12692.6	472.45 ug/L	472.45 ppb	19:43:18
2	Cr 267.716†	31406.6	29227.0	573.35 ug/L	573.35 ppb	19:43:18
2	Cu 324.752†	138881.1	124421.1	553.39 ug/L	553.39 ppb	19:42:58
2	Mn 257.610†	2398938.4	2238049.1	4106.4 ug/L	4106.4 ppb	19:42:58
2	Mo 202.031†	3802.0	3536.2	468.46 ug/L	468.46 ppb	19:43:18
2	Ni 231.604†	12499.9	11585.6	527.83 ug/L	527.83 ppb	19:43:18

2	P 214.914†	1975.5	1681.2	1614.2 ug/L	1614.2 ppb	19:43:18
2	Pb 220.353†	2479.1	2357.3	534.48 ug/L	534.48 ppb	19:43:18
2	S 181.975 Axial†	2357.5	2177.0	5585.2 ug/L	5585.2 ppb	19:43:18
2	Sb 206.836†	761.1	684.7	411.69 ug/L	411.69 ppb	19:43:18
2	Se 196.026†	173.7	176.7	523.40 ug/L	523.40 ppb	19:43:18
2	Si 251.611†	206018.1	191872.3	10260 ug/L	10260 ppb	19:42:58
2	Sn 189.927†	1385.9	1286.3	432.84 ug/L	432.84 ppb	19:43:18
2	Ti 334.940†	1332201.6	1244095.7	2939.4 ug/L	2939.4 ppb	19:42:58
2	Tl 190.801†	702.6	682.6	414.59 ug/L	414.59 ppb	19:43:18
2	U 409.014†	5431.9	6346.3	240.33 ug/L	240.33 ppb	19:42:58
2	V 292.402†	53487.8	51155.8	553.18 ug/L	553.18 ppb	19:42:58
2	Zn 213.857†	69683.7	64513.2	1092.8 ug/L	1092.8 ppb	19:42:58
2	SiO2†	205079.2	191002.6	21268 ug/L	21268 ppb	19:43:56
3	Sc Radial	2825.3	2825.3	108 %		19:42:22
3	Y RADIAL	3902.3	3902.3	133.7 %		19:42:02
3	Al 396.153Radial†	41061.3	38181.2	53405 ug/L	53405 ppb	19:42:02
3	Ca 317.933Radial†	9789.3	9073.0	30113 ug/L	30113 ppb	19:42:02
3	Fe 238.204 Radial†	3333.1	3087.0	78846 ug/L	78846 ppb	19:42:22
3	K 766.490 Radial†	63937.9	56892.1	15462 ug/L	15462 ppb	19:42:02
3	Mg 279.077 IEC†	195.7	181.5	14196 ug/L	14196 ppb	19:42:22
3	Na 589.592 Radial†	8990.4	9287.6	5647.4 ug/L	5647.4 ppb	19:42:02
3	Sr 421.552†	71051.1	65918.4	867.52 ug/L	867.52 ppb	19:42:02
3	Sc 361.383	634297.1	634297.1	105.73 %		19:43:25
3	Y 371.029	628799.0	628799.0	124.53 %		19:43:25
3	Ag 328.068†	69934.6	66064.0	479.22 ug/L	479.22 ppb	19:43:25
3	As 188.979†	622.9	606.9	514.84 ug/L	514.84 ppb	19:43:45
3	B 249.677†	14363.6	13924.6	523.28 ug/L	523.28 ppb	19:43:25
3	Ba 233.527†	76892.0	72715.3	966.24 ug/L	966.24 ppb	19:43:25
3	Be 313.107†	882670.7	838119.3	495.53 ug/L	495.53 ppb	19:43:25
3	Cd 226.502†	23630.3	22511.9	469.77 ug/L	469.77 ppb	19:43:45
3	Co 228.616†	13698.4	12985.3	483.51 ug/L	483.51 ppb	19:43:45
3	Cr 267.716†	31669.0	29875.5	585.80 ug/L	585.80 ppb	19:43:45
3	Cu 324.752†	136667.2	124097.5	551.97 ug/L	551.97 ppb	19:43:25
3	Mn 257.610†	2360868.7	2232621.9	4096.5 ug/L	4096.5 ppb	19:43:25
3	Mo 202.031†	3830.8	3612.0	478.38 ug/L	478.38 ppb	19:43:45
3	Ni 231.604†	12580.4	11821.1	538.56 ug/L	538.56 ppb	19:43:45
3	P 214.914†	2003.5	1732.9	1670.0 ug/L	1670.0 ppb	19:43:45
3	Pb 220.353†	2497.2	2406.0	545.65 ug/L	545.65 ppb	19:43:45
3	S 181.975 Axial†	2392.3	2240.0	5746.9 ug/L	5746.9 ppb	19:43:45
3	Sb 206.836†	772.1	704.8	423.80 ug/L	423.80 ppb	19:43:45
3	Se 196.026†	175.2	180.4	528.54 ug/L	528.54 ppb	19:43:45
3	Si 251.611†	202572.4	191239.5	10226 ug/L	10226 ppb	19:43:25
3	Sn 189.927†	1383.9	1302.1	438.11 ug/L	438.11 ppb	19:43:45
3	Ti 334.940†	1311486.7	1241485.0	2933.3 ug/L	2933.3 ppb	19:43:25
3	Tl 190.801†	708.6	697.3	422.50 ug/L	422.50 ppb	19:43:45
3	U 409.014†	5065.1	6068.6	229.03 ug/L	229.03 ppb	19:43:25
3	V 292.402†	52660.2	51054.9	552.17 ug/L	552.17 ppb	19:43:25
3	Zn 213.857†	68525.6	64306.1	1089.1 ug/L	1089.1 ppb	19:43:25
3	SiO2†	205069.9	193608.0	21558 ug/L	21558 ppb	19:44:01

Mean Data: 1202062396|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	637652.8	106.29 %	0.775			0.73%
Sc Radial	2869.5	109 %	1.7			1.59%
Y 371.029	631608.1	125.09 %	0.833			0.67%
Y RADIAL	3914.9	134.2 %	0.92			0.69%
Ag 328.068†	66115.5	479.57 ug/L	0.307	479.57 ppb	0.307	0.06%
Al 396.153Radial†	37759.2	52815 ug/L	518.2	52815 ppb	518.2	0.98%
As 188.979†	598.7	508.51 ug/L	7.214	508.51 ppb	7.214	1.42%
B 249.677†	13941.3	523.95 ug/L	1.372	523.95 ppb	1.372	0.26%
Ba 233.527†	72950.6	969.35 ug/L	3.027	969.35 ppb	3.027	0.31%
Be 313.107†	839877.8	496.57 ug/L	1.170	496.57 ppb	1.170	0.24%
Ca 317.933Radial†	9017.9	29931 ug/L	170.6	29931 ppb	170.6	0.57%
Cd 226.502†	22266.1	464.55 ug/L	4.999	464.55 ppb	4.999	1.08%
Co 228.616†	12846.5	478.26 ug/L	5.551	478.26 ppb	5.551	1.16%
Cr 267.716†	29533.0	579.24 ug/L	6.247	579.24 ppb	6.247	1.08%
Cu 324.752†	124324.4	552.97 ug/L	0.869	552.97 ppb	0.869	0.16%
Fe 238.204 Radial†	3086.5	78833 ug/L	161.4	78833 ppb	161.4	0.20%
K 766.490 Radial†	56366.3	15319 ug/L	133.4	15319 ppb	133.4	0.87%

Mg 279.077 IEC†	181.6	14208 ug/L	88.2	14208 ppb	88.2	0.62%
Mn 257.610†	2239552.8	4109.2 ug/L	14.28	4109.2 ppb	14.28	0.35%
Mo 202.031†	3569.3	472.80 ug/L	5.072	472.80 ppb	5.072	1.07%
Na 589.592 Radial†	9234.9	5615.3 ug/L	32.27	5615.3 ppb	32.27	0.57%
Ni 231.604†	11704.9	533.26 ug/L	5.370	533.26 ppb	5.370	1.01%
P 214.914†	1708.7	1643.7 ug/L	28.03	1643.7 ppb	28.03	1.71%
Pb 220.353†	2380.8	539.80 ug/L	5.601	539.80 ppb	5.601	1.04%
S 181.975 Axial†	2206.3	5660.4 ug/L	81.41	5660.4 ppb	81.41	1.44%
Sb 206.836†	696.6	418.80 ug/L	6.322	418.80 ppb	6.322	1.51%
Se 196.026†	178.4	526.07 ug/L	2.576	526.07 ppb	2.576	0.49%
Si 251.611†	191875.1	10260 ug/L	34.1	10260 ppb	34.1	0.33%
Sn 189.927†	1293.9	435.37 ug/L	2.639	435.37 ppb	2.639	0.61%
Sr 421.552†	65355.1	860.10 ug/L	6.454	860.10 ppb	6.454	0.75%
Ti 334.940†	1244330.3	2940.0 ug/L	6.99	2940.0 ppb	6.99	0.24%
Tl 190.801†	685.5	416.17 ug/L	5.710	416.17 ppb	5.710	1.37%
U 409.014†	6209.8	234.76 ug/L	5.651	234.76 ppb	5.651	2.41%
V 292.402†	51163.8	553.29 ug/L	1.179	553.29 ppb	1.179	0.21%
Zn 213.857†	64531.3	1093.0 ug/L	4.04	1093.0 ppb	4.04	0.37%
SiO2†	192390.4	21423 ug/L	145.9	21423 ppb	145.9	0.68%

Sequence No.: 8

Sample ID: 1202062398|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 4/12/2010 19:46:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062398|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2872.0	2872.0	110 %		19:48:25
1	Y RADIAL	3869.0	3869.0	132.6 %		19:48:05
1	Al 396.153Radial†	41843.4	38275.1	53537 ug/L	53537 ppb	19:48:05
1	Ca 317.933Radial†	10728.7	9782.8	32469 ug/L	32469 ppb	19:48:05
1	Fe 238.204 Radial†	3455.1	3148.0	80404 ug/L	80404 ppb	19:48:25
1	K 766.490 Radial†	66745.3	58489.5	15895 ug/L	15895 ppb	19:48:05
1	Mg 279.077 IEC†	206.6	188.5	14747 ug/L	14747 ppb	19:48:25
1	Na 589.592 Radial†	9176.7	9321.9	5668.2 ug/L	5668.2 ppb	19:48:05
1	Sr 421.552†	74663.0	68142.8	896.78 ug/L	896.78 ppb	19:48:05
1	Sc 361.383	648406.4	648406.4	108.08 %		19:49:23
1	Y 371.029	643200.3	643200.3	127.39 %		19:49:23
1	Ag 328.068†	73215.6	67660.4	490.66 ug/L	490.66 ppb	19:49:28
1	As 188.979†	643.5	613.1	520.72 ug/L	520.72 ppb	19:49:48
1	B 249.677†	15314.3	14508.7	545.60 ug/L	545.60 ppb	19:49:28
1	Ba 233.527†	81678.2	75561.2	1004.0 ug/L	1004.0 ppb	19:49:28
1	Be 313.107†	920634.5	855078.7	505.62 ug/L	505.62 ppb	19:49:23
1	Cd 226.502†	24546.4	22873.1	477.28 ug/L	477.28 ppb	19:49:28
1	Co 228.616†	13759.7	12760.1	474.81 ug/L	474.81 ppb	19:49:48
1	Cr 267.716†	34730.1	32055.9	627.78 ug/L	627.78 ppb	19:49:28
1	Cu 324.752†	143408.7	127522.3	567.15 ug/L	567.15 ppb	19:49:28
1	Mn 257.610†	2461932.6	2277541.2	4178.9 ug/L	4178.9 ppb	19:49:23
1	Mo 202.031†	3884.6	3582.9	474.73 ug/L	474.73 ppb	19:49:48
1	Ni 231.604†	13254.0	12185.5	555.18 ug/L	555.18 ppb	19:49:28
1	P 214.914†	2192.5	1866.5	1808.2 ug/L	1808.2 ppb	19:49:48
1	Pb 220.353†	2591.4	2441.8	553.57 ug/L	553.57 ppb	19:49:48
1	S 181.975 Axial†	2472.9	2265.4	5812.2 ug/L	5812.2 ppb	19:49:48
1	Sb 206.836†	798.8	713.6	428.73 ug/L	428.73 ppb	19:49:48
1	Se 196.026†	187.9	188.5	544.46 ug/L	544.46 ppb	19:49:48
1	Si 251.611†	231212.5	213569.4	11421 ug/L	11421 ppb	19:49:28
1	Sn 189.927†	1413.9	1301.3	438.45 ug/L	438.45 ppb	19:49:48
1	Ti 334.940†	1379661.4	1277571.3	3018.7 ug/L	3018.7 ppb	19:49:23
1	Tl 190.801†	707.3	681.4	414.85 ug/L	414.85 ppb	19:49:48
1	U 409.014†	6168.9	6985.7	265.74 ug/L	265.74 ppb	19:49:28
1	V 292.402†	55230.6	52349.4	566.04 ug/L	566.04 ppb	19:49:28
1	Zn 213.857†	77536.3	71232.9	1207.9 ug/L	1207.9 ppb	19:49:28
1	SiO2†	231157.8	213525.1	23777 ug/L	23777 ppb	19:50:56
2	Sc Radial	2854.0	2854.0	109 %		19:48:50
2	Y RADIAL	3924.4	3924.4	134.5 %		19:48:30
2	Al 396.153Radial†	41992.0	38653.2	54066 ug/L	54066 ppb	19:48:30
2	Ca 317.933Radial†	10722.8	9839.3	32657 ug/L	32657 ppb	19:48:30
2	Fe 238.204 Radial†	3434.0	3148.6	80418 ug/L	80418 ppb	19:48:50
2	K 766.490 Radial†	66855.6	58976.2	16028 ug/L	16028 ppb	19:48:30
2	Mg 279.077 IEC†	200.7	184.3	14414 ug/L	14414 ppb	19:48:50
2	Na 589.592 Radial†	9119.3	9322.2	5668.4 ug/L	5668.4 ppb	19:48:30
2	Sr 421.552†	74776.1	68677.8	903.82 ug/L	903.82 ppb	19:48:30
2	Sc 361.383	641844.9	641844.9	106.99 %		19:49:54
2	Y 371.029	635905.8	635905.8	125.94 %		19:49:54
2	Ag 328.068†	72996.5	68148.2	494.04 ug/L	494.04 ppb	19:49:59
2	As 188.979†	641.1	616.9	523.67 ug/L	523.67 ppb	19:50:19
2	B 249.677†	15209.2	14555.2	547.40 ug/L	547.40 ppb	19:49:59
2	Ba 233.527†	81768.7	76418.3	1015.3 ug/L	1015.3 ppb	19:49:59
2	Be 313.107†	908354.8	852308.9	503.99 ug/L	503.99 ppb	19:49:54
2	Cd 226.502†	24513.4	23074.4	481.56 ug/L	481.56 ppb	19:49:59
2	Co 228.616†	13631.3	12770.3	475.21 ug/L	475.21 ppb	19:50:19
2	Cr 267.716†	34696.3	32352.9	633.47 ug/L	633.47 ppb	19:49:59
2	Cu 324.752†	143024.8	128519.9	571.55 ug/L	571.55 ppb	19:49:59
2	Mn 257.610†	2434162.7	2274871.5	4174.0 ug/L	4174.0 ppb	19:49:54
2	Mo 202.031†	3850.7	3588.0	475.40 ug/L	475.40 ppb	19:50:19
2	Ni 231.604†	13300.9	12354.6	562.90 ug/L	562.90 ppb	19:49:59

2	P 214.914†	2171.3	1867.5	1808.3 ug/L	1808.3 ppb	19:50:19
2	Pb 220.353†	2583.7	2459.1	557.59 ug/L	557.59 ppb	19:50:19
2	S 181.975 Axial†	2446.5	2264.1	5808.7 ug/L	5808.7 ppb	19:50:19
2	Sb 206.836†	786.9	710.1	426.76 ug/L	426.76 ppb	19:50:19
2	Se 196.026†	184.9	187.5	543.25 ug/L	543.25 ppb	19:50:19
2	Si 251.611†	231069.8	215623.0	11531 ug/L	11531 ppb	19:49:59
2	Sn 189.927†	1414.4	1315.1	443.06 ug/L	443.06 ppb	19:50:19
2	Ti 334.940†	1363211.9	1275245.8	3013.2 ug/L	3013.2 ppb	19:49:54
2	Tl 190.801†	710.1	690.7	419.89 ug/L	419.89 ppb	19:50:19
2	U 409.014†	6271.9	7140.3	271.98 ug/L	271.98 ppb	19:49:59
2	V 292.402†	55211.0	52853.4	571.57 ug/L	571.57 ppb	19:49:59
2	Zn 213.857†	77398.2	71837.2	1218.2 ug/L	1218.2 ppb	19:49:59
2	SiO2†	229915.5	214550.4	23891 ug/L	23891 ppb	19:51:01
3	Sc Radial	2835.4	2835.4	108 %		19:49:16
3	Y RADIAL	3852.6	3852.6	132.0 %		19:48:56
3	Al 396.153Radial†	41467.0	38420.8	53741 ug/L	53741 ppb	19:48:56
3	Ca 317.933Radial†	10607.5	9797.2	32517 ug/L	32517 ppb	19:48:56
3	Fe 238.204 Radial†	3396.0	3134.2	80051 ug/L	80051 ppb	19:49:16
3	K 766.490 Radial†	65862.3	58460.5	15888 ug/L	15888 ppb	19:48:56
3	Mg 279.077 IEC†	200.8	185.6	14517 ug/L	14517 ppb	19:49:16
3	Na 589.592 Radial†	8936.0	9207.6	5598.7 ug/L	5598.7 ppb	19:48:56
3	Sr 421.552†	73498.3	67946.7	894.20 ug/L	894.20 ppb	19:48:56
3	Sc 361.383	637681.1	637681.1	106.29 %		19:50:25
3	Y 371.029	634235.8	634235.8	125.61 %		19:50:25
3	Ag 328.068†	73353.4	68929.5	499.34 ug/L	499.34 ppb	19:50:30
3	As 188.979†	635.2	615.3	522.32 ug/L	522.32 ppb	19:50:50
3	B 249.677†	15315.7	14748.2	554.90 ug/L	554.90 ppb	19:50:30
3	Ba 233.527†	81571.9	76732.2	1019.5 ug/L	1019.5 ppb	19:50:30
3	Be 313.107†	905035.5	854730.0	505.40 ug/L	505.40 ppb	19:50:25
3	Cd 226.502†	24435.2	23150.4	483.22 ug/L	483.22 ppb	19:50:30
3	Co 228.616†	13556.1	12782.7	475.69 ug/L	475.69 ppb	19:50:50
3	Cr 267.716†	34878.6	32736.1	640.75 ug/L	640.75 ppb	19:50:30
3	Cu 324.752†	143512.8	129851.9	577.39 ug/L	577.39 ppb	19:50:30
3	Mn 257.610†	2413048.0	2269862.9	4164.8 ug/L	4164.8 ppb	19:50:25
3	Mo 202.031†	3849.7	3610.5	478.32 ug/L	478.32 ppb	19:50:50
3	Ni 231.604†	13290.9	12426.5	566.18 ug/L	566.18 ppb	19:50:30
3	P 214.914†	2161.3	1871.3	1811.4 ug/L	1811.4 ppb	19:50:50
3	Pb 220.353†	2550.0	2443.2	553.97 ug/L	553.97 ppb	19:50:50
3	S 181.975 Axial†	2422.9	2256.8	5790.1 ug/L	5790.1 ppb	19:50:50
3	Sb 206.836†	795.7	723.1	434.48 ug/L	434.48 ppb	19:50:50
3	Se 196.026†	175.6	179.9	532.67 ug/L	532.67 ppb	19:50:50
3	Si 251.611†	231052.8	217017.3	11605 ug/L	11605 ppb	19:50:30
3	Sn 189.927†	1395.4	1305.9	439.98 ug/L	439.98 ppb	19:50:50
3	Ti 334.940†	1353378.3	1274314.3	3011.0 ug/L	3011.0 ppb	19:50:25
3	Tl 190.801†	698.5	684.2	416.21 ug/L	416.21 ppb	19:50:50
3	U 409.014†	6200.1	7111.0	270.85 ug/L	270.85 ppb	19:50:30
3	V 292.402†	55440.5	53406.4	577.71 ug/L	577.71 ppb	19:50:30
3	Zn 213.857†	77393.1	72304.8	1226.3 ug/L	1226.3 ppb	19:50:30
3	SiO2†	230191.6	216213.3	24077 ug/L	24077 ppb	19:51:07

Mean Data: 1202062398|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	642644.1	107.12 %	0.901			0.84%
Sc Radial	2853.8	109 %	0.7			0.64%
Y 371.029	637780.6	126.31 %	0.944			0.75%
Y RADIAL	3882.0	133.0 %	1.29			0.97%
Ag 328.068†	68246.1	494.68 ug/L	4.379	494.68 ppb	4.379	0.89%
Al 396.153Radial†	38449.7	53781 ug/L	266.8	53781 ppb	266.8	0.50%
As 188.979†	615.1	522.24 ug/L	1.476	522.24 ppb	1.476	0.28%
B 249.677†	14604.0	549.30 ug/L	4.935	549.30 ppb	4.935	0.90%
Ba 233.527†	76237.3	1012.9 ug/L	8.02	1012.9 ppb	8.02	0.79%
Be 313.107†	854039.2	505.00 ug/L	0.883	505.00 ppb	0.883	0.17%
Ca 317.933Radial†	9806.4	32548 ug/L	97.4	32548 ppb	97.4	0.30%
Cd 226.502†	23032.7	480.69 ug/L	3.064	480.69 ppb	3.064	0.64%
Co 228.616†	12771.0	475.24 ug/L	0.441	475.24 ppb	0.441	0.09%
Cr 267.716†	32381.6	634.00 ug/L	6.500	634.00 ppb	6.500	1.03%
Cu 324.752†	128631.4	572.03 ug/L	5.134	572.03 ppb	5.134	0.90%
Fe 238.204 Radial†	3143.6	80291 ug/L	208.1	80291 ppb	208.1	0.26%
K 766.490 Radial†	58642.1	15937 ug/L	78.8	15937 ppb	78.8	0.49%

Mg 279.077 IEC†	186.1	14560 ug/L	170.6	14560 ppb	170.6	1.17%
Mn 257.610†	2274091.9	4172.6 ug/L	7.16	4172.6 ppb	7.16	0.17%
Mo 202.031†	3593.8	476.15 ug/L	1.908	476.15 ppb	1.908	0.40%
Na 589.592 Radial†	9283.9	5645.1 ug/L	40.18	5645.1 ppb	40.18	0.71%
Ni 231.604†	12322.2	561.42 ug/L	5.646	561.42 ppb	5.646	1.01%
P 214.914†	1868.4	1809.3 ug/L	1.78	1809.3 ppb	1.78	0.10%
Pb 220.353†	2448.0	555.04 ug/L	2.213	555.04 ppb	2.213	0.40%
S 181.975 Axial†	2262.1	5803.7 ug/L	11.87	5803.7 ppb	11.87	0.20%
Sb 206.836†	715.6	429.99 ug/L	4.010	429.99 ppb	4.010	0.93%
Se 196.026†	185.3	540.13 ug/L	6.486	540.13 ppb	6.486	1.20%
Si 251.611†	215403.2	11519 ug/L	92.8	11519 ppb	92.8	0.81%
Sn 189.927†	1307.5	440.50 ug/L	2.344	440.50 ppb	2.344	0.53%
Sr 421.552†	68255.8	898.27 ug/L	4.981	898.27 ppb	4.981	0.55%
Ti 334.940†	1275710.5	3014.3 ug/L	3.95	3014.3 ppb	3.95	0.13%
Tl 190.801†	685.5	416.98 ug/L	2.609	416.98 ppb	2.609	0.63%
U 409.014†	7079.0	269.52 ug/L	3.325	269.52 ppb	3.325	1.23%
V 292.402†	52869.7	571.77 ug/L	5.835	571.77 ppb	5.835	1.02%
Zn 213.857†	71791.7	1217.5 ug/L	9.23	1217.5 ppb	9.23	0.76%
SiO2†	214762.9	23915 ug/L	151.1	23915 ppb	151.1	0.63%

Sequence No.: 9

Sample ID: 1202062397|973758|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 4/12/2010 19:53:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062397|973758|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2841.7	2841.7	108 %		19:55:30
1	Y RADIAL	3323.8	3323.8	113.9 %		19:55:10
1	Al 396.153Radial†	4223.4	3973.1	5559.7 ug/L	5559.7 ppb	19:55:10
1	Ca 317.933Radial†	1618.8	1482.1	4919.1 ug/L	4919.1 ppb	19:55:30
1	Fe 238.204 Radial†	610.8	557.4	14234 ug/L	14234 ppb	19:55:30
1	K 766.490 Radial†	9344.5	6179.6	1679.1 ug/L	1679.1 ppb	19:55:10
1	Mg 279.077 IEC†	20.0	18.3	1424.7 ug/L	1424.7 ppb	19:55:30
1	Na 589.592 Radial†	-803.0	203.6	123.80 ug/L	123.80 ppb	19:55:10
1	Sr 421.552†	5497.7	5055.5	66.514 ug/L	66.514 ppb	19:55:10
1	Sc 361.383	624120.1	624120.1	104.03 %		19:56:27
1	Y 371.029	542238.4	542238.4	107.39 %		19:56:27
1	Ag 328.068†	-497.0	-559.6	0.2051 ug/L	0.2051 ppb	19:56:27
1	As 188.979†	-14.2	4.0	9.6743 ug/L	9.6743 ppb	19:56:47
1	B 249.677†	246.9	576.5	19.929 ug/L	19.929 ppb	19:56:27
1	Ba 233.527†	7299.4	7005.4	93.261 ug/L	93.261 ppb	19:56:27
1	Be 313.107†	-3417.3	-18.2	1.0366 ug/L	1.0366 ppb	19:56:27
1	Cd 226.502†	-68.7	95.6	0.4504 ug/L	0.4504 ppb	19:56:47
1	Co 228.616†	80.8	106.7	2.8855 ug/L	2.8855 ppb	19:56:47
1	Cr 267.716†	896.5	783.9	17.477 ug/L	17.477 ppb	19:56:47
1	Cu 324.752†	7009.6	1572.1	7.9626 ug/L	7.9626 ppb	19:56:27
1	Mn 257.610†	413885.7	397498.7	729.41 ug/L	729.41 ppb	19:56:27
1	Mo 202.031†	8.1	-3.5	0.6350 ug/L	0.6350 ppb	19:56:47
1	Ni 231.604†	343.0	252.0	11.410 ug/L	11.410 ppb	19:56:47
1	P 214.914†	397.1	219.7	221.40 ug/L	221.40 ppb	19:56:47
1	Pb 220.353†	34.3	77.1	16.864 ug/L	16.864 ppb	19:56:47
1	S 181.975 Axial†	90.9	64.7	165.07 ug/L	165.07 ppb	19:56:47
1	Sb 206.836†	27.0	0.5	-1.2808 ug/L	-1.2808 ppb	19:56:47
1	Se 196.026†	-61.6	-44.6	2.2365 ug/L	2.2365 ppb	19:56:47
1	Si 251.611†	33108.8	31467.1	1683.6 ug/L	1683.6 ppb	19:56:27
1	Sn 189.927†	-32.4	-38.0	-11.171 ug/L	-11.171 ppb	19:56:47
1	Ti 334.940†	202166.5	195379.4	461.77 ug/L	461.77 ppb	19:56:27
1	Tl 190.801†	-38.4	-9.9	1.5079 ug/L	1.5079 ppb	19:56:47
1	U 409.014†	-2223.0	-858.9	-37.536 ug/L	-37.536 ppb	19:56:27
1	V 292.402†	237.5	1475.9	13.726 ug/L	13.726 ppb	19:56:27
1	Zn 213.857†	7939.3	7124.5	120.13 ug/L	120.13 ppb	19:56:27
1	SiO2†	34131.3	32456.2	3616.1 ug/L	3616.1 ppb	19:57:43
2	Sc Radial	2833.0	2833.0	108 %		19:55:55
2	Y RADIAL	3336.9	3336.9	114.4 %		19:55:35
2	Al 396.153Radial†	4247.3	4007.2	5607.4 ug/L	5607.4 ppb	19:55:35
2	Ca 317.933Radial†	1620.4	1488.2	4939.4 ug/L	4939.4 ppb	19:55:55
2	Fe 238.204 Radial†	609.4	557.9	14246 ug/L	14246 ppb	19:55:55
2	K 766.490 Radial†	9554.7	6400.6	1739.3 ug/L	1739.3 ppb	19:55:35
2	Mg 279.077 IEC†	19.7	18.1	1406.7 ug/L	1406.7 ppb	19:55:55
2	Na 589.592 Radial†	-832.9	173.6	105.58 ug/L	105.58 ppb	19:55:35
2	Sr 421.552†	5471.4	5046.7	66.398 ug/L	66.398 ppb	19:55:35
2	Sc 361.383	613054.6	613054.6	102.19 %		19:56:52
2	Y 371.029	533507.8	533507.8	105.66 %		19:56:52
2	Ag 328.068†	-390.4	-463.9	0.8730 ug/L	0.8730 ppb	19:56:52
2	As 188.979†	-20.9	-2.7	4.3837 ug/L	4.3837 ppb	19:57:12
2	B 249.677†	144.2	480.3	16.212 ug/L	16.212 ppb	19:56:52
2	Ba 233.527†	7152.9	6988.7	93.040 ug/L	93.040 ppb	19:56:52
2	Be 313.107†	-3332.6	5.4	1.0514 ug/L	1.0514 ppb	19:56:52
2	Cd 226.502†	-63.3	99.7	0.5370 ug/L	0.5370 ppb	19:57:12
2	Co 228.616†	88.6	115.7	3.2269 ug/L	3.2269 ppb	19:57:12
2	Cr 267.716†	913.3	815.8	18.093 ug/L	18.093 ppb	19:57:12
2	Cu 324.752†	6910.2	1596.5	8.0743 ug/L	8.0743 ppb	19:56:52
2	Mn 257.610†	406362.1	397317.1	729.08 ug/L	729.08 ppb	19:56:52
2	Mo 202.031†	11.3	-0.3	1.0584 ug/L	1.0584 ppb	19:57:12
2	Ni 231.604†	382.1	296.2	13.429 ug/L	13.429 ppb	19:57:12

2	P 214.914†	387.3	216.9	218.41 ug/L	218.41 ppb	19:57:12
2	Pb 220.353†	32.3	75.7	16.554 ug/L	16.554 ppb	19:57:12
2	S 181.975 Axial†	92.1	67.4	172.12 ug/L	172.12 ppb	19:57:12
2	Sb 206.836†	17.4	-8.5	-6.5347 ug/L	-6.5347 ppb	19:57:12
2	Se 196.026†	-61.2	-45.2	1.5526 ug/L	1.5526 ppb	19:57:12
2	Si 251.611†	32511.7	31457.2	1683.0 ug/L	1683.0 ppb	19:56:52
2	Sn 189.927†	-25.5	-31.8	-9.1192 ug/L	-9.1192 ppb	19:57:12
2	Ti 334.940†	198775.2	195568.3	462.22 ug/L	462.22 ppb	19:56:52
2	Tl 190.801†	-40.0	-12.1	0.2847 ug/L	0.2847 ppb	19:57:12
2	U 409.014†	-2354.5	-1026.2	-44.308 ug/L	-44.308 ppb	19:56:52
2	V 292.402†	232.1	1474.7	13.704 ug/L	13.704 ppb	19:56:52
2	Zn 213.857†	7748.3	7075.3	119.27 ug/L	119.27 ppb	19:56:52
2	SiO2†	34076.7	32995.0	3676.2 ug/L	3676.2 ppb	19:57:48
3	Sc Radial	2796.0	2796.0	107 %		19:56:20
3	Y RADIAL	3329.8	3329.8	114.1 %		19:56:00
3	Al 396.153Radial†	4210.5	4024.6	5631.7 ug/L	5631.7 ppb	19:56:00
3	Ca 317.933Radial†	1605.1	1493.6	4957.4 ug/L	4957.4 ppb	19:56:20
3	Fe 238.204 Radial†	598.4	555.0	14173 ug/L	14173 ppb	19:56:20
3	K 766.490 Radial†	9346.7	6322.4	1718.0 ug/L	1718.0 ppb	19:56:00
3	Mg 279.077 IEC†	21.0	19.5	1519.0 ug/L	1519.0 ppb	19:56:20
3	Na 589.592 Radial†	-820.4	175.2	106.56 ug/L	106.56 ppb	19:56:00
3	Sr 421.552†	5447.8	5091.5	66.987 ug/L	66.987 ppb	19:56:00
3	Sc 361.383	616706.4	616706.4	102.80 %		19:57:18
3	Y 371.029	536787.0	536787.0	106.31 %		19:57:18
3	Ag 328.068†	-431.4	-501.6	0.5914 ug/L	0.5914 ppb	19:57:18
3	As 188.979†	-14.3	3.8	9.4836 ug/L	9.4836 ppb	19:57:38
3	B 249.677†	183.7	517.9	17.676 ug/L	17.676 ppb	19:57:18
3	Ba 233.527†	7187.9	6981.3	92.941 ug/L	92.941 ppb	19:57:18
3	Be 313.107†	-3367.2	-8.9	1.0453 ug/L	1.0453 ppb	19:57:18
3	Cd 226.502†	-63.5	99.9	0.5483 ug/L	0.5483 ppb	19:57:38
3	Co 228.616†	87.9	114.5	3.1800 ug/L	3.1800 ppb	19:57:38
3	Cr 267.716†	909.9	807.2	17.915 ug/L	17.915 ppb	19:57:38
3	Cu 324.752†	6933.4	1579.0	7.9899 ug/L	7.9899 ppb	19:57:18
3	Mn 257.610†	409538.9	398052.7	730.41 ug/L	730.41 ppb	19:57:18
3	Mo 202.031†	14.2	2.5	1.4140 ug/L	1.4140 ppb	19:57:38
3	Ni 231.604†	371.7	283.9	12.867 ug/L	12.867 ppb	19:57:38
3	P 214.914†	395.0	222.1	224.13 ug/L	224.13 ppb	19:57:38
3	Pb 220.353†	25.6	69.1	15.073 ug/L	15.073 ppb	19:57:38
3	S 181.975 Axial†	87.2	62.1	158.47 ug/L	158.47 ppb	19:57:38
3	Sb 206.836†	19.1	-6.8	-5.5668 ug/L	-5.5668 ppb	19:57:38
3	Se 196.026†	-62.8	-46.4	-0.1877 ug/L	-0.1877 ppb	19:57:38
3	Si 251.611†	32756.9	31507.3	1685.7 ug/L	1685.7 ppb	19:57:18
3	Sn 189.927†	-23.3	-29.6	-8.3830 ug/L	-8.3830 ppb	19:57:38
3	Ti 334.940†	200376.4	195974.2	463.17 ug/L	463.17 ppb	19:57:18
3	Tl 190.801†	-35.7	-7.6	2.7611 ug/L	2.7611 ppb	19:57:38
3	U 409.014†	-2286.8	-946.7	-41.078 ug/L	-41.078 ppb	19:57:18
3	V 292.402†	266.4	1506.7	14.076 ug/L	14.076 ppb	19:57:18
3	Zn 213.857†	7868.3	7147.2	120.53 ug/L	120.53 ppb	19:57:18
3	SiO2†	33670.7	32402.6	3610.1 ug/L	3610.1 ppb	19:57:53

Mean Data: 1202062397|973758|5

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	617960.4	103.00	%	0.940				0.91%
Sc Radial	2823.5	108	%	0.9				0.86%
Y 371.029	537511.1	106.46	%	0.873				0.82%
Y RADIAL	3330.2	114.1	%	0.22				0.20%
Ag 328.068†	-508.4	0.5565	ug/L	0.33534	0.5565	ppb	0.33534	60.26%
Al 396.153Radial†	4001.6	5599.6	ug/L	36.63	5599.6	ppb	36.63	0.65%
As 188.979†	1.7	7.8472	ug/L	3.00100	7.8472	ppb	3.00100	38.24%
B 249.677†	524.9	17.939	ug/L	1.8720	17.939	ppb	1.8720	10.44%
Ba 233.527†	6991.8	93.080	ug/L	0.1638	93.080	ppb	0.1638	0.18%
Be 313.107†	-7.2	1.0444	ug/L	0.00742	1.0444	ppb	0.00742	0.71%
Ca 317.933Radial†	1488.0	4938.6	ug/L	19.15	4938.6	ppb	19.15	0.39%
Cd 226.502†	98.4	0.5119	ug/L	0.05356	0.5119	ppb	0.05356	10.46%
Co 228.616†	112.3	3.0975	ug/L	0.18508	3.0975	ppb	0.18508	5.98%
Cr 267.716†	802.3	17.828	ug/L	0.3168	17.828	ppb	0.3168	1.78%
Cu 324.752†	1582.5	8.0089	ug/L	0.05823	8.0089	ppb	0.05823	0.73%
Fe 238.204 Radial†	556.8	14218	ug/L	39.1	14218	ppb	39.1	0.27%
K 766.490 Radial†	6300.8	1712.1	ug/L	30.48	1712.1	ppb	30.48	1.78%

Mg 279.077 IEC†	18.6	1450.1 ug/L	60.30	1450.1 ppb	60.30	4.16%
Mn 257.610†	397622.8	729.63 ug/L	0.694	729.63 ppb	0.694	0.10%
Mo 202.031†	-0.5	1.0358 ug/L	0.39001	1.0358 ppb	0.39001	37.65%
Na 589.592 Radial†	184.2	111.98 ug/L	10.252	111.98 ppb	10.252	9.16%
Ni 231.604†	277.4	12.569 ug/L	1.0419	12.569 ppb	1.0419	8.29%
P 214.914†	219.6	221.31 ug/L	2.862	221.31 ppb	2.862	1.29%
Pb 220.353†	74.0	16.164 ug/L	0.9570	16.164 ppb	0.9570	5.92%
S 181.975 Axial†	64.8	165.22 ug/L	6.824	165.22 ppb	6.824	4.13%
Sb 206.836†	-4.9	-4.4607 ug/L	2.79612	-4.4607 ppb	2.79612	62.68%
Se 196.026†	-45.4	1.2005 ug/L	1.24988	1.2005 ppb	1.24988	104.11%
Si 251.611†	31477.2	1684.1 ug/L	1.42	1684.1 ppb	1.42	0.08%
Sn 189.927†	-33.1	-9.5578 ug/L	1.44496	-9.5578 ppb	1.44496	15.12%
Sr 421.552†	5064.6	66.633 ug/L	0.3121	66.633 ppb	0.3121	0.47%
Ti 334.940†	195640.6	462.39 ug/L	0.716	462.39 ppb	0.716	0.15%
Tl 190.801†	-9.9	1.5179 ug/L	1.23821	1.5179 ppb	1.23821	81.57%
U 409.014†	-943.9	-40.974 ug/L	3.3870	-40.974 ppb	3.3870	8.27%
V 292.402†	1485.8	13.835 ug/L	0.2086	13.835 ppb	0.2086	1.51%
Zn 213.857†	7115.7	119.98 ug/L	0.641	119.98 ppb	0.641	0.53%
SiO2†	32618.0	3634.1 ug/L	36.51	3634.1 ppb	36.51	1.00%

Sequence No.: 10
 Sample ID: 248511002|973758|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 45
 Date Collected: 4/12/2010 20:00:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511002|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2834.6	2834.6	108 %		20:02:17
1	Y RADIAL	3675.3	3675.3	126.0 %		20:01:57
1	Al 396.153Radial†	23943.6	22223.2	31098 ug/L	31098 ppb	20:01:57
1	Ca 317.933Radial†	4565.7	4211.6	13978 ug/L	13978 ppb	20:01:57
1	Fe 238.204 Radial†	3347.3	3090.0	78907 ug/L	78907 ppb	20:02:17
1	K 766.490 Radial†	23937.0	19698.5	5353.0 ug/L	5353.0 ppb	20:01:57
1	Mg 279.077 IEC†	103.3	95.4	7422.5 ug/L	7422.5 ppb	20:02:17
1	Na 589.592 Radial†	-21.6	924.5	562.15 ug/L	562.15 ppb	20:01:57
1	Sr 421.552†	9916.7	9155.6	120.42 ug/L	120.42 ppb	20:01:57
1	Sc 361.383	636531.7	636531.7	106.10 %		20:03:14
1	Y 371.029	607208.8	607208.8	120.26 %		20:03:14
1	Ag 328.068†	-3206.4	-3103.9	1.3285 ug/L	1.3285 ppb	20:03:14
1	As 188.979†	-30.0	-10.6	28.409 ug/L	28.409 ppb	20:03:34
1	B 249.677†	382.3	699.5	14.120 ug/L	14.120 ppb	20:03:14
1	Ba 233.527†	36059.7	33975.3	452.76 ug/L	452.76 ppb	20:03:14
1	Be 313.107†	-9577.9	-5760.5	2.5994 ug/L	2.5994 ppb	20:03:14
1	Cd 226.502†	285.9	431.1	0.3956 ug/L	0.3956 ppb	20:03:34
1	Co 228.616†	606.3	600.5	16.182 ug/L	16.182 ppb	20:03:34
1	Cr 267.716†	3603.7	3318.6	77.240 ug/L	77.240 ppb	20:03:34
1	Cu 324.752†	15567.4	9506.5	47.603 ug/L	47.603 ppb	20:03:14
1	Mn 257.610†	1259388.2	1186631.7	2181.7 ug/L	2181.7 ppb	20:03:14
1	Mo 202.031†	0.4	-11.0	4.3627 ug/L	4.3627 ppb	20:03:34
1	Ni 231.604†	1075.9	936.3	42.242 ug/L	42.242 ppb	20:03:34
1	P 214.914†	812.4	603.6	568.49 ug/L	568.49 ppb	20:03:34
1	Pb 220.353†	365.9	389.0	84.585 ug/L	84.585 ppb	20:03:34
1	S 181.975 Axial†	242.5	205.9	522.06 ug/L	522.06 ppb	20:03:34
1	Sb 206.836†	44.1	16.1	1.3148 ug/L	1.3148 ppb	20:03:34
1	Se 196.026†	-257.8	-228.3	35.142 ug/L	35.142 ppb	20:03:34
1	Si 251.611†	116589.5	109527.5	5860.0 ug/L	5860.0 ppb	20:03:14
1	Sn 189.927†	-66.6	-69.7	-18.630 ug/L	-18.630 ppb	20:03:34
1	Ti 334.940†	1178524.5	1111812.8	2626.1 ug/L	2626.1 ppb	20:03:14
1	Tl 190.801†	-85.3	-53.4	0.7375 ug/L	0.7375 ppb	20:03:34
1	U 409.014†	-5281.2	-3699.6	-165.08 ug/L	-165.08 ppb	20:03:14
1	V 292.402†	8676.2	9425.0	89.713 ug/L	89.713 ppb	20:03:14
1	Zn 213.857†	24623.2	22700.3	377.15 ug/L	377.15 ppb	20:03:14
1	SiO2†	119341.6	112127.7	12493 ug/L	12493 ppb	20:04:31
2	Sc Radial	2860.4	2860.4	109 %		20:02:42
2	Y RADIAL	3667.7	3667.7	125.7 %		20:02:22
2	Al 396.153Radial†	23800.3	21892.2	30634 ug/L	30634 ppb	20:02:22
2	Ca 317.933Radial†	4554.5	4163.2	13818 ug/L	13818 ppb	20:02:22
2	Fe 238.204 Radial†	3320.9	3037.9	77577 ug/L	77577 ppb	20:02:42
2	K 766.490 Radial†	23652.1	19237.7	5227.7 ug/L	5227.7 ppb	20:02:22
2	Mg 279.077 IEC†	96.9	88.7	6896.1 ug/L	6896.1 ppb	20:02:42
2	Na 589.592 Radial†	-2.9	941.9	572.70 ug/L	572.70 ppb	20:02:22
2	Sr 421.552†	9854.3	9015.6	118.58 ug/L	118.58 ppb	20:02:22
2	Sc 361.383	635333.5	635333.5	105.90 %		20:03:40
2	Y 371.029	606350.4	606350.4	120.09 %		20:03:40
2	Ag 328.068†	-3216.4	-3119.1	0.8460 ug/L	0.8460 ppb	20:03:40
2	As 188.979†	-30.5	-11.1	27.742 ug/L	27.742 ppb	20:04:00
2	B 249.677†	370.2	688.7	13.922 ug/L	13.922 ppb	20:03:40
2	Ba 233.527†	35996.8	33980.0	452.77 ug/L	452.77 ppb	20:03:40
2	Be 313.107†	-9534.2	-5736.3	2.6095 ug/L	2.6095 ppb	20:03:40
2	Cd 226.502†	294.9	440.1	0.7344 ug/L	0.7344 ppb	20:04:00
2	Co 228.616†	614.5	609.3	16.540 ug/L	16.540 ppb	20:04:00
2	Cr 267.716†	3603.9	3325.2	77.137 ug/L	77.137 ppb	20:04:00
2	Cu 324.752†	15503.8	9474.1	47.362 ug/L	47.362 ppb	20:03:40
2	Mn 257.610†	1256584.7	1186223.0	2180.8 ug/L	2180.8 ppb	20:03:40
2	Mo 202.031†	10.6	-1.3	5.5323 ug/L	5.5323 ppb	20:04:00
2	Ni 231.604†	1073.4	935.9	42.229 ug/L	42.229 ppb	20:04:00

2	P 214.914†	819.7	612.0	578.68 ug/L	578.68 ppb	20:04:00
2	Pb 220.353†	354.4	378.8	82.367 ug/L	82.367 ppb	20:04:00
2	S 181.975 Axial†	234.7	198.9	504.35 ug/L	504.35 ppb	20:04:00
2	Sb 206.836†	38.8	11.2	-1.5734 ug/L	-1.5734 ppb	20:04:00
2	Se 196.026†	-256.4	-227.5	30.915 ug/L	30.915 ppb	20:04:00
2	Si 251.611†	116116.3	109287.9	5847.2 ug/L	5847.2 ppb	20:03:40
2	Sn 189.927†	-64.6	-67.8	-18.084 ug/L	-18.084 ppb	20:04:00
2	Ti 334.940†	1175513.4	1111064.3	2624.4 ug/L	2624.4 ppb	20:03:40
2	Tl 190.801†	-83.4	-51.7	1.6411 ug/L	1.6411 ppb	20:04:00
2	U 409.014†	-5183.7	-3617.0	-161.48 ug/L	-161.48 ppb	20:03:40
2	V 292.402†	8648.8	9414.5	89.790 ug/L	89.790 ppb	20:03:40
2	Zn 213.857†	24626.3	22747.0	378.18 ug/L	378.18 ppb	20:03:40
2	SiO2†	118072.7	111141.6	12383 ug/L	12383 ppb	20:04:36
3	Sc Radial	2794.1	2794.1	107 %		20:03:07
3	Y RADIAL	3710.9	3710.9	127.2 %		20:02:47
3	Al 396.153Radial†	23721.0	22335.6	31255 ug/L	31255 ppb	20:02:47
3	Ca 317.933Radial†	4533.4	4242.6	14081 ug/L	14081 ppb	20:02:47
3	Fe 238.204 Radial†	3295.5	3086.3	78814 ug/L	78814 ppb	20:03:07
3	K 766.490 Radial†	23762.6	19856.0	5395.8 ug/L	5395.8 ppb	20:02:47
3	Mg 279.077 IEC†	104.0	97.5	7584.5 ug/L	7584.5 ppb	20:03:07
3	Na 589.592 Radial†	-43.5	903.7	549.47 ug/L	549.47 ppb	20:02:47
3	Sr 421.552†	9860.7	9236.0	121.48 ug/L	121.48 ppb	20:02:47
3	Sc 361.383	633547.4	633547.4	105.60 %		20:04:06
3	Y 371.029	603937.3	603937.3	119.61 %		20:04:06
3	Ag 328.068†	-3209.7	-3121.3	1.1824 ug/L	1.1824 ppb	20:04:06
3	As 188.979†	-40.2	-20.4	20.709 ug/L	20.709 ppb	20:04:26
3	B 249.677†	436.6	752.6	16.184 ug/L	16.184 ppb	20:04:06
3	Ba 233.527†	35849.7	33936.5	452.24 ug/L	452.24 ppb	20:04:06
3	Be 313.107†	-9504.3	-5733.3	2.6145 ug/L	2.6145 ppb	20:04:06
3	Cd 226.502†	296.0	441.9	0.6347 ug/L	0.6347 ppb	20:04:26
3	Co 228.616†	629.7	625.3	17.119 ug/L	17.119 ppb	20:04:26
3	Cr 267.716†	3614.4	3344.7	77.724 ug/L	77.724 ppb	20:04:26
3	Cu 324.752†	15528.5	9538.8	47.739 ug/L	47.739 ppb	20:04:06
3	Mn 257.610†	1252994.1	1186167.9	2180.8 ug/L	2180.8 ppb	20:04:06
3	Mo 202.031†	4.1	-7.4	4.8254 ug/L	4.8254 ppb	20:04:26
3	Ni 231.604†	1072.2	937.6	42.300 ug/L	42.300 ppb	20:04:26
3	P 214.914†	813.6	608.3	573.69 ug/L	573.69 ppb	20:04:26
3	Pb 220.353†	353.1	378.5	82.276 ug/L	82.276 ppb	20:04:26
3	S 181.975 Axial†	244.6	208.9	529.91 ug/L	529.91 ppb	20:04:26
3	Sb 206.836†	40.3	12.7	-0.6917 ug/L	-0.6917 ppb	20:04:26
3	Se 196.026†	-271.7	-242.7	17.492 ug/L	17.492 ppb	20:04:26
3	Si 251.611†	115870.4	109364.2	5851.3 ug/L	5851.3 ppb	20:04:06
3	Sn 189.927†	-60.4	-64.1	-16.756 ug/L	-16.756 ppb	20:04:26
3	Ti 334.940†	1172853.9	1111675.2	2625.8 ug/L	2625.8 ppb	20:04:06
3	Tl 190.801†	-92.7	-60.8	-3.3453 ug/L	-3.3453 ppb	20:04:26
3	U 409.014†	-5305.6	-3746.2	-166.95 ug/L	-166.95 ppb	20:04:06
3	V 292.402†	8630.7	9420.4	89.681 ug/L	89.681 ppb	20:04:06
3	Zn 213.857†	24501.4	22694.3	377.06 ug/L	377.06 ppb	20:04:06
3	SiO2†	118103.3	111484.9	12421 ug/L	12421 ppb	20:04:41

Mean Data: 248511002|973758|1

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	635137.5	105.87	%	0.250			0.24%
Sc Radial	2829.7	108	%	1.3			1.18%
Y 371.029	605832.2	119.99	%	0.336			0.28%
Y RADIAL	3684.7	126.3	%	0.79			0.63%
Ag 328.068†	-3114.8	1.1190	ug/L	0.24742	1.1190 ppb	0.24742	22.11%
Al 396.153Radial†	22150.3	30996	ug/L	322.6	30996 ppb	322.6	1.04%
As 188.979†	-14.0	25.620	ug/L	4.2661	25.620 ppb	4.2661	16.65%
B 249.677†	713.6	14.742	ug/L	1.2529	14.742 ppb	1.2529	8.50%
Ba 233.527†	33964.0	452.59	ug/L	0.301	452.59 ppb	0.301	0.07%
Be 313.107†	-5743.4	2.6078	ug/L	0.00770	2.6078 ppb	0.00770	0.30%
Ca 317.933Radial†	4205.8	13959	ug/L	132.7	13959 ppb	132.7	0.95%
Cd 226.502†	437.7	0.5882	ug/L	0.17410	0.5882 ppb	0.17410	29.60%
Co 228.616†	611.7	16.614	ug/L	0.4726	16.614 ppb	0.4726	2.84%
Cr 267.716†	3329.5	77.367	ug/L	0.3137	77.367 ppb	0.3137	0.41%
Cu 324.752†	9506.5	47.568	ug/L	0.1906	47.568 ppb	0.1906	0.40%
Fe 238.204 Radial†	3071.4	78433	ug/L	742.2	78433 ppb	742.2	0.95%
K 766.490 Radial†	19597.4	5325.5	ug/L	87.36	5325.5 ppb	87.36	1.64%

Mg 279.077 IEC†	93.9	7301.0 ug/L	359.90	7301.0 ppb	359.90	4.93%
Mn 257.610†	1186340.9	2181.1 ug/L	0.51	2181.1 ppb	0.51	0.02%
Mo 202.031†	-6.6	4.9068 ug/L	0.58904	4.9068 ppb	0.58904	12.00%
Na 589.592 Radial†	923.3	561.44 ug/L	11.633	561.44 ppb	11.633	2.07%
Ni 231.604†	936.6	42.257 ug/L	0.0376	42.257 ppb	0.0376	0.09%
P 214.914†	608.0	573.62 ug/L	5.096	573.62 ppb	5.096	0.89%
Pb 220.353†	382.1	83.076 ug/L	1.3079	83.076 ppb	1.3079	1.57%
S 181.975 Axial†	204.6	518.77 ug/L	13.094	518.77 ppb	13.094	2.52%
Sb 206.836†	13.3	-0.3168 ug/L	1.48015	-0.3168 ppb	1.48015	467.29%
Se 196.026†	-232.8	27.850 ug/L	9.2152	27.850 ppb	9.2152	33.09%
Si 251.611†	109393.2	5852.8 ug/L	6.56	5852.8 ppb	6.56	0.11%
Sn 189.927†	-67.2	-17.823 ug/L	0.9642	-17.823 ppb	0.9642	5.41%
Sr 421.552†	9135.7	120.16 ug/L	1.467	120.16 ppb	1.467	1.22%
Ti 334.940†	1111517.4	2625.4 ug/L	0.93	2625.4 ppb	0.93	0.04%
Tl 190.801†	-55.3	-0.3222 ug/L	2.65673	-0.3222 ppb	2.65673	824.52%
U 409.014†	-3687.6	-164.50 ug/L	2.780	-164.50 ppb	2.780	1.69%
V 292.402†	9420.0	89.728 ug/L	0.0558	89.728 ppb	0.0558	0.06%
Zn 213.857†	22713.9	377.46 ug/L	0.619	377.46 ppb	0.619	0.16%
SiO2†	111584.7	12432 ug/L	55.8	12432 ppb	55.8	0.45%

Sequence No.: 11

Sample ID: 248511003|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 46

Date Collected: 4/12/2010 20:06:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511003|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2762.8	2762.8	105 %		20:09:05
1	Y RADIAL	3743.8	3743.8	128.3 %		20:08:45
1	Al 396.153Radial†	22685.8	21604.9	30232 ug/L	30232 ppb	20:08:45
1	Ca 317.933Radial†	2718.0	2567.8	8522.7 ug/L	8522.7 ppb	20:09:05
1	Fe 238.204 Radial†	2931.8	2776.1	70893 ug/L	70893 ppb	20:09:05
1	K 766.490 Radial†	19847.2	16392.5	4455.6 ug/L	4455.6 ppb	20:08:45
1	Mg 279.077 IEC†	89.7	85.0	6608.3 ug/L	6608.3 ppb	20:09:05
1	Na 589.592 Radial†	196.1	1130.6	687.45 ug/L	687.45 ppb	20:08:45
1	Sr 421.552†	7265.2	6877.6	90.472 ug/L	90.472 ppb	20:08:45
1	Sc 361.383	656083.0	656083.0	109.36 %		20:10:02
1	Y 371.029	647528.3	647528.3	128.24 %		20:10:02
1	Ag 328.068†	-3021.8	-2845.1	0.9157 ug/L	0.9157 ppb	20:10:07
1	As 188.979†	-26.7	-6.7	28.292 ug/L	28.292 ppb	20:10:27
1	B 249.677†	256.7	573.9	10.583 ug/L	10.583 ppb	20:10:07
1	Ba 233.527†	24620.2	22502.1	300.68 ug/L	300.68 ppb	20:10:07
1	Be 313.107†	-8064.2	-4107.4	3.1145 ug/L	3.1145 ppb	20:10:07
1	Cd 226.502†	244.1	384.9	0.2962 ug/L	0.2962 ppb	20:10:27
1	Co 228.616†	549.0	531.0	14.016 ug/L	14.016 ppb	20:10:27
1	Cr 267.716†	4392.2	3938.4	87.727 ug/L	87.727 ppb	20:10:07
1	Cu 324.752†	10792.2	4702.7	25.888 ug/L	25.888 ppb	20:10:07
1	Mn 257.610†	756794.7	691678.7	1274.6 ug/L	1274.6 ppb	20:10:02
1	Mo 202.031†	5.7	-6.2	4.3255 ug/L	4.3255 ppb	20:10:27
1	Ni 231.604†	1163.4	986.1	44.564 ug/L	44.564 ppb	20:10:27
1	P 214.914†	559.9	349.9	309.08 ug/L	309.08 ppb	20:10:27
1	Pb 220.353†	204.4	231.1	49.766 ug/L	49.766 ppb	20:10:27
1	S 181.975 Axial†	141.5	106.7	267.39 ug/L	267.39 ppb	20:10:27
1	Sb 206.836†	45.2	15.9	1.8767 ug/L	1.8767 ppb	20:10:27
1	Se 196.026†	-238.0	-203.0	34.141 ug/L	34.141 ppb	20:10:27
1	Si 251.611†	163831.2	149451.6	7996.0 ug/L	7996.0 ppb	20:10:02
1	Sn 189.927†	-30.7	-34.9	-8.5823 ug/L	-8.5823 ppb	20:10:27
1	Ti 334.940†	1123085.7	1028017.5	2427.7 ug/L	2427.7 ppb	20:10:02
1	Tl 190.801†	-65.7	-33.0	6.1351 ug/L	6.1351 ppb	20:10:27
1	U 409.014†	-6499.5	-4665.4	-202.63 ug/L	-202.63 ppb	20:10:02
1	V 292.402†	8165.0	8713.8	83.114 ug/L	83.114 ppb	20:10:07
1	Zn 213.857†	19414.2	17245.6	284.65 ug/L	284.65 ppb	20:10:07
1	SiO2†	157355.7	143536.6	15992 ug/L	15992 ppb	20:11:34
2	Sc Radial	2774.8	2774.8	106 %		20:09:30
2	Y RADIAL	3708.8	3708.8	127.1 %		20:09:10
2	Al 396.153Radial†	22656.0	21484.1	30063 ug/L	30063 ppb	20:09:10
2	Ca 317.933Radial†	2725.1	2563.4	8508.1 ug/L	8508.1 ppb	20:09:30
2	Fe 238.204 Radial†	2938.0	2770.0	70737 ug/L	70737 ppb	20:09:30
2	K 766.490 Radial†	19889.6	16351.5	4444.4 ug/L	4444.4 ppb	20:09:10
2	Mg 279.077 IEC†	91.4	86.2	6709.7 ug/L	6709.7 ppb	20:09:30
2	Na 589.592 Radial†	218.6	1151.1	699.90 ug/L	699.90 ppb	20:09:10
2	Sr 421.552†	7309.1	6889.4	90.628 ug/L	90.628 ppb	20:09:10
2	Sc 361.383	646612.4	646612.4	107.78 %		20:10:33
2	Y 371.029	638657.5	638657.5	126.49 %		20:10:33
2	Ag 328.068†	-2942.4	-2811.9	1.0937 ug/L	1.0937 ppb	20:10:38
2	As 188.979†	-19.5	-0.4	33.224 ug/L	33.224 ppb	20:10:58
2	B 249.677†	201.7	526.3	8.7692 ug/L	8.7692 ppb	20:10:38
2	Ba 233.527†	24006.8	22262.7	297.50 ug/L	297.50 ppb	20:10:38
2	Be 313.107†	-7724.5	-3900.2	3.2458 ug/L	3.2458 ppb	20:10:38
2	Cd 226.502†	240.9	385.2	0.3211 ug/L	0.3211 ppb	20:10:58
2	Co 228.616†	547.3	536.8	14.227 ug/L	14.227 ppb	20:10:58
2	Cr 267.716†	4354.6	3962.3	88.155 ug/L	88.155 ppb	20:10:38
2	Cu 324.752†	10571.0	4642.1	25.610 ug/L	25.610 ppb	20:10:38
2	Mn 257.610†	746139.7	691928.7	1275.0 ug/L	1275.0 ppb	20:10:33
2	Mo 202.031†	10.0	-2.0	4.8545 ug/L	4.8545 ppb	20:10:58
2	Ni 231.604†	1151.5	990.7	44.771 ug/L	44.771 ppb	20:10:58

2	P 214.914†	560.5	357.9	317.89 ug/L	317.89 ppb	20:10:58
2	Pb 220.353†	190.7	221.0	47.485 ug/L	47.485 ppb	20:10:58
2	S 181.975 Axial†	136.3	103.8	259.78 ug/L	259.78 ppb	20:10:58
2	Sb 206.836†	34.9	6.9	-3.4685 ug/L	-3.4685 ppb	20:10:58
2	Se 196.026†	-247.5	-215.0	19.158 ug/L	19.158 ppb	20:10:58
2	Si 251.611†	163189.5	151050.4	8081.6 ug/L	8081.6 ppb	20:10:33
2	Sn 189.927†	-37.9	-42.0	-10.932 ug/L	-10.932 ppb	20:10:58
2	Ti 334.940†	1108981.5	1029973.1	2432.3 ug/L	2432.3 ppb	20:10:33
2	Tl 190.801†	-78.8	-46.1	-1.0228 ug/L	-1.0228 ppb	20:10:58
2	U 409.014†	-6428.3	-4686.4	-203.45 ug/L	-203.45 ppb	20:10:33
2	V 292.402†	7865.6	8545.4	81.296 ug/L	81.296 ppb	20:10:38
2	Zn 213.857†	18852.7	16984.6	280.18 ug/L	280.18 ppb	20:10:38
2	SiO2†	158598.6	146797.2	16355 ug/L	16355 ppb	20:11:39
3	Sc Radial	2859.2	2859.2	109 %		20:09:55
3	Y RADIAL	3726.7	3726.7	127.7 %		20:09:35
3	Al 396.153Radial†	22689.6	20882.7	29222 ug/L	29222 ppb	20:09:35
3	Ca 317.933Radial†	2813.2	2568.3	8524.1 ug/L	8524.1 ppb	20:09:55
3	Fe 238.204 Radial†	3018.6	2762.0	70531 ug/L	70531 ppb	20:09:55
3	K 766.490 Radial†	19716.7	15637.9	4250.4 ug/L	4250.4 ppb	20:09:35
3	Mg 279.077 IEC†	91.5	83.7	6513.2 ug/L	6513.2 ppb	20:09:55
3	Na 589.592 Radial†	161.2	1092.3	664.18 ug/L	664.18 ppb	20:09:35
3	Sr 421.552†	7298.9	6676.1	87.820 ug/L	87.820 ppb	20:09:35
3	Sc 361.383	645589.9	645589.9	107.61 %		20:11:03
3	Y 371.029	636556.6	636556.6	126.07 %		20:11:03
3	Ag 328.068†	-2989.2	-2859.6	0.7139 ug/L	0.7139 ppb	20:11:08
3	As 188.979†	-13.0	5.6	37.917 ug/L	37.917 ppb	20:11:29
3	B 249.677†	244.8	566.6	10.361 ug/L	10.361 ppb	20:11:08
3	Ba 233.527†	24268.3	22541.0	301.18 ug/L	301.18 ppb	20:11:08
3	Be 313.107†	-7830.7	-4010.3	3.1730 ug/L	3.1730 ppb	20:11:08
3	Cd 226.502†	234.5	379.6	0.2238 ug/L	0.2238 ppb	20:11:29
3	Co 228.616†	544.9	535.4	14.185 ug/L	14.185 ppb	20:11:29
3	Cr 267.716†	4326.1	3942.2	87.738 ug/L	87.738 ppb	20:11:08
3	Cu 324.752†	10543.3	4631.8	25.551 ug/L	25.551 ppb	20:11:08
3	Mn 257.610†	746165.0	693048.6	1277.1 ug/L	1277.1 ppb	20:11:03
3	Mo 202.031†	0.6	-10.8	3.6886 ug/L	3.6886 ppb	20:11:29
3	Ni 231.604†	1152.6	993.4	44.895 ug/L	44.895 ppb	20:11:29
3	P 214.914†	556.2	354.8	314.53 ug/L	314.53 ppb	20:11:29
3	Pb 220.353†	216.6	245.4	52.809 ug/L	52.809 ppb	20:11:29
3	S 181.975 Axial†	147.2	114.1	286.60 ug/L	286.60 ppb	20:11:29
3	Sb 206.836†	34.6	6.7	-3.5077 ug/L	-3.5077 ppb	20:11:29
3	Se 196.026†	-242.0	-210.3	23.984 ug/L	23.984 ppb	20:11:29
3	Si 251.611†	161167.9	149411.6	7993.9 ug/L	7993.9 ppb	20:11:03
3	Sn 189.927†	-26.4	-31.4	-7.4307 ug/L	-7.4307 ppb	20:11:29
3	Ti 334.940†	1105490.3	1028358.4	2428.5 ug/L	2428.5 ppb	20:11:03
3	Tl 190.801†	-85.6	-52.5	-4.5625 ug/L	-4.5625 ppb	20:11:29
3	U 409.014†	-6455.2	-4720.8	-204.80 ug/L	-204.80 ppb	20:11:03
3	V 292.402†	8007.7	8689.0	82.875 ug/L	82.875 ppb	20:11:08
3	Zn 213.857†	19081.8	17225.3	284.36 ug/L	284.36 ppb	20:11:08
3	SiO2†	161856.1	150057.4	16719 ug/L	16719 ppb	20:11:45

Mean Data: 248511003|973758|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	649428.4	108.25 %	0.964			0.89%
Sc Radial	2798.9	107 %	2.0			1.88%
Y 371.029	640914.1	126.93 %	1.153			0.91%
Y RADIAL	3726.4	127.7 %	0.60			0.47%
Ag 328.068†	-2838.9	0.9077 ug/L	0.19001	0.9077 ppb	0.19001	20.93%
Al 396.153Radial†	21323.9	29839 ug/L	541.3	29839 ppb	541.3	1.81%
As 188.979†	-0.5	33.144 ug/L	4.8128	33.144 ppb	4.8128	14.52%
B 249.677†	555.6	9.9042 ug/L	0.98924	9.9042 ppb	0.98924	9.99%
Ba 233.527†	22435.2	299.78 ug/L	1.994	299.78 ppb	1.994	0.67%
Be 313.107†	-4005.9	3.1777 ug/L	0.06578	3.1777 ppb	0.06578	2.07%
Ca 317.933Radial†	2566.5	8518.3 ug/L	8.87	8518.3 ppb	8.87	0.10%
Cd 226.502†	383.2	0.2803 ug/L	0.05053	0.2803 ppb	0.05053	18.03%
Co 228.616†	534.4	14.143 ug/L	0.1116	14.143 ppb	0.1116	0.79%
Cr 267.716†	3947.7	87.873 ug/L	0.2441	87.873 ppb	0.2441	0.28%
Cu 324.752†	4658.9	25.683 ug/L	0.1798	25.683 ppb	0.1798	0.70%
Fe 238.204 Radial†	2769.4	70720 ug/L	181.1	70720 ppb	181.1	0.26%
K 766.490 Radial†	16127.3	4383.5 ug/L	115.41	4383.5 ppb	115.41	2.63%

Mg 279.077 IEC†	85.0	6610.4 ug/L	98.31	6610.4 ppb	98.31	1.49%
Mn 257.610†	692218.7	1275.6 ug/L	1.32	1275.6 ppb	1.32	0.10%
Mo 202.031†	-6.3	4.2895 ug/L	0.58374	4.2895 ppb	0.58374	13.61%
Na 589.592 Radial†	1124.6	683.84 ug/L	18.135	683.84 ppb	18.135	2.65%
Ni 231.604†	990.1	44.744 ug/L	0.1672	44.744 ppb	0.1672	0.37%
P 214.914†	354.2	313.83 ug/L	4.451	313.83 ppb	4.451	1.42%
Pb 220.353†	232.5	50.020 ug/L	2.6709	50.020 ppb	2.6709	5.34%
S 181.975 Axial†	108.2	271.26 ug/L	13.822	271.26 ppb	13.822	5.10%
Sb 206.836†	9.8	-1.6998 ug/L	3.09741	-1.6998 ppb	3.09741	182.22%
Se 196.026†	-209.4	25.761 ug/L	7.6478	25.761 ppb	7.6478	29.69%
Si 251.611†	149971.2	8023.8 ug/L	50.01	8023.8 ppb	50.01	0.62%
Sn 189.927†	-36.1	-8.9818 ug/L	1.78458	-8.9818 ppb	1.78458	19.87%
Sr 421.552†	6814.4	89.640 ug/L	1.5782	89.640 ppb	1.5782	1.76%
Ti 334.940†	1028783.0	2429.5 ug/L	2.46	2429.5 ppb	2.46	0.10%
Tl 190.801†	-43.9	0.1832 ug/L	5.44983	0.1832 ppb	5.44983	>999.9%
U 409.014†	-4690.8	-203.63 ug/L	1.097	-203.63 ppb	1.097	0.54%
V 292.402†	8649.4	82.428 ug/L	0.9878	82.428 ppb	0.9878	1.20%
Zn 213.857†	17151.8	283.06 ug/L	2.498	283.06 ppb	2.498	0.88%
SiO2†	146797.1	16355 ug/L	363.3	16355 ppb	363.3	2.22%

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

Autosampler Location: 1
 Date Collected: 4/12/2010 20:13:56
 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	2713.5	2713.5	103 %		20:16:08
1	Y RADIAL	3011.7	3011.7	103.2 %		20:16:08
1	Al 396.153Radial†	3707.7	3658.8	5096.7 ug/L	5096.7 ppb	20:15:48
1	Ca 317.933Radial†	1594.6	1529.2	5075.6 ug/L	5075.6 ppb	20:16:08
1	Fe 238.204 Radial†	215.9	202.5	5185.0 ug/L	5185.0 ppb	20:16:08
1	K 766.490 Radial†	21864.3	18683.5	5075.2 ug/L	5075.2 ppb	20:15:48
1	Mg 279.077 IEC†	69.6	67.1	5279.2 ug/L	5279.2 ppb	20:16:08
1	Na 589.592 Radial†	16884.2	17258.3	10494 ug/L	10494 ppb	20:15:48
1	Sr 421.552†	41394.7	39979.3	526.25 ug/L	526.25 ppb	20:15:48
1	Sc 361.383	630897.5	630897.5	105.16 %		20:17:05
1	Y 371.029	527060.6	527060.6	104.39 %		20:17:05
1	Ag 328.068†	75472.6	71686.7	496.95 ug/L	496.95 ppb	20:17:05
1	As 188.979†	612.8	600.4	475.57 ug/L	475.57 ppb	20:17:25
1	B 249.677†	12827.3	12536.9	481.73 ug/L	481.73 ppb	20:17:05
1	Ba 233.527†	39119.3	37188.2	493.25 ug/L	493.25 ppb	20:17:05
1	Be 313.107†	882142.4	842115.6	492.33 ug/L	492.33 ppb	20:17:05
1	Cd 226.502†	24189.5	23164.0	491.80 ug/L	491.80 ppb	20:17:05
1	Co 228.616†	13144.8	12528.7	472.30 ug/L	472.30 ppb	20:17:25
1	Cr 267.716†	27093.2	25685.6	492.80 ug/L	492.80 ppb	20:17:05
1	Cu 324.752†	123588.6	112357.3	494.85 ug/L	494.85 ppb	20:17:05
1	Mn 257.610†	283606.8	269339.6	493.53 ug/L	493.53 ppb	20:17:05
1	Mo 202.031†	3863.3	3662.4	479.31 ug/L	479.31 ppb	20:17:25
1	Ni 231.604†	10951.4	10336.2	471.26 ug/L	471.26 ppb	20:17:25
1	P 214.914†	2458.3	2175.5	2216.4 ug/L	2216.4 ppb	20:17:25
1	Pb 220.353†	2178.0	2115.2	478.32 ug/L	478.32 ppb	20:17:25
1	S 181.975 Axial†	409.7	366.9	942.16 ug/L	942.16 ppb	20:17:25
1	Sb 206.836†	869.4	801.3	489.40 ug/L	489.40 ppb	20:17:25
1	Se 196.026†	398.8	393.8	495.78 ug/L	495.78 ppb	20:17:25
1	Si 251.611†	48726.9	45976.8	2454.0 ug/L	2454.0 ppb	20:17:05
1	Sn 189.927†	1502.0	1421.4	470.52 ug/L	470.52 ppb	20:17:25
1	Ti 334.940†	218142.5	208483.7	492.01 ug/L	492.01 ppb	20:17:05
1	Tl 190.801†	873.5	857.7	475.22 ug/L	475.22 ppb	20:17:25
1	U 409.014†	11336.5	12058.0	485.77 ug/L	485.77 ppb	20:17:05
1	V 292.402†	45861.9	44858.7	497.10 ug/L	497.10 ppb	20:17:05
1	Zn 213.857†	30542.4	28536.3	486.41 ug/L	486.41 ppb	20:17:05
1	SiO2†	47691.0	44998.0	5000.4 ug/L	5000.4 ppb	20:18:23
2	Sc Radial	2675.9	2675.9	102 %		20:16:33
2	Y RADIAL	2971.5	2971.5	101.8 %		20:16:33
2	Al 396.153Radial†	3570.0	3574.3	4977.6 ug/L	4977.6 ppb	20:16:13
2	Ca 317.933Radial†	1568.5	1525.3	5062.6 ug/L	5062.6 ppb	20:16:33
2	Fe 238.204 Radial†	210.6	200.3	5128.9 ug/L	5128.9 ppb	20:16:33
2	K 766.490 Radial†	21538.3	18661.5	5069.3 ug/L	5069.3 ppb	20:16:13
2	Mg 279.077 IEC†	67.2	65.7	5168.9 ug/L	5168.9 ppb	20:16:33
2	Na 589.592 Radial†	16311.8	16927.2	10293 ug/L	10293 ppb	20:16:13
2	Sr 421.552†	40144.3	39317.2	517.53 ug/L	517.53 ppb	20:16:13
2	Sc 361.383	602360.4	602360.4	100.40 %		20:17:31
2	Y 371.029	503627.2	503627.2	99.744 %		20:17:31
2	Ag 328.068†	72534.5	72160.5	500.21 ug/L	500.21 ppb	20:17:31
2	As 188.979†	604.2	619.5	490.49 ug/L	490.49 ppb	20:17:51
2	B 249.677†	12229.8	12519.7	481.03 ug/L	481.03 ppb	20:17:31
2	Ba 233.527†	37559.7	37397.3	496.02 ug/L	496.02 ppb	20:17:31
2	Be 313.107†	846343.7	846201.9	494.72 ug/L	494.72 ppb	20:17:31
2	Cd 226.502†	23193.2	23261.4	493.89 ug/L	493.89 ppb	20:17:31
2	Co 228.616†	12947.9	12924.7	487.26 ug/L	487.26 ppb	20:17:51
2	Cr 267.716†	26024.1	25841.4	495.77 ug/L	495.77 ppb	20:17:31
2	Cu 324.752†	118447.6	112804.7	496.81 ug/L	496.81 ppb	20:17:31
2	Mn 257.610†	272333.2	270888.0	496.36 ug/L	496.36 ppb	20:17:31
2	Mo 202.031†	3815.2	3788.4	495.79 ug/L	495.79 ppb	20:17:51
2	Ni 231.604†	10861.7	10740.3	489.68 ug/L	489.68 ppb	20:17:51

2	P 214.914†	2418.5	2246.6	2292.3 ug/L	2292.3 ppb	20:17:51
2	Pb 220.353†	2141.5	2177.0	492.28 ug/L	492.28 ppb	20:17:51
2	S 181.975 Axial†	409.7	385.4	989.78 ug/L	989.78 ppb	20:17:51
2	Sb 206.836†	857.5	828.6	506.12 ug/L	506.12 ppb	20:17:51
2	Se 196.026†	384.3	397.4	499.94 ug/L	499.94 ppb	20:17:51
2	Si 251.611†	46672.9	46126.2	2461.8 ug/L	2461.8 ppb	20:17:31
2	Sn 189.927†	1480.9	1468.0	485.90 ug/L	485.90 ppb	20:17:51
2	Ti 334.940†	209488.2	209691.6	494.87 ug/L	494.87 ppb	20:17:31
2	Tl 190.801†	865.3	888.9	492.35 ug/L	492.35 ppb	20:17:51
2	U 409.014†	10885.4	12119.5	488.26 ug/L	488.26 ppb	20:17:31
2	V 292.402†	44004.9	45075.3	499.72 ug/L	499.72 ppb	20:17:31
2	Zn 213.857†	29393.6	28768.1	490.28 ug/L	490.28 ppb	20:17:31
2	SiO2†	46949.5	46408.0	5157.1 ug/L	5157.1 ppb	20:18:28
3	Sc Radial	2660.5	2660.5	101 %		20:16:58
3	Y RADIAL	2945.2	2945.2	100.9 %		20:16:58
3	Al 396.153Radial†	3649.5	3672.8	5115.5 ug/L	5115.5 ppb	20:16:38
3	Ca 317.933Radial†	1560.9	1526.7	5067.2 ug/L	5067.2 ppb	20:16:58
3	Fe 238.204 Radial†	210.0	200.9	5144.2 ug/L	5144.2 ppb	20:16:58
3	K 766.490 Radial†	21691.3	18933.9	5143.3 ug/L	5143.3 ppb	20:16:38
3	Mg 279.077 IEC†	69.9	68.7	5404.2 ug/L	5404.2 ppb	20:16:58
3	Na 589.592 Radial†	16545.5	17249.6	10489 ug/L	10489 ppb	20:16:38
3	Sr 421.552†	40837.9	40227.6	529.51 ug/L	529.51 ppb	20:16:38
3	Sc 361.383	601372.8	601372.8	100.24 %		20:17:57
3	Y 371.029	502627.5	502627.5	99.546 %		20:17:57
3	Ag 328.068†	72600.8	72345.3	501.49 ug/L	501.49 ppb	20:17:57
3	As 188.979†	598.1	614.4	486.52 ug/L	486.52 ppb	20:18:17
3	B 249.677†	12262.9	12572.8	483.08 ug/L	483.08 ppb	20:17:57
3	Ba 233.527†	37518.9	37418.0	496.29 ug/L	496.29 ppb	20:17:57
3	Be 313.107†	845831.1	847074.8	495.23 ug/L	495.23 ppb	20:17:57
3	Cd 226.502†	23112.5	23218.9	492.98 ug/L	492.98 ppb	20:17:57
3	Co 228.616†	12944.0	12942.1	487.91 ug/L	487.91 ppb	20:18:17
3	Cr 267.716†	26115.1	25974.8	498.33 ug/L	498.33 ppb	20:17:57
3	Cu 324.752†	119167.1	113716.2	500.82 ug/L	500.82 ppb	20:17:57
3	Mn 257.610†	271864.0	270865.4	496.31 ug/L	496.31 ppb	20:17:57
3	Mo 202.031†	3812.2	3791.7	496.21 ug/L	496.21 ppb	20:18:17
3	Ni 231.604†	10834.1	10730.5	489.24 ug/L	489.24 ppb	20:18:17
3	P 214.914†	2423.5	2255.6	2301.1 ug/L	2301.1 ppb	20:18:17
3	Pb 220.353†	2137.2	2176.2	492.12 ug/L	492.12 ppb	20:18:17
3	S 181.975 Axial†	402.9	379.3	974.02 ug/L	974.02 ppb	20:18:17
3	Sb 206.836†	858.2	830.7	507.40 ug/L	507.40 ppb	20:18:17
3	Se 196.026†	393.2	406.9	511.34 ug/L	511.34 ppb	20:18:17
3	Si 251.611†	46819.8	46349.1	2473.7 ug/L	2473.7 ppb	20:17:57
3	Sn 189.927†	1490.3	1479.8	489.80 ug/L	489.80 ppb	20:18:17
3	Ti 334.940†	209623.3	210169.0	495.98 ug/L	495.98 ppb	20:17:57
3	Tl 190.801†	867.0	892.0	494.06 ug/L	494.06 ppb	20:18:17
3	U 409.014†	10987.4	12239.0	493.09 ug/L	493.09 ppb	20:17:57
3	V 292.402†	44041.2	45183.4	500.92 ug/L	500.92 ppb	20:17:57
3	Zn 213.857†	29425.0	28847.4	491.64 ug/L	491.64 ppb	20:17:57
3	SiO2†	46969.5	46504.8	5167.8 ug/L	5167.8 ppb	20:18:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	611543.6	101.94 %	2.795			2.74%
Sc Radial	2683.3	102 %	1.0			1.02%
Y 371.029	511105.1	101.23 %	2.738			2.71%
Y RADIAL	2976.1	102.0 %	1.15			1.12%
Ag 328.068†	72064.2	499.55 ug/L	2.338	499.55 ppb	2.338	0.47%
QC value within limits for Ag 328.068 Recovery = 99.91%						
Al 396.153Radial†	3635.3	5063.2 ug/L	74.79	5063.2 ppb	74.79	1.48%
QC value within limits for Al 396.153Radial Recovery = 101.26%						
As 188.979†	611.4	484.19 ug/L	7.728	484.19 ppb	7.728	1.60%
QC value within limits for As 188.979 Recovery = 96.84%						
B 249.677†	12543.1	481.95 ug/L	1.039	481.95 ppb	1.039	0.22%
QC value within limits for B 249.677 Recovery = 96.39%						
Ba 233.527†	37334.5	495.19 ug/L	1.684	495.19 ppb	1.684	0.34%
QC value within limits for Ba 233.527 Recovery = 99.04%						
Be 313.107†	845130.8	494.09 ug/L	1.549	494.09 ppb	1.549	0.31%
QC value within limits for Be 313.107 Recovery = 98.82%						
Ca 317.933Radial†	1527.1	5068.5 ug/L	6.57	5068.5 ppb	6.57	0.13%

QC value within limits for Ca 317.933 Radial Recovery = 101.37%							
Cd 226.502†	23214.8	492.89 ug/L	1.047	492.89 ppb	1.047	0.21%	
QC value within limits for Cd 226.502 Recovery = 98.58%							
Co 228.616†	12798.5	482.49 ug/L	8.832	482.49 ppb	8.832	1.83%	
QC value within limits for Co 228.616 Recovery = 96.50%							
Cr 267.716†	25833.9	495.63 ug/L	2.766	495.63 ppb	2.766	0.56%	
QC value within limits for Cr 267.716 Recovery = 99.13%							
Cu 324.752†	112959.4	497.49 ug/L	3.044	497.49 ppb	3.044	0.61%	
QC value within limits for Cu 324.752 Recovery = 99.50%							
Fe 238.204 Radial†	201.2	5152.7 ug/L	29.05	5152.7 ppb	29.05	0.56%	
QC value within limits for Fe 238.204 Radial Recovery = 103.05%							
K 766.490 Radial†	18759.6	5095.9 ug/L	41.13	5095.9 ppb	41.13	0.81%	
QC value within limits for K 766.490 Radial Recovery = 101.92%							
Mg 279.077 IEC†	67.2	5284.1 ug/L	117.69	5284.1 ppb	117.69	2.23%	
QC value within limits for Mg 279.077 IEC Recovery = 105.68%							
Mn 257.610†	270364.3	495.40 ug/L	1.621	495.40 ppb	1.621	0.33%	
QC value within limits for Mn 257.610 Recovery = 99.08%							
Mo 202.031†	3747.5	490.44 ug/L	9.638	490.44 ppb	9.638	1.97%	
QC value within limits for Mo 202.031 Recovery = 98.09%							
Na 589.592 Radial†	17145.1	10425 ug/L	114.8	10425 ppb	114.8	1.10%	
QC value within limits for Na 589.592 Radial Recovery = 104.25%							
Ni 231.604†	10602.3	483.39 ug/L	10.511	483.39 ppb	10.511	2.17%	
QC value within limits for Ni 231.604 Recovery = 96.68%							
P 214.914†	2225.9	2269.9 ug/L	46.57	2269.9 ppb	46.57	2.05%	
QC value within limits for P 214.914 Recovery = 90.80%							
Pb 220.353†	2156.1	487.57 ug/L	8.011	487.57 ppb	8.011	1.64%	
QC value within limits for Pb 220.353 Recovery = 97.51%							
S 181.975 Axial†	377.2	968.65 ug/L	24.256	968.65 ppb	24.256	2.50%	
QC value within limits for S 181.975 Axial Recovery = 96.87%							
Sb 206.836†	820.2	500.98 ug/L	10.042	500.98 ppb	10.042	2.00%	
QC value within limits for Sb 206.836 Recovery = 100.20%							
Se 196.026†	399.4	502.35 ug/L	8.058	502.35 ppb	8.058	1.60%	
QC value within limits for Se 196.026 Recovery = 100.47%							
Si 251.611†	46150.7	2463.1 ug/L	9.93	2463.1 ppb	9.93	0.40%	
QC value within limits for Si 251.611 Recovery = 98.53%							
Sn 189.927†	1456.4	482.08 ug/L	10.194	482.08 ppb	10.194	2.11%	
QC value within limits for Sn 189.927 Recovery = 96.42%							
Sr 421.552†	39841.4	524.43 ug/L	6.195	524.43 ppb	6.195	1.18%	
QC value within limits for Sr 421.552 Recovery = 104.89%							
Ti 334.940†	209448.1	494.29 ug/L	2.045	494.29 ppb	2.045	0.41%	
QC value within limits for Ti 334.940 Recovery = 98.86%							
Tl 190.801†	879.5	487.21 ug/L	10.420	487.21 ppb	10.420	2.14%	
QC value within limits for Tl 190.801 Recovery = 97.44%							
U 409.014†	12138.8	489.04 ug/L	3.722	489.04 ppb	3.722	0.76%	
QC value within limits for U 409.014 Recovery = 97.81%							
V 292.402†	45039.1	499.25 ug/L	1.949	499.25 ppb	1.949	0.39%	
QC value within limits for V 292.402 Recovery = 99.85%							
Zn 213.857†	28717.3	489.44 ug/L	2.718	489.44 ppb	2.718	0.56%	
QC value within limits for Zn 213.857 Recovery = 97.89%							
SiO2†	45970.3	5108.5 ug/L	93.70	5108.5 ppb	93.70	1.83%	
QC value within limits for SiO2 Recovery = 95.53%							
All analyte(s) passed QC.							

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/12/2010 20:20:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2573.7	2573.7	98.2 %		20:22:54
1	Y RADIAL	2884.9	2884.9	98.87 %		20:22:54
1	Al 396.153Radial†	-76.6	-1.7	-2.3687 ug/L	-2.3687 ppb	20:22:54
1	Ca 317.933Radial†	14.7	3.5	11.472 ug/L	11.472 ppb	20:22:54
1	Fe 238.204 Radial†	7.1	1.1	28.499 ug/L	28.499 ppb	20:22:54
1	K 766.490 Radial†	2538.8	144.1	39.198 ug/L	39.198 ppb	20:22:34
1	Mg 279.077 IEC†	2.4	2.3	181.07 ug/L	181.07 ppb	20:22:54
1	Na 589.592 Radial†	-983.7	-57.6	-35.044 ug/L	-35.044 ppb	20:22:34
1	Sr 421.552†	21.2	4.6	0.0602 ug/L	0.0602 ppb	20:22:34
1	Sc 361.383	607669.9	607669.9	101.29 %		20:23:51
1	Y 371.029	513329.1	513329.1	101.67 %		20:23:51
1	Ag 328.068†	149.5	65.7	0.4559 ug/L	0.4559 ppb	20:23:51
1	As 188.979†	-11.4	6.5	5.0894 ug/L	5.0894 ppb	20:24:11
1	B 249.677†	-168.3	173.0	6.6742 ug/L	6.6742 ppb	20:24:11
1	Ba 233.527†	16.6	5.3	0.0710 ug/L	0.0710 ppb	20:24:11
1	Be 313.107†	-3145.0	161.7	0.0954 ug/L	0.0954 ppb	20:23:51
1	Cd 226.502†	-164.9	-1.1	-0.0259 ug/L	-0.0259 ppb	20:24:11
1	Co 228.616†	-37.3	-7.8	-0.2926 ug/L	-0.2926 ppb	20:24:11
1	Cr 267.716†	84.0	5.1	0.0996 ug/L	0.0996 ppb	20:24:11
1	Cu 324.752†	5179.7	-52.1	-0.2315 ug/L	-0.2315 ppb	20:23:51
1	Mn 257.610†	369.9	16.8	0.0267 ug/L	0.0267 ppb	20:24:11
1	Mo 202.031†	19.4	7.8	1.0273 ug/L	1.0273 ppb	20:24:11
1	Ni 231.604†	86.5	7.6	0.3482 ug/L	0.3482 ppb	20:24:11
1	P 214.914†	154.2	-9.8	-10.464 ug/L	-10.464 ppb	20:24:11
1	Pb 220.353†	-49.4	-4.6	-1.0437 ug/L	-1.0437 ppb	20:24:11
1	S 181.975 Axial†	26.4	3.3	8.5522 ug/L	8.5522 ppb	20:24:11
1	Sb 206.836†	33.5	7.6	4.5110 ug/L	4.5110 ppb	20:24:11
1	Se 196.026†	-13.6	1.2	1.5914 ug/L	1.5914 ppb	20:24:11
1	Si 251.611†	478.1	113.4	6.0527 ug/L	6.0527 ppb	20:24:11
1	Sn 189.927†	9.6	2.6	0.8612 ug/L	0.8612 ppb	20:24:11
1	Ti 334.940†	-859.8	198.3	0.4521 ug/L	0.4521 ppb	20:23:51
1	Tl 190.801†	-24.4	3.0	1.6650 ug/L	1.6650 ppb	20:24:11
1	U 409.014†	-1140.2	152.2	6.1513 ug/L	6.1513 ppb	20:23:51
1	V 292.402†	-1255.9	7.6	0.1091 ug/L	0.1091 ppb	20:23:51
1	Zn 213.857†	533.6	19.7	0.3324 ug/L	0.3324 ppb	20:24:11
1	SiO2†	499.0	140.2	15.596 ug/L	15.596 ppb	20:25:22
2	Sc Radial	2624.6	2624.6	100 %		20:23:19
2	Y RADIAL	2922.8	2922.8	100.2 %		20:23:19
2	Al 396.153Radial†	-72.7	3.7	5.1123 ug/L	5.1123 ppb	20:23:19
2	Ca 317.933Radial†	14.5	3.0	9.9756 ug/L	9.9756 ppb	20:23:19
2	Fe 238.204 Radial†	8.6	2.5	63.060 ug/L	63.060 ppb	20:23:19
2	K 766.490 Radial†	2565.7	120.9	32.866 ug/L	32.866 ppb	20:22:59
2	Mg 279.077 IEC†	2.6	2.4	190.38 ug/L	190.38 ppb	20:23:19
2	Na 589.592 Radial†	-934.7	10.7	6.5327 ug/L	6.5327 ppb	20:22:59
2	Sr 421.552†	16.2	-0.8	-0.0111 ug/L	-0.0111 ppb	20:22:59
2	Sc 361.383	619357.2	619357.2	103.24 %		20:24:16
2	Y 371.029	523568.1	523568.1	103.69 %		20:24:16
2	Ag 328.068†	93.8	9.0	0.0794 ug/L	0.0794 ppb	20:24:16
2	As 188.979†	-20.1	-1.8	-1.4142 ug/L	-1.4142 ppb	20:24:36
2	B 249.677†	-164.4	179.9	6.9337 ug/L	6.9337 ppb	20:24:36
2	Ba 233.527†	11.2	-0.3	-0.0019 ug/L	-0.0019 ppb	20:24:36
2	Be 313.107†	-3197.7	169.3	0.0992 ug/L	0.0992 ppb	20:24:16
2	Cd 226.502†	-161.3	5.4	0.1084 ug/L	0.1084 ppb	20:24:36
2	Co 228.616†	-41.0	-10.7	-0.4026 ug/L	-0.4026 ppb	20:24:36
2	Cr 267.716†	87.0	6.4	0.1333 ug/L	0.1333 ppb	20:24:36
2	Cu 324.752†	5209.7	-119.5	-0.5216 ug/L	-0.5216 ppb	20:24:16
2	Mn 257.610†	383.0	22.6	0.0412 ug/L	0.0412 ppb	20:24:36
2	Mo 202.031†	15.9	4.1	0.5389 ug/L	0.5389 ppb	20:24:36
2	Ni 231.604†	94.4	13.7	0.6245 ug/L	0.6245 ppb	20:24:36

2	P 214.914†	157.9	-9.2	-9.7615 ug/L	-9.7615 ppb	20:24:36
2	Pb 220.353†	-39.8	5.6	1.2477 ug/L	1.2477 ppb	20:24:36
2	S 181.975 Axial†	26.1	2.6	6.6018 ug/L	6.6018 ppb	20:24:36
2	Sb 206.836†	24.6	-1.7	-0.9680 ug/L	-0.9680 ppb	20:24:36
2	Se 196.026†	-15.7	-0.6	-0.4482 ug/L	-0.4482 ppb	20:24:36
2	Si 251.611†	478.8	105.1	5.6168 ug/L	5.6168 ppb	20:24:36
2	Sn 189.927†	6.5	-0.6	-0.1803 ug/L	-0.1803 ppb	20:24:36
2	Ti 334.940†	-986.9	91.1	0.2012 ug/L	0.2012 ppb	20:24:16
2	Tl 190.801†	-18.2	9.5	5.2067 ug/L	5.2067 ppb	20:24:36
2	U 409.014†	-1346.8	-26.6	-1.0901 ug/L	-1.0901 ppb	20:24:16
2	V 292.402†	-1307.8	-19.2	-0.2094 ug/L	-0.2094 ppb	20:24:16
2	Zn 213.857†	521.7	-1.8	-0.0453 ug/L	-0.0453 ppb	20:24:36
2	SiO2†	462.3	95.4	10.615 ug/L	10.615 ppb	20:25:42
3	Sc Radial	2675.9	2675.9	102 %		20:23:44
3	Y RADIAL	2984.8	2984.8	102.3 %		20:23:44
3	Al 396.153Radial†	-76.3	1.6	2.2025 ug/L	2.2025 ppb	20:23:44
3	Ca 317.933Radial†	8.7	-2.9	-9.7670 ug/L	-9.7670 ppb	20:23:44
3	Fe 238.204 Radial†	7.6	1.3	32.522 ug/L	32.522 ppb	20:23:44
3	K 766.490 Radial†	2470.1	-22.0	-5.9821 ug/L	-5.9821 ppb	20:23:24
3	Mg 279.077 IEC†	2.4	2.2	174.15 ug/L	174.15 ppb	20:23:44
3	Na 589.592 Radial†	-962.5	1.4	0.8663 ug/L	0.8663 ppb	20:23:24
3	Sr 421.552†	45.6	27.6	0.3639 ug/L	0.3639 ppb	20:23:24
3	Sc 361.383	617541.1	617541.1	102.93 %		20:24:41
3	Y 371.029	521211.3	521211.3	103.23 %		20:24:41
3	Ag 328.068†	164.6	78.1	0.5446 ug/L	0.5446 ppb	20:24:41
3	As 188.979†	-19.8	-1.5	-1.1828 ug/L	-1.1828 ppb	20:25:01
3	B 249.677†	-183.7	160.7	6.1974 ug/L	6.1974 ppb	20:25:01
3	Ba 233.527†	10.8	-0.7	-0.0089 ug/L	-0.0089 ppb	20:25:01
3	Be 313.107†	-3172.9	184.2	0.1082 ug/L	0.1082 ppb	20:24:41
3	Cd 226.502†	-155.8	10.3	0.2153 ug/L	0.2153 ppb	20:25:01
3	Co 228.616†	-27.9	2.0	0.0724 ug/L	0.0724 ppb	20:25:01
3	Cr 267.716†	78.7	-1.4	-0.0225 ug/L	-0.0225 ppb	20:25:01
3	Cu 324.752†	5325.3	7.6	0.0358 ug/L	0.0358 ppb	20:24:41
3	Mn 257.610†	376.3	17.1	0.0282 ug/L	0.0282 ppb	20:25:01
3	Mo 202.031†	10.5	-1.1	-0.1418 ug/L	-0.1418 ppb	20:25:01
3	Ni 231.604†	87.4	7.2	0.3269 ug/L	0.3269 ppb	20:25:01
3	P 214.914†	151.4	-15.0	-16.098 ug/L	-16.098 ppb	20:25:01
3	Pb 220.353†	-57.1	-11.3	-2.5502 ug/L	-2.5502 ppb	20:25:01
3	S 181.975 Axial†	21.8	-1.5	-3.7903 ug/L	-3.7903 ppb	20:25:01
3	Sb 206.836†	34.8	8.3	4.9105 ug/L	4.9105 ppb	20:25:01
3	Se 196.026†	-18.7	-3.5	-4.1213 ug/L	-4.1213 ppb	20:25:01
3	Si 251.611†	468.8	96.7	5.1758 ug/L	5.1758 ppb	20:25:01
3	Sn 189.927†	9.8	2.7	0.8836 ug/L	0.8836 ppb	20:25:01
3	Ti 334.940†	-937.2	136.7	0.3071 ug/L	0.3071 ppb	20:24:41
3	Tl 190.801†	-21.3	6.4	3.5260 ug/L	3.5260 ppb	20:25:01
3	U 409.014†	-1303.3	11.7	0.4681 ug/L	0.4681 ppb	20:24:41
3	V 292.402†	-1338.1	-52.4	-0.5751 ug/L	-0.5751 ppb	20:24:41
3	Zn 213.857†	524.4	2.3	0.0318 ug/L	0.0318 ppb	20:25:01
3	SiO2†	476.0	110.0	12.257 ug/L	12.257 ppb	20:26:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	614856.1	102.49 %	1.048			1.02%
Sc Radial	2624.7	100 %	1.9			1.95%
Y 371.029	519369.5	102.86 %	1.062			1.03%
Y RADIAL	2930.8	100.4 %	1.73			1.72%
Ag 328.068†	50.9	0.3600 ug/L	0.24699	0.3600 ppb	0.24699	68.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.2	1.6487 ug/L	3.77113	1.6487 ppb	3.77113	228.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	0.8308 ug/L	3.68984	0.8308 ppb	3.68984	444.12%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	171.2	6.6018 ug/L	0.37343	6.6018 ppb	0.37343	5.66%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.4	0.0201 ug/L	0.04426	0.0201 ppb	0.04426	220.57%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	171.7	0.1009 ug/L	0.00657	0.1009 ppb	0.00657	6.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.2	3.8935 ug/L	11.85397	3.8935 ppb	11.85397	304.45%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	4.9	0.0992 ug/L	0.12083	0.0992 ppb	0.12083	121.74%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-5.5	-0.2076 ug/L	0.24866	-0.2076 ppb	0.24866	119.77%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	3.3	0.0701 ug/L	0.08193	0.0701 ppb	0.08193	116.83%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-54.7	-0.2391 ug/L	0.27880	-0.2391 ppb	0.27880	116.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.6	41.360 ug/L	18.8994	41.360 ppb	18.8994	45.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	81.0	22.027 ug/L	24.4627	22.027 ppb	24.4627	111.06%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.3	181.87 ug/L	8.142	181.87 ppb	8.142	4.48%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	18.9	0.0320 ug/L	0.00798	0.0320 ppb	0.00798	24.90%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.6	0.4748 ug/L	0.58714	0.4748 ppb	0.58714	123.66%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-15.2	-9.2149 ug/L	22.54715	-9.2149 ppb	22.54715	244.68%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.5	0.4332 ug/L	0.16602	0.4332 ppb	0.16602	38.32%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-11.3	-12.108 ug/L	3.4732	-12.108 ppb	3.4732	28.69%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-3.5	-0.7821 ug/L	1.91242	-0.7821 ppb	1.91242	244.53%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	1.5	3.7879 ug/L	6.63496	3.7879 ppb	6.63496	175.16%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	4.7	2.8178 ug/L	3.28472	2.8178 ppb	3.28472	116.57%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.0	-0.9927 ug/L	2.89505	-0.9927 ppb	2.89505	291.63%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	105.1	5.6151 ug/L	0.43847	5.6151 ppb	0.43847	7.81%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.6	0.5215 ug/L	0.60785	0.5215 ppb	0.60785	116.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	10.5	0.1377 ug/L	0.19917	0.1377 ppb	0.19917	144.69%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	142.0	0.3202 ug/L	0.12592	0.3202 ppb	0.12592	39.33%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.3	3.4659 ug/L	1.77163	3.4659 ppb	1.77163	51.12%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	45.8	1.8431 ug/L	3.81148	1.8431 ppb	3.81148	206.80%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-21.3	-0.2251 ug/L	0.34238	-0.2251 ppb	0.34238	152.09%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	6.7	0.1063 ug/L	0.19959	0.1063 ppb	0.19959	187.74%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	115.2	12.823 ug/L	2.5380	12.823 ppb	2.5380	19.79%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 14
 Sample ID: 248511004|973758|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 47
 Date Collected: 4/12/2010 20:28:11
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511004|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2782.1	2782.1	106 %		20:30:24
1	Y RADIAL	3458.0	3458.0	118.5 %		20:30:04
1	Al 396.153Radial†	38101.7	35984.3	50354 ug/L	50354 ppb	20:30:04
1	Ca 317.933Radial†	12327.9	11606.6	38523 ug/L	38523 ppb	20:30:04
1	Fe 238.204 Radial†	3166.7	2978.3	76056 ug/L	76056 ppb	20:30:24
1	K 766.490 Radial†	50551.0	45198.2	12281 ug/L	12281 ppb	20:30:04
1	Mg 279.077 IEC†	177.5	167.1	13065 ug/L	13065 ppb	20:30:24
1	Na 589.592 Radial†	-117.3	833.9	507.08 ug/L	507.08 ppb	20:30:04
1	Sr 421.552†	21652.0	20388.4	268.10 ug/L	268.10 ppb	20:30:04
1	Sc 361.383	639756.6	639756.6	106.64 %		20:31:22
1	Y 371.029	582718.7	582718.7	115.41 %		20:31:22
1	Ag 328.068†	-3005.5	-2900.3	1.6589 ug/L	1.6589 ppb	20:31:27
1	As 188.979†	-25.5	-6.2	32.292 ug/L	32.292 ppb	20:31:47
1	B 249.677†	1012.5	1288.6	37.283 ug/L	37.283 ppb	20:31:27
1	Ba 233.527†	101261.9	94947.7	1259.1 ug/L	1259.1 ppb	20:31:27
1	Be 313.107†	-8306.1	-4522.4	3.6123 ug/L	3.6123 ppb	20:31:27
1	Cd 226.502†	303.5	446.3	1.0720 ug/L	1.0720 ppb	20:31:47
1	Co 228.616†	1017.8	983.5	30.737 ug/L	30.737 ppb	20:31:47
1	Cr 267.716†	8453.1	7849.1	163.45 ug/L	163.45 ppb	20:31:47
1	Cu 324.752†	20341.1	13909.1	66.779 ug/L	66.779 ppb	20:31:27
1	Mn 257.610†	2997698.6	2810756.4	5154.7 ug/L	5154.7 ppb	20:31:22
1	Mo 202.031†	-12.7	-23.3	3.0637 ug/L	3.0637 ppb	20:31:47
1	Ni 231.604†	2250.1	2032.3	92.252 ug/L	92.252 ppb	20:31:47
1	P 214.914†	3009.8	2660.4	2776.5 ug/L	2776.5 ppb	20:31:47
1	Pb 220.353†	367.0	388.3	89.730 ug/L	89.730 ppb	20:31:47
1	S 181.975 Axial†	720.9	653.3	1668.0 ug/L	1668.0 ppb	20:31:47
1	Sb 206.836†	45.6	17.3	0.5029 ug/L	0.5029 ppb	20:31:47
1	Se 196.026†	-251.6	-221.3	32.735 ug/L	32.735 ppb	20:31:47
1	Si 251.611†	177051.3	165671.9	8863.9 ug/L	8863.9 ppb	20:31:27
1	Sn 189.927†	-153.7	-151.0	-39.553 ug/L	-39.553 ppb	20:31:47
1	Ti 334.940†	1242341.5	1166058.2	2756.6 ug/L	2756.6 ppb	20:31:22
1	Tl 190.801†	-122.4	-87.7	-3.0763 ug/L	-3.0763 ppb	20:31:47
1	U 409.014†	-4502.1	-2943.9	-134.14 ug/L	-134.14 ppb	20:31:27
1	V 292.402†	11113.9	11669.7	114.61 ug/L	114.61 ppb	20:31:27
1	Zn 213.857†	15622.7	14143.1	230.05 ug/L	230.05 ppb	20:31:27
1	SiO2†	178223.7	166777.6	18582 ug/L	18582 ppb	20:32:55
2	Sc Radial	2799.3	2799.3	107 %		20:30:50
2	Y RADIAL	3532.4	3532.4	121.1 %		20:30:29
2	Al 396.153Radial†	37964.0	35633.5	49863 ug/L	49863 ppb	20:30:29
2	Ca 317.933Radial†	12306.1	11514.4	38217 ug/L	38217 ppb	20:30:29
2	Fe 238.204 Radial†	3128.5	2924.0	74670 ug/L	74670 ppb	20:30:50
2	K 766.490 Radial†	50451.9	44811.2	12176 ug/L	12176 ppb	20:30:29
2	Mg 279.077 IEC†	179.3	167.8	13121 ug/L	13121 ppb	20:30:50
2	Na 589.592 Radial†	-103.0	848.0	515.66 ug/L	515.66 ppb	20:30:29
2	Sr 421.552†	21547.7	20164.6	265.16 ug/L	265.16 ppb	20:30:29
2	Sc 361.383	629020.2	629020.2	104.85 %		20:31:53
2	Y 371.029	574624.0	574624.0	113.81 %		20:31:53
2	Ag 328.068†	-3071.6	-3011.5	0.5246 ug/L	0.5246 ppb	20:31:58
2	As 188.979†	-16.8	1.7	39.036 ug/L	39.036 ppb	20:32:18
2	B 249.677†	997.2	1290.3	37.572 ug/L	37.572 ppb	20:31:58
2	Ba 233.527†	102132.1	97398.4	1291.5 ug/L	1291.5 ppb	20:31:58
2	Be 313.107†	-8405.3	-4749.9	3.7222 ug/L	3.7222 ppb	20:31:58
2	Cd 226.502†	291.8	440.0	1.0917 ug/L	1.0917 ppb	20:32:18
2	Co 228.616†	1004.7	987.3	30.690 ug/L	30.690 ppb	20:32:18
2	Cr 267.716†	8465.0	7995.7	166.02 ug/L	166.02 ppb	20:32:18
2	Cu 324.752†	20457.4	14345.6	68.607 ug/L	68.607 ppb	20:31:58
2	Mn 257.610†	3063780.3	2921763.5	5357.7 ug/L	5357.7 ppb	20:31:53
2	Mo 202.031†	-17.4	-28.0	2.3439 ug/L	2.3439 ppb	20:32:18
2	Ni 231.604†	2248.7	2067.0	93.843 ug/L	93.843 ppb	20:32:18

2	P 214.914†	3042.3	2739.5	2862.1 ug/L	2862.1 ppb	20:32:18
2	Pb 220.353†	387.4	413.6	95.512 ug/L	95.512 ppb	20:32:18
2	S 181.975 Axial†	733.9	677.3	1729.7 ug/L	1729.7 ppb	20:32:18
2	Sb 206.836†	46.0	18.4	0.7769 ug/L	0.7769 ppb	20:32:18
2	Se 196.026†	-253.3	-227.0	20.496 ug/L	20.496 ppb	20:32:18
2	Si 251.611†	178333.1	169728.3	9080.9 ug/L	9080.9 ppb	20:31:58
2	Sn 189.927†	-152.5	-152.4	-40.103 ug/L	-40.103 ppb	20:32:18
2	Ti 334.940†	1268942.4	1211314.0	2863.4 ug/L	2863.4 ppb	20:31:53
2	Tl 190.801†	-127.5	-94.6	-5.0938 ug/L	-5.0938 ppb	20:32:18
2	U 409.014†	-4599.3	-3108.8	-140.55 ug/L	-140.55 ppb	20:31:58
2	V 292.402†	11284.7	12010.4	118.38 ug/L	118.38 ppb	20:31:58
2	Zn 213.857†	15750.6	14515.2	236.67 ug/L	236.67 ppb	20:31:58
2	SiO2†	180556.7	171855.3	19147 ug/L	19147 ppb	20:33:00
3	Sc Radial	2779.7	2779.7	106 %		20:31:15
3	Y RADIAL	3463.6	3463.6	118.7 %		20:30:55
3	Al 396.153Radial†	38069.5	35983.9	50353 ug/L	50353 ppb	20:30:55
3	Ca 317.933Radial†	12306.5	11596.1	38488 ug/L	38488 ppb	20:30:55
3	Fe 238.204 Radial†	3159.7	2974.2	75951 ug/L	75951 ppb	20:31:15
3	K 766.490 Radial†	50362.8	45060.4	12244 ug/L	12244 ppb	20:30:55
3	Mg 279.077 IEC†	179.6	169.3	13235 ug/L	13235 ppb	20:31:15
3	Na 589.592 Radial†	-96.6	853.4	518.90 ug/L	518.90 ppb	20:30:55
3	Sr 421.552†	21529.4	20289.7	266.80 ug/L	266.80 ppb	20:30:55
3	Sc 361.383	631163.8	631163.8	105.21 %		20:32:24
3	Y 371.029	576998.1	576998.1	114.28 %		20:32:24
3	Ag 328.068†	-2978.0	-2912.5	1.5591 ug/L	1.5591 ppb	20:32:29
3	As 188.979†	-11.9	6.4	43.054 ug/L	43.054 ppb	20:32:49
3	B 249.677†	968.2	1259.5	36.175 ug/L	36.175 ppb	20:32:29
3	Ba 233.527†	101570.8	96534.0	1280.1 ug/L	1280.1 ppb	20:32:29
3	Be 313.107†	-8359.3	-4679.0	3.7725 ug/L	3.7725 ppb	20:32:29
3	Cd 226.502†	312.8	459.0	1.3523 ug/L	1.3523 ppb	20:32:49
3	Co 228.616†	1017.4	996.0	30.989 ug/L	30.989 ppb	20:32:49
3	Cr 267.716†	8470.0	7973.0	165.81 ug/L	165.81 ppb	20:32:49
3	Cu 324.752†	20316.2	14145.1	67.814 ug/L	67.814 ppb	20:32:29
3	Mn 257.610†	3074270.4	2921810.6	5358.0 ug/L	5358.0 ppb	20:32:24
3	Mo 202.031†	-14.1	-24.7	2.8626 ug/L	2.8626 ppb	20:32:49
3	Ni 231.604†	2239.1	2050.6	93.088 ug/L	93.088 ppb	20:32:49
3	P 214.914†	3008.4	2697.5	2816.1 ug/L	2816.1 ppb	20:32:49
3	Pb 220.353†	397.1	421.6	97.252 ug/L	97.252 ppb	20:32:49
3	S 181.975 Axial†	723.7	665.2	1698.6 ug/L	1698.6 ppb	20:32:49
3	Sb 206.836†	54.2	26.1	5.2702 ug/L	5.2702 ppb	20:32:49
3	Se 196.026†	-258.7	-231.3	20.354 ug/L	20.354 ppb	20:32:49
3	Si 251.611†	177384.1	168248.6	9001.7 ug/L	9001.7 ppb	20:32:29
3	Sn 189.927†	-162.5	-161.3	-42.989 ug/L	-42.989 ppb	20:32:49
3	Ti 334.940†	1275016.6	1212977.3	2867.3 ug/L	2867.3 ppb	20:32:24
3	Tl 190.801†	-136.7	-102.9	-9.6430 ug/L	-9.6430 ppb	20:32:49
3	U 409.014†	-4552.6	-3049.5	-138.40 ug/L	-138.40 ppb	20:32:29
3	V 292.402†	11204.6	11897.8	116.99 ug/L	116.99 ppb	20:32:29
3	Zn 213.857†	15637.2	14356.4	233.73 ug/L	233.73 ppb	20:32:29
3	SiO2†	177199.1	168079.1	18727 ug/L	18727 ppb	20:33:05

Mean Data: 248511004|973758|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	633313.5	105.56 %	0.947			0.90%
Sc Radial	2787.0	106 %	0.4			0.38%
Y 371.029	578113.6	114.50 %	0.824			0.72%
Y RADIAL	3484.7	119.4 %	1.42			1.19%
Ag 328.068†	-2941.4	1.2475 ug/L	0.62804	1.2475 ppb	0.62804	50.34%
Al 396.153Radial†	35867.2	50190 ug/L	283.2	50190 ppb	283.2	0.56%
As 188.979†	0.6	38.127 ug/L	5.4386	38.127 ppb	5.4386	14.26%
B 249.677†	1279.5	37.010 ug/L	0.7375	37.010 ppb	0.7375	1.99%
Ba 233.527†	96293.4	1276.9 ug/L	16.42	1276.9 ppb	16.42	1.29%
Be 313.107†	-4650.4	3.7023 ug/L	0.08190	3.7023 ppb	0.08190	2.21%
Ca 317.933Radial†	11572.4	38409 ug/L	167.5	38409 ppb	167.5	0.44%
Cd 226.502†	448.4	1.1720 ug/L	0.15643	1.1720 ppb	0.15643	13.35%
Co 228.616†	988.9	30.805 ug/L	0.1606	30.805 ppb	0.1606	0.52%
Cr 267.716†	7939.2	165.09 ug/L	1.428	165.09 ppb	1.428	0.87%
Cu 324.752†	14133.3	67.733 ug/L	0.9167	67.733 ppb	0.9167	1.35%
Fe 238.204 Radial†	2958.8	75559 ug/L	771.6	75559 ppb	771.6	1.02%
K 766.490 Radial†	45023.3	12233 ug/L	53.4	12233 ppb	53.4	0.44%

Mg 279.077 IEC†	168.1	13140 ug/L	86.6	13140 ppb	86.6	0.66%
Mn 257.610†	2884776.8	5290.1 ug/L	117.31	5290.1 ppb	117.31	2.22%
Mo 202.031†	-25.3	2.7567 ug/L	0.37137	2.7567 ppb	0.37137	13.47%
Na 589.592 Radial†	845.1	513.88 ug/L	6.104	513.88 ppb	6.104	1.19%
Ni 231.604†	2049.9	93.061 ug/L	0.7955	93.061 ppb	0.7955	0.85%
P 214.914†	2699.1	2818.2 ug/L	42.84	2818.2 ppb	42.84	1.52%
Pb 220.353†	407.8	94.165 ug/L	3.9377	94.165 ppb	3.9377	4.18%
S 181.975 Axial†	665.2	1698.8 ug/L	30.87	1698.8 ppb	30.87	1.82%
Sb 206.836†	20.6	2.1833 ug/L	2.67681	2.1833 ppb	2.67681	122.60%
Se 196.026†	-226.5	24.528 ug/L	7.1075	24.528 ppb	7.1075	28.98%
Si 251.611†	167883.0	8982.2 ug/L	109.83	8982.2 ppb	109.83	1.22%
Sn 189.927†	-154.9	-40.882 ug/L	1.8454	-40.882 ppb	1.8454	4.51%
Sr 421.552†	20280.9	266.69 ug/L	1.475	266.69 ppb	1.475	0.55%
Ti 334.940†	1196783.2	2829.1 ug/L	62.84	2829.1 ppb	62.84	2.22%
Tl 190.801†	-95.1	-5.9377 ug/L	3.36367	-5.9377 ppb	3.36367	56.65%
U 409.014†	-3034.1	-137.70 ug/L	3.261	-137.70 ppb	3.261	2.37%
V 292.402†	11859.3	116.66 ug/L	1.908	116.66 ppb	1.908	1.64%
Zn 213.857†	14338.2	233.49 ug/L	3.316	233.49 ppb	3.316	1.42%
SiO2†	168904.0	18819 ug/L	293.9	18819 ppb	293.9	1.56%

Sequence No.: 15

Sample ID: 248511005|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 4/12/2010 20:35:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511005|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2808.8	2808.8	107 %		20:37:30
1	Y RADIAL	3421.2	3421.2	117.3 %		20:37:10
1	Al 396.153Radial†	33104.6	30978.2	43349 ug/L	43349 ppb	20:37:10
1	Ca 317.933Radial†	8563.8	7982.5	26494 ug/L	26494 ppb	20:37:10
1	Fe 238.204 Radial†	3605.8	3359.8	85797 ug/L	85797 ppb	20:37:30
1	K 766.490 Radial†	41853.3	36626.2	9954.0 ug/L	9954.0 ppb	20:37:10
1	Mg 279.077 IEC†	169.7	158.3	12359 ug/L	12359 ppb	20:37:30
1	Na 589.592 Radial†	-192.3	765.0	465.16 ug/L	465.16 ppb	20:37:10
1	Sr 421.552†	16320.3	15217.3	200.12 ug/L	200.12 ppb	20:37:10
1	Sc 361.383	651264.5	651264.5	108.56 %		20:38:27
1	Y 371.029	588073.0	588073.0	116.47 %		20:38:27
1	Ag 328.068†	-3568.2	-3368.8	1.5245 ug/L	1.5245 ppb	20:38:32
1	As 188.979†	-12.9	5.8	45.043 ug/L	45.043 ppb	20:38:52
1	B 249.677†	1003.3	1263.4	34.756 ug/L	34.756 ppb	20:38:32
1	Ba 233.527†	45084.8	41520.2	552.98 ug/L	552.98 ppb	20:38:32
1	Be 313.107†	-10165.3	-6097.4	3.0790 ug/L	3.0790 ppb	20:38:32
1	Cd 226.502†	350.5	484.5	0.7668 ug/L	0.7668 ppb	20:38:52
1	Co 228.616†	755.7	725.2	20.209 ug/L	20.209 ppb	20:38:52
1	Cr 267.716†	2970.5	2658.5	65.873 ug/L	65.873 ppb	20:38:52
1	Cu 324.752†	15345.2	8969.9	45.716 ug/L	45.716 ppb	20:38:32
1	Mn 257.610†	1200944.4	1105942.5	2034.6 ug/L	2034.6 ppb	20:38:27
1	Mo 202.031†	-11.7	-22.1	3.6482 ug/L	3.6482 ppb	20:38:52
1	Ni 231.604†	972.6	818.2	36.811 ug/L	36.811 ppb	20:38:52
1	P 214.914†	1788.5	1485.4	1510.8 ug/L	1510.8 ppb	20:38:52
1	Pb 220.353†	337.5	355.1	79.102 ug/L	79.102 ppb	20:38:52
1	S 181.975 Axial†	526.5	462.3	1178.6 ug/L	1178.6 ppb	20:38:52
1	Sb 206.836†	44.9	15.9	-0.2558 ug/L	-0.2558 ppb	20:38:52
1	Se 196.026†	-281.4	-244.6	42.769 ug/L	42.769 ppb	20:38:52
1	Si 251.611†	133470.5	122592.2	6559.0 ug/L	6559.0 ppb	20:38:32
1	Sn 189.927†	-129.4	-126.0	-34.118 ug/L	-34.118 ppb	20:38:52
1	Ti 334.940†	1342742.1	1237959.7	2925.0 ug/L	2925.0 ppb	20:38:27
1	Tl 190.801†	-86.5	-52.6	2.5786 ug/L	2.5786 ppb	20:38:52
1	U 409.014†	-4641.9	-2998.2	-138.00 ug/L	-138.00 ppb	20:38:32
1	V 292.402†	15337.5	15376.3	153.70 ug/L	153.70 ppb	20:38:32
1	Zn 213.857†	18481.1	16517.3	269.67 ug/L	269.67 ppb	20:38:32
1	SiO2†	131261.4	120563.5	13433 ug/L	13433 ppb	20:40:00
2	Sc Radial	2865.4	2865.4	109 %		20:37:55
2	Y RADIAL	3429.2	3429.2	117.5 %		20:37:35
2	Al 396.153Radial†	33377.5	30617.5	42844 ug/L	42844 ppb	20:37:35
2	Ca 317.933Radial†	8628.8	7884.0	26167 ug/L	26167 ppb	20:37:35
2	Fe 238.204 Radial†	3601.4	3289.3	83998 ug/L	83998 ppb	20:37:55
2	K 766.490 Radial†	42148.2	36124.3	9817.6 ug/L	9817.6 ppb	20:37:35
2	Mg 279.077 IEC†	171.5	156.8	12244 ug/L	12244 ppb	20:37:55
2	Na 589.592 Radial†	-205.3	756.6	460.06 ug/L	460.06 ppb	20:37:35
2	Sr 421.552†	16463.0	15047.0	197.88 ug/L	197.88 ppb	20:37:35
2	Sc 361.383	638609.5	638609.5	106.45 %		20:38:58
2	Y 371.029	577355.1	577355.1	114.35 %		20:38:58
2	Ag 328.068†	-3542.7	-3410.0	0.7326 ug/L	0.7326 ppb	20:39:03
2	As 188.979†	-26.2	-6.9	34.734 ug/L	34.734 ppb	20:39:23
2	B 249.677†	1042.6	1318.6	37.179 ug/L	37.179 ppb	20:39:03
2	Ba 233.527†	43821.6	41156.6	548.10 ug/L	548.10 ppb	20:39:03
2	Be 313.107†	-9925.2	-6057.4	3.1164 ug/L	3.1164 ppb	20:39:03
2	Cd 226.502†	336.6	477.9	0.8238 ug/L	0.8238 ppb	20:39:23
2	Co 228.616†	747.3	731.0	20.439 ug/L	20.439 ppb	20:39:23
2	Cr 267.716†	2927.2	2672.0	65.823 ug/L	65.823 ppb	20:39:23
2	Cu 324.752†	15020.1	8944.7	45.479 ug/L	45.479 ppb	20:39:03
2	Mn 257.610†	1178415.6	1106700.8	2035.8 ug/L	2035.8 ppb	20:38:58
2	Mo 202.031†	-15.3	-25.7	3.0482 ug/L	3.0482 ppb	20:39:23
2	Ni 231.604†	936.5	802.0	36.084 ug/L	36.084 ppb	20:39:23

2	P 214.914†	1729.2	1462.4	1487.8 ug/L	1487.8 ppb	20:39:23
2	Pb 220.353†	326.7	351.0	78.308 ug/L	78.308 ppb	20:39:23
2	S 181.975 Axial†	521.8	467.5	1192.0 ug/L	1192.0 ppb	20:39:23
2	Sb 206.836†	36.9	9.2	-4.2164 ug/L	-4.2164 ppb	20:39:23
2	Se 196.026†	-282.9	-251.1	27.871 ug/L	27.871 ppb	20:39:23
2	Si 251.611†	129591.3	121384.4	6494.4 ug/L	6494.4 ppb	20:39:03
2	Sn 189.927†	-117.5	-117.2	-31.319 ug/L	-31.319 ppb	20:39:23
2	Ti 334.940†	1319447.0	1240586.8	2931.2 ug/L	2931.2 ppb	20:38:58
2	Tl 190.801†	-82.9	-50.8	3.6296 ug/L	3.6296 ppb	20:39:23
2	U 409.014†	-4664.3	-3103.9	-141.93 ug/L	-141.93 ppb	20:39:03
2	V 292.402†	14890.8	15236.5	152.39 ug/L	152.39 ppb	20:39:03
2	Zn 213.857†	17953.0	16358.6	267.24 ug/L	267.24 ppb	20:39:03
2	SiO2†	130669.9	122403.9	13638 ug/L	13638 ppb	20:40:05
3	Sc Radial	2908.6	2908.6	111 %		20:38:20
3	Y RADIAL	3575.9	3575.9	122.6 %		20:38:00
3	Al 396.153Radial†	34606.1	31271.2	43759 ug/L	43759 ppb	20:38:00
3	Ca 317.933Radial†	8941.6	8048.7	26714 ug/L	26714 ppb	20:38:00
3	Fe 238.204 Radial†	3669.9	3302.1	84324 ug/L	84324 ppb	20:38:20
3	K 766.490 Radial†	43540.0	36805.9	10003 ug/L	10003 ppb	20:38:00
3	Mg 279.077 IEC†	171.0	154.0	12026 ug/L	12026 ppb	20:38:20
3	Na 589.592 Radial†	-198.8	765.3	465.36 ug/L	465.36 ppb	20:38:00
3	Sr 421.552†	17039.6	15342.9	201.77 ug/L	201.77 ppb	20:38:00
3	Sc 361.383	643901.7	643901.7	107.33 %		20:39:29
3	Y 371.029	582275.0	582275.0	115.32 %		20:39:29
3	Ag 328.068†	-3547.2	-3386.8	0.9737 ug/L	0.9737 ppb	20:39:34
3	As 188.979†	-28.3	-8.7	33.441 ug/L	33.441 ppb	20:39:54
3	B 249.677†	1000.6	1271.4	35.306 ug/L	35.306 ppb	20:39:34
3	Ba 233.527†	44360.6	41320.4	550.28 ug/L	550.28 ppb	20:39:34
3	Be 313.107†	-10029.5	-6077.9	3.0997 ug/L	3.0997 ppb	20:39:34
3	Cd 226.502†	359.7	496.8	1.1906 ug/L	1.1906 ppb	20:39:54
3	Co 228.616†	731.6	710.7	19.671 ug/L	19.671 ppb	20:39:54
3	Cr 267.716†	2904.0	2627.8	65.031 ug/L	65.031 ppb	20:39:54
3	Cu 324.752†	15168.1	8966.6	45.595 ug/L	45.595 ppb	20:39:34
3	Mn 257.610†	1185878.0	1104554.9	2031.9 ug/L	2031.9 ppb	20:39:29
3	Mo 202.031†	-23.1	-32.9	2.1430 ug/L	2.1430 ppb	20:39:54
3	Ni 231.604†	922.0	781.3	35.137 ug/L	35.137 ppb	20:39:54
3	P 214.914†	1725.5	1445.6	1469.6 ug/L	1469.6 ppb	20:39:54
3	Pb 220.353†	324.6	346.6	77.486 ug/L	77.486 ppb	20:39:54
3	S 181.975 Axial†	516.1	458.2	1167.9 ug/L	1167.9 ppb	20:39:54
3	Sb 206.836†	37.4	9.4	-4.1751 ug/L	-4.1751 ppb	20:39:54
3	Se 196.026†	-292.3	-257.7	21.278 ug/L	21.278 ppb	20:39:54
3	Si 251.611†	131304.1	121979.6	6526.3 ug/L	6526.3 ppb	20:39:34
3	Sn 189.927†	-126.1	-124.3	-33.521 ug/L	-33.521 ppb	20:39:54
3	Ti 334.940†	1329431.3	1239701.6	2929.2 ug/L	2929.2 ppb	20:39:29
3	Tl 190.801†	-89.4	-56.2	0.6292 ug/L	0.6292 ppb	20:39:54
3	U 409.014†	-4527.7	-2940.6	-135.38 ug/L	-135.38 ppb	20:39:34
3	V 292.402†	15065.5	15284.4	152.87 ug/L	152.87 ppb	20:39:34
3	Zn 213.857†	18137.0	16391.4	267.76 ug/L	267.76 ppb	20:39:34
3	SiO2†	130448.3	121188.6	13502 ug/L	13502 ppb	20:40:10

Mean Data: 248511005|973758|1

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	644591.9	107.44	%	1.059			0.99%
Sc Radial	2860.9	109	%	1.9			1.75%
Y 371.029	582567.7	115.38	%	1.063			0.92%
Y RADIAL	3475.4	119.1	%	2.99			2.51%
Ag 328.068†	-3388.5	1.0770	ug/L	0.40592	1.0770 ppb	0.40592	37.69%
Al 396.153Radial†	30955.6	43317	ug/L	458.2	43317 ppb	458.2	1.06%
As 188.979†	-3.3	37.739	ug/L	6.3581	37.739 ppb	6.3581	16.85%
B 249.677†	1284.5	35.747	ug/L	1.2702	35.747 ppb	1.2702	3.55%
Ba 233.527†	41332.4	550.45	ug/L	2.447	550.45 ppb	2.447	0.44%
Be 313.107†	-6077.6	3.0984	ug/L	0.01873	3.0984 ppb	0.01873	0.60%
Ca 317.933Radial†	7971.7	26458	ug/L	275.0	26458 ppb	275.0	1.04%
Cd 226.502†	486.4	0.9271	ug/L	0.23003	0.9271 ppb	0.23003	24.81%
Co 228.616†	722.3	20.107	ug/L	0.3939	20.107 ppb	0.3939	1.96%
Cr 267.716†	2652.8	65.576	ug/L	0.4727	65.576 ppb	0.4727	0.72%
Cu 324.752†	8960.4	45.597	ug/L	0.1186	45.597 ppb	0.1186	0.26%
Fe 238.204 Radial†	3317.0	84706	ug/L	958.8	84706 ppb	958.8	1.13%
K 766.490 Radial†	36518.8	9924.8	ug/L	96.01	9924.8 ppb	96.01	0.97%

Mg 279.077 IEC†	156.3	12210 ug/L	169.0	12210 ppb	169.0	1.38%
Mn 257.610†	1105732.7	2034.1 ug/L	1.99	2034.1 ppb	1.99	0.10%
Mo 202.031†	-26.9	2.9464 ug/L	0.75775	2.9464 ppb	0.75775	25.72%
Na 589.592 Radial†	762.3	463.53 ug/L	3.006	463.53 ppb	3.006	0.65%
Ni 231.604†	800.5	36.011 ug/L	0.8397	36.011 ppb	0.8397	2.33%
P 214.914†	1464.5	1489.4 ug/L	20.64	1489.4 ppb	20.64	1.39%
Pb 220.353†	350.9	78.299 ug/L	0.8077	78.299 ppb	0.8077	1.03%
S 181.975 Axial†	462.7	1179.5 ug/L	12.07	1179.5 ppb	12.07	1.02%
Sb 206.836†	11.5	-2.8824 ug/L	2.27483	-2.8824 ppb	2.27483	78.92%
Se 196.026†	-251.1	30.639 ug/L	11.0097	30.639 ppb	11.0097	35.93%
Si 251.611†	121985.4	6526.5 ug/L	32.31	6526.5 ppb	32.31	0.50%
Sn 189.927†	-122.5	-32.986 ug/L	1.4744	-32.986 ppb	1.4744	4.47%
Sr 421.552†	15202.4	199.93 ug/L	1.953	199.93 ppb	1.953	0.98%
Ti 334.940†	1239416.0	2928.5 ug/L	3.15	2928.5 ppb	3.15	0.11%
Tl 190.801†	-53.2	2.2791 ug/L	1.52245	2.2791 ppb	1.52245	66.80%
U 409.014†	-3014.2	-138.44 ug/L	3.294	-138.44 ppb	3.294	2.38%
V 292.402†	15299.1	152.99 ug/L	0.666	152.99 ppb	0.666	0.44%
Zn 213.857†	16422.4	268.22 ug/L	1.279	268.22 ppb	1.279	0.48%
SiO2†	121385.3	13524 ug/L	104.3	13524 ppb	104.3	0.77%

Sequence No.: 16
 Sample ID: 248511006|973758|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 49
 Date Collected: 4/12/2010 20:42:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511006|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2809.8	2809.8	107 %		20:44:35
1	Y RADIAL	3527.2	3527.2	120.9 %		20:44:15
1	Al 396.153Radial†	14808.2	13894.0	19442 ug/L	19442 ppb	20:44:15
1	Ca 317.933Radial†	5426.5	5052.1	16768 ug/L	16768 ppb	20:44:15
1	Fe 238.204 Radial†	2211.6	2057.5	52542 ug/L	52542 ppb	20:44:35
1	K 766.490 Radial†	22236.3	18306.7	4973.0 ug/L	4973.0 ppb	20:44:15
1	Mg 279.077 IEC†	76.3	71.0	5530.6 ug/L	5530.6 ppb	20:44:35
1	Na 589.592 Radial†	-45.1	902.4	548.70 ug/L	548.70 ppb	20:44:15
1	Sr 421.552†	9735.5	9067.3	119.24 ug/L	119.24 ppb	20:44:15
1	Sc 361.383	652124.3	652124.3	108.70 %		20:45:32
1	Y 371.029	605871.2	605871.2	119.99 %		20:45:32
1	Ag 328.068†	-2039.9	-1958.5	1.5201 ug/L	1.5201 ppb	20:45:38
1	As 188.979†	-19.0	0.2	24.648 ug/L	24.648 ppb	20:45:58
1	B 249.677†	650.9	937.9	27.632 ug/L	27.632 ppb	20:45:38
1	Ba 233.527†	30099.3	27679.3	368.33 ug/L	368.33 ppb	20:45:38
1	Be 313.107†	-6493.7	-2707.3	2.4023 ug/L	2.4023 ppb	20:45:38
1	Cd 226.502†	181.8	328.9	1.1707 ug/L	1.1707 ppb	20:45:58
1	Co 228.616†	374.4	373.5	9.7727 ug/L	9.7727 ppb	20:45:58
1	Cr 267.716†	6626.7	6018.5	124.30 ug/L	124.30 ppb	20:45:58
1	Cu 324.752†	14029.6	7740.9	37.934 ug/L	37.934 ppb	20:45:38
1	Mn 257.610†	2328549.8	2141846.7	3927.5 ug/L	3927.5 ppb	20:45:32
1	Mo 202.031†	18.1	5.3	4.7049 ug/L	4.7049 ppb	20:45:58
1	Ni 231.604†	1746.0	1528.5	69.421 ug/L	69.421 ppb	20:45:58
1	P 214.914†	1218.3	958.7	973.65 ug/L	973.65 ppb	20:45:58
1	Pb 220.353†	318.2	336.9	73.741 ug/L	73.741 ppb	20:45:58
1	S 181.975 Axial†	380.8	327.6	837.91 ug/L	837.91 ppb	20:45:58
1	Sb 206.836†	37.4	9.0	-0.2504 ug/L	-0.2504 ppb	20:45:58
1	Se 196.026†	-181.9	-152.7	22.531 ug/L	22.531 ppb	20:45:58
1	Si 251.611†	144754.9	132811.4	7105.7 ug/L	7105.7 ppb	20:45:38
1	Sn 189.927†	-74.3	-75.2	-20.121 ug/L	-20.121 ppb	20:45:58
1	Ti 334.940†	806278.2	742798.6	1755.3 ug/L	1755.3 ppb	20:45:32
1	Tl 190.801†	-86.3	-52.4	3.1309 ug/L	3.1309 ppb	20:45:58
1	U 409.014†	-5119.4	-3431.8	-149.26 ug/L	-149.26 ppb	20:45:38
1	V 292.402†	4489.3	5377.6	49.842 ug/L	49.842 ppb	20:45:58
1	Zn 213.857†	28970.2	26144.6	440.61 ug/L	440.61 ppb	20:45:38
1	SiO2†	144104.8	132219.6	14731 ug/L	14731 ppb	20:47:05
2	Sc Radial	2849.3	2849.3	109 %		20:45:00
2	Y RADIAL	3615.2	3615.2	123.9 %		20:44:40
2	Al 396.153Radial†	15036.7	13913.0	19469 ug/L	19469 ppb	20:44:40
2	Ca 317.933Radial†	5489.2	5039.6	16727 ug/L	16727 ppb	20:44:40
2	Fe 238.204 Radial†	2238.5	2053.7	52444 ug/L	52444 ppb	20:45:00
2	K 766.490 Radial†	22540.6	18299.5	4971.1 ug/L	4971.1 ppb	20:44:40
2	Mg 279.077 IEC†	77.7	71.3	5553.8 ug/L	5553.8 ppb	20:45:00
2	Na 589.592 Radial†	-76.1	874.5	531.75 ug/L	531.75 ppb	20:44:40
2	Sr 421.552†	9814.3	9014.0	118.53 ug/L	118.53 ppb	20:44:40
2	Sc 361.383	657177.9	657177.9	109.54 %		20:46:03
2	Y 371.029	609776.5	609776.5	120.77 %		20:46:03
2	Ag 328.068†	-2101.2	-2000.0	1.1995 ug/L	1.1995 ppb	20:46:09
2	As 188.979†	-12.8	6.0	29.097 ug/L	29.097 ppb	20:46:29
2	B 249.677†	655.2	937.3	27.622 ug/L	27.622 ppb	20:46:09
2	Ba 233.527†	29964.7	27343.5	363.88 ug/L	363.88 ppb	20:46:09
2	Be 313.107†	-6526.5	-2691.3	2.3716 ug/L	2.3716 ppb	20:46:09
2	Cd 226.502†	197.8	342.2	1.4643 ug/L	1.4643 ppb	20:46:29
2	Co 228.616†	376.6	372.8	9.7791 ug/L	9.7791 ppb	20:46:29
2	Cr 267.716†	6657.5	5999.7	123.92 ug/L	123.92 ppb	20:46:29
2	Cu 324.752†	14069.6	7678.2	37.647 ug/L	37.647 ppb	20:46:09
2	Mn 257.610†	2324157.9	2121364.0	3890.0 ug/L	3890.0 ppb	20:46:03
2	Mo 202.031†	2.8	-8.8	2.8583 ug/L	2.8583 ppb	20:46:29
2	Ni 231.604†	1746.6	1516.7	68.882 ug/L	68.882 ppb	20:46:29

2	P 214.914†	1207.2	939.9	953.67 ug/L	953.67 ppb	20:46:29
2	Pb 220.353†	296.7	315.0	68.821 ug/L	68.821 ppb	20:46:29
2	S 181.975 Axial†	392.9	335.9	859.25 ug/L	859.25 ppb	20:46:29
2	Sb 206.836†	27.8	-0.1	-5.6412 ug/L	-5.6412 ppb	20:46:29
2	Se 196.026†	-187.5	-156.5	17.586 ug/L	17.586 ppb	20:46:29
2	Si 251.611†	144446.6	131505.9	7035.9 ug/L	7035.9 ppb	20:46:09
2	Sn 189.927†	-83.4	-83.0	-22.699 ug/L	-22.699 ppb	20:46:29
2	Ti 334.940†	804326.9	735313.2	1737.6 ug/L	1737.6 ppb	20:46:03
2	Tl 190.801†	-101.9	-66.0	-4.6882 ug/L	-4.6882 ppb	20:46:29
2	U 409.014†	-4974.2	-3263.0	-142.41 ug/L	-142.41 ppb	20:46:09
2	V 292.402†	4487.9	5344.6	49.500 ug/L	49.500 ppb	20:46:29
2	Zn 213.857†	28904.3	25879.4	436.07 ug/L	436.07 ppb	20:46:09
2	SiO2†	144271.2	131352.1	14635 ug/L	14635 ppb	20:47:10
3	Sc Radial	2855.5	2855.5	109 %		20:45:25
3	Y RADIAL	3622.4	3622.4	124.1 %		20:45:05
3	Al 396.153Radial†	15157.0	13993.1	19581 ug/L	19581 ppb	20:45:05
3	Ca 317.933Radial†	5564.4	5097.6	16919 ug/L	16919 ppb	20:45:05
3	Fe 238.204 Radial†	2238.0	2048.7	52317 ug/L	52317 ppb	20:45:25
3	K 766.490 Radial†	22753.6	18449.5	5011.9 ug/L	5011.9 ppb	20:45:05
3	Mg 279.077 IEC†	76.6	70.2	5465.9 ug/L	5465.9 ppb	20:45:25
3	Na 589.592 Radial†	-103.8	849.2	516.38 ug/L	516.38 ppb	20:45:05
3	Sr 421.552†	9921.0	9092.2	119.56 ug/L	119.56 ppb	20:45:05
3	Sc 361.383	657861.4	657861.4	109.66 %		20:46:34
3	Y 371.029	611218.2	611218.2	121.05 %		20:46:34
3	Ag 328.068†	-2096.3	-1993.6	1.2100 ug/L	1.2100 ppb	20:46:40
3	As 188.979†	-15.2	3.8	27.309 ug/L	27.309 ppb	20:47:00
3	B 249.677†	697.8	975.5	29.118 ug/L	29.118 ppb	20:46:40
3	Ba 233.527†	30197.0	27527.0	366.30 ug/L	366.30 ppb	20:46:40
3	Be 313.107†	-6565.2	-2720.5	2.3467 ug/L	2.3467 ppb	20:46:40
3	Cd 226.502†	196.6	340.9	1.4512 ug/L	1.4512 ppb	20:47:00
3	Co 228.616†	371.9	368.2	9.6201 ug/L	9.6201 ppb	20:47:00
3	Cr 267.716†	6625.2	5963.9	123.22 ug/L	123.22 ppb	20:47:00
3	Cu 324.752†	14130.1	7720.1	37.824 ug/L	37.824 ppb	20:46:40
3	Mn 257.610†	2318914.3	2114377.9	3877.2 ug/L	3877.2 ppb	20:46:34
3	Mo 202.031†	20.1	7.0	4.9172 ug/L	4.9172 ppb	20:47:00
3	Ni 231.604†	1753.6	1521.5	69.101 ug/L	69.101 ppb	20:47:00
3	P 214.914†	1223.3	953.5	968.33 ug/L	968.33 ppb	20:47:00
3	Pb 220.353†	311.5	328.2	71.847 ug/L	71.847 ppb	20:47:00
3	S 181.975 Axial†	381.1	324.9	830.75 ug/L	830.75 ppb	20:47:00
3	Sb 206.836†	38.2	9.4	0.0100 ug/L	0.0100 ppb	20:47:00
3	Se 196.026†	-177.5	-147.2	28.300 ug/L	28.300 ppb	20:47:00
3	Si 251.611†	145601.3	132421.9	7084.9 ug/L	7084.9 ppb	20:46:40
3	Sn 189.927†	-84.9	-84.3	-23.081 ug/L	-23.081 ppb	20:47:00
3	Ti 334.940†	803563.1	733853.9	1734.2 ug/L	1734.2 ppb	20:46:34
3	Tl 190.801†	-103.7	-67.5	-5.6224 ug/L	-5.6224 ppb	20:47:00
3	U 409.014†	-5092.4	-3366.1	-146.56 ug/L	-146.56 ppb	20:46:40
3	V 292.402†	4522.2	5371.5	49.835 ug/L	49.835 ppb	20:47:00
3	Zn 213.857†	29048.9	25983.9	437.89 ug/L	437.89 ppb	20:46:40
3	SiO2†	142759.6	129836.8	14466 ug/L	14466 ppb	20:47:15

Mean Data: 248511006|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	655721.2	109.30 %	0.522			0.48%
Sc Radial	2838.2	108 %	0.9			0.87%
Y 371.029	608955.3	120.60 %	0.548			0.45%
Y RADIAL	3588.3	123.0 %	1.82			1.48%
Ag 328.068†	-1984.0	1.3099 ug/L	0.18213	1.3099 ppb	0.18213	13.90%
Al 396.153Radial†	13933.4	19497 ug/L	73.6	19497 ppb	73.6	0.38%
As 188.979†	3.3	27.018 ug/L	2.2389	27.018 ppb	2.2389	8.29%
B 249.677†	950.2	28.124 ug/L	0.8606	28.124 ppb	0.8606	3.06%
Ba 233.527†	27516.6	366.17 ug/L	2.226	366.17 ppb	2.226	0.61%
Be 313.107†	-2706.3	2.3735 ug/L	0.02786	2.3735 ppb	0.02786	1.17%
Ca 317.933Radial†	5063.1	16805 ug/L	101.4	16805 ppb	101.4	0.60%
Cd 226.502†	337.4	1.3621 ug/L	0.16587	1.3621 ppb	0.16587	12.18%
Co 228.616†	371.5	9.7240 ug/L	0.09002	9.7240 ppb	0.09002	0.93%
Cr 267.716†	5994.0	123.81 ug/L	0.550	123.81 ppb	0.550	0.44%
Cu 324.752†	7713.1	37.802 ug/L	0.1444	37.802 ppb	0.1444	0.38%
Fe 238.204 Radial†	2053.3	52435 ug/L	112.9	52435 ppb	112.9	0.22%
K 766.490 Radial†	18351.9	4985.3 ug/L	23.00	4985.3 ppb	23.00	0.46%

Mg 279.077 IEC†	70.8	5516.8 ug/L	45.53	5516.8 ppb	45.53	0.83%
Mn 257.610†	2125862.9	3898.2 ug/L	26.15	3898.2 ppb	26.15	0.67%
Mo 202.031†	1.1	4.1601 ug/L	1.13238	4.1601 ppb	1.13238	27.22%
Na 589.592 Radial†	875.4	532.28 ug/L	16.171	532.28 ppb	16.171	3.04%
Ni 231.604†	1522.2	69.135 ug/L	0.2713	69.135 ppb	0.2713	0.39%
P 214.914†	950.7	965.22 ug/L	10.351	965.22 ppb	10.351	1.07%
Pb 220.353†	326.7	71.470 ug/L	2.4817	71.470 ppb	2.4817	3.47%
S 181.975 Axial†	329.5	842.64 ug/L	14.828	842.64 ppb	14.828	1.76%
Sb 206.836†	6.1	-1.9605 ug/L	3.19019	-1.9605 ppb	3.19019	162.72%
Se 196.026†	-152.1	22.806 ug/L	5.3626	22.806 ppb	5.3626	23.51%
Si 251.611†	132246.4	7075.5 ug/L	35.84	7075.5 ppb	35.84	0.51%
Sn 189.927†	-80.9	-21.967 ug/L	1.6102	-21.967 ppb	1.6102	7.33%
Sr 421.552†	9057.8	119.11 ug/L	0.525	119.11 ppb	0.525	0.44%
Ti 334.940†	737321.9	1742.4 ug/L	11.32	1742.4 ppb	11.32	0.65%
Tl 190.801†	-62.0	-2.3932 ug/L	4.80677	-2.3932 ppb	4.80677	200.85%
U 409.014†	-3353.6	-146.08 ug/L	3.450	-146.08 ppb	3.450	2.36%
V 292.402†	5364.6	49.726 ug/L	0.1957	49.726 ppb	0.1957	0.39%
Zn 213.857†	26002.6	438.19 ug/L	2.286	438.19 ppb	2.286	0.52%
SiO2†	131136.1	14611 ug/L	134.4	14611 ppb	134.4	0.92%

Sequence No.: 17
 Sample ID: 248511007|973758|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 50
 Date Collected: 4/12/2010 20:49:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511007|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2790.8	2790.8	106 %		20:51:40
1	Y RADIAL	3490.2	3490.2	119.6 %		20:51:20
1	Al 396.153Radial†	43119.2	40585.1	56792 ug/L	56792 ppb	20:51:20
1	Ca 317.933Radial†	5657.4	5303.4	17602 ug/L	17602 ppb	20:51:20
1	Fe 238.204 Radial†	4525.4	4245.3	108410 ug/L	108410 ppb	20:51:20
1	K 766.490 Radial†	44446.1	39313.1	10687 ug/L	10687 ppb	20:51:20
1	Mg 279.077 IEC†	191.9	180.1	14055 ug/L	14055 ppb	20:51:40
1	Na 589.592 Radial†	218.4	1149.6	699.04 ug/L	699.04 ppb	20:51:20
1	Sr 421.552†	13282.1	12461.0	163.90 ug/L	163.90 ppb	20:51:20
1	Sc 361.383	636100.1	636100.1	106.03 %		20:52:38
1	Y 371.029	589066.2	589066.2	116.67 %		20:52:38
1	Ag 328.068†	-4623.4	-4442.4	0.8647 ug/L	0.8647 ppb	20:52:43
1	As 188.979†	-19.6	-0.8	48.773 ug/L	48.773 ppb	20:53:03
1	B 249.677†	717.5	1015.8	21.520 ug/L	21.520 ppb	20:52:43
1	Ba 233.527†	36554.7	34465.3	460.68 ug/L	460.68 ppb	20:52:43
1	Be 313.107†	-11577.5	-7652.6	3.4211 ug/L	3.4211 ppb	20:52:43
1	Cd 226.502†	451.1	587.1	0.4302 ug/L	0.4302 ppb	20:53:03
1	Co 228.616†	807.1	790.3	21.134 ug/L	21.134 ppb	20:53:03
1	Cr 267.716†	3740.2	3449.7	84.967 ug/L	84.967 ppb	20:53:03
1	Cu 324.752†	13509.1	7575.2	41.208 ug/L	41.208 ppb	20:52:43
1	Mn 257.610†	904867.4	853072.5	1574.3 ug/L	1574.3 ppb	20:52:38
1	Mo 202.031†	-0.2	-11.6	6.4282 ug/L	6.4282 ppb	20:53:03
1	Ni 231.604†	1070.5	931.9	41.862 ug/L	41.862 ppb	20:53:03
1	P 214.914†	1256.3	1022.8	997.77 ug/L	997.77 ppb	20:53:03
1	Pb 220.353†	327.8	353.3	78.623 ug/L	78.623 ppb	20:53:03
1	S 181.975 Axial†	317.7	276.9	698.88 ug/L	698.88 ppb	20:53:03
1	Sb 206.836†	53.1	24.6	3.4652 ug/L	3.4652 ppb	20:53:03
1	Se 196.026†	-350.7	-316.1	45.626 ug/L	45.626 ppb	20:53:03
1	Si 251.611†	178602.9	168089.7	8993.2 ug/L	8993.2 ppb	20:52:43
1	Sn 189.927†	-72.5	-75.2	-19.217 ug/L	-19.217 ppb	20:53:03
1	Ti 334.940†	1558594.5	1471027.4	3474.1 ug/L	3474.1 ppb	20:52:38
1	Tl 190.801†	-90.6	-58.4	1.2803 ug/L	1.2803 ppb	20:53:03
1	U 409.014†	-5564.7	-3970.4	-181.74 ug/L	-181.74 ppb	20:52:43
1	V 292.402†	19092.5	19254.6	192.53 ug/L	192.53 ppb	20:52:43
1	Zn 213.857†	22110.2	20346.0	331.77 ug/L	331.77 ppb	20:52:43
1	SiO2†	175465.4	165136.9	18399 ug/L	18399 ppb	20:54:10
2	Sc Radial	2806.3	2806.3	107 %		20:52:05
2	Y RADIAL	3511.5	3511.5	120.3 %		20:51:45
2	Al 396.153Radial†	42667.3	39939.6	55889 ug/L	55889 ppb	20:51:45
2	Ca 317.933Radial†	5595.2	5216.0	17312 ug/L	17312 ppb	20:51:45
2	Fe 238.204 Radial†	4467.5	4167.8	106430 ug/L	106430 ppb	20:51:45
2	K 766.490 Radial†	44064.9	38726.9	10528 ug/L	10528 ppb	20:51:45
2	Mg 279.077 IEC†	188.0	175.4	13689 ug/L	13689 ppb	20:52:05
2	Na 589.592 Radial†	248.3	1176.5	715.36 ug/L	715.36 ppb	20:51:45
2	Sr 421.552†	13132.8	12252.7	161.16 ug/L	161.16 ppb	20:51:45
2	Sc 361.383	643183.3	643183.3	107.21 %		20:53:09
2	Y 371.029	595653.1	595653.1	117.97 %		20:53:09
2	Ag 328.068†	-4768.0	-4529.2	-0.2855 ug/L	-0.2855 ppb	20:53:14
2	As 188.979†	-24.0	-4.7	45.285 ug/L	45.285 ppb	20:53:34
2	B 249.677†	776.5	1063.4	23.679 ug/L	23.679 ppb	20:53:14
2	Ba 233.527†	37200.8	34688.3	463.56 ug/L	463.56 ppb	20:53:14
2	Be 313.107†	-11776.0	-7717.4	3.3614 ug/L	3.3614 ppb	20:53:14
2	Cd 226.502†	443.6	575.4	0.4025 ug/L	0.4025 ppb	20:53:34
2	Co 228.616†	813.9	788.2	21.105 ug/L	21.105 ppb	20:53:34
2	Cr 267.716†	3729.6	3401.0	83.697 ug/L	83.697 ppb	20:53:34
2	Cu 324.752†	13850.0	7752.8	41.849 ug/L	41.849 ppb	20:53:14
2	Mn 257.610†	913157.4	851406.7	1571.0 ug/L	1571.0 ppb	20:53:09
2	Mo 202.031†	-6.4	-17.4	5.5255 ug/L	5.5255 ppb	20:53:34
2	Ni 231.604†	1075.7	925.6	41.588 ug/L	41.588 ppb	20:53:34

2	P 214.914†	1223.6	979.2	952.58 ug/L	952.58 ppb	20:53:34
2	Pb 220.353†	322.4	344.8	76.752 ug/L	76.752 ppb	20:53:34
2	S 181.975 Axial†	316.0	272.1	686.51 ug/L	686.51 ppb	20:53:34
2	Sb 206.836†	50.3	21.5	1.6476 ug/L	1.6476 ppb	20:53:34
2	Se 196.026†	-354.3	-315.8	38.189 ug/L	38.189 ppb	20:53:34
2	Si 251.611†	182489.7	169860.1	9087.9 ug/L	9087.9 ppb	20:53:14
2	Sn 189.927†	-71.7	-73.7	-18.819 ug/L	-18.819 ppb	20:53:34
2	Ti 334.940†	1571570.4	1466942.4	3464.5 ug/L	3464.5 ppb	20:53:09
2	Tl 190.801†	-77.2	-44.9	8.6057 ug/L	8.6057 ppb	20:53:34
2	U 409.014†	-5585.1	-3931.7	-179.79 ug/L	-179.79 ppb	20:53:14
2	V 292.402†	19460.3	19399.3	194.36 ug/L	194.36 ppb	20:53:14
2	Zn 213.857†	22450.5	20433.8	333.61 ug/L	333.61 ppb	20:53:14
2	SiO2†	176453.7	164236.2	18299 ug/L	18299 ppb	20:54:16
3	Sc Radial	2808.1	2808.1	107 %		20:52:30
3	Y RADIAL	3536.3	3536.3	121.2 %		20:52:10
3	Al 396.153Radial†	43076.4	40295.5	56387 ug/L	56387 ppb	20:52:10
3	Ca 317.933Radial†	5639.8	5254.3	17439 ug/L	17439 ppb	20:52:10
3	Fe 238.204 Radial†	4494.5	4190.3	107010 ug/L	107010 ppb	20:52:10
3	K 766.490 Radial†	44467.7	39076.0	10623 ug/L	10623 ppb	20:52:10
3	Mg 279.077 IEC†	187.9	175.3	13674 ug/L	13674 ppb	20:52:30
3	Na 589.592 Radial†	197.8	1129.2	686.60 ug/L	686.60 ppb	20:52:10
3	Sr 421.552†	13237.9	12342.8	162.35 ug/L	162.35 ppb	20:52:10
3	Sc 361.383	636885.4	636885.4	106.16 %		20:53:40
3	Y 371.029	590420.9	590420.9	116.93 %		20:53:40
3	Ag 328.068†	-4716.0	-4524.2	-0.0942 ug/L	-0.0942 ppb	20:53:45
3	As 188.979†	-17.7	1.1	49.775 ug/L	49.775 ppb	20:54:05
3	B 249.677†	771.3	1065.8	23.675 ug/L	23.675 ppb	20:53:45
3	Ba 233.527†	36541.4	34410.2	459.90 ug/L	459.90 ppb	20:53:45
3	Be 313.107†	-11624.0	-7682.9	3.3443 ug/L	3.3443 ppb	20:53:45
3	Cd 226.502†	458.7	593.7	0.7285 ug/L	0.7285 ppb	20:54:05
3	Co 228.616†	815.3	797.0	21.461 ug/L	21.461 ppb	20:54:05
3	Cr 267.716†	3765.6	3469.2	85.099 ug/L	85.099 ppb	20:54:05
3	Cu 324.752†	13651.5	7693.7	41.628 ug/L	41.628 ppb	20:53:45
3	Mn 257.610†	901444.5	848796.0	1566.3 ug/L	1566.3 ppb	20:53:40
3	Mo 202.031†	-2.5	-13.7	6.0478 ug/L	6.0478 ppb	20:54:05
3	Ni 231.604†	1074.8	934.7	42.001 ug/L	42.001 ppb	20:54:05
3	P 214.914†	1249.0	1014.4	989.94 ug/L	989.94 ppb	20:54:05
3	Pb 220.353†	336.7	361.3	80.500 ug/L	80.500 ppb	20:54:05
3	S 181.975 Axial†	320.7	279.4	705.23 ug/L	705.23 ppb	20:54:05
3	Sb 206.836†	42.4	14.5	-2.4987 ug/L	-2.4987 ppb	20:54:05
3	Se 196.026†	-355.7	-320.4	34.903 ug/L	34.903 ppb	20:54:05
3	Si 251.611†	176394.0	165801.2	8870.8 ug/L	8870.8 ppb	20:53:45
3	Sn 189.927†	-79.6	-81.8	-21.459 ug/L	-21.459 ppb	20:54:05
3	Ti 334.940†	1548793.2	1459982.3	3448.0 ug/L	3448.0 ppb	20:53:40
3	Tl 190.801†	-99.8	-67.0	-3.6688 ug/L	-3.6688 ppb	20:54:05
3	U 409.014†	-5483.8	-3887.8	-178.12 ug/L	-178.12 ppb	20:53:45
3	V 292.402†	19202.9	19336.3	193.63 ug/L	193.63 ppb	20:53:45
3	Zn 213.857†	22127.2	20336.2	331.84 ug/L	331.84 ppb	20:53:45
3	SiO2†	176746.9	166140.0	18511 ug/L	18511 ppb	20:54:21

Mean Data: 248511007|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	638722.9	106.47 %	0.647			0.61%
Sc Radial	2801.8	107 %	0.4			0.34%
Y 371.029	591713.4	117.19 %	0.689			0.59%
Y RADIAL	3512.7	120.4 %	0.79			0.66%
Ag 328.068†	-4498.6	0.1617 ug/L	0.61628	0.1617 ppb	0.61628	381.21%
Al 396.153Radial†	40273.4	56356 ug/L	452.4	56356 ppb	452.4	0.80%
As 188.979†	-1.5	47.944 ug/L	2.3570	47.944 ppb	2.3570	4.92%
B 249.677†	1048.3	22.958 ug/L	1.2452	22.958 ppb	1.2452	5.42%
Ba 233.527†	34521.2	461.38 ug/L	1.925	461.38 ppb	1.925	0.42%
Be 313.107†	-7684.3	3.3756 ug/L	0.04036	3.3756 ppb	0.04036	1.20%
Ca 317.933Radial†	5257.9	17451 ug/L	145.4	17451 ppb	145.4	0.83%
Cd 226.502†	585.4	0.5204 ug/L	0.18075	0.5204 ppb	0.18075	34.73%
Co 228.616†	791.8	21.233 ug/L	0.1978	21.233 ppb	0.1978	0.93%
Cr 267.716†	3439.9	84.588 ug/L	0.7743	84.588 ppb	0.7743	0.92%
Cu 324.752†	7673.9	41.561 ug/L	0.3255	41.561 ppb	0.3255	0.78%
Fe 238.204 Radial†	4201.1	107280 ug/L	1018.3	107280 ppb	1018.3	0.95%
K 766.490 Radial†	39038.6	10613 ug/L	80.2	10613 ppb	80.2	0.76%

Mg 279.077 IEC†	176.9	13806 ug/L	216.1	13806 ppb	216.1	1.57%
Mn 257.610†	851091.8	1570.5 ug/L	4.01	1570.5 ppb	4.01	0.26%
Mo 202.031†	-14.2	6.0005 ug/L	0.45323	6.0005 ppb	0.45323	7.55%
Na 589.592 Radial†	1151.8	700.33 ug/L	14.421	700.33 ppb	14.421	2.06%
Ni 231.604†	930.7	41.817 ug/L	0.2098	41.817 ppb	0.2098	0.50%
P 214.914†	1005.5	980.10 ug/L	24.149	980.10 ppb	24.149	2.46%
Pb 220.353†	353.1	78.625 ug/L	1.8738	78.625 ppb	1.8738	2.38%
S 181.975 Axial†	276.1	696.87 ug/L	9.520	696.87 ppb	9.520	1.37%
Sb 206.836†	20.2	0.8714 ug/L	3.05677	0.8714 ppb	3.05677	350.80%
Se 196.026†	-317.4	39.573 ug/L	5.4938	39.573 ppb	5.4938	13.88%
Si 251.611†	167917.0	8984.0 ug/L	108.88	8984.0 ppb	108.88	1.21%
Sn 189.927†	-76.9	-19.831 ug/L	1.4232	-19.831 ppb	1.4232	7.18%
Sr 421.552†	12352.2	162.47 ug/L	1.374	162.47 ppb	1.374	0.85%
Ti 334.940†	1465984.0	3462.2 ug/L	13.18	3462.2 ppb	13.18	0.38%
Tl 190.801†	-56.8	2.0724 ug/L	6.17548	2.0724 ppb	6.17548	297.99%
U 409.014†	-3930.0	-179.88 ug/L	1.809	-179.88 ppb	1.809	1.01%
V 292.402†	19330.1	193.51 ug/L	0.925	193.51 ppb	0.925	0.48%
Zn 213.857†	20372.0	332.41 ug/L	1.044	332.41 ppb	1.044	0.31%
SiO2†	165171.0	18403 ug/L	106.1	18403 ppb	106.1	0.58%

Sequence No.: 18

Sample ID: 248511008|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 51

Date Collected: 4/12/2010 20:56:31

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511008|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2892.1	2892.1	110 %		20:58:44
1	Y RADIAL	3674.7	3674.7	125.9 %		20:58:24
1	Al 396.153Radial†	36402.4	33077.4	46286 ug/L	46286 ppb	20:58:24
1	Ca 317.933Radial†	5742.4	5194.4	17240 ug/L	17240 ppb	20:58:24
1	Fe 238.204 Radial†	4170.0	3774.2	96382 ug/L	96382 ppb	20:58:24
1	K 766.490 Radial†	39903.8	33733.0	9169.5 ug/L	9169.5 ppb	20:58:24
1	Mg 279.077 IEC†	169.6	153.6	11982 ug/L	11982 ppb	20:58:44
1	Na 589.592 Radial†	262.9	1182.9	719.25 ug/L	719.25 ppb	20:58:24
1	Sr 421.552†	15331.6	13882.0	182.61 ug/L	182.61 ppb	20:58:24
1	Sc 361.383	643310.9	643310.9	107.23 %		20:59:41
1	Y 371.029	596203.1	596203.1	118.08 %		20:59:41
1	Ag 328.068†	-4013.8	-3825.1	1.5819 ug/L	1.5819 ppb	20:59:47
1	As 188.979†	-27.1	-7.6	39.036 ug/L	39.036 ppb	21:00:07
1	B 249.677†	412.9	724.2	12.188 ug/L	12.188 ppb	20:59:47
1	Ba 233.527†	49316.3	45979.9	612.42 ug/L	612.42 ppb	20:59:47
1	Be 313.107†	-10504.0	-6529.1	3.4950 ug/L	3.4950 ppb	20:59:47
1	Cd 226.502†	392.8	528.0	0.5589 ug/L	0.5589 ppb	21:00:07
1	Co 228.616†	1101.8	1056.5	31.882 ug/L	31.882 ppb	21:00:07
1	Cr 267.716†	11922.8	11041.0	228.09 ug/L	228.09 ppb	20:59:47
1	Cu 324.752†	15941.3	9700.6	49.705 ug/L	49.705 ppb	20:59:47
1	Mn 257.610†	1084960.7	1011456.8	1862.9 ug/L	1862.9 ppb	20:59:41
1	Mo 202.031†	-24.6	-34.3	2.6107 ug/L	2.6107 ppb	21:00:07
1	Ni 231.604†	2782.0	2516.6	114.23 ug/L	114.23 ppb	21:00:07
1	P 214.914†	1119.0	881.5	853.08 ug/L	853.08 ppb	21:00:07
1	Pb 220.353†	375.9	394.7	87.097 ug/L	87.097 ppb	21:00:07
1	S 181.975 Axial†	299.2	256.4	648.43 ug/L	648.43 ppb	21:00:07
1	Sb 206.836†	51.7	22.7	3.2083 ug/L	3.2083 ppb	21:00:07
1	Se 196.026†	-305.9	-270.6	53.004 ug/L	53.004 ppb	21:00:07
1	Si 251.611†	208704.4	194273.4	10394 ug/L	10394 ppb	20:59:47
1	Sn 189.927†	-83.0	-84.2	-22.434 ug/L	-22.434 ppb	21:00:07
1	Ti 334.940†	1459941.0	1362548.9	3218.1 ug/L	3218.1 ppb	20:59:41
1	Tl 190.801†	-85.8	-52.9	3.7338 ug/L	3.7338 ppb	21:00:07
1	U 409.014†	-5208.0	-3579.0	-163.90 ug/L	-163.90 ppb	20:59:47
1	V 292.402†	16442.0	16580.9	165.04 ug/L	165.04 ppb	20:59:47
1	Zn 213.857†	18798.0	17023.3	276.13 ug/L	276.13 ppb	20:59:47
1	SiO2†	210940.1	196364.7	21878 ug/L	21878 ppb	21:01:14
2	Sc Radial	2881.8	2881.8	110 %		20:59:09
2	Y RADIAL	3652.8	3652.8	125.2 %		20:58:49
2	Al 396.153Radial†	36384.3	33179.3	46429 ug/L	46429 ppb	20:58:49
2	Ca 317.933Radial†	5705.4	5179.4	17190 ug/L	17190 ppb	20:58:49
2	Fe 238.204 Radial†	4179.0	3796.0	96937 ug/L	96937 ppb	20:58:49
2	K 766.490 Radial†	39881.4	33842.5	9199.3 ug/L	9199.3 ppb	20:58:49
2	Mg 279.077 IEC†	168.0	152.7	11908 ug/L	11908 ppb	20:59:09
2	Na 589.592 Radial†	326.1	1241.2	754.70 ug/L	754.70 ppb	20:58:49
2	Sr 421.552†	15298.1	13901.4	182.87 ug/L	182.87 ppb	20:58:49
2	Sc 361.383	644730.2	644730.2	107.47 %		21:00:12
2	Y 371.029	596387.7	596387.7	118.12 %		21:00:12
2	Ag 328.068†	-4112.6	-3908.8	1.1764 ug/L	1.1764 ppb	21:00:18
2	As 188.979†	-25.1	-5.7	40.554 ug/L	40.554 ppb	21:00:38
2	B 249.677†	390.9	702.9	11.279 ug/L	11.279 ppb	21:00:18
2	Ba 233.527†	49918.5	46439.1	618.52 ug/L	618.52 ppb	21:00:18
2	Be 313.107†	-10484.5	-6489.3	3.4989 ug/L	3.4989 ppb	21:00:18
2	Cd 226.502†	391.2	525.7	0.4483 ug/L	0.4483 ppb	21:00:38
2	Co 228.616†	1091.3	1044.5	31.444 ug/L	31.444 ppb	21:00:38
2	Cr 267.716†	12087.1	11169.4	230.65 ug/L	230.65 ppb	21:00:18
2	Cu 324.752†	16107.9	9822.9	50.283 ug/L	50.283 ppb	21:00:18
2	Mn 257.610†	1087602.2	1011687.4	1863.4 ug/L	1863.4 ppb	21:00:12
2	Mo 202.031†	-8.9	-19.6	4.5636 ug/L	4.5636 ppb	21:00:38
2	Ni 231.604†	2759.2	2489.8	113.00 ug/L	113.00 ppb	21:00:38

2	P 214.914†	1113.9	874.4	844.88 ug/L	844.88 ppb	21:00:38
2	Pb 220.353†	390.7	407.7	89.992 ug/L	89.992 ppb	21:00:38
2	S 181.975 Axial†	300.4	256.8	649.53 ug/L	649.53 ppb	21:00:38
2	Sb 206.836†	49.2	20.4	1.8671 ug/L	1.8671 ppb	21:00:38
2	Se 196.026†	-313.6	-277.2	47.280 ug/L	47.280 ppb	21:00:38
2	Si 251.611†	212485.1	197363.0	10559 ug/L	10559 ppb	21:00:18
2	Sn 189.927†	-84.6	-85.6	-22.875 ug/L	-22.875 ppb	21:00:38
2	Ti 334.940†	1459277.6	1358934.4	3209.5 ug/L	3209.5 ppb	21:00:12
2	Tl 190.801†	-90.4	-57.1	1.4002 ug/L	1.4002 ppb	21:00:38
2	U 409.014†	-5231.7	-3590.3	-164.47 ug/L	-164.47 ppb	21:00:18
2	V 292.402†	16786.4	16867.6	168.13 ug/L	168.13 ppb	21:00:18
2	Zn 213.857†	19056.7	17225.5	279.52 ug/L	279.52 ppb	21:00:18
2	SiO2†	209363.9	194464.9	21666 ug/L	21666 ppb	21:01:19
3	Sc Radial	2872.9	2872.9	110 %		20:59:34
3	Y RADIAL	3644.4	3644.4	124.9 %		20:59:14
3	Al 396.153Radial†	36358.1	33257.9	46539 ug/L	46539 ppb	20:59:14
3	Ca 317.933Radial†	5704.5	5194.6	17241 ug/L	17241 ppb	20:59:14
3	Fe 238.204 Radial†	4156.0	3786.8	96702 ug/L	96702 ppb	20:59:14
3	K 766.490 Radial†	39894.0	33966.2	9232.9 ug/L	9232.9 ppb	20:59:14
3	Mg 279.077 IEC†	166.2	151.5	11819 ug/L	11819 ppb	20:59:34
3	Na 589.592 Radial†	324.2	1240.4	754.20 ug/L	754.20 ppb	20:59:14
3	Sr 421.552†	15306.4	13952.1	183.54 ug/L	183.54 ppb	20:59:14
3	Sc 361.383	640316.3	640316.3	106.73 %		21:00:43
3	Y 371.029	592568.1	592568.1	117.36 %		21:00:43
3	Ag 328.068†	-4015.6	-3844.3	1.5621 ug/L	1.5621 ppb	21:00:49
3	As 188.979†	-21.8	-2.7	42.888 ug/L	42.888 ppb	21:01:09
3	B 249.677†	447.3	758.2	13.450 ug/L	13.450 ppb	21:00:49
3	Ba 233.527†	50086.6	46916.8	624.84 ug/L	624.84 ppb	21:00:49
3	Be 313.107†	-10610.5	-6674.7	3.4055 ug/L	3.4055 ppb	21:00:49
3	Cd 226.502†	406.1	542.1	0.8247 ug/L	0.8247 ppb	21:01:09
3	Co 228.616†	1102.2	1061.7	32.089 ug/L	32.089 ppb	21:01:09
3	Cr 267.716†	12168.6	11323.3	233.55 ug/L	233.55 ppb	21:00:49
3	Cu 324.752†	16151.8	9967.3	50.903 ug/L	50.903 ppb	21:00:49
3	Mn 257.610†	1082503.6	1013886.7	1867.4 ug/L	1867.4 ppb	21:00:43
3	Mo 202.031†	8.8	-3.1	6.7088 ug/L	6.7088 ppb	21:01:09
3	Ni 231.604†	2811.4	2556.4	116.04 ug/L	116.04 ppb	21:01:09
3	P 214.914†	1119.6	886.9	858.37 ug/L	858.37 ppb	21:01:09
3	Pb 220.353†	391.9	411.4	90.892 ug/L	90.892 ppb	21:01:09
3	S 181.975 Axial†	304.7	262.8	664.81 ug/L	664.81 ppb	21:01:09
3	Sb 206.836†	47.3	18.8	0.9873 ug/L	0.9873 ppb	21:01:09
3	Se 196.026†	-326.8	-291.5	29.092 ug/L	29.092 ppb	21:01:09
3	Si 251.611†	210012.4	196409.2	10508 ug/L	10508 ppb	21:00:49
3	Sn 189.927†	-85.1	-86.6	-23.215 ug/L	-23.215 ppb	21:01:09
3	Ti 334.940†	1452224.9	1361686.9	3216.0 ug/L	3216.0 ppb	21:00:43
3	Tl 190.801†	-96.4	-63.2	-1.9432 ug/L	-1.9432 ppb	21:01:09
3	U 409.014†	-5271.0	-3660.7	-167.28 ug/L	-167.28 ppb	21:00:49
3	V 292.402†	16824.7	17011.2	169.75 ug/L	169.75 ppb	21:00:49
3	Zn 213.857†	19114.3	17401.8	282.57 ug/L	282.57 ppb	21:00:49
3	SiO2†	214047.2	200195.8	22305 ug/L	22305 ppb	21:01:25

Mean Data: 248511008|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	642785.8	107.14 %	0.376			0.35%
Sc Radial	2882.3	110 %	0.4			0.33%
Y 371.029	595053.0	117.85 %	0.427			0.36%
Y RADIAL	3657.3	125.3 %	0.54			0.43%
Ag 328.068†	-3859.4	1.4401 ug/L	0.22857	1.4401 ppb	0.22857	15.87%
Al 396.153Radial†	33171.5	46418 ug/L	126.5	46418 ppb	126.5	0.27%
As 188.979†	-5.3	40.826 ug/L	1.9403	40.826 ppb	1.9403	4.75%
B 249.677†	728.5	12.306 ug/L	1.0905	12.306 ppb	1.0905	8.86%
Ba 233.527†	46445.2	618.59 ug/L	6.208	618.59 ppb	6.208	1.00%
Be 313.107†	-6564.3	3.4665 ug/L	0.05284	3.4665 ppb	0.05284	1.52%
Ca 317.933Radial†	5189.5	17224 ug/L	29.0	17224 ppb	29.0	0.17%
Cd 226.502†	531.9	0.6106 ug/L	0.19348	0.6106 ppb	0.19348	31.69%
Co 228.616†	1054.2	31.805 ug/L	0.3293	31.805 ppb	0.3293	1.04%
Cr 267.716†	11177.9	230.76 ug/L	2.734	230.76 ppb	2.734	1.18%
Cu 324.752†	9830.3	50.297 ug/L	0.5989	50.297 ppb	0.5989	1.19%
Fe 238.204 Radial†	3785.7	96674 ug/L	278.7	96674 ppb	278.7	0.29%
K 766.490 Radial†	33847.2	9200.6 ug/L	31.73	9200.6 ppb	31.73	0.34%

Mg 279.077 IEC†	152.6	11903 ug/L	81.7	11903 ppb	81.7	0.69%
Mn 257.610†	1012343.6	1864.5 ug/L	2.46	1864.5 ppb	2.46	0.13%
Mo 202.031†	-19.0	4.6277 ug/L	2.04979	4.6277 ppb	2.04979	44.29%
Na 589.592 Radial†	1221.5	742.72 ug/L	20.324	742.72 ppb	20.324	2.74%
Ni 231.604†	2520.9	114.42 ug/L	1.530	114.42 ppb	1.530	1.34%
P 214.914†	881.0	852.11 ug/L	6.800	852.11 ppb	6.800	0.80%
Pb 220.353†	404.6	89.327 ug/L	1.9831	89.327 ppb	1.9831	2.22%
S 181.975 Axial†	258.7	654.26 ug/L	9.155	654.26 ppb	9.155	1.40%
Sb 206.836†	20.6	2.0209 ug/L	1.11846	2.0209 ppb	1.11846	55.34%
Se 196.026†	-279.8	43.125 ug/L	12.4854	43.125 ppb	12.4854	28.95%
Si 251.611†	196015.2	10487 ug/L	84.6	10487 ppb	84.6	0.81%
Sn 189.927†	-85.5	-22.841 ug/L	0.3914	-22.841 ppb	0.3914	1.71%
Sr 421.552†	13911.8	183.01 ug/L	0.476	183.01 ppb	0.476	0.26%
Ti 334.940†	1361056.7	3214.5 ug/L	4.46	3214.5 ppb	4.46	0.14%
Tl 190.801†	-57.8	1.0636 ug/L	2.85342	1.0636 ppb	2.85342	268.28%
U 409.014†	-3610.0	-165.22 ug/L	1.810	-165.22 ppb	1.810	1.10%
V 292.402†	16819.9	167.64 ug/L	2.395	167.64 ppb	2.395	1.43%
Zn 213.857†	17216.9	279.41 ug/L	3.224	279.41 ppb	3.224	1.15%
SiO2†	197008.5	21950 ug/L	325.2	21950 ppb	325.2	1.48%

Sequence No.: 19

Sample ID: 248511009|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 4/12/2010 21:03:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511009|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2902.6	2902.6	111 %		21:05:48
1	Y RADIAL	3893.8	3893.8	133.5 %		21:05:28
1	Al 396.153Radial†	33880.3	30679.5	42931 ug/L	42931 ppb	21:05:28
1	Ca 317.933Radial†	14455.5	13045.8	43299 ug/L	43299 ppb	21:05:28
1	Fe 238.204 Radial†	4446.3	4010.1	102410 ug/L	102410 ppb	21:05:28
1	K 766.490 Radial†	64039.8	55403.2	15056 ug/L	15056 ppb	21:05:28
1	Mg 279.077 IEC†	172.3	155.5	12123 ug/L	12123 ppb	21:05:48
1	Na 589.592 Radial†	28.6	970.3	590.01 ug/L	590.01 ppb	21:05:28
1	Sr 421.552†	27144.3	24501.7	322.22 ug/L	322.22 ppb	21:05:28
1	Sc 361.383	641759.4	641759.4	106.97 %		21:06:45
1	Y 371.029	629642.8	629642.8	124.70 %		21:06:45
1	Ag 328.068†	-4354.6	-4152.7	0.5808 ug/L	0.5808 ppb	21:06:50
1	As 188.979†	-25.1	-5.8	39.809 ug/L	39.809 ppb	21:07:10
1	B 249.677†	1633.8	1866.5	55.323 ug/L	55.323 ppb	21:06:50
1	Ba 233.527†	64463.5	60251.1	801.32 ug/L	801.32 ppb	21:06:50
1	Be 313.107†	-6552.3	-2858.6	5.1052 ug/L	5.1052 ppb	21:06:50
1	Cd 226.502†	413.3	548.0	0.2859 ug/L	0.2859 ppb	21:07:10
1	Co 228.616†	897.1	867.6	25.286 ug/L	25.286 ppb	21:07:10
1	Cr 267.716†	8160.0	7550.3	162.32 ug/L	162.32 ppb	21:07:10
1	Cu 324.752†	17756.1	11433.0	57.805 ug/L	57.805 ppb	21:06:50
1	Mn 257.610†	1770001.6	1654298.2	3040.5 ug/L	3040.5 ppb	21:06:45
1	Mo 202.031†	-24.4	-34.1	3.5855 ug/L	3.5855 ppb	21:07:10
1	Ni 231.604†	2161.9	1943.3	88.039 ug/L	88.039 ppb	21:07:10
1	P 214.914†	2496.5	2171.7	2227.8 ug/L	2227.8 ppb	21:07:10
1	Pb 220.353†	361.3	381.9	83.144 ug/L	83.144 ppb	21:07:10
1	S 181.975 Axial†	431.3	380.5	968.46 ug/L	968.46 ppb	21:07:10
1	Sb 206.836†	48.0	19.4	1.6528 ug/L	1.6528 ppb	21:07:10
1	Se 196.026†	-333.0	-296.6	45.217 ug/L	45.217 ppb	21:07:10
1	Si 251.611†	127698.9	119017.8	6367.8 ug/L	6367.8 ppb	21:06:50
1	Sn 189.927†	-168.6	-164.4	-42.515 ug/L	-42.515 ppb	21:07:10
1	Ti 334.940†	1350475.1	1263508.7	2987.4 ug/L	2987.4 ppb	21:06:45
1	Tl 190.801†	-103.0	-69.2	-1.2721 ug/L	-1.2721 ppb	21:07:10
1	U 409.014†	-6997.6	-5263.6	-233.08 ug/L	-233.08 ppb	21:06:50
1	V 292.402†	12871.4	13280.2	128.29 ug/L	128.29 ppb	21:06:50
1	Zn 213.857†	27116.5	24842.1	409.80 ug/L	409.80 ppb	21:06:50
1	SiO2†	125969.8	117407.7	13081 ug/L	13081 ppb	21:08:18
2	Sc Radial	2875.1	2875.1	110 %		21:06:13
2	Y RADIAL	3866.9	3866.9	132.5 %		21:05:53
2	Al 396.153Radial†	33638.4	30751.7	43032 ug/L	43032 ppb	21:05:53
2	Ca 317.933Radial†	14278.6	13009.4	43178 ug/L	43178 ppb	21:05:53
2	Fe 238.204 Radial†	4393.9	4000.7	102170 ug/L	102170 ppb	21:05:53
2	K 766.490 Radial†	63304.1	55285.8	15024 ug/L	15024 ppb	21:05:53
2	Mg 279.077 IEC†	174.2	158.7	12380 ug/L	12380 ppb	21:06:13
2	Na 589.592 Radial†	-9.3	936.0	569.16 ug/L	569.16 ppb	21:05:53
2	Sr 421.552†	26852.3	24470.0	321.80 ug/L	321.80 ppb	21:05:53
2	Sc 361.383	635964.5	635964.5	106.01 %		21:07:16
2	Y 371.029	625055.0	625055.0	123.79 %		21:07:16
2	Ag 328.068†	-4167.8	-4013.6	1.4716 ug/L	1.4716 ppb	21:07:21
2	As 188.979†	-16.9	1.8	45.732 ug/L	45.732 ppb	21:07:41
2	B 249.677†	1574.2	1824.1	53.728 ug/L	53.728 ppb	21:07:21
2	Ba 233.527†	63557.8	59945.8	797.27 ug/L	797.27 ppb	21:07:21
2	Be 313.107†	-6600.3	-2959.7	5.0544 ug/L	5.0544 ppb	21:07:21
2	Cd 226.502†	415.7	553.8	0.4362 ug/L	0.4362 ppb	21:07:41
2	Co 228.616†	869.6	849.4	24.595 ug/L	24.595 ppb	21:07:41
2	Cr 267.716†	8069.9	7534.9	161.98 ug/L	161.98 ppb	21:07:41
2	Cu 324.752†	17540.3	11380.7	57.559 ug/L	57.559 ppb	21:07:21
2	Mn 257.610†	1753134.7	1653464.1	3039.0 ug/L	3039.0 ppb	21:07:16
2	Mo 202.031†	-15.6	-26.1	4.6181 ug/L	4.6181 ppb	21:07:41
2	Ni 231.604†	2143.8	1944.7	88.105 ug/L	88.105 ppb	21:07:41

2	P 214.914†	2454.4	2153.3	2208.3 ug/L	2208.3 ppb	21:07:41
2	Pb 220.353†	362.6	386.2	84.182 ug/L	84.182 ppb	21:07:41
2	S 181.975 Axial†	415.4	369.1	939.10 ug/L	939.10 ppb	21:07:41
2	Sb 206.836†	54.3	25.8	5.4494 ug/L	5.4494 ppb	21:07:41
2	Se 196.026†	-338.8	-304.9	34.311 ug/L	34.311 ppb	21:07:41
2	Si 251.611†	125888.2	118397.5	6334.6 ug/L	6334.6 ppb	21:07:21
2	Sn 189.927†	-161.3	-159.0	-40.753 ug/L	-40.753 ppb	21:07:41
2	Ti 334.940†	1339896.6	1265033.2	2990.9 ug/L	2990.9 ppb	21:07:16
2	Tl 190.801†	-109.9	-76.6	-5.3388 ug/L	-5.3388 ppb	21:07:41
2	U 409.014†	-7007.8	-5332.9	-235.83 ug/L	-235.83 ppb	21:07:21
2	V 292.402†	12667.9	13197.8	127.44 ug/L	127.44 ppb	21:07:21
2	Zn 213.857†	26716.9	24696.2	407.33 ug/L	407.33 ppb	21:07:21
2	SiO2†	125934.7	118447.5	13197 ug/L	13197 ppb	21:08:23
3	Sc Radial	2847.4	2847.4	109 %		21:06:38
3	Y RADIAL	3828.0	3828.0	131.2 %		21:06:18
3	Al 396.153Radial†	33759.3	31162.2	43606 ug/L	43606 ppb	21:06:18
3	Ca 317.933Radial†	14285.7	13143.0	43622 ug/L	43622 ppb	21:06:18
3	Fe 238.204 Radial†	4418.0	4062.0	103730 ug/L	103730 ppb	21:06:18
3	K 766.490 Radial†	63529.3	56056.1	15234 ug/L	15234 ppb	21:06:18
3	Mg 279.077 IEC†	172.7	158.8	12385 ug/L	12385 ppb	21:06:38
3	Na 589.592 Radial†	-73.4	876.9	533.22 ug/L	533.22 ppb	21:06:18
3	Sr 421.552†	26998.8	24843.7	326.71 ug/L	326.71 ppb	21:06:18
3	Sc 361.383	629003.6	629003.6	104.85 %		21:07:47
3	Y 371.029	618996.5	618996.5	122.59 %		21:07:47
3	Ag 328.068†	-4177.6	-4066.4	1.5470 ug/L	1.5470 ppb	21:07:52
3	As 188.979†	-25.3	-6.5	39.500 ug/L	39.500 ppb	21:08:12
3	B 249.677†	1528.2	1796.7	52.415 ug/L	52.415 ppb	21:07:52
3	Ba 233.527†	63178.1	60247.2	801.32 ug/L	801.32 ppb	21:07:52
3	Be 313.107†	-6555.0	-2985.3	5.0212 ug/L	5.0212 ppb	21:07:52
3	Cd 226.502†	428.5	570.3	0.6126 ug/L	0.6126 ppb	21:08:12
3	Co 228.616†	875.4	863.9	25.137 ug/L	25.137 ppb	21:08:12
3	Cr 267.716†	8025.6	7576.8	163.05 ug/L	163.05 ppb	21:08:12
3	Cu 324.752†	17346.3	11378.8	57.663 ug/L	57.663 ppb	21:07:52
3	Mn 257.610†	1730512.8	1650189.5	3033.2 ug/L	3033.2 ppb	21:07:47
3	Mo 202.031†	-20.7	-31.1	4.0786 ug/L	4.0786 ppb	21:08:12
3	Ni 231.604†	2128.0	1951.9	88.426 ug/L	88.426 ppb	21:08:12
3	P 214.914†	2447.0	2171.9	2226.9 ug/L	2226.9 ppb	21:08:12
3	Pb 220.353†	366.7	393.9	85.847 ug/L	85.847 ppb	21:08:12
3	S 181.975 Axial†	416.0	374.0	951.60 ug/L	951.60 ppb	21:08:12
3	Sb 206.836†	43.1	15.7	-0.4717 ug/L	-0.4717 ppb	21:08:12
3	Se 196.026†	-335.8	-305.7	39.560 ug/L	39.560 ppb	21:08:12
3	Si 251.611†	125074.4	118935.5	6363.4 ug/L	6363.4 ppb	21:07:52
3	Sn 189.927†	-154.2	-153.9	-38.954 ug/L	-38.954 ppb	21:08:12
3	Ti 334.940†	1321667.0	1261633.9	2982.9 ug/L	2982.9 ppb	21:07:47
3	Tl 190.801†	-93.8	-62.4	2.3794 ug/L	2.3794 ppb	21:08:12
3	U 409.014†	-6971.7	-5371.6	-237.70 ug/L	-237.70 ppb	21:07:52
3	V 292.402†	12547.3	13215.0	127.41 ug/L	127.41 ppb	21:07:52
3	Zn 213.857†	26603.5	24866.9	410.01 ug/L	410.01 ppb	21:07:52
3	SiO2†	123136.6	117093.5	13046 ug/L	13046 ppb	21:08:28

Mean Data: 248511009|973758|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	635575.9	105.94 %		1.065			1.00%
Sc Radial	2875.0	110 %		1.1			0.96%
Y 371.029	624564.8	123.70 %		1.058			0.86%
Y RADIAL	3862.9	132.4 %		1.13			0.86%
Ag 328.068†	-4077.6	1.1998 ug/L		0.53739	1.1998 ppb	0.53739	44.79%
Al 396.153Radial†	30864.5	43190 ug/L		364.3	43190 ppb	364.3	0.84%
As 188.979†	-3.5	41.680 ug/L		3.5121	41.680 ppb	3.5121	8.43%
B 249.677†	1829.1	53.822 ug/L		1.4562	53.822 ppb	1.4562	2.71%
Ba 233.527†	60148.0	799.97 ug/L		2.338	799.97 ppb	2.338	0.29%
Be 313.107†	-2934.5	5.0602 ug/L		0.04230	5.0602 ppb	0.04230	0.84%
Ca 317.933Radial†	13066.0	43366 ug/L		229.2	43366 ppb	229.2	0.53%
Cd 226.502†	557.4	0.4449 ug/L		0.16356	0.4449 ppb	0.16356	36.76%
Co 228.616†	860.3	25.006 ug/L		0.3635	25.006 ppb	0.3635	1.45%
Cr 267.716†	7554.0	162.45 ug/L		0.549	162.45 ppb	0.549	0.34%
Cu 324.752†	11397.5	57.676 ug/L		0.1238	57.676 ppb	0.1238	0.21%
Fe 238.204 Radial†	4024.3	102770 ug/L		842.7	102770 ppb	842.7	0.82%
K 766.490 Radial†	55581.7	15105 ug/L		112.8	15105 ppb	112.8	0.75%

Mg 279.077 IEC†	157.7	12296 ug/L	149.8	12296 ppb	149.8	1.22%
Mn 257.610†	1652650.6	3037.6 ug/L	3.89	3037.6 ppb	3.89	0.13%
Mo 202.031†	-30.4	4.0941 ug/L	0.51650	4.0941 ppb	0.51650	12.62%
Na 589.592 Radial†	927.8	564.13 ug/L	28.724	564.13 ppb	28.724	5.09%
Ni 231.604†	1946.6	88.190 ug/L	0.2072	88.190 ppb	0.2072	0.23%
P 214.914†	2165.6	2221.0 ug/L	11.00	2221.0 ppb	11.00	0.50%
Pb 220.353†	387.3	84.391 ug/L	1.3637	84.391 ppb	1.3637	1.62%
S 181.975 Axial†	374.6	953.05 ug/L	14.734	953.05 ppb	14.734	1.55%
Sb 206.836†	20.3	2.2101 ug/L	2.99963	2.2101 ppb	2.99963	135.72%
Se 196.026†	-302.4	39.696 ug/L	5.4545	39.696 ppb	5.4545	13.74%
Si 251.611†	118783.6	6355.3 ug/L	18.03	6355.3 ppb	18.03	0.28%
Sn 189.927†	-159.1	-40.741 ug/L	1.7805	-40.741 ppb	1.7805	4.37%
Sr 421.552†	24605.2	323.58 ug/L	2.726	323.58 ppb	2.726	0.84%
Ti 334.940†	1263391.9	2987.1 ug/L	3.99	2987.1 ppb	3.99	0.13%
Tl 190.801†	-69.4	-1.4105 ug/L	3.86100	-1.4105 ppb	3.86100	273.73%
U 409.014†	-5322.7	-235.54 ug/L	2.327	-235.54 ppb	2.327	0.99%
V 292.402†	13231.0	127.72 ug/L	0.502	127.72 ppb	0.502	0.39%
Zn 213.857†	24801.7	409.05 ug/L	1.489	409.05 ppb	1.489	0.36%
SiO2†	117649.6	13108 ug/L	78.9	13108 ppb	78.9	0.60%

Sequence No.: 20

Sample ID: 248511010|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 53

Date Collected: 4/12/2010 21:10:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511010|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2773.1	2773.1	106 %		21:12:52
1	Y RADIAL	3658.9	3658.9	125.4 %		21:12:32
1	Al 396.153Radial†	26923.4	25531.3	35727 ug/L	35727 ppb	21:12:32
1	Ca 317.933Radial†	19073.4	18021.6	59814 ug/L	59814 ppb	21:12:32
1	Fe 238.204 Radial†	3099.5	2924.4	74679 ug/L	74679 ppb	21:12:52
1	K 766.490 Radial†	57981.8	52377.2	14228 ug/L	14228 ppb	21:12:32
1	Mg 279.077 IEC†	153.9	145.4	11356 ug/L	11356 ppb	21:12:52
1	Na 589.592 Radial†	-210.4	745.6	453.34 ug/L	453.34 ppb	21:12:32
1	Sr 421.552†	34098.9	32222.1	423.72 ug/L	423.72 ppb	21:12:32
1	Sc 361.383	618414.3	618414.3	103.08 %		21:13:49
1	Y 371.029	579746.0	579746.0	114.82 %		21:13:49
1	Ag 328.068†	-2878.9	-2874.7	1.1062 ug/L	1.1062 ppb	21:13:55
1	As 188.979†	-28.2	-9.7	26.176 ug/L	26.176 ppb	21:14:15
1	B 249.677†	2032.6	2311.0	77.006 ug/L	77.006 ppb	21:13:55
1	Ba 233.527†	86796.9	84192.1	1116.8 ug/L	1116.8 ppb	21:13:55
1	Be 313.107†	-6223.6	-2771.0	3.7331 ug/L	3.7331 ppb	21:13:55
1	Cd 226.502†	293.6	446.5	1.2030 ug/L	1.2030 ppb	21:14:15
1	Co 228.616†	651.9	661.4	19.402 ug/L	19.402 ppb	21:14:15
1	Cr 267.716†	4656.3	4439.3	97.964 ug/L	97.964 ppb	21:14:15
1	Cu 324.752†	20345.8	14571.9	69.616 ug/L	69.616 ppb	21:13:55
1	Mn 257.610†	2431610.9	2358599.9	4326.7 ug/L	4326.7 ppb	21:13:49
1	Mo 202.031†	-35.2	-45.5	0.4924 ug/L	0.4924 ppb	21:14:15
1	Ni 231.604†	1435.2	1314.6	59.526 ug/L	59.526 ppb	21:14:15
1	P 214.914†	2874.6	2626.6	2737.1 ug/L	2737.1 ppb	21:14:15
1	Pb 220.353†	340.3	374.2	83.783 ug/L	83.783 ppb	21:14:15
1	S 181.975 Axial†	499.0	461.4	1177.9 ug/L	1177.9 ppb	21:14:15
1	Sb 206.836†	37.5	10.9	-1.8552 ug/L	-1.8552 ppb	21:14:15
1	Se 196.026†	-246.7	-224.7	23.029 ug/L	23.029 ppb	21:14:15
1	Si 251.611†	125932.6	121810.7	6517.2 ug/L	6517.2 ppb	21:13:55
1	Sn 189.927†	-185.4	-186.7	-46.214 ug/L	-46.214 ppb	21:14:15
1	Ti 334.940†	1027654.5	997992.8	2362.5 ug/L	2362.5 ppb	21:13:49
1	Tl 190.801†	-106.8	-76.6	-3.8568 ug/L	-3.8568 ppb	21:14:15
1	U 409.014†	-4985.7	-3558.8	-158.61 ug/L	-158.61 ppb	21:13:55
1	V 292.402†	9247.8	10219.0	99.251 ug/L	99.251 ppb	21:13:55
1	Zn 213.857†	21575.1	20423.2	338.53 ug/L	338.53 ppb	21:13:55
1	SiO2†	125638.0	121531.2	13541 ug/L	13541 ppb	21:15:22
2	Sc Radial	2730.5	2730.5	104 %		21:13:17
2	Y RADIAL	3589.1	3589.1	123.0 %		21:12:57
2	Al 396.153Radial†	26676.6	25691.6	35951 ug/L	35951 ppb	21:12:57
2	Ca 317.933Radial†	18825.0	18064.5	59957 ug/L	59957 ppb	21:12:57
2	Fe 238.204 Radial†	3118.6	2988.4	76314 ug/L	76314 ppb	21:13:17
2	K 766.490 Radial†	57382.9	52657.6	14305 ug/L	14305 ppb	21:12:57
2	Mg 279.077 IEC†	151.3	145.1	11337 ug/L	11337 ppb	21:13:17
2	Na 589.592 Radial†	-253.1	701.4	426.51 ug/L	426.51 ppb	21:12:57
2	Sr 421.552†	33671.5	32314.8	424.94 ug/L	424.94 ppb	21:12:57
2	Sc 361.383	617894.2	617894.2	102.99 %		21:14:20
2	Y 371.029	578921.1	578921.1	114.66 %		21:14:20
2	Ag 328.068†	-2816.9	-2816.9	1.9566 ug/L	1.9566 ppb	21:14:26
2	As 188.979†	-25.9	-7.5	28.033 ug/L	28.033 ppb	21:14:46
2	B 249.677†	2047.2	2326.9	77.353 ug/L	77.353 ppb	21:14:26
2	Ba 233.527†	86442.0	83918.3	1113.2 ug/L	1113.2 ppb	21:14:26
2	Be 313.107†	-6260.8	-2812.1	3.6561 ug/L	3.6561 ppb	21:14:26
2	Cd 226.502†	295.3	448.4	1.0627 ug/L	1.0627 ppb	21:14:46
2	Co 228.616†	648.2	658.4	19.314 ug/L	19.314 ppb	21:14:46
2	Cr 267.716†	4672.5	4458.8	98.614 ug/L	98.614 ppb	21:14:46
2	Cu 324.752†	20346.0	14588.8	69.803 ug/L	69.803 ppb	21:14:26
2	Mn 257.610†	2403444.2	2333237.4	4280.5 ug/L	4280.5 ppb	21:14:20
2	Mo 202.031†	-24.4	-35.1	1.9784 ug/L	1.9784 ppb	21:14:46
2	Ni 231.604†	1422.5	1303.4	59.006 ug/L	59.006 ppb	21:14:46

2	P 214.914†	2865.1	2619.7	2728.2 ug/L	2728.2 ppb	21:14:46
2	Pb 220.353†	341.7	375.9	83.992 ug/L	83.992 ppb	21:14:46
2	S 181.975 Axial†	505.0	467.6	1194.0 ug/L	1194.0 ppb	21:14:46
2	Sb 206.836†	37.0	10.5	-1.9814 ug/L	-1.9814 ppb	21:14:46
2	Se 196.026†	-253.1	-231.1	21.734 ug/L	21.734 ppb	21:14:46
2	Si 251.611†	125583.5	121574.6	6504.6 ug/L	6504.6 ppb	21:14:26
2	Sn 189.927†	-185.9	-187.4	-46.377 ug/L	-46.377 ppb	21:14:46
2	Ti 334.940†	1016605.3	988103.9	2339.2 ug/L	2339.2 ppb	21:14:20
2	Tl 190.801†	-106.7	-76.5	-4.2126 ug/L	-4.2126 ppb	21:14:46
2	U 409.014†	-4813.7	-3395.9	-152.33 ug/L	-152.33 ppb	21:14:26
2	V 292.402†	9145.9	10127.6	98.092 ug/L	98.092 ppb	21:14:26
2	Zn 213.857†	21452.8	20322.1	336.53 ug/L	336.53 ppb	21:14:26
2	SiO2†	125861.1	121850.5	13576 ug/L	13576 ppb	21:15:27
3	Sc Radial	2742.5	2742.5	105 %		21:13:42
3	Y RADIAL	3559.4	3559.4	122.0 %		21:13:22
3	Al 396.153Radial†	26562.7	25471.1	35643 ug/L	35643 ppb	21:13:22
3	Ca 317.933Radial†	18788.6	17951.0	59580 ug/L	59580 ppb	21:13:22
3	Fe 238.204 Radial†	3095.7	2953.4	75421 ug/L	75421 ppb	21:13:42
3	K 766.490 Radial†	57145.3	52190.5	14178 ug/L	14178 ppb	21:13:22
3	Mg 279.077 IEC†	154.3	147.4	11515 ug/L	11515 ppb	21:13:42
3	Na 589.592 Radial†	-272.4	684.1	415.98 ug/L	415.98 ppb	21:13:22
3	Sr 421.552†	33479.3	31990.2	420.67 ug/L	420.67 ppb	21:13:22
3	Sc 361.383	615768.8	615768.8	102.64 %		21:14:51
3	Y 371.029	577126.4	577126.4	114.30 %		21:14:51
3	Ag 328.068†	-2872.7	-2880.7	1.2706 ug/L	1.2706 ppb	21:14:57
3	As 188.979†	-23.9	-5.6	29.479 ug/L	29.479 ppb	21:15:17
3	B 249.677†	2097.5	2382.7	79.651 ug/L	79.651 ppb	21:14:57
3	Ba 233.527†	86609.6	84371.3	1119.2 ug/L	1119.2 ppb	21:14:57
3	Be 313.107†	-6177.4	-2751.9	3.7256 ug/L	3.7256 ppb	21:14:57
3	Cd 226.502†	300.5	454.5	1.2909 ug/L	1.2909 ppb	21:15:17
3	Co 228.616†	662.9	674.9	19.916 ug/L	19.916 ppb	21:15:17
3	Cr 267.716†	4673.0	4474.9	98.771 ug/L	98.771 ppb	21:15:17
3	Cu 324.752†	20208.5	14523.0	69.453 ug/L	69.453 ppb	21:14:57
3	Mn 257.610†	2414251.8	2351821.6	4314.4 ug/L	4314.4 ppb	21:14:51
3	Mo 202.031†	-39.3	-49.7	-0.0028 ug/L	-0.0028 ppb	21:15:17
3	Ni 231.604†	1427.3	1312.8	59.439 ug/L	59.439 ppb	21:15:17
3	P 214.914†	2871.4	2635.5	2746.0 ug/L	2746.0 ppb	21:15:17
3	Pb 220.353†	331.8	367.4	82.120 ug/L	82.120 ppb	21:15:17
3	S 181.975 Axial†	494.9	459.5	1173.1 ug/L	1173.1 ppb	21:15:17
3	Sb 206.836†	35.6	9.2	-2.8639 ug/L	-2.8639 ppb	21:15:17
3	Se 196.026†	-241.5	-220.7	30.725 ug/L	30.725 ppb	21:15:17
3	Si 251.611†	125071.0	121496.2	6500.4 ug/L	6500.4 ppb	21:14:57
3	Sn 189.927†	-194.9	-196.8	-49.574 ug/L	-49.574 ppb	21:15:17
3	Ti 334.940†	1019697.0	994522.9	2354.3 ug/L	2354.3 ppb	21:14:51
3	Tl 190.801†	-99.7	-70.1	-0.4144 ug/L	-0.4144 ppb	21:15:17
3	U 409.014†	-4912.9	-3508.6	-156.72 ug/L	-156.72 ppb	21:14:57
3	V 292.402†	9072.6	10086.9	97.716 ug/L	97.716 ppb	21:14:57
3	Zn 213.857†	21403.5	20346.0	337.08 ug/L	337.08 ppb	21:14:57
3	SiO2†	125263.5	121689.9	13558 ug/L	13558 ppb	21:15:32

Mean Data: 248511010|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	617359.1	102.90 %	0.234			0.23%
Sc Radial	2748.7	105 %	0.8			0.80%
Y 371.029	578597.8	114.59 %	0.265			0.23%
Y RADIAL	3602.4	123.5 %	1.75			1.42%
Ag 328.068†	-2857.4	1.4445 ug/L	0.45104	1.4445 ppb	0.45104	31.22%
Al 396.153Radial†	25564.7	35774 ug/L	159.4	35774 ppb	159.4	0.45%
As 188.979†	-7.6	27.896 ug/L	1.6557	27.896 ppb	1.6557	5.94%
B 249.677†	2340.2	78.003 ug/L	1.4372	78.003 ppb	1.4372	1.84%
Ba 233.527†	84160.6	1116.4 ug/L	3.00	1116.4 ppb	3.00	0.27%
Be 313.107†	-2778.3	3.7049 ug/L	0.04247	3.7049 ppb	0.04247	1.15%
Ca 317.933Radial†	18012.4	59784 ug/L	190.2	59784 ppb	190.2	0.32%
Cd 226.502†	449.8	1.1855 ug/L	0.11509	1.1855 ppb	0.11509	9.71%
Co 228.616†	664.9	19.544 ug/L	0.3247	19.544 ppb	0.3247	1.66%
Cr 267.716†	4457.7	98.450 ug/L	0.4277	98.450 ppb	0.4277	0.43%
Cu 324.752†	14561.3	69.624 ug/L	0.1751	69.624 ppb	0.1751	0.25%
Fe 238.204 Radial†	2955.4	75471 ug/L	818.6	75471 ppb	818.6	1.08%
K 766.490 Radial†	52408.4	14237 ug/L	63.9	14237 ppb	63.9	0.45%

Mg 279.077 IEC†	146.0	11403 ug/L	98.1	11403 ppb	98.1	0.86%
Mn 257.610†	2347886.3	4307.2 ug/L	23.94	4307.2 ppb	23.94	0.56%
Mo 202.031†	-43.4	0.8227 ug/L	1.03105	0.8227 ppb	1.03105	125.33%
Na 589.592 Radial†	710.4	431.94 ug/L	19.266	431.94 ppb	19.266	4.46%
Ni 231.604†	1310.3	59.324 ug/L	0.2788	59.324 ppb	0.2788	0.47%
P 214.914†	2627.3	2737.1 ug/L	8.87	2737.1 ppb	8.87	0.32%
Pb 220.353†	372.5	83.298 ug/L	1.0261	83.298 ppb	1.0261	1.23%
S 181.975 Axial†	462.8	1181.7 ug/L	10.97	1181.7 ppb	10.97	0.93%
Sb 206.836†	10.2	-2.2335 ug/L	0.54958	-2.2335 ppb	0.54958	24.61%
Se 196.026†	-225.5	25.162 ug/L	4.8604	25.162 ppb	4.8604	19.32%
Si 251.611†	121627.2	6507.4 ug/L	8.76	6507.4 ppb	8.76	0.13%
Sn 189.927†	-190.3	-47.389 ug/L	1.8944	-47.389 ppb	1.8944	4.00%
Sr 421.552†	32175.7	423.11 ug/L	2.199	423.11 ppb	2.199	0.52%
Ti 334.940†	993539.8	2352.0 ug/L	11.83	2352.0 ppb	11.83	0.50%
Tl 190.801†	-74.4	-2.8279 ug/L	2.09771	-2.8279 ppb	2.09771	74.18%
U 409.014†	-3487.8	-155.89 ug/L	3.221	-155.89 ppb	3.221	2.07%
V 292.402†	10144.5	98.353 ug/L	0.7999	98.353 ppb	0.7999	0.81%
Zn 213.857†	20363.8	337.38 ug/L	1.036	337.38 ppb	1.036	0.31%
SiO2†	121690.5	13558 ug/L	17.8	13558 ppb	17.8	0.13%

Sequence No.: 21

Sample ID: 248511011|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 4/12/2010 21:17:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511011|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2896.5	2896.5	110 %		21:19:56
1	Y RADIAL	3706.3	3706.3	127.0 %		21:19:36
1	Al 396.153Radial†	36302.0	32936.5	46089 ug/L	46089 ppb	21:19:36
1	Ca 317.933Radial†	6488.1	5861.5	19454 ug/L	19454 ppb	21:19:36
1	Fe 238.204 Radial†	3855.8	3484.1	88974 ug/L	88974 ppb	21:19:56
1	K 766.490 Radial†	46874.0	39987.5	10870 ug/L	10870 ppb	21:19:36
1	Mg 279.077 IEC†	166.0	150.1	11711 ug/L	11711 ppb	21:19:56
1	Na 589.592 Radial†	27.0	969.0	589.19 ug/L	589.19 ppb	21:19:36
1	Sr 421.552†	16017.2	14481.5	190.49 ug/L	190.49 ppb	21:19:36
1	Sc 361.383	636511.8	636511.8	106.10 %		21:20:53
1	Y 371.029	590136.3	590136.3	116.88 %		21:20:53
1	Ag 328.068†	-3797.8	-3661.4	0.4867 ug/L	0.4867 ppb	21:20:53
1	As 188.979†	-11.1	7.2	47.714 ug/L	47.714 ppb	21:21:13
1	B 249.677†	418.9	734.0	13.783 ug/L	13.783 ppb	21:20:53
1	Ba 233.527†	54219.5	51092.6	679.69 ug/L	679.69 ppb	21:20:53
1	Be 313.107†	-9926.7	-6089.6	3.3507 ug/L	3.3507 ppb	21:20:53
1	Cd 226.502†	408.5	546.7	1.7518 ug/L	1.7518 ppb	21:21:13
1	Co 228.616†	966.2	939.7	28.033 ug/L	28.033 ppb	21:21:13
1	Cr 267.716†	6511.6	6059.5	131.48 ug/L	131.48 ppb	21:21:13
1	Cu 324.752†	17879.1	11685.9	57.918 ug/L	57.918 ppb	21:20:53
1	Mn 257.610†	1341065.1	1263652.1	2323.7 ug/L	2323.7 ppb	21:20:53
1	Mo 202.031†	-19.2	-29.5	2.7665 ug/L	2.7665 ppb	21:21:13
1	Ni 231.604†	1716.4	1540.1	69.721 ug/L	69.721 ppb	21:21:13
1	P 214.914†	1388.5	1146.6	1142.4 ug/L	1142.4 ppb	21:21:13
1	Pb 220.353†	478.4	495.0	110.71 ug/L	110.71 ppb	21:21:13
1	S 181.975 Axial†	419.8	372.9	948.20 ug/L	948.20 ppb	21:21:13
1	Sb 206.836†	31.3	4.1	-7.4847 ug/L	-7.4847 ppb	21:21:13
1	Se 196.026†	-307.0	-274.8	18.976 ug/L	18.976 ppb	21:21:13
1	Si 251.611†	202143.7	190168.8	10175 ug/L	10175 ppb	21:20:53
1	Sn 189.927†	-90.6	-92.2	-24.629 ug/L	-24.629 ppb	21:21:13
1	Ti 334.940†	1365197.8	1287793.6	3041.9 ug/L	3041.9 ppb	21:20:53
1	Tl 190.801†	-90.8	-58.5	1.5791 ug/L	1.5791 ppb	21:21:13
1	U 409.014†	-4969.8	-3406.3	-155.27 ug/L	-155.27 ppb	21:20:53
1	V 292.402†	14209.9	14640.9	145.04 ug/L	145.04 ppb	21:20:53
1	Zn 213.857†	19242.8	17629.9	288.06 ug/L	288.06 ppb	21:20:53
1	SiO2†	207357.3	195089.0	21736 ug/L	21736 ppb	21:22:11
2	Sc Radial	2927.6	2927.6	112 %		21:20:21
2	Y RADIAL	3385.1	3385.1	116.0 %		21:20:01
2	Al 396.153Radial†	36364.1	32643.5	45679 ug/L	45679 ppb	21:20:01
2	Ca 317.933Radial†	6474.7	5787.1	19208 ug/L	19208 ppb	21:20:01
2	Fe 238.204 Radial†	3842.4	3435.1	87720 ug/L	87720 ppb	21:20:21
2	K 766.490 Radial†	46450.1	39157.8	10644 ug/L	10644 ppb	21:20:01
2	Mg 279.077 IEC†	162.6	145.5	11351 ug/L	11351 ppb	21:20:21
2	Na 589.592 Radial†	17.4	960.1	583.79 ug/L	583.79 ppb	21:20:01
2	Sr 421.552†	15936.2	14255.2	187.51 ug/L	187.51 ppb	21:20:01
2	Sc 361.383	643650.0	643650.0	107.29 %		21:21:19
2	Y 371.029	597212.8	597212.8	118.28 %		21:21:19
2	Ag 328.068†	-3861.2	-3680.8	0.0059 ug/L	0.0059 ppb	21:21:19
2	As 188.979†	-21.3	-2.2	40.096 ug/L	40.096 ppb	21:21:39
2	B 249.677†	480.3	786.8	16.027 ug/L	16.027 ppb	21:21:19
2	Ba 233.527†	54859.4	51122.3	680.04 ug/L	680.04 ppb	21:21:19
2	Be 313.107†	-10032.7	-6084.6	3.3554 ug/L	3.3554 ppb	21:21:19
2	Cd 226.502†	390.0	525.1	1.4321 ug/L	1.4321 ppb	21:21:39
2	Co 228.616†	957.4	921.4	27.362 ug/L	27.362 ppb	21:21:39
2	Cr 267.716†	6476.5	5958.7	129.34 ug/L	129.34 ppb	21:21:39
2	Cu 324.752†	18001.2	11612.8	57.507 ug/L	57.507 ppb	21:21:19
2	Mn 257.610†	1356566.9	1264083.1	2324.4 ug/L	2324.4 ppb	21:21:19
2	Mo 202.031†	-7.0	-17.9	4.1911 ug/L	4.1911 ppb	21:21:39
2	Ni 231.604†	1703.8	1510.4	68.373 ug/L	68.373 ppb	21:21:39

2	P 214.914†	1384.5	1128.4	1124.0 ug/L	1124.0 ppb	21:21:39
2	Pb 220.353†	463.6	476.2	106.55 ug/L	106.55 ppb	21:21:39
2	S 181.975 Axial†	420.0	368.8	937.56 ug/L	937.56 ppb	21:21:39
2	Sb 206.836†	45.3	16.8	0.0169 ug/L	0.0169 ppb	21:21:39
2	Se 196.026†	-315.5	-279.4	8.4688 ug/L	8.4688 ppb	21:21:39
2	Si 251.611†	207657.6	193195.2	10336 ug/L	10336 ppb	21:21:19
2	Sn 189.927†	-95.3	-95.7	-25.846 ug/L	-25.846 ppb	21:21:39
2	Ti 334.940†	1380857.5	1288119.4	3042.6 ug/L	3042.6 ppb	21:21:19
2	Tl 190.801†	-94.3	-60.8	0.3256 ug/L	0.3256 ppb	21:21:39
2	U 409.014†	-5106.0	-3481.3	-158.06 ug/L	-158.06 ppb	21:21:19
2	V 292.402†	14419.2	14687.5	145.72 ug/L	145.72 ppb	21:21:19
2	Zn 213.857†	19363.4	17541.1	286.75 ug/L	286.75 ppb	21:21:19
2	SiO2†	205152.9	190866.9	21266 ug/L	21266 ppb	21:22:16
3	Sc Radial	2793.9	2793.9	107 %		21:20:46
3	Y RADIAL	3598.2	3598.2	123.3 %		21:20:26
3	Al 396.153Radial†	36007.5	33866.6	47391 ug/L	47391 ppb	21:20:26
3	Ca 317.933Radial†	6421.7	6014.8	19963 ug/L	19963 ppb	21:20:26
3	Fe 238.204 Radial†	3848.3	3605.3	92067 ug/L	92067 ppb	21:20:46
3	K 766.490 Radial†	46040.0	40762.8	11081 ug/L	11081 ppb	21:20:26
3	Mg 279.077 IEC†	159.2	149.3	11646 ug/L	11646 ppb	21:20:46
3	Na 589.592 Radial†	-10.4	934.8	568.40 ug/L	568.40 ppb	21:20:26
3	Sr 421.552†	15838.8	14846.5	195.29 ug/L	195.29 ppb	21:20:26
3	Sc 361.383	635359.4	635359.4	105.90 %		21:21:45
3	Y 371.029	589908.1	589908.1	116.83 %		21:21:45
3	Ag 328.068†	-3864.5	-3730.9	0.8851 ug/L	0.8851 ppb	21:21:45
3	As 188.979†	-24.2	-5.1	38.612 ug/L	38.612 ppb	21:22:05
3	B 249.677†	482.9	795.2	15.641 ug/L	15.641 ppb	21:21:45
3	Ba 233.527†	54106.6	51078.7	679.63 ug/L	679.63 ppb	21:21:45
3	Be 313.107†	-9836.4	-6021.3	3.3743 ug/L	3.3743 ppb	21:21:45
3	Cd 226.502†	414.5	553.0	1.5438 ug/L	1.5438 ppb	21:22:05
3	Co 228.616†	962.8	938.2	27.949 ug/L	27.949 ppb	21:22:05
3	Cr 267.716†	6554.8	6111.4	133.01 ug/L	133.01 ppb	21:22:05
3	Cu 324.752†	17820.8	11661.4	58.032 ug/L	58.032 ppb	21:21:45
3	Mn 257.610†	1338694.3	1263706.2	2324.2 ug/L	2324.2 ppb	21:21:45
3	Mo 202.031†	-3.9	-15.0	4.8782 ug/L	4.8782 ppb	21:22:05
3	Ni 231.604†	1740.2	1565.4	70.860 ug/L	70.860 ppb	21:22:05
3	P 214.914†	1403.4	1163.1	1157.3 ug/L	1157.3 ppb	21:22:05
3	Pb 220.353†	485.4	502.5	112.30 ug/L	112.30 ppb	21:22:05
3	S 181.975 Axial†	428.2	381.7	970.32 ug/L	970.32 ppb	21:22:05
3	Sb 206.836†	30.3	3.2	-7.9639 ug/L	-7.9639 ppb	21:22:05
3	Se 196.026†	-309.5	-277.6	27.744 ug/L	27.744 ppb	21:22:05
3	Si 251.611†	202293.9	190656.2	10201 ug/L	10201 ppb	21:21:45
3	Sn 189.927†	-98.4	-99.8	-26.970 ug/L	-26.970 ppb	21:22:05
3	Ti 334.940†	1359512.8	1284759.5	3034.8 ug/L	3034.8 ppb	21:21:45
3	Tl 190.801†	-108.9	-75.7	-7.9547 ug/L	-7.9547 ppb	21:22:05
3	U 409.014†	-5060.9	-3500.8	-159.69 ug/L	-159.69 ppb	21:21:45
3	V 292.402†	14277.7	14729.2	145.62 ug/L	145.62 ppb	21:21:45
3	Zn 213.857†	19192.4	17615.2	287.29 ug/L	287.29 ppb	21:21:45
3	SiO2†	206537.8	194669.7	21689 ug/L	21689 ppb	21:22:21

Mean Data: 248511011|973758|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	638507.0	106.43 %		0.749			0.70%
Sc Radial	2872.7	110 %		2.7			2.43%
Y 371.029	592419.1	117.33 %		0.823			0.70%
Y RADIAL	3563.2	122.1 %		5.60			4.59%
Ag 328.068†	-3691.0	0.4592 ug/L		0.44026	0.4592 ppb	0.44026	95.87%
Al 396.153Radial†	33148.9	46386 ug/L		893.6	46386 ppb	893.6	1.93%
As 188.979†	-0.1	42.141 ug/L		4.8834	42.141 ppb	4.8834	11.59%
B 249.677†	772.0	15.150 ug/L		1.2000	15.150 ppb	1.2000	7.92%
Ba 233.527†	51097.9	679.79 ug/L		0.217	679.79 ppb	0.217	0.03%
Be 313.107†	-6065.1	3.3601 ug/L		0.01248	3.3601 ppb	0.01248	0.37%
Ca 317.933Radial†	5887.8	19542 ug/L		385.3	19542 ppb	385.3	1.97%
Cd 226.502†	541.6	1.5759 ug/L		0.16226	1.5759 ppb	0.16226	10.30%
Co 228.616†	933.1	27.781 ug/L		0.3652	27.781 ppb	0.3652	1.31%
Cr 267.716†	6043.2	131.28 ug/L		1.842	131.28 ppb	1.842	1.40%
Cu 324.752†	11653.3	57.819 ug/L		0.2761	57.819 ppb	0.2761	0.48%
Fe 238.204 Radial†	3508.1	89587 ug/L		2237.2	89587 ppb	2237.2	2.50%
K 766.490 Radial†	39969.4	10865 ug/L		218.2	10865 ppb	218.2	2.01%

Mg 279.077 IEC†	148.3	11569 ug/L	192.1	11569 ppb	192.1	1.66%
Mn 257.610†	1263813.8	2324.1 ug/L	0.34	2324.1 ppb	0.34	0.01%
Mo 202.031†	-20.8	3.9453 ug/L	1.07709	3.9453 ppb	1.07709	27.30%
Na 589.592 Radial†	954.6	580.46 ug/L	10.791	580.46 ppb	10.791	1.86%
Ni 231.604†	1538.6	69.651 ug/L	1.2448	69.651 ppb	1.2448	1.79%
P 214.914†	1146.0	1141.2 ug/L	16.70	1141.2 ppb	16.70	1.46%
Pb 220.353†	491.2	109.85 ug/L	2.969	109.85 ppb	2.969	2.70%
S 181.975 Axial†	374.5	952.02 ug/L	16.712	952.02 ppb	16.712	1.76%
Sb 206.836†	8.0	-5.1439 ug/L	4.47581	-5.1439 ppb	4.47581	87.01%
Se 196.026†	-277.2	18.396 ug/L	9.6508	18.396 ppb	9.6508	52.46%
Si 251.611†	191340.1	10237 ug/L	86.9	10237 ppb	86.9	0.85%
Sn 189.927†	-95.9	-25.815 ug/L	1.1707	-25.815 ppb	1.1707	4.54%
Sr 421.552†	14527.7	191.10 ug/L	3.924	191.10 ppb	3.924	2.05%
Ti 334.940†	1286890.8	3039.8 ug/L	4.34	3039.8 ppb	4.34	0.14%
Tl 190.801†	-65.0	-2.0167 ug/L	5.18055	-2.0167 ppb	5.18055	256.89%
U 409.014†	-3462.8	-157.67 ug/L	2.237	-157.67 ppb	2.237	1.42%
V 292.402†	14685.9	145.46 ug/L	0.369	145.46 ppb	0.369	0.25%
Zn 213.857†	17595.4	287.37 ug/L	0.659	287.37 ppb	0.659	0.23%
SiO2†	193541.9	21564 ug/L	259.2	21564 ppb	259.2	1.20%

Sequence No.: 22

Sample ID: 248511012|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 4/12/2010 21:24:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511012|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2814.5	2814.5	107 %		21:26:45
1	Y RADIAL	3599.7	3599.7	123.4 %		21:26:25
1	Al 396.153Radial†	35501.3	33148.1	46385 ug/L	46385 ppb	21:26:25
1	Ca 317.933Radial†	9202.7	8561.4	28416 ug/L	28416 ppb	21:26:25
1	Fe 238.204 Radial†	3398.5	3159.8	80690 ug/L	80690 ppb	21:26:45
1	K 766.490 Radial†	44645.0	39147.4	10638 ug/L	10638 ppb	21:26:25
1	Mg 279.077 IEC†	152.6	142.0	11084 ug/L	11084 ppb	21:26:45
1	Na 589.592 Radial†	-6.1	938.8	570.83 ug/L	570.83 ppb	21:26:25
1	Sr 421.552†	17825.3	16588.4	218.16 ug/L	218.16 ppb	21:26:25
1	Sc 361.383	650830.5	650830.5	108.48 %		21:27:42
1	Y 371.029	617496.6	617496.6	122.30 %		21:27:42
1	Ag 328.068†	-3371.5	-3189.7	1.1381 ug/L	1.1381 ppb	21:27:47
1	As 188.979†	-21.6	-2.2	36.526 ug/L	36.526 ppb	21:28:08
1	B 249.677†	558.0	853.5	19.745 ug/L	19.745 ppb	21:27:47
1	Ba 233.527†	90429.0	83346.2	1105.9 ug/L	1105.9 ppb	21:27:47
1	Be 313.107†	-8161.1	-4256.2	3.8154 ug/L	3.8154 ppb	21:27:47
1	Cd 226.502†	323.2	459.6	0.8365 ug/L	0.8365 ppb	21:28:08
1	Co 228.616†	947.4	902.3	27.489 ug/L	27.489 ppb	21:28:08
1	Cr 267.716†	9081.2	8293.2	172.75 ug/L	172.75 ppb	21:27:47
1	Cu 324.752†	18034.8	11458.6	56.325 ug/L	56.325 ppb	21:27:47
1	Mn 257.610†	2633352.4	2427071.5	4452.8 ug/L	4452.8 ppb	21:27:42
1	Mo 202.031†	-10.0	-20.6	3.5281 ug/L	3.5281 ppb	21:28:08
1	Ni 231.604†	2283.6	2027.2	91.997 ug/L	91.997 ppb	21:28:08
1	P 214.914†	2611.0	2244.8	2328.0 ug/L	2328.0 ppb	21:28:08
1	Pb 220.353†	424.6	435.5	98.658 ug/L	98.658 ppb	21:28:08
1	S 181.975 Axial†	389.7	336.5	854.45 ug/L	854.45 ppb	21:28:08
1	Sb 206.836†	46.7	17.6	0.9681 ug/L	0.9681 ppb	21:28:08
1	Se 196.026†	-271.7	-235.8	33.368 ug/L	33.368 ppb	21:28:08
1	Si 251.611†	174456.4	160454.9	8584.7 ug/L	8584.7 ppb	21:27:47
1	Sn 189.927†	-133.0	-129.4	-34.844 ug/L	-34.844 ppb	21:28:08
1	Ti 334.940†	1273519.5	1174975.3	2776.6 ug/L	2776.6 ppb	21:27:42
1	Tl 190.801†	-116.6	-80.4	-2.2511 ug/L	-2.2511 ppb	21:28:08
1	U 409.014†	-5104.9	-3427.8	-154.63 ug/L	-154.63 ppb	21:27:47
1	V 292.402†	11415.5	11770.3	115.01 ug/L	115.01 ppb	21:27:47
1	Zn 213.857†	17430.6	15560.4	253.69 ug/L	253.69 ppb	21:27:47
1	SiO2†	171297.9	157549.7	17554 ug/L	17554 ppb	21:29:15
2	Sc Radial	2840.4	2840.4	108 %		21:27:10
2	Y RADIAL	3659.9	3659.9	125.4 %		21:26:50
2	Al 396.153Radial†	35592.6	32930.4	46081 ug/L	46081 ppb	21:26:50
2	Ca 317.933Radial†	9255.4	8531.8	28317 ug/L	28317 ppb	21:26:50
2	Fe 238.204 Radial†	3431.8	3161.7	80739 ug/L	80739 ppb	21:27:10
2	K 766.490 Radial†	44839.0	38946.9	10584 ug/L	10584 ppb	21:26:50
2	Mg 279.077 IEC†	153.2	141.2	11024 ug/L	11024 ppb	21:27:10
2	Na 589.592 Radial†	-13.9	931.6	566.48 ug/L	566.48 ppb	21:26:50
2	Sr 421.552†	17782.8	16397.6	215.64 ug/L	215.64 ppb	21:26:50
2	Sc 361.383	639819.6	639819.6	106.65 %		21:28:13
2	Y 371.029	607823.3	607823.3	120.38 %		21:28:13
2	Ag 328.068†	-3193.5	-3076.3	1.9443 ug/L	1.9443 ppb	21:28:18
2	As 188.979†	-18.6	0.2	38.479 ug/L	38.479 ppb	21:28:39
2	B 249.677†	633.4	933.0	22.805 ug/L	22.805 ppb	21:28:18
2	Ba 233.527†	89297.6	83719.8	1110.8 ug/L	1110.8 ppb	21:28:18
2	Be 313.107†	-8149.2	-4374.5	3.7506 ug/L	3.7506 ppb	21:28:18
2	Cd 226.502†	314.0	456.1	0.7555 ug/L	0.7555 ppb	21:28:39
2	Co 228.616†	938.6	909.1	27.740 ug/L	27.740 ppb	21:28:39
2	Cr 267.716†	9082.6	8438.5	175.54 ug/L	175.54 ppb	21:28:18
2	Cu 324.752†	17844.0	11565.8	56.803 ug/L	56.803 ppb	21:28:18
2	Mn 257.610†	2587067.3	2425446.2	4449.9 ug/L	4449.9 ppb	21:28:13
2	Mo 202.031†	-13.4	-23.9	3.1016 ug/L	3.1016 ppb	21:28:39
2	Ni 231.604†	2261.5	2042.8	92.707 ug/L	92.707 ppb	21:28:39

2	P 214.914†	2594.3	2270.5	2355.4 ug/L	2355.4 ppb	21:28:39
2	Pb 220.353†	425.2	442.9	100.23 ug/L	100.23 ppb	21:28:39
2	S 181.975 Axial†	380.7	334.3	848.72 ug/L	848.72 ppb	21:28:39
2	Sb 206.836†	39.8	11.8	-2.4607 ug/L	-2.4607 ppb	21:28:39
2	Se 196.026†	-272.5	-240.9	27.481 ug/L	27.481 ppb	21:28:39
2	Si 251.611†	171917.3	160841.6	8605.4 ug/L	8605.4 ppb	21:28:18
2	Sn 189.927†	-134.2	-132.7	-35.948 ug/L	-35.948 ppb	21:28:39
2	Ti 334.940†	1252811.1	1175760.5	2778.5 ug/L	2778.5 ppb	21:28:13
2	Tl 190.801†	-113.4	-79.2	-1.6172 ug/L	-1.6172 ppb	21:28:39
2	U 409.014†	-5128.7	-3531.1	-158.83 ug/L	-158.83 ppb	21:28:18
2	V 292.402†	11359.0	11898.5	116.38 ug/L	116.38 ppb	21:28:18
2	Zn 213.857†	17229.0	15647.9	255.18 ug/L	255.18 ppb	21:28:18
2	SiO2†	170914.5	159907.6	17816 ug/L	17816 ppb	21:29:20
3	Sc Radial	2857.7	2857.7	109 %		21:27:35
3	Y RADIAL	3666.8	3666.8	125.7 %		21:27:15
3	Al 396.153Radial†	36033.1	33136.2	46369 ug/L	46369 ppb	21:27:15
3	Ca 317.933Radial†	9415.7	8627.3	28634 ug/L	28634 ppb	21:27:15
3	Fe 238.204 Radial†	3455.7	3164.4	80809 ug/L	80809 ppb	21:27:35
3	K 766.490 Radial†	45320.0	39138.3	10636 ug/L	10636 ppb	21:27:15
3	Mg 279.077 IEC†	155.5	142.5	11126 ug/L	11126 ppb	21:27:35
3	Na 589.592 Radial†	-4.3	940.5	571.89 ug/L	571.89 ppb	21:27:15
3	Sr 421.552†	18017.3	16513.6	217.17 ug/L	217.17 ppb	21:27:15
3	Sc 361.383	633490.3	633490.3	105.59 %		21:28:44
3	Y 371.029	602045.5	602045.5	119.24 %		21:28:44
3	Ag 328.068†	-3279.2	-3187.3	1.1959 ug/L	1.1959 ppb	21:28:49
3	As 188.979†	-26.0	-7.0	32.851 ug/L	32.851 ppb	21:29:10
3	B 249.677†	550.5	860.5	19.993 ug/L	19.993 ppb	21:28:49
3	Ba 233.527†	88521.0	83820.9	1112.2 ug/L	1112.2 ppb	21:28:49
3	Be 313.107†	-8025.0	-4333.3	3.7730 ug/L	3.7730 ppb	21:28:49
3	Cd 226.502†	340.9	484.5	1.3508 ug/L	1.3508 ppb	21:29:10
3	Co 228.616†	957.3	935.6	28.745 ug/L	28.745 ppb	21:29:10
3	Cr 267.716†	8923.4	8372.8	174.30 ug/L	174.30 ppb	21:28:49
3	Cu 324.752†	17589.7	11492.1	56.485 ug/L	56.485 ppb	21:28:49
3	Mn 257.610†	2560833.9	2424838.9	4448.8 ug/L	4448.8 ppb	21:28:44
3	Mo 202.031†	-7.5	-18.4	3.8249 ug/L	3.8249 ppb	21:29:10
3	Ni 231.604†	2273.2	2075.1	94.177 ug/L	94.177 ppb	21:29:10
3	P 214.914†	2614.2	2313.7	2401.7 ug/L	2401.7 ppb	21:29:10
3	Pb 220.353†	430.5	451.8	102.31 ug/L	102.31 ppb	21:29:10
3	S 181.975 Axial†	393.4	349.8	888.68 ug/L	888.68 ppb	21:29:10
3	Sb 206.836†	45.6	17.8	1.0414 ug/L	1.0414 ppb	21:29:10
3	Se 196.026†	-270.2	-241.3	27.299 ug/L	27.299 ppb	21:29:10
3	Si 251.611†	168322.7	159048.0	8509.5 ug/L	8509.5 ppb	21:28:49
3	Sn 189.927†	-134.1	-133.8	-36.232 ug/L	-36.232 ppb	21:29:10
3	Ti 334.940†	1240088.8	1175448.8	2777.7 ug/L	2777.7 ppb	21:28:44
3	Tl 190.801†	-118.0	-84.7	-4.6460 ug/L	-4.6460 ppb	21:29:10
3	U 409.014†	-5158.7	-3607.6	-161.94 ug/L	-161.94 ppb	21:28:49
3	V 292.402†	11221.8	11875.0	116.12 ug/L	116.12 ppb	21:28:49
3	Zn 213.857†	16966.8	15560.9	253.66 ug/L	253.66 ppb	21:28:49
3	SiO2†	174525.1	164928.1	18376 ug/L	18376 ppb	21:29:26

Mean Data: 248511012|973758|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	641380.2	106.91 %	1.463			1.37%
Sc Radial	2837.5	108 %	0.8			0.77%
Y 371.029	609121.8	120.64 %	1.546			1.28%
Y RADIAL	3642.1	124.8 %	1.27			1.01%
Ag 328.068†	-3151.1	1.4261 ug/L	0.44972	1.4261 ppb	0.44972	31.53%
Al 396.153Radial†	33071.6	46278 ug/L	171.3	46278 ppb	171.3	0.37%
As 188.979†	-3.0	35.952 ug/L	2.8578	35.952 ppb	2.8578	7.95%
B 249.677†	882.4	20.847 ug/L	1.7000	20.847 ppb	1.7000	8.15%
Ba 233.527†	83629.0	1109.6 ug/L	3.31	1109.6 ppb	3.31	0.30%
Be 313.107†	-4321.3	3.7797 ug/L	0.03293	3.7797 ppb	0.03293	0.87%
Ca 317.933Radial†	8573.5	28456 ug/L	162.1	28456 ppb	162.1	0.57%
Cd 226.502†	466.7	0.9809 ug/L	0.32287	0.9809 ppb	0.32287	32.91%
Co 228.616†	915.7	27.991 ug/L	0.6643	27.991 ppb	0.6643	2.37%
Cr 267.716†	8368.2	174.20 ug/L	1.399	174.20 ppb	1.399	0.80%
Cu 324.752†	11505.5	56.538 ug/L	0.2435	56.538 ppb	0.2435	0.43%
Fe 238.204 Radial†	3161.9	80746 ug/L	59.6	80746 ppb	59.6	0.07%
K 766.490 Radial†	39077.5	10619 ug/L	30.8	10619 ppb	30.8	0.29%

Mg 279.077 IEC†	141.9	11078 ug/L	51.5	11078 ppb	51.5	0.46%
Mn 257.610†	2425785.5	4450.5 ug/L	2.11	4450.5 ppb	2.11	0.05%
Mo 202.031†	-21.0	3.4849 ug/L	0.36355	3.4849 ppb	0.36355	10.43%
Na 589.592 Radial†	937.0	569.73 ug/L	2.863	569.73 ppb	2.863	0.50%
Ni 231.604†	2048.4	92.960 ug/L	1.1119	92.960 ppb	1.1119	1.20%
P 214.914†	2276.3	2361.7 ug/L	37.25	2361.7 ppb	37.25	1.58%
Pb 220.353†	443.4	100.40 ug/L	1.833	100.40 ppb	1.833	1.83%
S 181.975 Axial†	340.2	863.95 ug/L	21.607	863.95 ppb	21.607	2.50%
Sb 206.836†	15.8	-0.1504 ug/L	2.00107	-0.1504 ppb	2.00107	>999.9%
Se 196.026†	-239.3	29.383 ug/L	3.4526	29.383 ppb	3.4526	11.75%
Si 251.611†	160114.8	8566.6 ug/L	50.51	8566.6 ppb	50.51	0.59%
Sn 189.927†	-132.0	-35.675 ug/L	0.7333	-35.675 ppb	0.7333	2.06%
Sr 421.552†	16499.9	216.99 ug/L	1.266	216.99 ppb	1.266	0.58%
Ti 334.940†	1175394.9	2777.6 ug/L	0.93	2777.6 ppb	0.93	0.03%
Tl 190.801†	-81.5	-2.8381 ug/L	1.59740	-2.8381 ppb	1.59740	56.28%
U 409.014†	-3522.1	-158.47 ug/L	3.664	-158.47 ppb	3.664	2.31%
V 292.402†	11847.9	115.84 ug/L	0.731	115.84 ppb	0.731	0.63%
Zn 213.857†	15589.7	254.18 ug/L	0.869	254.18 ppb	0.869	0.34%
SiO2†	160795.2	17915 ug/L	419.9	17915 ppb	419.9	2.34%

Sequence No.: 23
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 4/12/2010 21:31:36
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2781.4	2781.4	106 %		21:33:48
1	Y RADIAL	3093.7	3093.7	106.0 %		21:33:48
1	Al 396.153Radial†	3718.8	3581.8	4988.4 ug/L	4988.4 ppb	21:33:28
1	Ca 317.933Radial†	1654.4	1548.0	5137.9 ug/L	5137.9 ppb	21:33:48
1	Fe 238.204 Radial†	231.7	212.3	5436.2 ug/L	5436.2 ppb	21:33:48
1	K 766.490 Radial†	22145.8	18433.1	5006.6 ug/L	5006.6 ppb	21:33:28
1	Mg 279.077 IEC†	70.9	66.6	5241.8 ug/L	5241.8 ppb	21:33:48
1	Na 589.592 Radial†	19091.0	18940.3	11517 ug/L	11517 ppb	21:33:28
1	Sr 421.552†	43733.3	41207.4	542.41 ug/L	542.41 ppb	21:33:28
1	Sc 361.383	628570.5	628570.5	104.77 %		21:34:45
1	Y 371.029	524507.7	524507.7	103.88 %		21:34:45
1	Ag 328.068†	75538.3	72015.1	499.30 ug/L	499.30 ppb	21:34:45
1	As 188.979†	618.8	608.3	481.79 ug/L	481.79 ppb	21:35:05
1	B 249.677†	12728.6	12487.9	479.77 ug/L	479.77 ppb	21:34:45
1	Ba 233.527†	39088.0	37296.1	494.69 ug/L	494.69 ppb	21:34:45
1	Be 313.107†	880431.0	843587.6	493.19 ug/L	493.19 ppb	21:34:45
1	Cd 226.502†	24208.4	23267.2	493.97 ug/L	493.97 ppb	21:34:45
1	Co 228.616†	13373.4	12793.2	482.29 ug/L	482.29 ppb	21:35:05
1	Cr 267.716†	27152.0	25837.2	495.75 ug/L	495.75 ppb	21:34:45
1	Cu 324.752†	123647.3	112848.5	497.03 ug/L	497.03 ppb	21:34:45
1	Mn 257.610†	283543.1	270277.3	495.27 ug/L	495.27 ppb	21:34:45
1	Mo 202.031†	3942.1	3751.2	490.94 ug/L	490.94 ppb	21:35:05
1	Ni 231.604†	11180.7	10593.6	482.99 ug/L	482.99 ppb	21:35:05
1	P 214.914†	2504.5	2228.3	2272.3 ug/L	2272.3 ppb	21:35:05
1	Pb 220.353†	2213.0	2156.3	487.57 ug/L	487.57 ppb	21:35:05
1	S 181.975 Axial†	413.2	371.7	954.60 ug/L	954.60 ppb	21:35:05
1	Sb 206.836†	888.0	822.1	502.19 ug/L	502.19 ppb	21:35:05
1	Se 196.026†	400.0	396.4	499.93 ug/L	499.93 ppb	21:35:05
1	Si 251.611†	48865.8	46280.9	2470.1 ug/L	2470.1 ppb	21:34:45
1	Sn 189.927†	1541.7	1464.6	484.78 ug/L	484.78 ppb	21:35:05
1	Ti 334.940†	218038.7	209152.5	493.60 ug/L	493.60 ppb	21:34:45
1	Tl 190.801†	894.0	880.4	487.68 ug/L	487.68 ppb	21:35:05
1	U 409.014†	11202.0	11969.6	482.14 ug/L	482.14 ppb	21:34:45
1	V 292.402†	45874.7	45032.3	499.13 ug/L	499.13 ppb	21:34:45
1	Zn 213.857†	30629.9	28727.3	489.57 ug/L	489.57 ppb	21:34:45
1	SiO2†	48195.9	45647.8	5072.5 ug/L	5072.5 ppb	21:36:03
2	Sc Radial	2805.8	2805.8	107 %		21:34:13
2	Y RADIAL	3115.9	3115.9	106.8 %		21:34:13
2	Al 396.153Radial†	3691.7	3526.0	4910.8 ug/L	4910.8 ppb	21:33:53
2	Ca 317.933Radial†	1637.1	1518.3	5039.3 ug/L	5039.3 ppb	21:34:13
2	Fe 238.204 Radial†	230.7	209.4	5362.3 ug/L	5362.3 ppb	21:34:13
2	K 766.490 Radial†	21955.9	18074.2	4909.1 ug/L	4909.1 ppb	21:33:53
2	Mg 279.077 IEC†	74.7	69.6	5475.3 ug/L	5475.3 ppb	21:34:13
2	Na 589.592 Radial†	18814.4	18525.4	11264 ug/L	11264 ppb	21:33:53
2	Sr 421.552†	43361.8	40501.9	533.13 ug/L	533.13 ppb	21:33:53
2	Sc 361.383	638789.1	638789.1	106.48 %		21:35:11
2	Y 371.029	533060.6	533060.6	105.57 %		21:35:11
2	Ag 328.068†	74537.7	69922.1	484.80 ug/L	484.80 ppb	21:35:11
2	As 188.979†	626.0	605.6	479.56 ug/L	479.56 ppb	21:35:31
2	B 249.677†	12425.3	12008.7	461.31 ug/L	461.31 ppb	21:35:11
2	Ba 233.527†	38537.7	36182.5	479.92 ug/L	479.92 ppb	21:35:11
2	Be 313.107†	867082.9	817608.9	478.00 ug/L	478.00 ppb	21:35:11
2	Cd 226.502†	23761.9	22478.2	477.21 ug/L	477.21 ppb	21:35:11
2	Co 228.616†	13343.5	12560.9	473.53 ug/L	473.53 ppb	21:35:31
2	Cr 267.716†	26746.7	25042.0	480.50 ug/L	480.50 ppb	21:35:11
2	Cu 324.752†	121898.3	109317.9	481.48 ug/L	481.48 ppb	21:35:11
2	Mn 257.610†	279431.9	262087.0	480.26 ug/L	480.26 ppb	21:35:11
2	Mo 202.031†	3911.1	3661.9	479.25 ug/L	479.25 ppb	21:35:31
2	Ni 231.604†	11172.1	10414.8	474.84 ug/L	474.84 ppb	21:35:31

2	P 214.914†	2506.3	2191.8	2236.8 ug/L	2236.8 ppb	21:35:31
2	Pb 220.353†	2201.5	2111.7	477.48 ug/L	477.48 ppb	21:35:31
2	S 181.975 Axial†	416.6	368.6	946.49 ug/L	946.49 ppb	21:35:31
2	Sb 206.836†	880.4	801.4	489.55 ug/L	489.55 ppb	21:35:31
2	Se 196.026†	409.2	399.0	502.65 ug/L	502.65 ppb	21:35:31
2	Si 251.611†	48024.2	44744.4	2388.0 ug/L	2388.0 ppb	21:35:11
2	Sn 189.927†	1530.1	1430.2	473.41 ug/L	473.41 ppb	21:35:31
2	Ti 334.940†	215048.5	203015.2	479.09 ug/L	479.09 ppb	21:35:11
2	Tl 190.801†	890.9	863.8	478.42 ug/L	478.42 ppb	21:35:31
2	U 409.014†	11253.1	11846.5	477.21 ug/L	477.21 ppb	21:35:11
2	V 292.402†	45210.2	43707.9	484.50 ug/L	484.50 ppb	21:35:11
2	Zn 213.857†	30135.2	27795.1	473.62 ug/L	473.62 ppb	21:35:11
2	SiO2†	48173.9	44891.3	4988.5 ug/L	4988.5 ppb	21:36:08
3	Sc Radial	2796.1	2796.1	107 %		21:34:38
3	Y RADIAL	3090.3	3090.3	105.9 %		21:34:38
3	Al 396.153Radial†	3739.5	3582.9	4989.8 ug/L	4989.8 ppb	21:34:18
3	Ca 317.933Radial†	1644.8	1530.8	5080.9 ug/L	5080.9 ppb	21:34:38
3	Fe 238.204 Radial†	231.6	211.0	5403.7 ug/L	5403.7 ppb	21:34:38
3	K 766.490 Radial†	22193.8	18368.8	4989.2 ug/L	4989.2 ppb	21:34:18
3	Mg 279.077 IEC†	73.1	68.4	5375.9 ug/L	5375.9 ppb	21:34:38
3	Na 589.592 Radial†	19004.3	18764.8	11410 ug/L	11410 ppb	21:34:18
3	Sr 421.552†	43908.1	41155.4	541.73 ug/L	541.73 ppb	21:34:18
3	Sc 361.383	625907.8	625907.8	104.33 %		21:35:37
3	Y 371.029	523334.0	523334.0	103.65 %		21:35:37
3	Ag 328.068†	75551.3	72334.3	501.49 ug/L	501.49 ppb	21:35:37
3	As 188.979†	618.0	610.1	483.17 ug/L	483.17 ppb	21:35:57
3	B 249.677†	12653.1	12467.2	478.97 ug/L	478.97 ppb	21:35:37
3	Ba 233.527†	38991.3	37362.1	495.56 ug/L	495.56 ppb	21:35:37
3	Be 313.107†	882065.1	848728.8	496.19 ug/L	496.19 ppb	21:35:37
3	Cd 226.502†	24119.8	23280.5	494.26 ug/L	494.26 ppb	21:35:37
3	Co 228.616†	13379.9	12853.7	484.57 ug/L	484.57 ppb	21:35:57
3	Cr 267.716†	27199.5	25992.9	498.72 ug/L	498.72 ppb	21:35:37
3	Cu 324.752†	123609.4	113314.2	499.07 ug/L	499.07 ppb	21:35:37
3	Mn 257.610†	283186.8	271087.0	496.75 ug/L	496.75 ppb	21:35:37
3	Mo 202.031†	3937.3	3762.5	492.42 ug/L	492.42 ppb	21:35:57
3	Ni 231.604†	11207.3	10664.5	486.23 ug/L	486.23 ppb	21:35:57
3	P 214.914†	2515.3	2248.9	2293.9 ug/L	2293.9 ppb	21:35:57
3	Pb 220.353†	2222.9	2174.8	491.74 ug/L	491.74 ppb	21:35:57
3	S 181.975 Axial†	411.7	371.9	955.06 ug/L	955.06 ppb	21:35:57
3	Sb 206.836†	881.7	819.6	500.71 ug/L	500.71 ppb	21:35:57
3	Se 196.026†	401.2	399.2	503.15 ug/L	503.15 ppb	21:35:57
3	Si 251.611†	48650.4	46272.9	2469.7 ug/L	2469.7 ppb	21:35:37
3	Sn 189.927†	1529.1	1458.8	482.85 ug/L	482.85 ppb	21:35:57
3	Ti 334.940†	218015.7	210015.8	495.62 ug/L	495.62 ppb	21:35:37
3	Tl 190.801†	894.8	884.7	490.06 ug/L	490.06 ppb	21:35:57
3	U 409.014†	11335.3	12142.8	489.15 ug/L	489.15 ppb	21:35:37
3	V 292.402†	45819.1	45165.4	500.62 ug/L	500.62 ppb	21:35:37
3	Zn 213.857†	30640.6	28862.0	491.87 ug/L	491.87 ppb	21:35:37
3	SiO2†	48060.5	45713.7	5079.8 ug/L	5079.8 ppb	21:36:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	631089.1	105.19 %	1.133			1.08%
Sc Radial	2794.5	107 %	0.5			0.44%
Y 371.029	526967.4	104.37 %	1.052			1.01%
Y RADIAL	3099.9	106.2 %	0.48			0.45%
Ag 328.068†	71423.8	495.20 ug/L	9.068	495.20 ppb	9.068	1.83%
QC value within limits for Ag 328.068 Recovery = 99.04%						
Al 396.153Radial†	3563.6	4963.0 ug/L	45.17	4963.0 ppb	45.17	0.91%
QC value within limits for Al 396.153Radial Recovery = 99.26%						
As 188.979†	608.0	481.51 ug/L	1.820	481.51 ppb	1.820	0.38%
QC value within limits for As 188.979 Recovery = 96.30%						
B 249.677†	12321.3	473.35 ug/L	10.435	473.35 ppb	10.435	2.20%
QC value within limits for B 249.677 Recovery = 94.67%						
Ba 233.527†	36946.9	490.06 ug/L	8.789	490.06 ppb	8.789	1.79%
QC value within limits for Ba 233.527 Recovery = 98.01%						
Be 313.107†	836641.8	489.13 ug/L	9.751	489.13 ppb	9.751	1.99%
QC value within limits for Be 313.107 Recovery = 97.83%						
Ca 317.933Radial†	1532.4	5086.0 ug/L	49.49	5086.0 ppb	49.49	0.97%

QC value within limits for Ca 317.933 Radial Recovery = 101.72%							
Cd	226.502†	23008.6	488.48 ug/L	9.758	488.48 ppb	9.758	2.00%
QC value within limits for Cd 226.502 Recovery = 97.70%							
Co	228.616†	12735.9	480.13 ug/L	5.824	480.13 ppb	5.824	1.21%
QC value within limits for Co 228.616 Recovery = 96.03%							
Cr	267.716†	25624.0	491.66 ug/L	9.774	491.66 ppb	9.774	1.99%
QC value within limits for Cr 267.716 Recovery = 98.33%							
Cu	324.752†	111826.8	492.53 ug/L	9.623	492.53 ppb	9.623	1.95%
QC value within limits for Cu 324.752 Recovery = 98.51%							
Fe	238.204 Radial†	210.9	5400.7 ug/L	37.05	5400.7 ppb	37.05	0.69%
QC value within limits for Fe 238.204 Radial Recovery = 108.01%							
K	766.490 Radial†	18292.0	4968.3 ug/L	51.97	4968.3 ppb	51.97	1.05%
QC value within limits for K 766.490 Radial Recovery = 99.37%							
Mg	279.077 IEC†	68.2	5364.3 ug/L	117.17	5364.3 ppb	117.17	2.18%
QC value within limits for Mg 279.077 IEC Recovery = 107.29%							
Mn	257.610†	267817.1	490.76 ug/L	9.123	490.76 ppb	9.123	1.86%
QC value within limits for Mn 257.610 Recovery = 98.15%							
Mo	202.031†	3725.2	487.54 ug/L	7.213	487.54 ppb	7.213	1.48%
QC value within limits for Mo 202.031 Recovery = 97.51%							
Na	589.592 Radial†	18743.5	11397 ug/L	126.6	11397 ppb	126.6	1.11%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 113.97%							
Ni	231.604†	10557.6	481.35 ug/L	5.867	481.35 ppb	5.867	1.22%
QC value within limits for Ni 231.604 Recovery = 96.27%							
P	214.914†	2223.0	2267.7 ug/L	28.82	2267.7 ppb	28.82	1.27%
QC value within limits for P 214.914 Recovery = 90.71%							
Pb	220.353†	2147.6	485.60 ug/L	7.332	485.60 ppb	7.332	1.51%
QC value within limits for Pb 220.353 Recovery = 97.12%							
S	181.975 Axial†	370.7	952.05 ug/L	4.822	952.05 ppb	4.822	0.51%
QC value within limits for S 181.975 Axial Recovery = 95.21%							
Sb	206.836†	814.4	497.48 ug/L	6.909	497.48 ppb	6.909	1.39%
QC value within limits for Sb 206.836 Recovery = 99.50%							
Se	196.026†	398.2	501.91 ug/L	1.735	501.91 ppb	1.735	0.35%
QC value within limits for Se 196.026 Recovery = 100.38%							
Si	251.611†	45766.1	2442.6 ug/L	47.25	2442.6 ppb	47.25	1.93%
QC value within limits for Si 251.611 Recovery = 97.70%							
Sn	189.927†	1451.2	480.35 ug/L	6.087	480.35 ppb	6.087	1.27%
QC value within limits for Sn 189.927 Recovery = 96.07%							
Sr	421.552†	40954.9	539.09 ug/L	5.175	539.09 ppb	5.175	0.96%
QC value within limits for Sr 421.552 Recovery = 107.82%							
Ti	334.940†	207394.5	489.44 ug/L	9.018	489.44 ppb	9.018	1.84%
QC value within limits for Ti 334.940 Recovery = 97.89%							
Tl	190.801†	876.3	485.39 ug/L	6.147	485.39 ppb	6.147	1.27%
QC value within limits for Tl 190.801 Recovery = 97.08%							
U	409.014†	11986.3	482.83 ug/L	5.999	482.83 ppb	5.999	1.24%
QC value within limits for U 409.014 Recovery = 96.57%							
V	292.402†	44635.2	494.75 ug/L	8.907	494.75 ppb	8.907	1.80%
QC value within limits for V 292.402 Recovery = 98.95%							
Zn	213.857†	28461.5	485.02 ug/L	9.941	485.02 ppb	9.941	2.05%
QC value within limits for Zn 213.857 Recovery = 97.00%							
SiO2†		45417.6	5047.0 ug/L	50.72	5047.0 ppb	50.72	1.00%
QC value within limits for SiO2 Recovery = 94.38%							
QC Failed. Continue with analysis.							

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 4/12/2010 21:38:23

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	2607.8	2607.8	99.5 %		21:40:35
1	Y RADIAL	2927.1	2927.1	100.3 %		21:40:35
1	Al 396.153Radial†	-71.3	4.7	6.5115 ug/L	6.5115 ppb	21:40:35
1	Ca 317.933Radial†	8.8	-2.7	-8.8833 ug/L	-8.8833 ppb	21:40:35
1	Fe 238.204 Radial†	7.2	1.1	29.348 ug/L	29.348 ppb	21:40:35
1	K 766.490 Radial†	2470.8	41.9	11.422 ug/L	11.422 ppb	21:40:15
1	Mg 279.077 IEC†	1.0	0.9	67.477 ug/L	67.477 ppb	21:40:35
1	Na 589.592 Radial†	-1003.6	-64.5	-39.214 ug/L	-39.214 ppb	21:40:15
1	Sr 421.552†	26.6	9.7	0.1278 ug/L	0.1278 ppb	21:40:15
1	Sc 361.383	621026.4	621026.4	103.52 %		21:41:32
1	Y 371.029	523943.0	523943.0	103.77 %		21:41:32
1	Ag 328.068†	105.3	19.9	0.1449 ug/L	0.1449 ppb	21:41:32
1	As 188.979†	-15.3	2.9	2.2604 ug/L	2.2604 ppb	21:41:52
1	B 249.677†	-228.8	118.1	4.5542 ug/L	4.5542 ppb	21:41:52
1	Ba 233.527†	7.3	-4.1	-0.0502 ug/L	-0.0502 ppb	21:41:52
1	Be 313.107†	-3203.5	172.0	0.1009 ug/L	0.1009 ppb	21:41:32
1	Cd 226.502†	-149.2	17.5	0.3690 ug/L	0.3690 ppb	21:41:52
1	Co 228.616†	-34.1	-3.9	-0.1481 ug/L	-0.1481 ppb	21:41:52
1	Cr 267.716†	85.8	5.0	0.0991 ug/L	0.0991 ppb	21:41:52
1	Cu 324.752†	5265.9	-78.8	-0.3486 ug/L	-0.3486 ppb	21:41:32
1	Mn 257.610†	405.3	43.1	0.0797 ug/L	0.0797 ppb	21:41:52
1	Mo 202.031†	16.1	4.2	0.5523 ug/L	0.5523 ppb	21:41:52
1	Ni 231.604†	72.1	-8.1	-0.3692 ug/L	-0.3692 ppb	21:41:52
1	P 214.914†	157.9	-9.5	-10.156 ug/L	-10.156 ppb	21:41:52
1	Pb 220.353†	-52.2	-6.3	-1.4238 ug/L	-1.4238 ppb	21:41:52
1	S 181.975 Axial†	20.7	-2.7	-6.9354 ug/L	-6.9354 ppb	21:41:52
1	Sb 206.836†	15.5	-10.5	-6.2098 ug/L	-6.2098 ppb	21:41:52
1	Se 196.026†	-16.1	-0.9	-0.9447 ug/L	-0.9447 ppb	21:41:52
1	Si 251.611†	471.3	96.6	5.1594 ug/L	5.1594 ppb	21:41:52
1	Sn 189.927†	0.5	-6.4	-2.1075 ug/L	-2.1075 ppb	21:41:52
1	Ti 334.940†	-961.2	118.6	0.2708 ug/L	0.2708 ppb	21:41:32
1	Tl 190.801†	-19.3	8.4	4.6220 ug/L	4.6220 ppb	21:41:52
1	U 409.014†	-1172.3	145.4	5.8780 ug/L	5.8780 ppb	21:41:32
1	V 292.402†	-1190.8	97.2	1.0792 ug/L	1.0792 ppb	21:41:32
1	Zn 213.857†	519.7	-5.1	-0.0901 ug/L	-0.0901 ppb	21:41:52
1	SiO2†	481.2	112.4	12.512 ug/L	12.512 ppb	21:43:03
2	Sc Radial	2651.4	2651.4	101 %		21:41:00
2	Y RADIAL	2974.2	2974.2	101.9 %		21:41:00
2	Al 396.153Radial†	-73.8	3.4	4.7599 ug/L	4.7599 ppb	21:41:00
2	Ca 317.933Radial†	11.7	0.1	0.3936 ug/L	0.3936 ppb	21:41:00
2	Fe 238.204 Radial†	7.5	1.3	31.926 ug/L	31.926 ppb	21:41:00
2	K 766.490 Radial†	2468.6	-1.1	-0.2978 ug/L	-0.2978 ppb	21:40:40
2	Mg 279.077 IEC†	1.0	0.8	64.000 ug/L	64.000 ppb	21:41:00
2	Na 589.592 Radial†	-1008.1	-52.4	-31.838 ug/L	-31.838 ppb	21:40:40
2	Sr 421.552†	21.4	-4.1	0.0543 ug/L	0.0543 ppb	21:40:40
2	Sc 361.383	606227.5	606227.5	101.05 %		21:41:57
2	Y 371.029	511404.9	511404.9	101.28 %		21:41:57
2	Ag 328.068†	84.6	1.9	0.0253 ug/L	0.0253 ppb	21:41:57
2	As 188.979†	-14.5	3.3	2.5863 ug/L	2.5863 ppb	21:42:17
2	B 249.677†	-254.5	87.3	3.3650 ug/L	3.3650 ppb	21:42:17
2	Ba 233.527†	15.5	4.2	0.0578 ug/L	0.0578 ppb	21:42:17
2	Be 313.107†	-3200.9	99.0	0.0577 ug/L	0.0577 ppb	21:41:57
2	Cd 226.502†	-144.5	18.6	0.3919 ug/L	0.3919 ppb	21:42:17
2	Co 228.616†	-32.2	-2.8	-0.1066 ug/L	-0.1066 ppb	21:42:17
2	Cr 267.716†	55.0	-23.5	-0.4419 ug/L	-0.4419 ppb	21:42:17
2	Cu 324.752†	5315.3	94.3	0.4193 ug/L	0.4193 ppb	21:41:57
2	Mn 257.610†	393.7	41.3	0.0768 ug/L	0.0768 ppb	21:42:17
2	Mo 202.031†	10.9	-0.5	-0.0679 ug/L	-0.0679 ppb	21:42:17
2	Ni 231.604†	87.4	8.7	0.3991 ug/L	0.3991 ppb	21:42:17

2	P 214.914†	145.4	-18.2	-19.588 ug/L	-19.588 ppb	21:42:17
2	Pb 220.353†	-45.8	-1.2	-0.2647 ug/L	-0.2647 ppb	21:42:17
2	S 181.975 Axial†	20.8	-2.1	-5.4628 ug/L	-5.4628 ppb	21:42:17
2	Sb 206.836†	19.7	-5.9	-3.4854 ug/L	-3.4854 ppb	21:42:17
2	Se 196.026†	-18.5	-3.6	-4.2651 ug/L	-4.2651 ppb	21:42:17
2	Si 251.611†	453.7	90.3	4.8333 ug/L	4.8333 ppb	21:42:17
2	Sn 189.927†	6.9	0.0	0.0045 ug/L	0.0045 ppb	21:42:17
2	Ti 334.940†	-1058.7	-0.5	-0.0052 ug/L	-0.0052 ppb	21:41:57
2	Tl 190.801†	-23.0	4.3	2.3628 ug/L	2.3628 ppb	21:42:17
2	U 409.014†	-1352.9	-61.0	-2.4723 ug/L	-2.4723 ppb	21:41:57
2	V 292.402†	-1232.1	28.2	0.3001 ug/L	0.3001 ppb	21:41:57
2	Zn 213.857†	510.5	-1.9	-0.0413 ug/L	-0.0413 ppb	21:42:17
2	SiO2†	484.7	127.2	14.177 ug/L	14.177 ppb	21:43:23
3	Sc Radial	2641.1	2641.1	101 %		21:41:25
3	Y RADIAL	2960.8	2960.8	101.5 %		21:41:25
3	Al 396.153Radial†	-76.0	0.9	1.2598 ug/L	1.2598 ppb	21:41:25
3	Ca 317.933Radial†	12.2	0.6	1.9898 ug/L	1.9898 ppb	21:41:25
3	Fe 238.204 Radial†	9.0	2.8	70.571 ug/L	70.571 ppb	21:41:25
3	K 766.490 Radial†	2540.6	79.8	21.714 ug/L	21.714 ppb	21:41:05
3	Mg 279.077 IEC†	1.9	1.7	136.39 ug/L	136.39 ppb	21:41:25
3	Na 589.592 Radial†	-981.1	-29.4	-17.882 ug/L	-17.882 ppb	21:41:05
3	Sr 421.552†	16.2	-0.9	-0.0120 ug/L	-0.0120 ppb	21:41:05
3	Sc 361.383	597632.6	597632.6	99.616 %		21:42:22
3	Y 371.029	505001.5	505001.5	100.02 %		21:42:22
3	Ag 328.068†	100.6	19.1	0.1503 ug/L	0.1503 ppb	21:42:22
3	As 188.979†	-22.3	-4.8	-3.7119 ug/L	-3.7119 ppb	21:42:43
3	B 249.677†	-251.2	87.0	3.3489 ug/L	3.3489 ppb	21:42:43
3	Ba 233.527†	5.6	-5.6	-0.0691 ug/L	-0.0691 ppb	21:42:43
3	Be 313.107†	-3106.3	148.4	0.0873 ug/L	0.0873 ppb	21:42:22
3	Cd 226.502†	-150.4	10.7	0.2199 ug/L	0.2199 ppb	21:42:43
3	Co 228.616†	-37.1	-8.2	-0.3119 ug/L	-0.3119 ppb	21:42:43
3	Cr 267.716†	58.5	-19.1	-0.3550 ug/L	-0.3550 ppb	21:42:43
3	Cu 324.752†	5155.7	9.7	0.0456 ug/L	0.0456 ppb	21:42:22
3	Mn 257.610†	374.7	27.7	0.0537 ug/L	0.0537 ppb	21:42:43
3	Mo 202.031†	8.0	-3.3	-0.4300 ug/L	-0.4300 ppb	21:42:43
3	Ni 231.604†	76.2	-1.2	-0.0557 ug/L	-0.0557 ppb	21:42:43
3	P 214.914†	153.9	-7.6	-8.1610 ug/L	-8.1610 ppb	21:42:43
3	Pb 220.353†	-38.9	5.1	1.1335 ug/L	1.1335 ppb	21:42:43
3	S 181.975 Axial†	26.6	4.0	10.321 ug/L	10.321 ppb	21:42:43
3	Sb 206.836†	23.3	-2.0	-1.1700 ug/L	-1.1700 ppb	21:42:43
3	Se 196.026†	-19.0	-4.4	-5.0647 ug/L	-5.0647 ppb	21:42:43
3	Si 251.611†	503.6	146.9	7.8637 ug/L	7.8637 ppb	21:42:43
3	Sn 189.927†	12.6	5.8	1.9007 ug/L	1.9007 ppb	21:42:43
3	Ti 334.940†	-910.2	133.4	0.3022 ug/L	0.3022 ppb	21:42:22
3	Tl 190.801†	-29.1	-2.2	-1.1838 ug/L	-1.1838 ppb	21:42:43
3	U 409.014†	-1157.8	115.6	4.6643 ug/L	4.6643 ppb	21:42:22
3	V 292.402†	-1183.1	60.0	0.6514 ug/L	0.6514 ppb	21:42:22
3	Zn 213.857†	510.1	4.9	0.0732 ug/L	0.0732 ppb	21:42:43
3	SiO2†	485.4	134.9	15.037 ug/L	15.037 ppb	21:43:43

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	608295.5	101.39 %	1.972			1.95%
Sc Radial	2633.4	100 %	0.9			0.87%
Y 371.029	513449.8	101.69 %	1.908			1.88%
Y RADIAL	2954.0	101.2 %	0.83			0.82%
Ag 328.068†	13.6	0.1068 ug/L	0.07066	0.1068 ppb	0.07066	66.13%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.0	4.1770 ug/L	2.67392	4.1770 ppb	2.67392	64.01%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.5	0.3783 ug/L	3.54596	0.3783 ppb	3.54596	937.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	97.5	3.7560 ug/L	0.69127	3.7560 ppb	0.69127	18.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-1.8	-0.0205 ug/L	0.06848	-0.0205 ppb	0.06848	333.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	139.8	0.0820 ug/L	0.02208	0.0820 ppb	0.02208	26.93%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.7	-2.1667 ug/L	5.87132	-2.1667 ppb	5.87132	270.99%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	15.6	0.3270 ug/L	0.09343	0.3270 ppb	0.09343	28.58%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-5.0	-0.1889 ug/L	0.10854	-0.1889 ppb	0.10854	57.48%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-12.5	-0.2326 ug/L	0.29056	-0.2326 ppb	0.29056	124.92%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	8.4	0.0387 ug/L	0.38399	0.0387 ppb	0.38399	991.04%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	1.7	43.948 ug/L	23.0917	43.948 ppb	23.0917	52.54%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	40.2	10.946 ug/L	11.0138	10.946 ppb	11.0138	100.62%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1.1	89.288 ug/L	40.8262	89.288 ppb	40.8262	45.72%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	37.4	0.0700 ug/L	0.01425	0.0700 ppb	0.01425	20.35%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	0.1	0.0182 ug/L	0.49679	0.0182 ppb	0.49679	>999.9%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	-48.8	-29.645 ug/L	10.8342	-29.645 ppb	10.8342	36.55%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	-0.2	-0.0086 ug/L	0.38627	-0.0086 ppb	0.38627	>999.9%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	-11.7	-12.635 ug/L	6.1037	-12.635 ppb	6.1037	48.31%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	-0.8	-0.1850 ug/L	1.28051	-0.1850 ppb	1.28051	692.14%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	-0.3	-0.6924 ug/L	9.56627	-0.6924 ppb	9.56627	>999.9%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	-6.1	-3.6217 ug/L	2.52269	-3.6217 ppb	2.52269	69.65%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-3.0	-3.4248 ug/L	2.18478	-3.4248 ppb	2.18478	63.79%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	111.3	5.9521 ug/L	1.66346	5.9521 ppb	1.66346	27.95%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	-0.2	-0.0674 ug/L	2.00506	-0.0674 ppb	2.00506	>999.9%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	4.3	0.0567 ug/L	0.06992	0.0567 ppb	0.06992	123.36%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	83.8	0.1893 ug/L	0.16918	0.1893 ppb	0.16918	89.38%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	3.5	1.9337 ug/L	2.92664	1.9337 ppb	2.92664	151.35%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	66.7	2.6900 ug/L	4.51165	2.6900 ppb	4.51165	167.72%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	61.8	0.6769 ug/L	0.39021	0.6769 ppb	0.39021	57.65%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	-0.7	-0.0194 ug/L	0.08383	-0.0194 ppb	0.08383	432.39%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	124.8	13.909 ug/L	1.2838	13.909 ppb	1.2838	9.23%			
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 25

Sample ID: 248511013|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 56

Date Collected: 4/12/2010 21:45:53

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511013|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2809.7	2809.7	107	%		21:48:06
1	Y RADIAL	3761.5	3761.5	128.9	%		21:47:46
1	Al 396.153Radial†	20878.9	19559.3	27370	ug/L	27370 ppb	21:47:46
1	Ca 317.933Radial†	9601.1	8947.7	29698	ug/L	29698 ppb	21:47:46
1	Fe 238.204 Radial†	2555.3	2378.3	60735	ug/L	60735 ppb	21:48:06
1	K 766.490 Radial†	30067.5	25615.0	6957.1	ug/L	6957.1 ppb	21:47:46
1	Mg 279.077 IEC†	112.7	105.0	8193.0	ug/L	8193.0 ppb	21:48:06
1	Na 589.592 Radial†	-360.5	608.1	369.75	ug/L	369.75 ppb	21:47:46
1	Sr 421.552†	14885.7	13873.4	182.41	ug/L	182.41 ppb	21:47:46
1	Sc 361.383	633289.0	633289.0	105.56	%		21:49:03
1	Y 371.029	614611.9	614611.9	121.73	%		21:49:03
1	Ag 328.068†	-2305.5	-2265.9	1.6181	ug/L	1.6181 ppb	21:49:09
1	As 188.979†	-23.0	-4.1	24.845	ug/L	24.845 ppb	21:49:29
1	B 249.677†	1706.3	1955.6	65.574	ug/L	65.574 ppb	21:49:09
1	Ba 233.527†	38349.2	36318.3	482.94	ug/L	482.94 ppb	21:49:09
1	Be 313.107†	-6389.1	-2785.9	2.9025	ug/L	2.9025 ppb	21:49:09
1	Cd 226.502†	230.2	379.7	1.3067	ug/L	1.3067 ppb	21:49:29
1	Co 228.616†	432.8	439.0	11.706	ug/L	11.706 ppb	21:49:29
1	Cr 267.716†	1691.4	1524.5	39.758	ug/L	39.758 ppb	21:49:29
1	Cu 324.752†	14567.7	8634.6	42.479	ug/L	42.479 ppb	21:49:09
1	Mn 257.610†	2773940.1	2627492.0	4817.5	ug/L	4817.5 ppb	21:49:03
1	Mo 202.031†	-5.0	-16.1	2.7508	ug/L	2.7508 ppb	21:49:29
1	Ni 231.604†	778.1	659.4	29.717	ug/L	29.717 ppb	21:49:29
1	P 214.914†	1504.4	1263.1	1292.9	ug/L	1292.9 ppb	21:49:29
1	Pb 220.353†	310.4	338.2	75.022	ug/L	75.022 ppb	21:49:29
1	S 181.975 Axial†	619.5	564.2	1444.3	ug/L	1444.3 ppb	21:49:29
1	Sb 206.836†	32.4	5.2	-3.7487	ug/L	-3.7487 ppb	21:49:29
1	Se 196.026†	-208.5	-182.9	18.471	ug/L	18.471 ppb	21:49:29
1	Si 251.611†	115066.3	108647.2	5812.9	ug/L	5812.9 ppb	21:49:09
1	Sn 189.927†	-134.6	-134.4	-36.403	ug/L	-36.403 ppb	21:49:29
1	Ti 334.940†	890522.9	844667.3	1997.2	ug/L	1997.2 ppb	21:49:03
1	Tl 190.801†	-120.4	-87.0	-9.9109	ug/L	-9.9109 ppb	21:49:29
1	U 409.014†	-5989.4	-4396.0	-189.67	ug/L	-189.67 ppb	21:49:09
1	V 292.402†	5327.6	6294.5	58.504	ug/L	58.504 ppb	21:49:29
1	Zn 213.857†	20307.7	18731.0	311.96	ug/L	311.96 ppb	21:49:09
1	SiO2†	113432.5	107105.7	11933	ug/L	11933 ppb	21:50:36
2	Sc Radial	2830.2	2830.2	108	%		21:48:31
2	Y RADIAL	3726.3	3726.3	127.7	%		21:48:11
2	Al 396.153Radial†	21159.2	19678.2	27536	ug/L	27536 ppb	21:48:11
2	Ca 317.933Radial†	9737.7	9009.5	29903	ug/L	29903 ppb	21:48:11
2	Fe 238.204 Radial†	2574.2	2378.6	60742	ug/L	60742 ppb	21:48:31
2	K 766.490 Radial†	30686.3	25985.5	7057.8	ug/L	7057.8 ppb	21:48:11
2	Mg 279.077 IEC†	114.0	105.4	8228.1	ug/L	8228.1 ppb	21:48:31
2	Na 589.592 Radial†	-292.0	674.0	409.84	ug/L	409.84 ppb	21:48:11
2	Sr 421.552†	15043.1	13918.8	183.00	ug/L	183.00 ppb	21:48:11
2	Sc 361.383	636613.0	636613.0	106.11	%		21:49:34
2	Y 371.029	618491.8	618491.8	122.49	%		21:49:34
2	Ag 328.068†	-2260.9	-2212.5	1.9771	ug/L	1.9771 ppb	21:49:40
2	As 188.979†	-21.2	-2.3	26.245	ug/L	26.245 ppb	21:50:00
2	B 249.677†	1623.2	1868.9	62.226	ug/L	62.226 ppb	21:49:40
2	Ba 233.527†	37143.2	34992.0	465.40	ug/L	465.40 ppb	21:49:40
2	Be 313.107†	-6292.8	-2663.5	2.9577	ug/L	2.9577 ppb	21:49:40
2	Cd 226.502†	218.8	367.9	1.0571	ug/L	1.0571 ppb	21:50:00
2	Co 228.616†	434.0	438.1	11.677	ug/L	11.677 ppb	21:50:00
2	Cr 267.716†	1699.7	1523.8	39.743	ug/L	39.743 ppb	21:50:00
2	Cu 324.752†	14112.7	8133.7	40.267	ug/L	40.267 ppb	21:49:40
2	Mn 257.610†	2777860.4	2617465.3	4799.1	ug/L	4799.1 ppb	21:49:34
2	Mo 202.031†	-8.3	-19.2	2.3548	ug/L	2.3548 ppb	21:50:00
2	Ni 231.604†	788.5	665.4	29.991	ug/L	29.991 ppb	21:50:00

2	P 214.914†	1509.1	1260.1	1290.3 ug/L	1290.3 ppb	21:50:00
2	Pb 220.353†	315.7	341.6	75.837 ug/L	75.837 ppb	21:50:00
2	S 181.975 Axial†	614.9	556.7	1425.1 ug/L	1425.1 ppb	21:50:00
2	Sb 206.836†	38.3	10.6	-0.5276 ug/L	-0.5276 ppb	21:50:00
2	Se 196.026†	-201.7	-175.4	27.522 ug/L	27.522 ppb	21:50:00
2	Si 251.611†	111207.4	104441.4	5587.9 ug/L	5587.9 ppb	21:49:40
2	Sn 189.927†	-130.3	-129.7	-34.799 ug/L	-34.799 ppb	21:50:00
2	Ti 334.940†	891985.6	841640.9	1990.1 ug/L	1990.1 ppb	21:49:34
2	Tl 190.801†	-119.0	-85.1	-8.9736 ug/L	-8.9736 ppb	21:50:00
2	U 409.014†	-5737.1	-4128.6	-178.85 ug/L	-178.85 ppb	21:49:40
2	V 292.402†	5363.3	6301.8	58.606 ug/L	58.606 ppb	21:50:00
2	Zn 213.857†	19687.1	18045.7	300.17 ug/L	300.17 ppb	21:49:40
2	SiO2†	114861.4	107891.2	12021 ug/L	12021 ppb	21:50:41
3	Sc Radial	2794.8	2794.8	107 %		21:48:56
3	Y RADIAL	3718.7	3718.7	127.4 %		21:48:36
3	Al 396.153Radial†	20894.5	19677.8	27536 ug/L	27536 ppb	21:48:36
3	Ca 317.933Radial†	9573.8	8969.9	29771 ug/L	29771 ppb	21:48:36
3	Fe 238.204 Radial†	2556.8	2392.5	61096 ug/L	61096 ppb	21:48:56
3	K 766.490 Radial†	30111.8	25806.1	7009.0 ug/L	7009.0 ppb	21:48:36
3	Mg 279.077 IEC†	114.1	106.9	8346.0 ug/L	8346.0 ppb	21:48:56
3	Na 589.592 Radial†	-290.7	671.8	408.50 ug/L	408.50 ppb	21:48:36
3	Sr 421.552†	14843.4	13907.8	182.86 ug/L	182.86 ppb	21:48:36
3	Sc 361.383	621759.0	621759.0	103.64 %		21:50:05
3	Y 371.029	606422.8	606422.8	120.10 %		21:50:05
3	Ag 328.068†	-2348.9	-2348.3	1.1611 ug/L	1.1611 ppb	21:50:11
3	As 188.979†	-15.8	2.4	30.592 ug/L	30.592 ppb	21:50:31
3	B 249.677†	1712.5	1991.5	66.903 ug/L	66.903 ppb	21:50:11
3	Ba 233.527†	38466.9	37105.5	493.37 ug/L	493.37 ppb	21:50:11
3	Be 313.107†	-6477.0	-2982.9	2.9472 ug/L	2.9472 ppb	21:50:11
3	Cd 226.502†	215.8	369.9	1.0594 ug/L	1.0594 ppb	21:50:31
3	Co 228.616†	437.0	450.7	12.000 ug/L	12.000 ppb	21:50:31
3	Cr 267.716†	1751.8	1612.4	41.506 ug/L	41.506 ppb	21:50:31
3	Cu 324.752†	14597.6	8919.4	43.759 ug/L	43.759 ppb	21:50:11
3	Mn 257.610†	2818354.3	2719078.4	4985.2 ug/L	4985.2 ppb	21:50:05
3	Mo 202.031†	-3.6	-14.8	2.9439 ug/L	2.9439 ppb	21:50:31
3	Ni 231.604†	789.7	684.2	30.849 ug/L	30.849 ppb	21:50:31
3	P 214.914†	1526.2	1310.5	1343.2 ug/L	1343.2 ppb	21:50:31
3	Pb 220.353†	325.4	358.2	79.513 ug/L	79.513 ppb	21:50:31
3	S 181.975 Axial†	640.6	595.4	1524.5 ug/L	1524.5 ppb	21:50:31
3	Sb 206.836†	44.6	17.6	3.2775 ug/L	3.2775 ppb	21:50:31
3	Se 196.026†	-199.8	-178.1	25.667 ug/L	25.667 ppb	21:50:31
3	Si 251.611†	115320.5	110913.9	5934.2 ug/L	5934.2 ppb	21:50:11
3	Sn 189.927†	-143.7	-145.5	-40.064 ug/L	-40.064 ppb	21:50:31
3	Ti 334.940†	905165.0	874439.8	2067.5 ug/L	2067.5 ppb	21:50:05
3	Tl 190.801†	-100.3	-69.8	0.9354 ug/L	0.9354 ppb	21:50:31
3	U 409.014†	-5877.7	-4393.5	-189.64 ug/L	-189.64 ppb	21:50:11
3	V 292.402†	5451.3	6507.5	60.716 ug/L	60.716 ppb	21:50:31
3	Zn 213.857†	20438.6	19214.0	320.20 ug/L	320.20 ppb	21:50:11
3	SiO2†	113863.5	109514.4	12202 ug/L	12202 ppb	21:50:46

Mean Data: 248511013|973758|1

Analyte	Mean Corrected	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	630553.7	105.10	%	1.299				1.24%
Sc Radial	2811.6	107	%	0.7				0.63%
Y 371.029	613175.5	121.44	%	1.220				1.00%
Y RADIAL	3735.5	128.0	%	0.78				0.61%
Ag 328.068†	-2275.5	1.5854	ug/L	0.40900	1.5854	ppb	0.40900	25.80%
Al 396.153Radial†	19638.4	27481	ug/L	95.9	27481	ppb	95.9	0.35%
As 188.979†	-1.3	27.227	ug/L	2.9967	27.227	ppb	2.9967	11.01%
B 249.677†	1938.7	64.901	ug/L	2.4099	64.901	ppb	2.4099	3.71%
Ba 233.527†	36138.6	480.57	ug/L	14.136	480.57	ppb	14.136	2.94%
Be 313.107†	-2810.8	2.9358	ug/L	0.02928	2.9358	ppb	0.02928	1.00%
Ca 317.933Radial†	8975.7	29791	ug/L	103.9	29791	ppb	103.9	0.35%
Cd 226.502†	372.5	1.1411	ug/L	0.14343	1.1411	ppb	0.14343	12.57%
Co 228.616†	442.6	11.795	ug/L	0.1790	11.795	ppb	0.1790	1.52%
Cr 267.716†	1553.6	40.336	ug/L	1.0136	40.336	ppb	1.0136	2.51%
Cu 324.752†	8562.6	42.169	ug/L	1.7667	42.169	ppb	1.7667	4.19%
Fe 238.204 Radial†	2383.2	60858	ug/L	206.3	60858	ppb	206.3	0.34%
K 766.490 Radial†	25802.2	7007.9	ug/L	50.36	7007.9	ppb	50.36	0.72%

Mg 279.077 IEC†	105.8	8255.7 ug/L	80.17	8255.7 ppb	80.17	0.97%
Mn 257.610†	2654678.6	4867.3 ug/L	102.54	4867.3 ppb	102.54	2.11%
Mo 202.031†	-16.7	2.6831 ug/L	0.30032	2.6831 ppb	0.30032	11.19%
Na 589.592 Radial†	651.3	396.03 ug/L	22.771	396.03 ppb	22.771	5.75%
Ni 231.604†	669.6	30.185 ug/L	0.5906	30.185 ppb	0.5906	1.96%
P 214.914†	1277.9	1308.8 ug/L	29.80	1308.8 ppb	29.80	2.28%
Pb 220.353†	346.0	76.791 ug/L	2.3927	76.791 ppb	2.3927	3.12%
S 181.975 Axial†	572.1	1464.6 ug/L	52.72	1464.6 ppb	52.72	3.60%
Sb 206.836†	11.2	-0.3329 ug/L	3.51715	-0.3329 ppb	3.51715	>999.9%
Se 196.026†	-178.8	23.886 ug/L	4.7809	23.886 ppb	4.7809	20.02%
Si 251.611†	108000.9	5778.3 ug/L	175.71	5778.3 ppb	175.71	3.04%
Sn 189.927†	-136.5	-37.089 ug/L	2.6984	-37.089 ppb	2.6984	7.28%
Sr 421.552†	13900.0	182.76 ug/L	0.311	182.76 ppb	0.311	0.17%
Ti 334.940†	853582.7	2018.3 ug/L	42.79	2018.3 ppb	42.79	2.12%
Tl 190.801†	-80.6	-5.9830 ug/L	6.00981	-5.9830 ppb	6.00981	100.45%
U 409.014†	-4306.1	-186.05 ug/L	6.237	-186.05 ppb	6.237	3.35%
V 292.402†	6368.0	59.276 ug/L	1.2486	59.276 ppb	1.2486	2.11%
Zn 213.857†	18663.6	310.77 ug/L	10.068	310.77 ppb	10.068	3.24%
SiO2†	108170.4	12052 ug/L	136.9	12052 ppb	136.9	1.14%

Sequence No.: 26

Sample ID: 248511014|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 4/12/2010 21:52:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511014|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2814.1	2814.1	107 %		21:55:10
1	Y RADIAL	3989.2	3989.2	136.7 %		21:54:50
1	Al 396.153Radial†	24318.7	22733.8	31812 ug/L	31812 ppb	21:54:50
1	Ca 317.933Radial†	5449.3	5065.5	16813 ug/L	16813 ppb	21:54:50
1	Fe 238.204 Radial†	3476.8	3233.2	82565 ug/L	82565 ppb	21:55:10
1	K 766.490 Radial†	25920.7	21707.8	5898.3 ug/L	5898.3 ppb	21:54:50
1	Mg 279.077 IEC†	114.8	106.8	8313.7 ug/L	8313.7 ppb	21:55:10
1	Na 589.592 Radial†	446.1	1360.2	827.06 ug/L	827.06 ppb	21:54:50
1	Sr 421.552†	11342.6	10550.7	138.76 ug/L	138.76 ppb	21:54:50
1	Sc 361.383	641471.7	641471.7	106.92 %		21:56:07
1	Y 371.029	644676.8	644676.8	127.68 %		21:56:07
1	Ag 328.068†	-3514.0	-3368.3	0.5275 ug/L	0.5275 ppb	21:56:13
1	As 188.979†	-15.4	3.3	38.223 ug/L	38.223 ppb	21:56:33
1	B 249.677†	740.5	1031.7	26.357 ug/L	26.357 ppb	21:56:13
1	Ba 233.527†	35524.2	33212.7	442.79 ug/L	442.79 ppb	21:56:13
1	Be 313.107†	-4497.1	-939.2	4.8755 ug/L	4.8755 ppb	21:56:13
1	Cd 226.502†	324.0	464.6	0.6895 ug/L	0.6895 ppb	21:56:33
1	Co 228.616†	558.6	551.4	14.770 ug/L	14.770 ppb	21:56:33
1	Cr 267.716†	4065.7	3724.6	85.652 ug/L	85.652 ppb	21:56:33
1	Cu 324.752†	12299.8	6337.5	33.950 ug/L	33.950 ppb	21:56:13
1	Mn 257.610†	1745179.1	1631825.3	2997.2 ug/L	2997.2 ppb	21:56:07
1	Mo 202.031†	19.7	7.1	7.0408 ug/L	7.0408 ppb	21:56:33
1	Ni 231.604†	1285.4	1124.5	50.807 ug/L	50.807 ppb	21:56:33
1	P 214.914†	950.8	727.2	700.90 ug/L	700.90 ppb	21:56:33
1	Pb 220.353†	298.9	323.7	69.615 ug/L	69.615 ppb	21:56:33
1	S 181.975 Axial†	311.4	268.5	682.97 ug/L	682.97 ppb	21:56:33
1	Sb 206.836†	44.2	15.9	2.0026 ug/L	2.0026 ppb	21:56:33
1	Se 196.026†	-272.8	-240.5	34.866 ug/L	34.866 ppb	21:56:33
1	Si 251.611†	194768.6	181798.1	9726.6 ug/L	9726.6 ppb	21:56:13
1	Sn 189.927†	-67.5	-70.0	-18.022 ug/L	-18.022 ppb	21:56:33
1	Ti 334.940†	1080716.4	1011784.0	2390.2 ug/L	2390.2 ppb	21:56:07
1	Tl 190.801†	-99.2	-65.7	-3.9492 ug/L	-3.9492 ppb	21:56:33
1	U 409.014†	-7651.9	-5878.5	-253.96 ug/L	-253.96 ppb	21:56:07
1	V 292.402†	7569.9	8327.3	77.358 ug/L	77.358 ppb	21:56:13
1	Zn 213.857†	25134.6	22999.9	381.66 ug/L	381.66 ppb	21:56:13
1	SiO2†	193564.2	180678.0	20130 ug/L	20130 ppb	21:57:40
2	Sc Radial	2806.1	2806.1	107 %		21:55:35
2	Y RADIAL	3766.2	3766.2	129.1 %		21:55:15
2	Al 396.153Radial†	24628.5	23088.1	32308 ug/L	32308 ppb	21:55:15
2	Ca 317.933Radial†	5520.5	5146.6	17082 ug/L	17082 ppb	21:55:15
2	Fe 238.204 Radial†	3560.4	3320.5	84796 ug/L	84796 ppb	21:55:35
2	K 766.490 Radial†	25889.6	21747.9	5909.2 ug/L	5909.2 ppb	21:55:15
2	Mg 279.077 IEC†	117.1	109.2	8505.1 ug/L	8505.1 ppb	21:55:35
2	Na 589.592 Radial†	475.7	1389.0	844.56 ug/L	844.56 ppb	21:55:15
2	Sr 421.552†	11425.3	10658.3	140.18 ug/L	140.18 ppb	21:55:15
2	Sc 361.383	634425.3	634425.3	105.75 %		21:56:38
2	Y 371.029	637988.8	637988.8	126.35 %		21:56:38
2	Ag 328.068†	-3439.9	-3334.7	1.3968 ug/L	1.3968 ppb	21:56:44
2	As 188.979†	-11.8	6.5	41.091 ug/L	41.091 ppb	21:57:04
2	B 249.677†	767.0	1064.5	27.257 ug/L	27.257 ppb	21:56:44
2	Ba 233.527†	35667.3	33717.1	449.55 ug/L	449.55 ppb	21:56:44
2	Be 313.107†	-4577.9	-1062.3	4.7762 ug/L	4.7762 ppb	21:56:44
2	Cd 226.502†	311.7	456.4	0.2655 ug/L	0.2655 ppb	21:57:04
2	Co 228.616†	559.0	557.7	15.001 ug/L	15.001 ppb	21:57:04
2	Cr 267.716†	4052.7	3754.5	86.611 ug/L	86.611 ppb	21:57:04
2	Cu 324.752†	12290.9	6456.8	34.639 ug/L	34.639 ppb	21:56:44
2	Mn 257.610†	1718903.2	1625105.8	2985.1 ug/L	2985.1 ppb	21:56:38
2	Mo 202.031†	13.2	1.1	6.4253 ug/L	6.4253 ppb	21:57:04
2	Ni 231.604†	1274.5	1127.4	50.929 ug/L	50.929 ppb	21:57:04

2	P 214.914†	965.9	751.3	724.60 ug/L	724.60 ppb	21:57:04
2	Pb 220.353†	309.7	337.0	72.433 ug/L	72.433 ppb	21:57:04
2	S 181.975 Axial†	324.7	284.4	723.72 ug/L	723.72 ppb	21:57:04
2	Sb 206.836†	34.6	7.3	-3.1432 ug/L	-3.1432 ppb	21:57:04
2	Se 196.026†	-285.6	-255.4	25.648 ug/L	25.648 ppb	21:57:04
2	Si 251.611†	195542.2	184552.7	9874.0 ug/L	9874.0 ppb	21:56:44
2	Sn 189.927†	-84.6	-86.9	-23.487 ug/L	-23.487 ppb	21:57:04
2	Ti 334.940†	1063423.8	1006657.4	2378.1 ug/L	2378.1 ppb	21:56:38
2	Tl 190.801†	-99.4	-66.9	-4.7565 ug/L	-4.7565 ppb	21:57:04
2	U 409.014†	-7721.0	-6023.3	-260.25 ug/L	-260.25 ppb	21:56:38
2	V 292.402†	7590.6	8425.5	78.133 ug/L	78.133 ppb	21:56:44
2	Zn 213.857†	25279.0	23397.5	388.13 ug/L	388.13 ppb	21:56:44
2	SiO2†	192013.6	181222.3	20191 ug/L	20191 ppb	21:57:45
3	Sc Radial	2848.2	2848.2	109 %		21:56:00
3	Y RADIAL	3882.6	3882.6	133.1 %		21:55:40
3	Al 396.153Radial†	25180.7	23255.9	32543 ug/L	32543 ppb	21:55:40
3	Ca 317.933Radial†	5629.4	5170.5	17161 ug/L	17161 ppb	21:55:40
3	Fe 238.204 Radial†	3617.1	3323.5	84871 ug/L	84871 ppb	21:56:00
3	K 766.490 Radial†	26618.8	22061.1	5994.3 ug/L	5994.3 ppb	21:55:40
3	Mg 279.077 IEC†	113.1	104.0	8088.2 ug/L	8088.2 ppb	21:56:00
3	Na 589.592 Radial†	479.0	1385.5	842.43 ug/L	842.43 ppb	21:55:40
3	Sr 421.552†	11700.4	10753.6	141.43 ug/L	141.43 ppb	21:55:40
3	Sc 361.383	640590.8	640590.8	106.78 %		21:57:09
3	Y 371.029	643657.3	643657.3	127.48 %		21:57:09
3	Ag 328.068†	-3508.2	-3367.4	1.1835 ug/L	1.1835 ppb	21:57:15
3	As 188.979†	-21.4	-2.4	34.205 ug/L	34.205 ppb	21:57:35
3	B 249.677†	669.3	965.9	23.443 ug/L	23.443 ppb	21:57:15
3	Ba 233.527†	35520.3	33254.8	443.44 ug/L	443.44 ppb	21:57:15
3	Be 313.107†	-4424.5	-877.0	4.9058 ug/L	4.9058 ppb	21:57:15
3	Cd 226.502†	302.8	445.3	0.0211 ug/L	0.0211 ppb	21:57:35
3	Co 228.616†	558.0	551.6	14.748 ug/L	14.748 ppb	21:57:35
3	Cr 267.716†	4037.2	3703.1	85.637 ug/L	85.637 ppb	21:57:35
3	Cu 324.752†	12197.6	6257.6	33.765 ug/L	33.765 ppb	21:57:15
3	Mn 257.610†	1740926.3	1630086.8	2994.3 ug/L	2994.3 ppb	21:57:09
3	Mo 202.031†	13.3	1.1	6.4267 ug/L	6.4267 ppb	21:57:35
3	Ni 231.604†	1273.2	1114.7	50.346 ug/L	50.346 ppb	21:57:35
3	P 214.914†	948.9	726.6	698.34 ug/L	698.34 ppb	21:57:35
3	Pb 220.353†	296.5	321.8	69.052 ug/L	69.052 ppb	21:57:35
3	S 181.975 Axial†	318.4	275.5	700.68 ug/L	700.68 ppb	21:57:35
3	Sb 206.836†	41.6	13.5	0.5410 ug/L	0.5410 ppb	21:57:35
3	Se 196.026†	-281.2	-248.7	34.010 ug/L	34.010 ppb	21:57:35
3	Si 251.611†	193209.5	180588.4	9661.9 ug/L	9661.9 ppb	21:57:15
3	Sn 189.927†	-78.4	-80.3	-21.305 ug/L	-21.305 ppb	21:57:35
3	Ti 334.940†	1078042.4	1010669.5	2387.7 ug/L	2387.7 ppb	21:57:09
3	Tl 190.801†	-92.3	-59.4	-0.4922 ug/L	-0.4922 ppb	21:57:35
3	U 409.014†	-7700.6	-5933.9	-256.65 ug/L	-256.65 ppb	21:57:09
3	V 292.402†	7540.1	8309.1	76.839 ug/L	76.839 ppb	21:57:15
3	Zn 213.857†	25055.8	22958.5	380.57 ug/L	380.57 ppb	21:57:15
3	SiO2†	193735.0	181086.8	20176 ug/L	20176 ppb	21:57:51

Mean Data: 248511014|973758|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Units	Units		Conc. Units		
Sc 361.383	638829.3	106.48	%	0.640			0.60%
Sc Radial	2822.8	108	%	0.9			0.79%
Y 371.029	642107.6	127.17	%	0.714			0.56%
Y RADIAL	3879.3	133.0	%	3.82			2.87%
Ag 328.068†	-3356.8	1.0359	ug/L	0.45305	1.0359 ppb	0.45305	43.73%
Al 396.153Radial†	23025.9	32221	ug/L	373.0	32221 ppb	373.0	1.16%
As 188.979†	2.5	37.839	ug/L	3.4587	37.839 ppb	3.4587	9.14%
B 249.677†	1020.7	25.686	ug/L	1.9936	25.686 ppb	1.9936	7.76%
Ba 233.527†	33394.9	445.26	ug/L	3.731	445.26 ppb	3.731	0.84%
Be 313.107†	-959.5	4.8525	ug/L	0.06780	4.8525 ppb	0.06780	1.40%
Ca 317.933Radial†	5127.6	17018	ug/L	182.7	17018 ppb	182.7	1.07%
Cd 226.502†	455.4	0.3254	ug/L	0.33817	0.3254 ppb	0.33817	103.93%
Co 228.616†	553.6	14.840	ug/L	0.1399	14.840 ppb	0.1399	0.94%
Cr 267.716†	3727.4	85.967	ug/L	0.5580	85.967 ppb	0.5580	0.65%
Cu 324.752†	6350.6	34.118	ug/L	0.4607	34.118 ppb	0.4607	1.35%
Fe 238.204 Radial†	3292.4	84077	ug/L	1310.2	84077 ppb	1310.2	1.56%
K 766.490 Radial†	21838.9	5934.0	ug/L	52.58	5934.0 ppb	52.58	0.89%

Mg 279.077 IEC†	106.7	8302.3 ug/L	208.69	8302.3 ppb	208.69	2.51%
Mn 257.610†	1629006.0	2992.2 ug/L	6.29	2992.2 ppb	6.29	0.21%
Mo 202.031†	3.1	6.6309 ug/L	0.35493	6.6309 ppb	0.35493	5.35%
Na 589.592 Radial†	1378.2	838.02 ug/L	9.548	838.02 ppb	9.548	1.14%
Ni 231.604†	1122.2	50.694 ug/L	0.3075	50.694 ppb	0.3075	0.61%
P 214.914†	735.0	707.95 ug/L	14.480	707.95 ppb	14.480	2.05%
Pb 220.353†	327.5	70.366 ug/L	1.8115	70.366 ppb	1.8115	2.57%
S 181.975 Axial†	276.1	702.45 ug/L	20.432	702.45 ppb	20.432	2.91%
Sb 206.836†	12.2	-0.1999 ug/L	2.65169	-0.1999 ppb	2.65169	>999.9%
Se 196.026†	-248.2	31.508 ug/L	5.0926	31.508 ppb	5.0926	16.16%
Si 251.611†	182313.1	9754.2 ug/L	108.70	9754.2 ppb	108.70	1.11%
Sn 189.927†	-79.1	-20.938 ug/L	2.7508	-20.938 ppb	2.7508	13.14%
Sr 421.552†	10654.2	140.12 ug/L	1.335	140.12 ppb	1.335	0.95%
Ti 334.940†	1009703.7	2385.3 ug/L	6.37	2385.3 ppb	6.37	0.27%
Tl 190.801†	-64.0	-3.0659 ug/L	2.26522	-3.0659 ppb	2.26522	73.88%
U 409.014†	-5945.2	-256.95 ug/L	3.157	-256.95 ppb	3.157	1.23%
V 292.402†	8354.0	77.443 ug/L	0.6510	77.443 ppb	0.6510	0.84%
Zn 213.857†	23118.6	383.46 ug/L	4.087	383.46 ppb	4.087	1.07%
SiO2†	180995.7	20166 ug/L	31.6	20166 ppb	31.6	0.16%

Sequence No.: 27

Sample ID: 248511015|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 4/12/2010 22:00:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511015|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2815.4	2815.4	107 %		22:02:14
1	Y RADIAL	3822.2	3822.2	131.0 %		22:01:54
1	Al 396.153Radial†	29269.0	27333.1	38248 ug/L	38248 ppb	22:01:54
1	Ca 317.933Radial†	7023.3	6528.9	21670 ug/L	21670 ppb	22:01:54
1	Fe 238.204 Radial†	3131.0	2909.6	74302 ug/L	74302 ppb	22:02:14
1	K 766.490 Radial†	31776.9	27150.0	7377.1 ug/L	7377.1 ppb	22:01:54
1	Mg 279.077 IEC†	121.4	112.9	8801.0 ug/L	8801.0 ppb	22:02:14
1	Na 589.592 Radial†	-150.6	804.3	489.04 ug/L	489.04 ppb	22:01:54
1	Sr 421.552†	12473.6	11599.1	152.53 ug/L	152.53 ppb	22:01:54
1	Sc 361.383	647264.5	647264.5	107.89 %		22:03:12
1	Y 371.029	633025.3	633025.3	125.37 %		22:03:12
1	Ag 328.068†	-2870.8	-2742.8	2.3602 ug/L	2.3602 ppb	22:03:17
1	As 188.979†	-14.1	4.6	32.561 ug/L	32.561 ppb	22:03:37
1	B 249.677†	786.3	1068.0	29.105 ug/L	29.105 ppb	22:03:17
1	Ba 233.527†	35468.7	32864.0	437.84 ug/L	437.84 ppb	22:03:17
1	Be 313.107†	-797.4	2527.6	5.4598 ug/L	5.4598 ppb	22:03:17
1	Cd 226.502†	269.8	411.7	0.4980 ug/L	0.4980 ppb	22:03:37
1	Co 228.616†	502.7	495.0	14.080 ug/L	14.080 ppb	22:03:37
1	Cr 267.716†	3990.5	3620.8	82.216 ug/L	82.216 ppb	22:03:37
1	Cu 324.752†	13873.1	7692.8	39.292 ug/L	39.292 ppb	22:03:17
1	Mn 257.610†	2211182.8	2049145.7	3760.2 ug/L	3760.2 ppb	22:03:12
1	Mo 202.031†	-9.3	-20.0	3.0253 ug/L	3.0253 ppb	22:03:37
1	Ni 231.604†	1337.2	1161.7	52.556 ug/L	52.556 ppb	22:03:37
1	P 214.914†	1170.7	923.0	919.00 ug/L	919.00 ppb	22:03:37
1	Pb 220.353†	287.4	310.5	69.320 ug/L	69.320 ppb	22:03:37
1	S 181.975 Axial†	330.3	283.4	719.81 ug/L	719.81 ppb	22:03:37
1	Sb 206.836†	31.2	3.5	-3.9378 ug/L	-3.9378 ppb	22:03:37
1	Se 196.026†	-245.5	-212.9	35.765 ug/L	35.765 ppb	22:03:37
1	Si 251.611†	209820.5	194119.1	10386 ug/L	10386 ppb	22:03:17
1	Sn 189.927†	-103.4	-102.7	-27.740 ug/L	-27.740 ppb	22:03:37
1	Ti 334.940†	801075.8	743545.7	1757.4 ug/L	1757.4 ppb	22:03:12
1	Tl 190.801†	-100.2	-65.8	-5.1400 ug/L	-5.1400 ppb	22:03:37
1	U 409.014†	-5749.7	-4051.3	-178.43 ug/L	-178.43 ppb	22:03:17
1	V 292.402†	7442.6	8145.9	77.233 ug/L	77.233 ppb	22:03:17
1	Zn 213.857†	20504.4	18497.9	305.56 ug/L	305.56 ppb	22:03:17
1	SiO2†	210947.6	195170.0	21745 ug/L	21745 ppb	22:04:44
2	Sc Radial	2821.0	2821.0	108 %		22:02:39
2	Y RADIAL	3792.0	3792.0	130.0 %		22:02:19
2	Al 396.153Radial†	29769.9	27744.7	38824 ug/L	38824 ppb	22:02:19
2	Ca 317.933Radial†	7146.7	6630.7	22007 ug/L	22007 ppb	22:02:19
2	Fe 238.204 Radial†	3087.6	2863.5	73125 ug/L	73125 ppb	22:02:39
2	K 766.490 Radial†	32149.6	27437.8	7455.2 ug/L	7455.2 ppb	22:02:19
2	Mg 279.077 IEC†	121.6	112.8	8798.2 ug/L	8798.2 ppb	22:02:39
2	Na 589.592 Radial†	-121.0	832.0	505.91 ug/L	505.91 ppb	22:02:19
2	Sr 421.552†	12644.6	11735.0	154.31 ug/L	154.31 ppb	22:02:19
2	Sc 361.383	633767.7	633767.7	105.64 %		22:03:43
2	Y 371.029	624389.5	624389.5	123.66 %		22:03:43
2	Ag 328.068†	-2986.3	-2908.8	0.8864 ug/L	0.8864 ppb	22:03:48
2	As 188.979†	-18.0	0.7	29.845 ug/L	29.845 ppb	22:04:08
2	B 249.677†	762.6	1061.1	29.029 ug/L	29.029 ppb	22:03:48
2	Ba 233.527†	35521.5	33614.1	447.72 ug/L	447.72 ppb	22:03:48
2	Be 313.107†	-835.1	2476.2	5.6050 ug/L	5.6050 ppb	22:03:48
2	Cd 226.502†	276.1	423.0	0.8698 ug/L	0.8698 ppb	22:04:08
2	Co 228.616†	483.1	486.3	13.613 ug/L	13.613 ppb	22:04:08
2	Cr 267.716†	4024.1	3731.4	84.133 ug/L	84.133 ppb	22:04:08
2	Cu 324.752†	13933.2	8023.5	40.665 ug/L	40.665 ppb	22:03:48
2	Mn 257.610†	2258881.5	2137944.4	3922.7 ug/L	3922.7 ppb	22:03:43
2	Mo 202.031†	-3.3	-14.5	3.6694 ug/L	3.6694 ppb	22:04:08
2	Ni 231.604†	1368.8	1218.0	55.128 ug/L	55.128 ppb	22:04:08

2	P 214.914†	1189.4	963.9	963.72 ug/L	963.72 ppb	22:04:08
2	Pb 220.353†	276.1	305.5	68.494 ug/L	68.494 ppb	22:04:08
2	S 181.975 Axial†	328.4	288.2	732.01 ug/L	732.01 ppb	22:04:08
2	Sb 206.836†	31.4	4.3	-3.7029 ug/L	-3.7029 ppb	22:04:08
2	Se 196.026†	-245.6	-217.9	25.187 ug/L	25.187 ppb	22:04:08
2	Si 251.611†	210330.3	198743.2	10633 ug/L	10633 ppb	22:03:48
2	Sn 189.927†	-99.1	-100.7	-26.995 ug/L	-26.995 ppb	22:04:08
2	Ti 334.940†	818891.9	776223.1	1834.6 ug/L	1834.6 ppb	22:03:43
2	Tl 190.801†	-102.6	-70.1	-6.1257 ug/L	-6.1257 ppb	22:04:08
2	U 409.014†	-5663.3	-4083.1	-179.49 ug/L	-179.49 ppb	22:03:48
2	V 292.402†	7461.8	8311.0	79.119 ug/L	79.119 ppb	22:03:48
2	Zn 213.857†	20623.4	19015.3	314.64 ug/L	314.64 ppb	22:03:48
2	SiO2†	209172.5	197653.5	22022 ug/L	22022 ppb	22:04:50
3	Sc Radial	2705.1	2705.1	103 %		22:03:05
3	Y RADIAL	3805.4	3805.4	130.4 %		22:02:44
3	Al 396.153Radial†	28877.7	28065.2	39273 ug/L	39273 ppb	22:02:44
3	Ca 317.933Radial†	6922.2	6697.7	22230 ug/L	22230 ppb	22:02:44
3	Fe 238.204 Radial†	3077.1	2976.3	76005 ug/L	76005 ppb	22:03:05
3	K 766.490 Radial†	31492.9	28081.4	7630.2 ug/L	7630.2 ppb	22:02:44
3	Mg 279.077 IEC†	118.3	114.5	8924.4 ug/L	8924.4 ppb	22:03:05
3	Na 589.592 Radial†	-172.8	777.0	472.46 ug/L	472.46 ppb	22:02:44
3	Sr 421.552†	12345.0	11948.0	157.12 ug/L	157.12 ppb	22:02:44
3	Sc 361.383	625928.7	625928.7	104.33 %		22:04:14
3	Y 371.029	616725.4	616725.4	122.14 %		22:04:14
3	Ag 328.068†	-2837.2	-2801.3	2.4511 ug/L	2.4511 ppb	22:04:19
3	As 188.979†	-12.6	5.6	34.310 ug/L	34.310 ppb	22:04:39
3	B 249.677†	777.5	1084.4	29.461 ug/L	29.461 ppb	22:04:19
3	Ba 233.527†	35413.8	33932.0	452.04 ug/L	452.04 ppb	22:04:19
3	Be 313.107†	-738.3	2559.1	5.6590 ug/L	5.6590 ppb	22:04:19
3	Cd 226.502†	280.5	430.5	0.7074 ug/L	0.7074 ppb	22:04:39
3	Co 228.616†	495.6	504.1	14.238 ug/L	14.238 ppb	22:04:39
3	Cr 267.716†	4020.4	3775.6	85.478 ug/L	85.478 ppb	22:04:39
3	Cu 324.752†	13874.0	8132.0	41.356 ug/L	41.356 ppb	22:04:19
3	Mn 257.610†	2234003.1	2140878.7	3928.4 ug/L	3928.4 ppb	22:04:14
3	Mo 202.031†	-2.6	-13.9	3.9531 ug/L	3.9531 ppb	22:04:39
3	Ni 231.604†	1354.1	1220.1	55.211 ug/L	55.211 ppb	22:04:39
3	P 214.914†	1172.1	961.3	958.22 ug/L	958.22 ppb	22:04:39
3	Pb 220.353†	282.5	315.0	70.342 ug/L	70.342 ppb	22:04:39
3	S 181.975 Axial†	334.3	297.8	756.48 ug/L	756.48 ppb	22:04:39
3	Sb 206.836†	36.8	9.9	-0.3757 ug/L	-0.3757 ppb	22:04:39
3	Se 196.026†	-241.2	-216.5	38.131 ug/L	38.131 ppb	22:04:39
3	Si 251.611†	209155.2	200110.5	10706 ug/L	10706 ppb	22:04:19
3	Sn 189.927†	-91.4	-94.5	-24.860 ug/L	-24.860 ppb	22:04:39
3	Ti 334.940†	809844.4	777259.5	1837.1 ug/L	1837.1 ppb	22:04:14
3	Tl 190.801†	-92.6	-61.7	-1.4653 ug/L	-1.4653 ppb	22:04:39
3	U 409.014†	-5923.0	-4399.1	-192.84 ug/L	-192.84 ppb	22:04:19
3	V 292.402†	7381.6	8322.6	78.843 ug/L	78.843 ppb	22:04:19
3	Zn 213.857†	20485.2	19127.3	316.09 ug/L	316.09 ppb	22:04:19
3	SiO2†	209567.6	200512.1	22340 ug/L	22340 ppb	22:04:55

Mean Data: 248511015|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	635653.7	105.95 %	1.799			1.70%
Sc Radial	2780.5	106 %	2.5			2.35%
Y 371.029	624713.4	123.73 %	1.615			1.31%
Y RADIAL	3806.5	130.5 %	0.52			0.40%
Ag 328.068†	-2817.6	1.8992 ug/L	0.87832	1.8992 ppb	0.87832	46.25%
Al 396.153Radial†	27714.3	38782 ug/L	513.5	38782 ppb	513.5	1.32%
As 188.979†	3.6	32.239 ug/L	2.2499	32.239 ppb	2.2499	6.98%
B 249.677†	1071.2	29.198 ug/L	0.2307	29.198 ppb	0.2307	0.79%
Ba 233.527†	33470.0	445.87 ug/L	7.278	445.87 ppb	7.278	1.63%
Be 313.107†	2521.0	5.5746 ug/L	0.10298	5.5746 ppb	0.10298	1.85%
Ca 317.933Radial†	6619.1	21969 ug/L	282.0	21969 ppb	282.0	1.28%
Cd 226.502†	421.7	0.6918 ug/L	0.18640	0.6918 ppb	0.18640	26.95%
Co 228.616†	495.1	13.977 ug/L	0.3250	13.977 ppb	0.3250	2.33%
Cr 267.716†	3709.2	83.942 ug/L	1.6392	83.942 ppb	1.6392	1.95%
Cu 324.752†	7949.4	40.437 ug/L	1.0506	40.437 ppb	1.0506	2.60%
Fe 238.204 Radial†	2916.5	74477 ug/L	1447.7	74477 ppb	1447.7	1.94%
K 766.490 Radial†	27556.4	7487.5 ug/L	129.61	7487.5 ppb	129.61	1.73%

Mg 279.077 IEC†	113.4	8841.2 ug/L	72.07	8841.2 ppb	72.07	0.82%
Mn 257.610†	2109323.0	3870.4 ug/L	95.47	3870.4 ppb	95.47	2.47%
Mo 202.031†	-16.1	3.5493 ug/L	0.47544	3.5493 ppb	0.47544	13.40%
Na 589.592 Radial†	804.4	489.14 ug/L	16.727	489.14 ppb	16.727	3.42%
Ni 231.604†	1199.9	54.298 ug/L	1.5098	54.298 ppb	1.5098	2.78%
P 214.914†	949.4	946.98 ug/L	24.387	946.98 ppb	24.387	2.58%
Pb 220.353†	310.3	69.385 ug/L	0.9257	69.385 ppb	0.9257	1.33%
S 181.975 Axial†	289.8	736.10 ug/L	18.672	736.10 ppb	18.672	2.54%
Sb 206.836†	5.9	-2.6721 ug/L	1.99224	-2.6721 ppb	1.99224	74.56%
Se 196.026†	-215.8	33.028 ug/L	6.8924	33.028 ppb	6.8924	20.87%
Si 251.611†	197657.6	10575 ug/L	168.0	10575 ppb	168.0	1.59%
Sn 189.927†	-99.3	-26.532 ug/L	1.4951	-26.532 ppb	1.4951	5.64%
Sr 421.552†	11760.7	154.65 ug/L	2.313	154.65 ppb	2.313	1.50%
Ti 334.940†	765676.1	1809.7 ug/L	45.30	1809.7 ppb	45.30	2.50%
Tl 190.801†	-65.8	-4.2437 ug/L	2.45609	-4.2437 ppb	2.45609	57.88%
U 409.014†	-4177.8	-183.59 ug/L	8.030	-183.59 ppb	8.030	4.37%
V 292.402†	8259.9	78.399 ug/L	1.0185	78.399 ppb	1.0185	1.30%
Zn 213.857†	18880.2	312.09 ug/L	5.706	312.09 ppb	5.706	1.83%
SiO2†	197778.6	22036 ug/L	297.8	22036 ppb	297.8	1.35%

Sequence No.: 28

Sample ID: 248511016|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 4/12/2010 22:07:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511016|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2770.1	2770.1	106 %		22:09:19
1	Y RADIAL	3601.9	3601.9	123.4 %		22:08:59
1	Al 396.153Radial†	22761.3	21619.5	30253 ug/L	30253 ppb	22:08:59
1	Ca 317.933Radial†	8595.1	8123.7	26963 ug/L	26963 ppb	22:08:59
1	Fe 238.204 Radial†	2685.8	2536.0	64760 ug/L	64760 ppb	22:09:19
1	K 766.490 Radial†	29529.1	25506.6	6928.4 ug/L	6928.4 ppb	22:08:59
1	Mg 279.077 IEC†	110.8	104.7	8166.4 ug/L	8166.4 ppb	22:09:19
1	Na 589.592 Radial†	-280.8	678.7	412.70 ug/L	412.70 ppb	22:08:59
1	Sr 421.552†	14471.9	13680.4	179.89 ug/L	179.89 ppb	22:08:59
1	Sc 361.383	625965.4	625965.4	104.34 %		22:10:17
1	Y 371.029	604087.3	604087.3	119.64 %		22:10:17
1	Ag 328.068†	-2473.9	-2452.9	1.5701 ug/L	1.5701 ppb	22:10:22
1	As 188.979†	-14.8	3.5	31.293 ug/L	31.293 ppb	22:10:42
1	B 249.677†	814.5	1119.8	32.648 ug/L	32.648 ppb	22:10:22
1	Ba 233.527†	41834.8	40083.9	532.94 ug/L	532.94 ppb	22:10:22
1	Be 313.107†	-3165.7	232.6	4.5695 ug/L	4.5695 ppb	22:10:22
1	Cd 226.502†	280.0	430.0	1.9406 ug/L	1.9406 ppb	22:10:42
1	Co 228.616†	553.1	559.1	16.273 ug/L	16.273 ppb	22:10:42
1	Cr 267.716†	3432.1	3211.5	72.746 ug/L	72.746 ppb	22:10:42
1	Cu 324.752†	15388.4	9582.6	46.940 ug/L	46.940 ppb	22:10:22
1	Mn 257.610†	2657435.3	2546576.9	4669.8 ug/L	4669.8 ppb	22:10:17
1	Mo 202.031†	1.0	-10.4	3.7206 ug/L	3.7206 ppb	22:10:42
1	Ni 231.604†	1144.8	1019.5	46.122 ug/L	46.122 ppb	22:10:42
1	P 214.914†	1638.9	1408.7	1444.9 ug/L	1444.9 ppb	22:10:42
1	Pb 220.353†	443.4	469.1	104.62 ug/L	104.62 ppb	22:10:42
1	S 181.975 Axial†	556.3	510.4	1305.4 ug/L	1305.4 ppb	22:10:42
1	Sb 206.836†	49.9	22.4	6.5685 ug/L	6.5685 ppb	22:10:42
1	Se 196.026†	-227.1	-203.1	10.055 ug/L	10.055 ppb	22:10:42
1	Si 251.611†	152770.1	146058.4	7814.5 ug/L	7814.5 ppb	22:10:22
1	Sn 189.927†	-123.9	-125.6	-34.111 ug/L	-34.111 ppb	22:10:42
1	Ti 334.940†	861975.0	827176.7	1955.6 ug/L	1955.6 ppb	22:10:17
1	Tl 190.801†	-117.3	-85.4	-10.058 ug/L	-10.058 ppb	22:10:42
1	U 409.014†	-5770.6	-4252.7	-184.72 ug/L	-184.72 ppb	22:10:22
1	V 292.402†	6822.0	7785.9	74.336 ug/L	74.336 ppb	22:10:22
1	Zn 213.857†	21435.6	20037.1	333.65 ug/L	333.65 ppb	22:10:22
1	SiO2†	149113.8	142560.5	15883 ug/L	15883 ppb	22:11:49
2	Sc Radial	2754.0	2754.0	105 %		22:09:45
2	Y RADIAL	3631.4	3631.4	124.5 %		22:09:25
2	Al 396.153Radial†	23049.2	22019.8	30813 ug/L	30813 ppb	22:09:25
2	Ca 317.933Radial†	8725.1	8295.0	27531 ug/L	27531 ppb	22:09:25
2	Fe 238.204 Radial†	2674.9	2540.4	64874 ug/L	64874 ppb	22:09:45
2	K 766.490 Radial†	29928.8	26050.8	7076.2 ug/L	7076.2 ppb	22:09:25
2	Mg 279.077 IEC†	111.4	105.9	8265.8 ug/L	8265.8 ppb	22:09:45
2	Na 589.592 Radial†	-257.0	699.9	425.57 ug/L	425.57 ppb	22:09:25
2	Sr 421.552†	14626.1	13907.4	182.87 ug/L	182.87 ppb	22:09:25
2	Sc 361.383	635678.3	635678.3	105.96 %		22:10:48
2	Y 371.029	612754.9	612754.9	121.36 %		22:10:48
2	Ag 328.068†	-2392.6	-2339.9	2.3683 ug/L	2.3683 ppb	22:10:53
2	As 188.979†	-9.9	8.4	35.161 ug/L	35.161 ppb	22:11:13
2	B 249.677†	813.5	1106.9	32.132 ug/L	32.132 ppb	22:10:53
2	Ba 233.527†	42078.8	39701.6	527.89 ug/L	527.89 ppb	22:10:53
2	Be 313.107†	-3117.2	324.8	4.6257 ug/L	4.6257 ppb	22:10:53
2	Cd 226.502†	262.0	409.0	1.4795 ug/L	1.4795 ppb	22:11:13
2	Co 228.616†	546.2	544.6	15.716 ug/L	15.716 ppb	22:11:13
2	Cr 267.716†	3459.7	3187.3	72.301 ug/L	72.301 ppb	22:11:13
2	Cu 324.752†	15539.6	9500.0	46.585 ug/L	46.585 ppb	22:10:53
2	Mn 257.610†	2702550.7	2550239.5	4676.6 ug/L	4676.6 ppb	22:10:48
2	Mo 202.031†	-7.2	-18.2	2.7218 ug/L	2.7218 ppb	22:11:13
2	Ni 231.604†	1136.6	995.0	45.002 ug/L	45.002 ppb	22:11:13

2	P 214.914†	1636.7	1382.6	1417.1 ug/L	1417.1 ppb	22:11:13
2	Pb 220.353†	451.2	469.9	104.93 ug/L	104.93 ppb	22:11:13
2	S 181.975 Axial†	557.7	503.6	1287.7 ug/L	1287.7 ppb	22:11:13
2	Sb 206.836†	33.8	6.4	-2.8158 ug/L	-2.8158 ppb	22:11:13
2	Se 196.026†	-224.3	-197.0	17.789 ug/L	17.789 ppb	22:11:13
2	Si 251.611†	153745.0	144741.4	7744.0 ug/L	7744.0 ppb	22:10:53
2	Sn 189.927†	-112.0	-112.6	-29.683 ug/L	-29.683 ppb	22:11:13
2	Ti 334.940†	875847.8	827646.6	1956.7 ug/L	1956.7 ppb	22:10:48
2	Tl 190.801†	-106.9	-73.8	-3.6481 ug/L	-3.6481 ppb	22:11:13
2	U 409.014†	-5892.0	-4282.8	-185.96 ug/L	-185.96 ppb	22:10:53
2	V 292.402†	6792.0	7657.7	72.903 ug/L	72.903 ppb	22:10:53
2	Zn 213.857†	21558.0	19838.6	330.22 ug/L	330.22 ppb	22:10:53
2	SiO2†	151843.1	142952.6	15927 ug/L	15927 ppb	22:11:55
3	Sc Radial	2762.0	2762.0	105 %		22:10:10
3	Y RADIAL	3678.2	3678.2	126.1 %		22:09:50
3	Al 396.153Radial†	23259.9	22156.3	31004 ug/L	31004 ppb	22:09:50
3	Ca 317.933Radial†	8767.5	8311.3	27585 ug/L	27585 ppb	22:09:50
3	Fe 238.204 Radial†	2674.9	2533.1	64686 ug/L	64686 ppb	22:10:10
3	K 766.490 Radial†	30148.9	26177.2	7110.6 ug/L	7110.6 ppb	22:09:50
3	Mg 279.077 IEC†	111.1	105.3	8214.0 ug/L	8214.0 ppb	22:10:10
3	Na 589.592 Radial†	-307.1	653.0	397.08 ug/L	397.08 ppb	22:09:50
3	Sr 421.552†	14700.8	13938.0	183.27 ug/L	183.27 ppb	22:09:50
3	Sc 361.383	633074.6	633074.6	105.52 %		22:11:19
3	Y 371.029	610163.1	610163.1	120.84 %		22:11:19
3	Ag 328.068†	-2433.5	-2388.0	1.9771 ug/L	1.9771 ppb	22:11:24
3	As 188.979†	-18.4	0.3	28.787 ug/L	28.787 ppb	22:11:44
3	B 249.677†	800.2	1097.5	31.800 ug/L	31.800 ppb	22:11:24
3	Ba 233.527†	42025.8	39814.7	529.38 ug/L	529.38 ppb	22:11:24
3	Be 313.107†	-3074.3	353.4	4.6464 ug/L	4.6464 ppb	22:11:24
3	Cd 226.502†	279.5	426.6	1.8763 ug/L	1.8763 ppb	22:11:44
3	Co 228.616†	551.4	551.5	15.984 ug/L	15.984 ppb	22:11:44
3	Cr 267.716†	3400.5	3144.5	71.448 ug/L	71.448 ppb	22:11:44
3	Cu 324.752†	15432.4	9458.7	46.383 ug/L	46.383 ppb	22:11:24
3	Mn 257.610†	2696635.2	2555123.7	4685.5 ug/L	4685.5 ppb	22:11:19
3	Mo 202.031†	10.3	-1.6	4.8826 ug/L	4.8826 ppb	22:11:44
3	Ni 231.604†	1154.7	1016.6	45.988 ug/L	45.988 ppb	22:11:44
3	P 214.914†	1630.4	1383.0	1417.8 ug/L	1417.8 ppb	22:11:44
3	Pb 220.353†	446.4	467.2	104.39 ug/L	104.39 ppb	22:11:44
3	S 181.975 Axial†	552.0	500.5	1279.5 ug/L	1279.5 ppb	22:11:44
3	Sb 206.836†	35.7	8.3	-1.6838 ug/L	-1.6838 ppb	22:11:44
3	Se 196.026†	-222.2	-195.9	18.406 ug/L	18.406 ppb	22:11:44
3	Si 251.611†	153116.1	144742.1	7744.0 ug/L	7744.0 ppb	22:11:24
3	Sn 189.927†	-117.1	-117.8	-31.397 ug/L	-31.397 ppb	22:11:44
3	Ti 334.940†	873037.2	828382.7	1958.5 ug/L	1958.5 ppb	22:11:19
3	Tl 190.801†	-104.3	-71.8	-2.5064 ug/L	-2.5064 ppb	22:11:44
3	U 409.014†	-5634.8	-4061.9	-176.98 ug/L	-176.98 ppb	22:11:24
3	V 292.402†	6797.5	7689.3	73.319 ug/L	73.319 ppb	22:11:24
3	Zn 213.857†	21509.2	19876.1	330.89 ug/L	330.89 ppb	22:11:24
3	SiO2†	149787.1	141593.6	15776 ug/L	15776 ppb	22:12:00

Mean Data: 248511016|973758|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	631572.8	105.27 %	0.838			0.80%
Sc Radial	2762.0	105 %	0.3			0.29%
Y 371.029	609001.8	120.61 %	0.881			0.73%
Y RADIAL	3637.1	124.7 %	1.32			1.06%
Ag 328.068†	-2393.6	1.9719 ug/L	0.39910	1.9719 ppb	0.39910	20.24%
Al 396.153Radial†	21931.9	30690 ug/L	390.3	30690 ppb	390.3	1.27%
As 188.979†	4.0	31.747 ug/L	3.2112	31.747 ppb	3.2112	10.11%
B 249.677†	1108.1	32.193 ug/L	0.4276	32.193 ppb	0.4276	1.33%
Ba 233.527†	39866.7	530.07 ug/L	2.598	530.07 ppb	2.598	0.49%
Be 313.107†	303.6	4.6139 ug/L	0.03981	4.6139 ppb	0.03981	0.86%
Ca 317.933Radial†	8243.3	27360 ug/L	345.0	27360 ppb	345.0	1.26%
Cd 226.502†	421.8	1.7655 ug/L	0.24976	1.7655 ppb	0.24976	14.15%
Co 228.616†	551.7	15.991 ug/L	0.2783	15.991 ppb	0.2783	1.74%
Cr 267.716†	3181.1	72.165 ug/L	0.6595	72.165 ppb	0.6595	0.91%
Cu 324.752†	9513.8	46.636 ug/L	0.2816	46.636 ppb	0.2816	0.60%
Fe 238.204 Radial†	2536.5	64774 ug/L	94.9	64774 ppb	94.9	0.15%
K 766.490 Radial†	25911.5	7038.4 ug/L	96.82	7038.4 ppb	96.82	1.38%

Mg 279.077 IEC†	105.3	8215.4 ug/L	49.70	8215.4 ppb	49.70	0.60%
Mn 257.610†	2550646.7	4677.3 ug/L	7.84	4677.3 ppb	7.84	0.17%
Mo 202.031†	-10.0	3.7750 ug/L	1.08144	3.7750 ppb	1.08144	28.65%
Na 589.592 Radial†	677.2	411.78 ug/L	14.266	411.78 ppb	14.266	3.46%
Ni 231.604†	1010.3	45.704 ug/L	0.6117	45.704 ppb	0.6117	1.34%
P 214.914†	1391.4	1426.6 ug/L	15.84	1426.6 ppb	15.84	1.11%
Pb 220.353†	468.8	104.64 ug/L	0.270	104.64 ppb	0.270	0.26%
S 181.975 Axial†	504.8	1290.9 ug/L	13.21	1290.9 ppb	13.21	1.02%
Sb 206.836†	12.4	0.6896 ug/L	5.12265	0.6896 ppb	5.12265	742.81%
Se 196.026†	-198.6	15.417 ug/L	4.6536	15.417 ppb	4.6536	30.18%
Si 251.611†	145180.6	7767.5 ug/L	40.67	7767.5 ppb	40.67	0.52%
Sn 189.927†	-118.6	-31.730 ug/L	2.2329	-31.730 ppb	2.2329	7.04%
Sr 421.552†	13841.9	182.01 ug/L	1.850	182.01 ppb	1.850	1.02%
Ti 334.940†	827735.3	1956.9 ug/L	1.47	1956.9 ppb	1.47	0.07%
Tl 190.801†	-77.0	-5.4041 ug/L	4.07041	-5.4041 ppb	4.07041	75.32%
U 409.014†	-4199.1	-182.55 ug/L	4.864	-182.55 ppb	4.864	2.66%
V 292.402†	7710.9	73.519 ug/L	0.7372	73.519 ppb	0.7372	1.00%
Zn 213.857†	19917.3	331.59 ug/L	1.816	331.59 ppb	1.816	0.55%
SiO2†	142368.9	15862 ug/L	78.0	15862 ppb	78.0	0.49%

Sequence No.: 29

Sample ID: 248511017|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 4/12/2010 22:14:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511017|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2767.4	2767.4	106 %		22:16:24
1	Y RADIAL	3570.8	3570.8	122.4 %		22:16:24
1	Al 396.153Radial†	21030.9	20001.0	27988 ug/L	27988 ppb	22:16:04
1	Ca 317.933Radial†	3911.8	3694.6	12262 ug/L	12262 ppb	22:16:04
1	Fe 238.204 Radial†	3130.5	2959.7	75580 ug/L	75580 ppb	22:16:24
1	K 766.490 Radial†	21801.6	18212.6	4949.4 ug/L	4949.4 ppb	22:16:04
1	Mg 279.077 IEC†	79.9	75.5	5861.0 ug/L	5861.0 ppb	22:16:24
1	Na 589.592 Radial†	-97.2	852.4	518.32 ug/L	518.32 ppb	22:16:04
1	Sr 421.552†	7687.2	7265.8	95.555 ug/L	95.555 ppb	22:16:04
1	Sc 361.383	669347.0	669347.0	111.57 %		22:17:21
1	Y 371.029	647387.2	647387.2	128.22 %		22:17:21
1	Ag 328.068†	-3182.7	-2934.5	1.5573 ug/L	1.5573 ppb	22:17:21
1	As 188.979†	-18.7	0.9	31.004 ug/L	31.004 ppb	22:17:41
1	B 249.677†	379.1	678.9	13.881 ug/L	13.881 ppb	22:17:21
1	Ba 233.527†	20283.0	18168.5	243.55 ug/L	243.55 ppb	22:17:21
1	Be 313.107†	-3567.6	69.1	4.3350 ug/L	4.3350 ppb	22:17:21
1	Cd 226.502†	286.7	418.7	0.4977 ug/L	0.4977 ppb	22:17:41
1	Co 228.616†	499.7	476.9	13.011 ug/L	13.011 ppb	22:17:41
1	Cr 267.716†	3942.4	3455.7	79.284 ug/L	79.284 ppb	22:17:41
1	Cu 324.752†	10129.7	3913.3	22.723 ug/L	22.723 ppb	22:17:21
1	Mn 257.610†	1273749.2	1141310.7	2098.4 ug/L	2098.4 ppb	22:17:21
1	Mo 202.031†	24.5	10.6	6.9186 ug/L	6.9186 ppb	22:17:41
1	Ni 231.604†	1057.8	870.3	39.255 ug/L	39.255 ppb	22:17:41
1	P 214.914†	1065.5	793.0	779.83 ug/L	779.83 ppb	22:17:41
1	Pb 220.353†	269.8	286.0	61.080 ug/L	61.080 ppb	22:17:41
1	S 181.975 Axial†	287.6	235.1	597.88 ug/L	597.88 ppb	22:17:41
1	Sb 206.836†	32.9	4.0	-3.3274 ug/L	-3.3274 ppb	22:17:41
1	Se 196.026†	-252.4	-211.5	42.200 ug/L	42.200 ppb	22:17:41
1	Si 251.611†	119397.7	106657.2	5706.4 ug/L	5706.4 ppb	22:17:21
1	Sn 189.927†	-53.7	-55.0	-14.242 ug/L	-14.242 ppb	22:17:41
1	Ti 334.940†	892765.4	801231.2	1892.7 ug/L	1892.7 ppb	22:17:21
1	Tl 190.801†	-86.2	-50.2	-3.4860 ug/L	-3.4860 ppb	22:17:41
1	U 409.014†	-5609.3	-3749.7	-166.46 ug/L	-166.46 ppb	22:17:21
1	V 292.402†	8601.6	8957.1	85.817 ug/L	85.817 ppb	22:17:21
1	Zn 213.857†	22175.5	19368.7	320.44 ug/L	320.44 ppb	22:17:21
1	SiO2†	122093.7	109080.0	12153 ug/L	12153 ppb	22:18:38
2	Sc Radial	2750.7	2750.7	105 %		22:16:49
2	Y RADIAL	3569.5	3569.5	122.3 %		22:16:49
2	Al 396.153Radial†	21220.3	20302.8	28410 ug/L	28410 ppb	22:16:29
2	Ca 317.933Radial†	3933.1	3737.4	12405 ug/L	12405 ppb	22:16:29
2	Fe 238.204 Radial†	3221.3	3064.3	78251 ug/L	78251 ppb	22:16:49
2	K 766.490 Radial†	21988.5	18516.4	5031.9 ug/L	5031.9 ppb	22:16:29
2	Mg 279.077 IEC†	81.3	77.4	6002.7 ug/L	6002.7 ppb	22:16:49
2	Na 589.592 Radial†	-72.7	875.2	532.16 ug/L	532.16 ppb	22:16:29
2	Sr 421.552†	7813.2	7430.2	97.718 ug/L	97.718 ppb	22:16:29
2	Sc 361.383	634217.4	634217.4	105.71 %		22:17:47
2	Y 371.029	621061.2	621061.2	123.00 %		22:17:47
2	Ag 328.068†	-3298.7	-3202.3	0.5183 ug/L	0.5183 ppb	22:17:47
2	As 188.979†	-15.7	2.9	34.453 ug/L	34.453 ppb	22:18:07
2	B 249.677†	315.4	637.5	11.845 ug/L	11.845 ppb	22:17:47
2	Ba 233.527†	21002.1	19855.7	266.00 ug/L	266.00 ppb	22:17:47
2	Be 313.107†	-3492.5	-37.0	4.6702 ug/L	4.6702 ppb	22:17:47
2	Cd 226.502†	272.0	419.0	0.2046 ug/L	0.2046 ppb	22:18:07
2	Co 228.616†	493.4	495.7	13.326 ug/L	13.326 ppb	22:18:07
2	Cr 267.716†	4009.4	3714.8	84.720 ug/L	84.720 ppb	22:18:07
2	Cu 324.752†	10322.9	4599.1	25.948 ug/L	25.948 ppb	22:17:47
2	Mn 257.610†	1315699.9	1244230.9	2287.1 ug/L	2287.1 ppb	22:17:47
2	Mo 202.031†	28.3	15.4	7.7403 ug/L	7.7403 ppb	22:18:07
2	Ni 231.604†	1059.4	924.4	41.707 ug/L	41.707 ppb	22:18:07

2	P 214.914†	1070.1	850.2	838.03 ug/L	838.03 ppb	22:18:07
2	Pb 220.353†	280.4	309.4	66.107 ug/L	66.107 ppb	22:18:07
2	S 181.975 Axial†	284.0	245.9	625.74 ug/L	625.74 ppb	22:18:07
2	Sb 206.836†	39.1	11.5	0.6495 ug/L	0.6495 ppb	22:18:07
2	Se 196.026†	-255.6	-227.1	33.912 ug/L	33.912 ppb	22:18:07
2	Si 251.611†	123221.9	116202.4	6217.1 ug/L	6217.1 ppb	22:17:47
2	Sn 189.927†	-43.0	-47.5	-11.716 ug/L	-11.716 ppb	22:18:07
2	Ti 334.940†	924235.3	875322.5	2067.7 ug/L	2067.7 ppb	22:17:47
2	Tl 190.801†	-105.1	-72.3	-13.440 ug/L	-13.440 ppb	22:18:07
2	U 409.014†	-5934.2	-4335.6	-190.70 ug/L	-190.70 ppb	22:17:47
2	V 292.402†	8893.0	9659.8	92.929 ug/L	92.929 ppb	22:17:47
2	Zn 213.857†	22928.0	21181.5	351.16 ug/L	351.16 ppb	22:17:47
2	SiO2†	122170.0	115213.7	12837 ug/L	12837 ppb	22:18:43
3	Sc Radial	2737.5	2737.5	104 %		22:17:14
3	Y RADIAL	3563.2	3563.2	122.1 %		22:17:14
3	Al 396.153Radial†	21120.4	20304.4	28413 ug/L	28413 ppb	22:16:54
3	Ca 317.933Radial†	3942.5	3764.5	12494 ug/L	12494 ppb	22:16:54
3	Fe 238.204 Radial†	3218.4	3076.3	78558 ug/L	78558 ppb	22:17:14
3	K 766.490 Radial†	21909.0	18541.1	5038.6 ug/L	5038.6 ppb	22:16:54
3	Mg 279.077 IEC†	79.8	76.3	5916.5 ug/L	5916.5 ppb	22:17:14
3	Na 589.592 Radial†	-94.7	853.8	519.14 ug/L	519.14 ppb	22:16:54
3	Sr 421.552†	7752.3	7407.7	97.421 ug/L	97.421 ppb	22:16:54
3	Sc 361.383	629180.0	629180.0	104.87 %		22:18:13
3	Y 371.029	616088.3	616088.3	122.02 %		22:18:13
3	Ag 328.068†	-3220.0	-3152.1	0.9421 ug/L	0.9421 ppb	22:18:13
3	As 188.979†	-19.5	-0.9	31.554 ug/L	31.554 ppb	22:18:33
3	B 249.677†	283.8	609.8	10.726 ug/L	10.726 ppb	22:18:13
3	Ba 233.527†	20812.4	19833.8	265.72 ug/L	265.72 ppb	22:18:13
3	Be 313.107†	-3491.5	-62.6	4.6472 ug/L	4.6472 ppb	22:18:13
3	Cd 226.502†	264.7	414.0	0.0693 ug/L	0.0693 ppb	22:18:33
3	Co 228.616†	482.9	489.4	13.087 ug/L	13.087 ppb	22:18:33
3	Cr 267.716†	4008.7	3744.4	85.336 ug/L	85.336 ppb	22:18:33
3	Cu 324.752†	10230.4	4589.0	25.920 ug/L	25.920 ppb	22:18:13
3	Mn 257.610†	1304529.1	1243543.8	2285.9 ug/L	2285.9 ppb	22:18:13
3	Mo 202.031†	10.7	-1.2	5.5938 ug/L	5.5938 ppb	22:18:33
3	Ni 231.604†	1077.9	950.1	42.876 ug/L	42.876 ppb	22:18:33
3	P 214.914†	1064.5	853.0	840.67 ug/L	840.67 ppb	22:18:33
3	Pb 220.353†	272.9	304.3	64.921 ug/L	64.921 ppb	22:18:33
3	S 181.975 Axial†	282.6	246.8	627.88 ug/L	627.88 ppb	22:18:33
3	Sb 206.836†	32.0	5.1	-3.2243 ug/L	-3.2243 ppb	22:18:33
3	Se 196.026†	-254.9	-228.4	33.536 ug/L	33.536 ppb	22:18:33
3	Si 251.611†	122255.6	116214.2	6217.7 ug/L	6217.7 ppb	22:18:13
3	Sn 189.927†	-53.9	-58.3	-15.246 ug/L	-15.246 ppb	22:18:33
3	Ti 334.940†	915295.7	873798.2	2064.1 ug/L	2064.1 ppb	22:18:13
3	Tl 190.801†	-76.7	-46.0	1.0015 ug/L	1.0015 ppb	22:18:33
3	U 409.014†	-5545.8	-4010.1	-177.59 ug/L	-177.59 ppb	22:18:13
3	V 292.402†	8904.0	9737.7	93.737 ug/L	93.737 ppb	22:18:13
3	Zn 213.857†	22714.6	21151.7	350.59 ug/L	350.59 ppb	22:18:13
3	SiO2†	122555.7	116506.7	12981 ug/L	12981 ppb	22:18:49

Mean Data: 248511017|973758|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Units	Units		Conc. Units		
Sc 361.383	644248.1	107.39 %	%	3.647			3.40%
Sc Radial	2751.9	105 %	%	0.6			0.54%
Y 371.029	628178.9	124.41 %	%	3.331			2.68%
Y RADIAL	3567.8	122.3 %	%	0.14			0.11%
Ag 328.068†	-3096.3	1.0059 ug/L	ug/L	0.52245	1.0059 ppb	0.52245	51.94%
Al 396.153Radial†	20202.7	28270 ug/L	ug/L	244.4	28270 ppb	244.4	0.86%
As 188.979†	1.0	32.337 ug/L	ug/L	1.8529	32.337 ppb	1.8529	5.73%
B 249.677†	642.0	12.151 ug/L	ug/L	1.5992	12.151 ppb	1.5992	13.16%
Ba 233.527†	19286.0	258.42 ug/L	ug/L	12.878	258.42 ppb	12.878	4.98%
Be 313.107†	-10.2	4.5508 ug/L	ug/L	0.18725	4.5508 ppb	0.18725	4.11%
Ca 317.933Radial†	3732.2	12387 ug/L	ug/L	116.9	12387 ppb	116.9	0.94%
Cd 226.502†	417.2	0.2572 ug/L	ug/L	0.21901	0.2572 ppb	0.21901	85.15%
Co 228.616†	487.4	13.142 ug/L	ug/L	0.1645	13.142 ppb	0.1645	1.25%
Cr 267.716†	3638.3	83.114 ug/L	ug/L	3.3306	83.114 ppb	3.3306	4.01%
Cu 324.752†	4367.2	24.864 ug/L	ug/L	1.8536	24.864 ppb	1.8536	7.46%
Fe 238.204 Radial†	3033.4	77463 ug/L	ug/L	1638.0	77463 ppb	1638.0	2.11%
K 766.490 Radial†	18423.4	5006.6 ug/L	ug/L	49.68	5006.6 ppb	49.68	0.99%

Mg 279.077 IEC†	76.4	5926.7 ug/L	71.43	5926.7 ppb	71.43	1.21%
Mn 257.610†	1209695.1	2223.8 ug/L	108.62	2223.8 ppb	108.62	4.88%
Mo 202.031†	8.3	6.7509 ug/L	1.08304	6.7509 ppb	1.08304	16.04%
Na 589.592 Radial†	860.5	523.21 ug/L	7.765	523.21 ppb	7.765	1.48%
Ni 231.604†	915.0	41.279 ug/L	1.8482	41.279 ppb	1.8482	4.48%
P 214.914†	832.0	819.51 ug/L	34.392	819.51 ppb	34.392	4.20%
Pb 220.353†	299.9	64.036 ug/L	2.6278	64.036 ppb	2.6278	4.10%
S 181.975 Axial†	242.6	617.17 ug/L	16.736	617.17 ppb	16.736	2.71%
Sb 206.836†	6.9	-1.9674 ug/L	2.26687	-1.9674 ppb	2.26687	115.22%
Se 196.026†	-222.4	36.549 ug/L	4.8975	36.549 ppb	4.8975	13.40%
Si 251.611†	113024.6	6047.1 ug/L	295.03	6047.1 ppb	295.03	4.88%
Sn 189.927†	-53.6	-13.735 ug/L	1.8184	-13.735 ppb	1.8184	13.24%
Sr 421.552†	7367.9	96.898 ug/L	1.1724	96.898 ppb	1.1724	1.21%
Ti 334.940†	850117.3	2008.2 ug/L	99.98	2008.2 ppb	99.98	4.98%
Tl 190.801†	-56.2	-5.3082 ug/L	7.39119	-5.3082 ppb	7.39119	139.24%
U 409.014†	-4031.8	-178.25 ug/L	12.130	-178.25 ppb	12.130	6.80%
V 292.402†	9451.6	90.828 ug/L	4.3579	90.828 ppb	4.3579	4.80%
Zn 213.857†	20567.3	340.73 ug/L	17.577	340.73 ppb	17.577	5.16%
SiO2†	113600.1	12657 ug/L	442.1	12657 ppb	442.1	3.49%

Sequence No.: 30

Sample ID: 248511018|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 4/12/2010 22:21:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511018|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2746.3	2746.3	105 %		22:23:13
1	Y RADIAL	3751.2	3751.2	128.6 %		22:22:53
1	Al 396.153Radial†	41531.5	39725.5	55589 ug/L	55589 ppb	22:22:53
1	Ca 317.933Radial†	7650.0	7291.8	24202 ug/L	24202 ppb	22:22:53
1	Fe 238.204 Radial†	3440.5	3278.5	83721 ug/L	83721 ppb	22:23:13
1	K 766.490 Radial†	31614.7	27739.6	7537.7 ug/L	7537.7 ppb	22:22:53
1	Mg 279.077 IEC†	156.4	149.2	11646 ug/L	11646 ppb	22:23:13
1	Na 589.592 Radial†	-248.2	707.6	430.23 ug/L	430.23 ppb	22:22:53
1	Sr 421.552†	12773.8	12177.8	160.13 ug/L	160.13 ppb	22:22:53
1	Sc 361.383	639317.9	639317.9	106.56 %		22:24:11
1	Y 371.029	642631.2	642631.2	127.27 %		22:24:11
1	Ag 328.068†	-3673.8	-3529.3	-0.2842 ug/L	-0.2842 ppb	22:24:11
1	As 188.979†	0.3	18.0	43.813 ug/L	43.813 ppb	22:24:31
1	B 249.677†	748.1	1041.2	26.540 ug/L	26.540 ppb	22:24:11
1	Ba 233.527†	24215.1	22712.3	304.03 ug/L	304.03 ppb	22:24:11
1	Be 313.107†	8263.9	11021.6	10.081 ug/L	10.081 ppb	22:24:11
1	Cd 226.502†	307.5	450.2	0.2732 ug/L	0.2732 ppb	22:24:31
1	Co 228.616†	507.4	505.2	14.565 ug/L	14.565 ppb	22:24:31
1	Cr 267.716†	4689.2	4322.5	97.309 ug/L	97.309 ppb	22:24:31
1	Cu 324.752†	14815.1	8736.6	44.577 ug/L	44.577 ppb	22:24:11
1	Mn 257.610†	848890.8	796248.9	1467.4 ug/L	1467.4 ppb	22:24:11
1	Mo 202.031†	-10.5	-21.2	3.5827 ug/L	3.5827 ppb	22:24:31
1	Ni 231.604†	1634.4	1456.0	65.927 ug/L	65.927 ppb	22:24:31
1	P 214.914†	916.3	697.7	671.59 ug/L	671.59 ppb	22:24:31
1	Pb 220.353†	299.8	325.5	75.488 ug/L	75.488 ppb	22:24:31
1	S 181.975 Axial†	285.5	245.2	617.62 ug/L	617.62 ppb	22:24:31
1	Sb 206.836†	29.8	2.6	-4.3747 ug/L	-4.3747 ppb	22:24:31
1	Se 196.026†	-281.5	-249.5	28.987 ug/L	28.987 ppb	22:24:31
1	Si 251.611†	162506.4	152137.0	8139.7 ug/L	8139.7 ppb	22:24:11
1	Sn 189.927†	-99.5	-100.2	-26.190 ug/L	-26.190 ppb	22:24:31
1	Ti 334.940†	724987.7	681374.0	1610.7 ug/L	1610.7 ppb	22:24:11
1	Tl 190.801†	-70.9	-39.4	-2.7726 ug/L	-2.7726 ppb	22:24:31
1	U 409.014†	-6332.9	-4664.8	-205.10 ug/L	-205.10 ppb	22:24:11
1	V 292.402†	10234.6	10851.7	105.74 ug/L	105.74 ppb	22:24:11
1	Zn 213.857†	20521.8	18750.5	308.25 ug/L	308.25 ppb	22:24:11
1	SiO2†	161016.7	150745.3	16795 ug/L	16795 ppb	22:25:28
2	Sc Radial	2742.1	2742.1	105 %		22:23:38
2	Y RADIAL	3763.7	3763.7	129.0 %		22:23:18
2	Al 396.153Radial†	41823.1	40066.0	56066 ug/L	56066 ppb	22:23:18
2	Ca 317.933Radial†	7711.0	7361.4	24433 ug/L	24433 ppb	22:23:18
2	Fe 238.204 Radial†	3427.6	3271.2	83536 ug/L	83536 ppb	22:23:38
2	K 766.490 Radial†	32015.5	28169.8	7654.7 ug/L	7654.7 ppb	22:23:18
2	Mg 279.077 IEC†	155.1	148.1	11562 ug/L	11562 ppb	22:23:38
2	Na 589.592 Radial†	-204.9	748.6	455.16 ug/L	455.16 ppb	22:23:18
2	Sr 421.552†	12862.0	12281.1	161.48 ug/L	161.48 ppb	22:23:18
2	Sc 361.383	639412.6	639412.6	106.58 %		22:24:37
2	Y 371.029	642430.4	642430.4	127.23 %		22:24:37
2	Ag 328.068†	-3543.0	-3406.1	0.5047 ug/L	0.5047 ppb	22:24:37
2	As 188.979†	7.8	25.0	49.309 ug/L	49.309 ppb	22:24:57
2	B 249.677†	769.8	1061.5	27.353 ug/L	27.353 ppb	22:24:37
2	Ba 233.527†	24203.7	22698.2	303.83 ug/L	303.83 ppb	22:24:37
2	Be 313.107†	8272.6	11028.5	10.086 ug/L	10.086 ppb	22:24:37
2	Cd 226.502†	317.8	459.8	0.4982 ug/L	0.4982 ppb	22:24:57
2	Co 228.616†	506.7	504.5	14.541 ug/L	14.541 ppb	22:24:57
2	Cr 267.716†	4719.5	4350.2	97.806 ug/L	97.806 ppb	22:24:57
2	Cu 324.752†	14977.2	8886.7	45.223 ug/L	45.223 ppb	22:24:37
2	Mn 257.610†	849600.3	796796.6	1468.4 ug/L	1468.4 ppb	22:24:37
2	Mo 202.031†	-5.3	-16.3	4.2039 ug/L	4.2039 ppb	22:24:57
2	Ni 231.604†	1620.0	1442.2	65.298 ug/L	65.298 ppb	22:24:57

2	P 214.914†	919.8	700.9	675.14 ug/L	675.14 ppb	22:24:57
2	Pb 220.353†	311.7	336.6	78.131 ug/L	78.131 ppb	22:24:57
2	S 181.975 Axial†	279.1	239.1	601.85 ug/L	601.85 ppb	22:24:57
2	Sb 206.836†	34.3	6.8	-1.9007 ug/L	-1.9007 ppb	22:24:57
2	Se 196.026†	-284.2	-252.0	25.219 ug/L	25.219 ppb	22:24:57
2	Si 251.611†	163842.3	153367.8	8205.6 ug/L	8205.6 ppb	22:24:37
2	Sn 189.927†	-100.1	-100.8	-26.313 ug/L	-26.313 ppb	22:24:57
2	Ti 334.940†	725164.1	681438.8	1610.9 ug/L	1610.9 ppb	22:24:37
2	Tl 190.801†	-64.5	-33.4	0.5389 ug/L	0.5389 ppb	22:24:57
2	U 409.014†	-6254.9	-4590.8	-202.07 ug/L	-202.07 ppb	22:24:37
2	V 292.402†	10184.6	10803.4	105.25 ug/L	105.25 ppb	22:24:37
2	Zn 213.857†	20517.2	18743.3	308.16 ug/L	308.16 ppb	22:24:37
2	SiO2†	161762.1	151422.3	16871 ug/L	16871 ppb	22:25:33
3	Sc Radial	2743.7	2743.7	105 %		22:24:03
3	Y RADIAL	3851.3	3851.3	132.0 %		22:23:43
3	Al 396.153Radial†	42542.4	40729.3	56994 ug/L	56994 ppb	22:23:43
3	Ca 317.933Radial†	7841.1	7481.4	24831 ug/L	24831 ppb	22:23:43
3	Fe 238.204 Radial†	3430.2	3271.7	83548 ug/L	83548 ppb	22:24:03
3	K 766.490 Radial†	32166.9	28296.0	7688.9 ug/L	7688.9 ppb	22:23:43
3	Mg 279.077 IEC†	156.5	149.4	11661 ug/L	11661 ppb	22:24:03
3	Na 589.592 Radial†	-167.7	784.3	476.88 ug/L	476.88 ppb	22:23:43
3	Sr 421.552†	13131.3	12531.1	164.77 ug/L	164.77 ppb	22:23:43
3	Sc 361.383	633166.7	633166.7	105.54 %		22:25:02
3	Y 371.029	635614.6	635614.6	125.88 %		22:25:02
3	Ag 328.068†	-3622.6	-3514.3	-0.2360 ug/L	-0.2360 ppb	22:25:02
3	As 188.979†	3.9	21.4	46.511 ug/L	46.511 ppb	22:25:23
3	B 249.677†	676.7	980.4	24.221 ug/L	24.221 ppb	22:25:02
3	Ba 233.527†	24127.2	22849.7	305.84 ug/L	305.84 ppb	22:25:02
3	Be 313.107†	8206.1	11042.0	10.102 ug/L	10.102 ppb	22:25:02
3	Cd 226.502†	283.0	429.8	-0.1403 ug/L	-0.1403 ppb	22:25:23
3	Co 228.616†	500.2	503.0	14.479 ug/L	14.479 ppb	22:25:23
3	Cr 267.716†	4713.2	4387.9	98.534 ug/L	98.534 ppb	22:25:23
3	Cu 324.752†	14757.2	8816.8	44.919 ug/L	44.919 ppb	22:25:02
3	Mn 257.610†	843392.5	798778.1	1472.0 ug/L	1472.0 ppb	22:25:02
3	Mo 202.031†	-6.0	-17.0	4.1238 ug/L	4.1238 ppb	22:25:23
3	Ni 231.604†	1632.3	1468.9	66.514 ug/L	66.514 ppb	22:25:23
3	P 214.914†	930.5	719.6	695.39 ug/L	695.39 ppb	22:25:23
3	Pb 220.353†	334.6	361.1	83.891 ug/L	83.891 ppb	22:25:23
3	S 181.975 Axial†	279.8	242.5	610.17 ug/L	610.17 ppb	22:25:23
3	Sb 206.836†	45.2	17.3	4.2376 ug/L	4.2376 ppb	22:25:23
3	Se 196.026†	-281.7	-252.3	24.969 ug/L	24.969 ppb	22:25:23
3	Si 251.611†	161154.2	152337.2	8150.4 ug/L	8150.4 ppb	22:25:02
3	Sn 189.927†	-107.8	-109.0	-28.944 ug/L	-28.944 ppb	22:25:23
3	Ti 334.940†	719803.4	683071.1	1614.8 ug/L	1614.8 ppb	22:25:02
3	Tl 190.801†	-68.8	-38.1	-2.0117 ug/L	-2.0117 ppb	22:25:23
3	U 409.014†	-6358.9	-4747.2	-208.41 ug/L	-208.41 ppb	22:25:02
3	V 292.402†	10134.6	10850.3	105.74 ug/L	105.74 ppb	22:25:02
3	Zn 213.857†	20305.0	18732.2	307.96 ug/L	307.96 ppb	22:25:02
3	SiO2†	159543.7	150817.6	16803 ug/L	16803 ppb	22:25:38

Mean Data: 248511018|973758|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	637299.0	106.23 %		0.597			0.56%
Sc Radial	2744.1	105 %		0.1			0.08%
Y 371.029	640225.4	126.80 %		0.791			0.62%
Y RADIAL	3788.7	129.8 %		1.87			1.44%
Ag 328.068†	-3483.3	-0.0052 ug/L		0.44220	-0.0052 ppb	0.44220	>999.9%
Al 396.153Radial†	40173.6	56216 ug/L		714.3	56216 ppb	714.3	1.27%
As 188.979†	21.4	46.545 ug/L		2.7481	46.545 ppb	2.7481	5.90%
B 249.677†	1027.7	26.038 ug/L		1.6253	26.038 ppb	1.6253	6.24%
Ba 233.527†	22753.4	304.57 ug/L		1.106	304.57 ppb	1.106	0.36%
Be 313.107†	11030.7	10.090 ug/L		0.0111	10.090 ppb	0.0111	0.11%
Ca 317.933Radial†	7378.2	24488 ug/L		318.2	24488 ppb	318.2	1.30%
Cd 226.502†	446.6	0.2103 ug/L		0.32388	0.2103 ppb	0.32388	153.97%
Co 228.616†	504.2	14.528 ug/L		0.0445	14.528 ppb	0.0445	0.31%
Cr 267.716†	4353.5	97.883 ug/L		0.6157	97.883 ppb	0.6157	0.63%
Cu 324.752†	8813.4	44.906 ug/L		0.3232	44.906 ppb	0.3232	0.72%
Fe 238.204 Radial†	3273.8	83602 ug/L		103.7	83602 ppb	103.7	0.12%
K 766.490 Radial†	28068.5	7627.1 ug/L		79.26	7627.1 ppb	79.26	1.04%

Mg 279.077 IEC†	148.9	11623 ug/L	53.2	11623 ppb	53.2	0.46%
Mn 257.610†	797274.5	1469.2 ug/L	2.43	1469.2 ppb	2.43	0.17%
Mo 202.031†	-18.2	3.9701 ug/L	0.33794	3.9701 ppb	0.33794	8.51%
Na 589.592 Radial†	746.8	454.09 ug/L	23.342	454.09 ppb	23.342	5.14%
Ni 231.604†	1455.7	65.913 ug/L	0.6079	65.913 ppb	0.6079	0.92%
P 214.914†	706.1	680.71 ug/L	12.842	680.71 ppb	12.842	1.89%
Pb 220.353†	341.1	79.170 ug/L	4.2968	79.170 ppb	4.2968	5.43%
S 181.975 Axial†	242.3	609.88 ug/L	7.889	609.88 ppb	7.889	1.29%
Sb 206.836†	8.9	-0.6792 ug/L	4.43418	-0.6792 ppb	4.43418	652.82%
Se 196.026†	-251.3	26.392 ug/L	2.2512	26.392 ppb	2.2512	8.53%
Si 251.611†	152614.0	8165.2 ug/L	35.33	8165.2 ppb	35.33	0.43%
Sn 189.927†	-103.4	-27.149 ug/L	1.5556	-27.149 ppb	1.5556	5.73%
Sr 421.552†	12330.0	162.13 ug/L	2.389	162.13 ppb	2.389	1.47%
Ti 334.940†	681961.3	1612.1 ug/L	2.30	1612.1 ppb	2.30	0.14%
Tl 190.801†	-37.0	-1.4151 ug/L	1.73448	-1.4151 ppb	1.73448	122.57%
U 409.014†	-4667.6	-205.19 ug/L	3.167	-205.19 ppb	3.167	1.54%
V 292.402†	10835.1	105.58 ug/L	0.285	105.58 ppb	0.285	0.27%
Zn 213.857†	18742.0	308.13 ug/L	0.149	308.13 ppb	0.149	0.05%
SiO2†	150995.1	16823 ug/L	41.4	16823 ppb	41.4	0.25%

Sequence No.: 31

Sample ID: 248511019|973758|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 62

Date Collected: 4/12/2010 22:27:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511019|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2739.8	2739.8	104 %		22:30:03
1	Y RADIAL	3816.4	3816.4	130.8 %		22:29:43
1	Al 396.153Radial†	18897.1	18160.2	25412 ug/L	25412 ppb	22:29:43
1	Ca 317.933Radial†	3062.4	2919.2	9688.8 ug/L	9688.8 ppb	22:30:03
1	Fe 238.204 Radial†	3173.2	3030.5	77390 ug/L	77390 ppb	22:30:03
1	K 766.490 Radial†	15108.7	12016.3	3265.0 ug/L	3265.0 ppb	22:29:43
1	Mg 279.077 IEC†	71.9	68.6	5318.5 ug/L	5318.5 ppb	22:30:03
1	Na 589.592 Radial†	156.3	1094.1	665.25 ug/L	665.25 ppb	22:29:43
1	Sr 421.552†	5280.5	5036.2	66.224 ug/L	66.224 ppb	22:29:43
1	Sc 361.383	619713.0	619713.0	103.30 %		22:31:00
1	Y 371.029	629001.9	629001.9	124.58 %		22:31:00
1	Ag 328.068†	-3141.8	-3123.4	0.7231 ug/L	0.7231 ppb	22:31:05
1	As 188.979†	-18.4	-0.1	36.219 ug/L	36.219 ppb	22:31:25
1	B 249.677†	396.4	722.9	15.295 ug/L	15.295 ppb	22:31:05
1	Ba 233.527†	10417.2	10073.6	136.51 ug/L	136.51 ppb	22:31:05
1	Be 313.107†	-10346.9	-6750.0	1.9869 ug/L	1.9869 ppb	22:31:05
1	Cd 226.502†	264.4	417.6	0.2780 ug/L	0.2780 ppb	22:31:25
1	Co 228.616†	359.7	377.2	7.6619 ug/L	7.6619 ppb	22:31:25
1	Cr 267.716†	4839.3	4607.0	101.60 ug/L	101.60 ppb	22:31:05
1	Cu 324.752†	9225.0	3764.7	22.209 ug/L	22.209 ppb	22:31:05
1	Mn 257.610†	739721.7	715764.7	1319.5 ug/L	1319.5 ppb	22:31:00
1	Mo 202.031†	16.1	4.3	6.1671 ug/L	6.1671 ppb	22:31:25
1	Ni 231.604†	1240.3	1123.0	50.774 ug/L	50.774 ppb	22:31:25
1	P 214.914†	592.1	411.1	368.25 ug/L	368.25 ppb	22:31:25
1	Pb 220.353†	190.7	228.7	47.278 ug/L	47.278 ppb	22:31:25
1	S 181.975 Axial†	182.3	153.8	389.62 ug/L	389.62 ppb	22:31:25
1	Sb 206.836†	35.2	8.6	-2.7173 ug/L	-2.7173 ppb	22:31:25
1	Se 196.026†	-252.3	-229.6	27.528 ug/L	27.528 ppb	22:31:25
1	Si 251.611†	122643.5	118370.6	6333.1 ug/L	6333.1 ppb	22:31:05
1	Sn 189.927†	-28.8	-34.7	-8.1526 ug/L	-8.1526 ppb	22:31:25
1	Ti 334.940†	1140581.3	1105226.2	2610.2 ug/L	2610.2 ppb	22:31:00
1	Tl 190.801†	-75.3	-45.9	0.7278 ug/L	0.7278 ppb	22:31:25
1	U 409.014†	-5694.7	-4235.0	-186.50 ug/L	-186.50 ppb	22:31:00
1	V 292.402†	5704.2	6769.7	60.830 ug/L	60.830 ppb	22:31:05
1	Zn 213.857†	25285.1	23971.0	399.24 ug/L	399.24 ppb	22:31:05
1	SiO2†	125826.1	121457.8	13532 ug/L	13532 ppb	22:32:31
2	Sc Radial	2715.1	2715.1	104 %		22:30:28
2	Y RADIAL	3728.0	3728.0	127.8 %		22:30:08
2	Al 396.153Radial†	18553.7	17993.2	25178 ug/L	25178 ppb	22:30:08
2	Ca 317.933Radial†	3038.4	2922.7	9700.4 ug/L	9700.4 ppb	22:30:28
2	Fe 238.204 Radial†	3153.8	3039.4	77617 ug/L	77617 ppb	22:30:28
2	K 766.490 Radial†	14812.7	11862.1	3223.0 ug/L	3223.0 ppb	22:30:08
2	Mg 279.077 IEC†	67.8	65.3	5056.4 ug/L	5056.4 ppb	22:30:28
2	Na 589.592 Radial†	131.1	1071.1	651.28 ug/L	651.28 ppb	22:30:08
2	Sr 421.552†	5175.1	4980.5	65.490 ug/L	65.490 ppb	22:30:08
2	Sc 361.383	632271.9	632271.9	105.39 %		22:31:30
2	Y 371.029	641159.3	641159.3	126.98 %		22:31:30
2	Ag 328.068†	-3237.8	-3154.1	0.5803 ug/L	0.5803 ppb	22:31:35
2	As 188.979†	-16.8	1.8	37.758 ug/L	37.758 ppb	22:31:55
2	B 249.677†	418.5	736.2	15.774 ug/L	15.774 ppb	22:31:35
2	Ba 233.527†	10625.6	10071.0	136.48 ug/L	136.48 ppb	22:31:35
2	Be 313.107†	-10455.9	-6654.4	2.0473 ug/L	2.0473 ppb	22:31:35
2	Cd 226.502†	255.2	403.8	-0.0426 ug/L	-0.0426 ppb	22:31:55
2	Co 228.616†	355.6	366.4	7.2484 ug/L	7.2484 ppb	22:31:55
2	Cr 267.716†	4866.8	4540.0	100.36 ug/L	100.36 ppb	22:31:35
2	Cu 324.752†	9422.8	3775.0	22.271 ug/L	22.271 ppb	22:31:35
2	Mn 257.610†	755811.7	716807.5	1321.5 ug/L	1321.5 ppb	22:31:30
2	Mo 202.031†	18.4	6.1	6.4188 ug/L	6.4188 ppb	22:31:55
2	Ni 231.604†	1220.8	1080.6	48.839 ug/L	48.839 ppb	22:31:55

2	P 214.914†	595.5	403.0	359.22 ug/L	359.22 ppb	22:31:55
2	Pb 220.353†	183.3	218.0	44.786 ug/L	44.786 ppb	22:31:55
2	S 181.975 Axial†	180.0	148.1	374.87 ug/L	374.87 ppb	22:31:55
2	Sb 206.836†	35.9	8.6	-2.7309 ug/L	-2.7309 ppb	22:31:55
2	Se 196.026†	-248.4	-221.0	38.706 ug/L	38.706 ppb	22:31:55
2	Si 251.611†	124446.0	117722.6	6298.4 ug/L	6298.4 ppb	22:31:35
2	Sn 189.927†	-29.7	-35.0	-8.2488 ug/L	-8.2488 ppb	22:31:55
2	Ti 334.940†	1164620.2	1106103.2	2612.3 ug/L	2612.3 ppb	22:31:30
2	Tl 190.801†	-79.2	-48.1	-0.4866 ug/L	-0.4866 ppb	22:31:55
2	U 409.014†	-5841.9	-4265.2	-187.76 ug/L	-187.76 ppb	22:31:30
2	V 292.402†	5895.3	6841.3	61.578 ug/L	61.578 ppb	22:31:35
2	Zn 213.857†	25733.2	23909.9	398.17 ug/L	398.17 ppb	22:31:35
2	SiO2†	125962.2	119167.5	13277 ug/L	13277 ppb	22:32:36
3	Sc Radial	2707.4	2707.4	103 %		22:30:53
3	Y RADIAL	3791.5	3791.5	129.9 %		22:30:33
3	Al 396.153Radial†	18739.3	18223.8	25501 ug/L	25501 ppb	22:30:33
3	Ca 317.933Radial†	3030.4	2923.2	9702.3 ug/L	9702.3 ppb	22:30:53
3	Fe 238.204 Radial†	3147.0	3041.5	77668 ug/L	77668 ppb	22:30:53
3	K 766.490 Radial†	14896.0	11983.3	3256.0 ug/L	3256.0 ppb	22:30:33
3	Mg 279.077 IEC†	65.9	63.7	4926.7 ug/L	4926.7 ppb	22:30:53
3	Na 589.592 Radial†	102.2	1043.5	634.51 ug/L	634.51 ppb	22:30:33
3	Sr 421.552†	5254.5	5071.5	66.688 ug/L	66.688 ppb	22:30:33
3	Sc 361.383	634657.7	634657.7	105.79 %		22:32:01
3	Y 371.029	642443.6	642443.6	127.24 %		22:32:01
3	Ag 328.068†	-3196.3	-3103.3	0.9421 ug/L	0.9421 ppb	22:32:06
3	As 188.979†	-21.4	-2.5	34.428 ug/L	34.428 ppb	22:32:26
3	B 249.677†	385.3	703.4	14.496 ug/L	14.496 ppb	22:32:06
3	Ba 233.527†	10467.8	9883.9	134.01 ug/L	134.01 ppb	22:32:06
3	Be 313.107†	-10231.5	-6405.0	2.1989 ug/L	2.1989 ppb	22:32:06
3	Cd 226.502†	259.8	407.3	0.0255 ug/L	0.0255 ppb	22:32:26
3	Co 228.616†	371.7	380.4	7.7669 ug/L	7.7669 ppb	22:32:26
3	Cr 267.716†	4899.9	4553.9	100.63 ug/L	100.63 ppb	22:32:06
3	Cu 324.752†	9252.8	3580.7	21.421 ug/L	21.421 ppb	22:32:06
3	Mn 257.610†	760025.9	718095.2	1323.8 ug/L	1323.8 ppb	22:32:01
3	Mo 202.031†	15.5	3.3	6.0555 ug/L	6.0555 ppb	22:32:26
3	Ni 231.604†	1245.2	1099.3	49.691 ug/L	49.691 ppb	22:32:26
3	P 214.914†	616.9	421.0	378.81 ug/L	378.81 ppb	22:32:26
3	Pb 220.353†	201.9	235.0	48.675 ug/L	48.675 ppb	22:32:26
3	S 181.975 Axial†	185.2	152.4	385.81 ug/L	385.81 ppb	22:32:26
3	Sb 206.836†	47.6	19.6	3.7240 ug/L	3.7240 ppb	22:32:26
3	Se 196.026†	-255.3	-226.7	32.083 ug/L	32.083 ppb	22:32:26
3	Si 251.611†	123282.9	116179.2	6215.9 ug/L	6215.9 ppb	22:32:06
3	Sn 189.927†	-29.8	-35.1	-8.2616 ug/L	-8.2616 ppb	22:32:26
3	Ti 334.940†	1170218.4	1107240.9	2615.0 ug/L	2615.0 ppb	22:32:01
3	Tl 190.801†	-78.7	-47.3	-0.0146 ug/L	-0.0146 ppb	22:32:26
3	U 409.014†	-5936.8	-4334.1	-190.56 ug/L	-190.56 ppb	22:32:01
3	V 292.402†	5798.8	6729.1	60.329 ug/L	60.329 ppb	22:32:06
3	Zn 213.857†	25415.7	23518.0	391.41 ug/L	391.41 ppb	22:32:06
3	SiO2†	124271.5	117120.0	13049 ug/L	13049 ppb	22:32:41

Mean Data: 248511019|973758|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	628880.9	104.82 %		1.338			1.28%
Sc Radial	2720.7	104 %		0.6			0.62%
Y 371.029	637534.9	126.27 %		1.469			1.16%
Y RADIAL	3778.6	129.5 %		1.56			1.21%
Ag 328.068†	-3126.9	0.7485 ug/L		0.18227	0.7485 ppb	0.18227	24.35%
Al 396.153Radial†	18125.7	25364 ug/L		166.7	25364 ppb	166.7	0.66%
As 188.979†	-0.3	36.135 ug/L		1.6666	36.135 ppb	1.6666	4.61%
B 249.677†	720.8	15.188 ug/L		0.6456	15.188 ppb	0.6456	4.25%
Ba 233.527†	10009.5	135.67 ug/L		1.436	135.67 ppb	1.436	1.06%
Be 313.107†	-6603.1	2.0777 ug/L		0.10923	2.0777 ppb	0.10923	5.26%
Ca 317.933Radial†	2921.7	9697.2 ug/L		7.31	9697.2 ppb	7.31	0.08%
Cd 226.502†	409.5	0.0870 ug/L		0.16890	0.0870 ppb	0.16890	194.24%
Co 228.616†	374.7	7.5591 ug/L		0.27411	7.5591 ppb	0.27411	3.63%
Cr 267.716†	4567.0	100.86 ug/L		0.652	100.86 ppb	0.652	0.65%
Cu 324.752†	3706.8	21.967 ug/L		0.4742	21.967 ppb	0.4742	2.16%
Fe 238.204 Radial†	3037.1	77558 ug/L		148.4	77558 ppb	148.4	0.19%
K 766.490 Radial†	11953.9	3248.0 ug/L		22.10	3248.0 ppb	22.10	0.68%

Mg 279.077 IEC†	65.9	5100.5 ug/L	199.59	5100.5 ppb	199.59	3.91%
Mn 257.610†	716889.1	1321.6 ug/L	2.16	1321.6 ppb	2.16	0.16%
Mo 202.031†	4.5	6.2138 ug/L	0.18608	6.2138 ppb	0.18608	2.99%
Na 589.592 Radial†	1069.6	650.35 ug/L	15.393	650.35 ppb	15.393	2.37%
Ni 231.604†	1101.0	49.768 ug/L	0.9700	49.768 ppb	0.9700	1.95%
P 214.914†	411.7	368.76 ug/L	9.805	368.76 ppb	9.805	2.66%
Pb 220.353†	227.2	46.913 ug/L	1.9702	46.913 ppb	1.9702	4.20%
S 181.975 Axial†	151.4	383.43 ug/L	7.656	383.43 ppb	7.656	2.00%
Sb 206.836†	12.3	-0.5747 ug/L	3.72281	-0.5747 ppb	3.72281	647.74%
Se 196.026†	-225.8	32.772 ug/L	5.6212	32.772 ppb	5.6212	17.15%
Si 251.611†	117424.1	6282.5 ug/L	60.23	6282.5 ppb	60.23	0.96%
Sn 189.927†	-34.9	-8.2210 ug/L	0.05959	-8.2210 ppb	0.05959	0.72%
Sr 421.552†	5029.4	66.134 ug/L	0.6044	66.134 ppb	0.6044	0.91%
Ti 334.940†	1106190.1	2612.5 ug/L	2.40	2612.5 ppb	2.40	0.09%
Tl 190.801†	-47.1	0.0756 ug/L	0.61219	0.0756 ppb	0.61219	810.03%
U 409.014†	-4278.1	-188.27 ug/L	2.077	-188.27 ppb	2.077	1.10%
V 292.402†	6780.0	60.912 ug/L	0.6288	60.912 ppb	0.6288	1.03%
Zn 213.857†	23799.6	396.28 ug/L	4.245	396.28 ppb	4.245	1.07%
SiO2†	119248.5	13286 ug/L	241.8	13286 ppb	241.8	1.82%

Sequence No.: 32
 Sample ID: 248511020|973758|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 63
 Date Collected: 4/12/2010 22:34:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511020|973758|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2755.2	2755.2	105 %		22:37:05
1	Y RADIAL	3702.0	3702.0	126.9 %		22:36:45
1	Al 396.153Radial†	25562.2	24401.6	34146 ug/L	34146 ppb	22:36:45
1	Ca 317.933Radial†	8325.9	7911.6	26259 ug/L	26259 ppb	22:36:45
1	Fe 238.204 Radial†	3221.9	3059.9	78139 ug/L	78139 ppb	22:37:05
1	K 766.490 Radial†	36165.0	31972.9	8687.2 ug/L	8687.2 ppb	22:36:45
1	Mg 279.077 IEC†	128.6	122.3	9534.9 ug/L	9534.9 ppb	22:37:05
1	Na 589.592 Radial†	-90.6	858.3	521.91 ug/L	521.91 ppb	22:36:45
1	Sr 421.552†	14295.7	13587.0	178.66 ug/L	178.66 ppb	22:36:45
1	Sc 361.383	636331.0	636331.0	106.07 %		22:38:03
1	Y 371.029	614819.5	614819.5	121.77 %		22:38:03
1	Ag 328.068†	-3101.3	-3005.7	1.6285 ug/L	1.6285 ppb	22:38:08
1	As 188.979†	-15.1	3.5	35.433 ug/L	35.433 ppb	22:38:28
1	B 249.677†	1170.6	1442.8	42.933 ug/L	42.933 ppb	22:38:08
1	Ba 233.527†	48966.4	46154.6	613.79 ug/L	613.79 ppb	22:38:08
1	Be 313.107†	-3504.3	-37.2	4.8184 ug/L	4.8184 ppb	22:38:08
1	Cd 226.502†	313.4	457.2	1.0222 ug/L	1.0222 ppb	22:38:28
1	Co 228.616†	651.1	642.8	18.914 ug/L	18.914 ppb	22:38:28
1	Cr 267.716†	1984.5	1793.1	47.931 ug/L	47.931 ppb	22:38:28
1	Cu 324.752†	16145.8	10056.4	49.998 ug/L	49.998 ppb	22:38:08
1	Mn 257.610†	2920300.0	2752918.2	5049.2 ug/L	5049.2 ppb	22:38:03
1	Mo 202.031†	6.4	-5.3	5.3089 ug/L	5.3089 ppb	22:38:28
1	Ni 231.604†	1006.0	870.7	39.254 ug/L	39.254 ppb	22:38:28
1	P 214.914†	1449.6	1204.6	1213.7 ug/L	1213.7 ppb	22:38:28
1	Pb 220.353†	557.2	569.4	126.34 ug/L	126.34 ppb	22:38:28
1	S 181.975 Axial†	552.6	498.3	1273.3 ug/L	1273.3 ppb	22:38:28
1	Sb 206.836†	38.5	10.9	-0.6315 ug/L	-0.6315 ppb	22:38:28
1	Se 196.026†	-263.1	-233.4	26.073 ug/L	26.073 ppb	22:38:28
1	Si 251.611†	125783.6	118230.4	6325.6 ug/L	6325.6 ppb	22:38:08
1	Sn 189.927†	-118.7	-118.8	-31.876 ug/L	-31.876 ppb	22:38:28
1	Ti 334.940†	956651.4	902980.6	2134.4 ug/L	2134.4 ppb	22:38:03
1	Tl 190.801†	-110.6	-77.2	-2.4250 ug/L	-2.4250 ppb	22:38:28
1	U 409.014†	-6611.6	-4955.6	-215.68 ug/L	-215.68 ppb	22:38:08
1	V 292.402†	7949.6	8742.5	82.839 ug/L	82.839 ppb	22:38:08
1	Zn 213.857†	22839.6	21026.1	348.49 ug/L	348.49 ppb	22:38:08
1	SiO2†	129355.3	121604.1	13549 ug/L	13549 ppb	22:39:35
2	Sc Radial	2735.5	2735.5	104 %		22:37:31
2	Y RADIAL	3608.2	3608.2	123.7 %		22:37:11
2	Al 396.153Radial†	25060.8	24095.7	33718 ug/L	33718 ppb	22:37:11
2	Ca 317.933Radial†	8143.6	7793.7	25868 ug/L	25868 ppb	22:37:11
2	Fe 238.204 Radial†	3297.9	3154.8	80562 ug/L	80562 ppb	22:37:31
2	K 766.490 Radial†	35527.2	31608.7	8588.2 ug/L	8588.2 ppb	22:37:11
2	Mg 279.077 IEC†	133.2	127.5	9944.9 ug/L	9944.9 ppb	22:37:31
2	Na 589.592 Radial†	-22.1	923.3	561.42 ug/L	561.42 ppb	22:37:11
2	Sr 421.552†	13973.8	13376.2	175.89 ug/L	175.89 ppb	22:37:11
2	Sc 361.383	637495.9	637495.9	106.26 %		22:38:34
2	Y 371.029	614809.2	614809.2	121.76 %		22:38:34
2	Ag 328.068†	-3060.6	-2962.1	2.6304 ug/L	2.6304 ppb	22:38:39
2	As 188.979†	-15.0	3.6	35.826 ug/L	35.826 ppb	22:38:59
2	B 249.677†	1227.8	1494.6	44.539 ug/L	44.539 ppb	22:38:39
2	Ba 233.527†	49244.4	46331.8	616.24 ug/L	616.24 ppb	22:38:39
2	Be 313.107†	-3446.6	23.2	4.7941 ug/L	4.7941 ppb	22:38:39
2	Cd 226.502†	319.6	462.4	0.8623 ug/L	0.8623 ppb	22:38:59
2	Co 228.616†	644.5	635.5	18.659 ug/L	18.659 ppb	22:38:59
2	Cr 267.716†	2003.8	1807.8	48.633 ug/L	48.633 ppb	22:38:59
2	Cu 324.752†	16185.6	10066.1	50.218 ug/L	50.218 ppb	22:38:39
2	Mn 257.610†	2894229.9	2723353.0	4995.3 ug/L	4995.3 ppb	22:38:34
2	Mo 202.031†	4.2	-7.4	5.1960 ug/L	5.1960 ppb	22:38:59
2	Ni 231.604†	994.7	858.4	38.677 ug/L	38.677 ppb	22:38:59

2	P 214.914†	1462.8	1214.6	1221.9 ug/L	1221.9 ppb	22:38:59
2	Pb 220.353†	558.9	570.1	126.05 ug/L	126.05 ppb	22:38:59
2	S 181.975 Axial†	549.2	494.2	1262.7 ug/L	1262.7 ppb	22:38:59
2	Sb 206.836†	40.3	12.4	0.5018 ug/L	0.5018 ppb	22:38:59
2	Se 196.026†	-262.7	-232.6	36.505 ug/L	36.505 ppb	22:38:59
2	Si 251.611†	126188.0	118394.3	6334.4 ug/L	6334.4 ppb	22:38:39
2	Sn 189.927†	-106.9	-107.4	-28.193 ug/L	-28.193 ppb	22:38:59
2	Ti 334.940†	946598.9	891872.3	2108.1 ug/L	2108.1 ppb	22:38:34
2	Tl 190.801†	-125.6	-91.2	-10.577 ug/L	-10.577 ppb	22:38:59
2	U 409.014†	-6835.2	-5154.5	-224.20 ug/L	-224.20 ppb	22:38:39
2	V 292.402†	8018.9	8794.0	83.099 ug/L	83.099 ppb	22:38:39
2	Zn 213.857†	22837.0	20984.3	347.37 ug/L	347.37 ppb	22:38:39
2	SiO2†	130250.8	122224.0	13618 ug/L	13618 ppb	22:39:41
3	Sc Radial	2801.0	2801.0	107 %		22:37:56
3	Y RADIAL	3727.4	3727.4	127.7 %		22:37:36
3	Al 396.153Radial†	25668.3	24103.6	33729 ug/L	33729 ppb	22:37:36
3	Ca 317.933Radial†	8383.2	7835.7	26007 ug/L	26007 ppb	22:37:36
3	Fe 238.204 Radial†	3304.5	3087.1	78835 ug/L	78835 ppb	22:37:56
3	K 766.490 Radial†	36427.3	31656.2	8601.1 ug/L	8601.1 ppb	22:37:36
3	Mg 279.077 IEC†	134.9	126.1	9837.1 ug/L	9837.1 ppb	22:37:56
3	Na 589.592 Radial†	-52.3	895.5	544.54 ug/L	544.54 ppb	22:37:36
3	Sr 421.552†	14343.8	13409.8	176.33 ug/L	176.33 ppb	22:37:36
3	Sc 361.383	630532.8	630532.8	105.10 %		22:39:05
3	Y 371.029	608739.5	608739.5	120.56 %		22:39:05
3	Ag 328.068†	-3081.3	-3013.6	1.7979 ug/L	1.7979 ppb	22:39:10
3	As 188.979†	-14.2	4.2	36.075 ug/L	36.075 ppb	22:39:30
3	B 249.677†	1156.6	1439.7	42.697 ug/L	42.697 ppb	22:39:10
3	Ba 233.527†	49824.9	47395.8	630.24 ug/L	630.24 ppb	22:39:10
3	Be 313.107†	-3419.1	13.5	4.8348 ug/L	4.8348 ppb	22:39:10
3	Cd 226.502†	332.6	478.1	1.3878 ug/L	1.3878 ppb	22:39:30
3	Co 228.616†	666.2	662.9	19.682 ug/L	19.682 ppb	22:39:30
3	Cr 267.716†	2023.2	1847.2	49.095 ug/L	49.095 ppb	22:39:30
3	Cu 324.752†	16357.3	10397.6	51.558 ug/L	51.558 ppb	22:39:10
3	Mn 257.610†	2893229.4	2752479.4	5048.4 ug/L	5048.4 ppb	22:39:05
3	Mo 202.031†	10.8	-1.1	5.9037 ug/L	5.9037 ppb	22:39:30
3	Ni 231.604†	1009.0	882.3	39.778 ug/L	39.778 ppb	22:39:30
3	P 214.914†	1494.2	1259.6	1271.5 ug/L	1271.5 ppb	22:39:30
3	Pb 220.353†	572.4	588.8	130.51 ug/L	130.51 ppb	22:39:30
3	S 181.975 Axial†	567.4	517.2	1321.8 ug/L	1321.8 ppb	22:39:30
3	Sb 206.836†	47.5	19.7	4.6934 ug/L	4.6934 ppb	22:39:30
3	Se 196.026†	-263.4	-236.0	25.692 ug/L	25.692 ppb	22:39:30
3	Si 251.611†	128128.4	121551.9	6503.3 ug/L	6503.3 ppb	22:39:10
3	Sn 189.927†	-114.0	-115.3	-30.793 ug/L	-30.793 ppb	22:39:30
3	Ti 334.940†	945349.2	900520.7	2128.5 ug/L	2128.5 ppb	22:39:05
3	Tl 190.801†	-122.8	-89.8	-9.4012 ug/L	-9.4012 ppb	22:39:30
3	U 409.014†	-6876.7	-5265.1	-228.34 ug/L	-228.34 ppb	22:39:10
3	V 292.402†	8178.1	9028.8	85.873 ug/L	85.873 ppb	22:39:10
3	Zn 213.857†	23253.3	21617.7	358.55 ug/L	358.55 ppb	22:39:10
3	SiO2†	126999.0	120483.6	13424 ug/L	13424 ppb	22:39:46

Mean Data: 248511020|973758|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	634786.5	105.81 %		0.622			0.59%
Sc Radial	2763.9	105 %		1.3			1.21%
Y 371.029	612789.4	121.36 %		0.695			0.57%
Y RADIAL	3679.2	126.1 %		2.15			1.71%
Ag 328.068†	-2993.8	2.0189 ug/L		0.53624	2.0189 ppb	0.53624	26.56%
Al 396.153Radial†	24200.3	33864 ug/L		244.0	33864 ppb	244.0	0.72%
As 188.979†	3.8	35.778 ug/L		0.3234	35.778 ppb	0.3234	0.90%
B 249.677†	1459.0	43.390 ug/L		1.0025	43.390 ppb	1.0025	2.31%
Ba 233.527†	46627.4	620.09 ug/L		8.878	620.09 ppb	8.878	1.43%
Be 313.107†	-0.2	4.8158 ug/L		0.02048	4.8158 ppb	0.02048	0.43%
Ca 317.933Radial†	7847.0	26044 ug/L		198.2	26044 ppb	198.2	0.76%
Cd 226.502†	465.9	1.0908 ug/L		0.26934	1.0908 ppb	0.26934	24.69%
Co 228.616†	647.1	19.085 ug/L		0.5324	19.085 ppb	0.5324	2.79%
Cr 267.716†	1816.0	48.553 ug/L		0.5860	48.553 ppb	0.5860	1.21%
Cu 324.752†	10173.4	50.592 ug/L		0.8441	50.592 ppb	0.8441	1.67%
Fe 238.204 Radial†	3100.6	79179 ug/L		1247.9	79179 ppb	1247.9	1.58%
K 766.490 Radial†	31745.9	8625.5 ug/L		53.79	8625.5 ppb	53.79	0.62%

Mg 279.077 IEC†	125.3	9772.3 ug/L	212.55	9772.3 ppb	212.55	2.18%
Mn 257.610†	2742916.9	5031.0 ug/L	30.88	5031.0 ppb	30.88	0.61%
Mo 202.031†	-4.6	5.4695 ug/L	0.38020	5.4695 ppb	0.38020	6.95%
Na 589.592 Radial†	892.4	542.62 ug/L	19.826	542.62 ppb	19.826	3.65%
Ni 231.604†	870.5	39.237 ug/L	0.5507	39.237 ppb	0.5507	1.40%
P 214.914†	1226.3	1235.7 ug/L	31.27	1235.7 ppb	31.27	2.53%
Pb 220.353†	576.1	127.63 ug/L	2.495	127.63 ppb	2.495	1.95%
S 181.975 Axial†	503.2	1286.0 ug/L	31.52	1286.0 ppb	31.52	2.45%
Sb 206.836†	14.3	1.5213 ug/L	2.80502	1.5213 ppb	2.80502	184.39%
Se 196.026†	-234.0	29.423 ug/L	6.1359	29.423 ppb	6.1359	20.85%
Si 251.611†	119392.2	6387.8 ug/L	100.16	6387.8 ppb	100.16	1.57%
Sn 189.927†	-113.8	-30.288 ug/L	1.8925	-30.288 ppb	1.8925	6.25%
Sr 421.552†	13457.6	176.96 ug/L	1.489	176.96 ppb	1.489	0.84%
Ti 334.940†	898457.9	2123.6 ug/L	13.81	2123.6 ppb	13.81	0.65%
Tl 190.801†	-86.0	-7.4676 ug/L	4.40643	-7.4676 ppb	4.40643	59.01%
U 409.014†	-5125.1	-222.74 ug/L	6.455	-222.74 ppb	6.455	2.90%
V 292.402†	8855.1	83.937 ug/L	1.6816	83.937 ppb	1.6816	2.00%
Zn 213.857†	21209.4	351.47 ug/L	6.155	351.47 ppb	6.155	1.75%
SiO2†	121437.2	13530 ug/L	98.3	13530 ppb	98.3	0.73%

Sequence No.: 33

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 4/12/2010 22:41:56

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	2690.0	2690.0	103 %		22:44:08
1	Y RADIAL	2974.3	2974.3	101.9 %		22:44:08
1	Al 396.153Radial†	3659.5	3643.2	5074.4 ug/L	5074.4 ppb	22:43:48
1	Ca 317.933Radial†	1578.8	1527.4	5069.4 ug/L	5069.4 ppb	22:44:08
1	Fe 238.204 Radial†	220.2	208.5	5339.7 ug/L	5339.7 ppb	22:44:08
1	K 766.490 Radial†	21769.5	18776.3	5100.1 ug/L	5100.1 ppb	22:43:48
1	Mg 279.077 IEC†	71.4	69.5	5463.5 ug/L	5463.5 ppb	22:44:08
1	Na 589.592 Radial†	18015.6	18504.2	11252 ug/L	11252 ppb	22:43:48
1	Sr 421.552†	42285.2	41198.0	542.29 ug/L	542.29 ppb	22:43:48
1	Sc 361.383	629255.0	629255.0	104.89 %		22:45:06
1	Y 371.029	525326.3	525326.3	104.04 %		22:45:06
1	Ag 328.068†	76094.4	72466.9	502.39 ug/L	502.39 ppb	22:45:06
1	As 188.979†	630.4	618.7	489.95 ug/L	489.95 ppb	22:45:26
1	B 249.677†	12860.6	12600.5	484.13 ug/L	484.13 ppb	22:45:06
1	Ba 233.527†	39295.0	37452.9	496.77 ug/L	496.77 ppb	22:45:06
1	Be 313.107†	888627.2	850487.8	497.22 ug/L	497.22 ppb	22:45:06
1	Cd 226.502†	24378.8	23404.5	496.90 ug/L	496.90 ppb	22:45:06
1	Co 228.616†	13421.1	12824.8	483.47 ug/L	483.47 ppb	22:45:26
1	Cr 267.716†	27389.3	26035.2	499.52 ug/L	499.52 ppb	22:45:06
1	Cu 324.752†	124709.8	113733.1	500.92 ug/L	500.92 ppb	22:45:06
1	Mn 257.610†	285593.3	271937.6	498.29 ug/L	498.29 ppb	22:45:06
1	Mo 202.031†	3933.4	3738.8	489.31 ug/L	489.31 ppb	22:45:26
1	Ni 231.604†	11231.6	10630.5	484.68 ug/L	484.68 ppb	22:45:26
1	P 214.914†	2519.6	2240.2	2284.2 ug/L	2284.2 ppb	22:45:26
1	Pb 220.353†	2228.9	2169.2	490.48 ug/L	490.48 ppb	22:45:26
1	S 181.975 Axial†	419.4	377.1	968.49 ug/L	968.49 ppb	22:45:26
1	Sb 206.836†	891.6	824.6	503.57 ug/L	503.57 ppb	22:45:26
1	Se 196.026†	405.8	401.5	505.65 ug/L	505.65 ppb	22:45:26
1	Si 251.611†	49150.9	46502.0	2481.9 ug/L	2481.9 ppb	22:45:06
1	Sn 189.927†	1540.4	1461.8	483.83 ug/L	483.83 ppb	22:45:26
1	Ti 334.940†	219530.3	210348.3	496.40 ug/L	496.40 ppb	22:45:06
1	Tl 190.801†	902.5	887.5	491.65 ug/L	491.65 ppb	22:45:26
1	U 409.014†	11346.9	12096.1	487.27 ug/L	487.27 ppb	22:45:06
1	V 292.402†	46199.2	45294.1	501.99 ug/L	501.99 ppb	22:45:06
1	Zn 213.857†	30828.9	28885.3	492.29 ug/L	492.29 ppb	22:45:06
1	SiO2†	49248.1	46601.0	5178.8 ug/L	5178.8 ppb	22:46:23
2	Sc Radial	2708.1	2708.1	103 %		22:44:33
2	Y RADIAL	3012.4	3012.4	103.2 %		22:44:33
2	Al 396.153Radial†	3597.5	3559.3	4956.4 ug/L	4956.4 ppb	22:44:13
2	Ca 317.933Radial†	1586.4	1524.5	5059.7 ug/L	5059.7 ppb	22:44:33
2	Fe 238.204 Radial†	220.7	207.6	5316.0 ug/L	5316.0 ppb	22:44:33
2	K 766.490 Radial†	21319.4	18198.4	4943.0 ug/L	4943.0 ppb	22:44:13
2	Mg 279.077 IEC†	70.2	67.8	5331.5 ug/L	5331.5 ppb	22:44:33
2	Na 589.592 Radial†	17629.5	18012.7	10953 ug/L	10953 ppb	22:44:13
2	Sr 421.552†	41355.0	40021.2	526.80 ug/L	526.80 ppb	22:44:13
2	Sc 361.383	621958.9	621958.9	103.67 %		22:45:32
2	Y 371.029	519159.6	519159.6	102.82 %		22:45:32
2	Ag 328.068†	75680.2	72918.4	505.51 ug/L	505.51 ppb	22:45:32
2	As 188.979†	641.3	636.3	503.77 ug/L	503.77 ppb	22:45:52
2	B 249.677†	12792.5	12678.7	487.12 ug/L	487.12 ppb	22:45:32
2	Ba 233.527†	39231.2	37830.9	501.77 ug/L	501.77 ppb	22:45:32
2	Be 313.107†	885962.1	857855.7	501.53 ug/L	501.53 ppb	22:45:32
2	Cd 226.502†	24293.1	23594.5	500.94 ug/L	500.94 ppb	22:45:32
2	Co 228.616†	13569.4	13117.9	494.54 ug/L	494.54 ppb	22:45:52
2	Cr 267.716†	27231.4	26189.2	502.47 ug/L	502.47 ppb	22:45:32
2	Cu 324.752†	124089.7	114529.7	504.42 ug/L	504.42 ppb	22:45:32
2	Mn 257.610†	284373.6	273955.2	501.99 ug/L	501.99 ppb	22:45:32
2	Mo 202.031†	3975.3	3823.2	500.34 ug/L	500.34 ppb	22:45:52
2	Ni 231.604†	11347.8	10868.2	495.51 ug/L	495.51 ppb	22:45:52

2	P 214.914†	2556.0	2303.5	2351.4 ug/L	2351.4 ppb	22:45:52
2	Pb 220.353†	2245.0	2209.6	499.60 ug/L	499.60 ppb	22:45:52
2	S 181.975 Axial†	423.9	386.1	991.70 ug/L	991.70 ppb	22:45:52
2	Sb 206.836†	896.9	839.6	512.92 ug/L	512.92 ppb	22:45:52
2	Se 196.026†	405.4	405.6	510.55 ug/L	510.55 ppb	22:45:52
2	Si 251.611†	48982.8	46889.6	2502.6 ug/L	2502.6 ppb	22:45:32
2	Sn 189.927†	1565.2	1502.9	497.43 ug/L	497.43 ppb	22:45:52
2	Ti 334.940†	218589.2	211895.8	500.06 ug/L	500.06 ppb	22:45:32
2	Tl 190.801†	895.0	890.3	493.18 ug/L	493.18 ppb	22:45:52
2	U 409.014†	11203.0	12084.2	486.79 ug/L	486.79 ppb	22:45:32
2	V 292.402†	45983.1	45602.4	505.51 ug/L	505.51 ppb	22:45:32
2	Zn 213.857†	30701.8	29107.5	496.04 ug/L	496.04 ppb	22:45:32
2	SiO2†	49075.0	46984.7	5221.2 ug/L	5221.2 ppb	22:46:28
3	Sc Radial	2730.8	2730.8	104 %		22:44:58
3	Y RADIAL	3041.2	3041.2	104.2 %		22:44:58
3	Al 396.153Radial†	3656.1	3586.6	4995.0 ug/L	4995.0 ppb	22:44:38
3	Ca 317.933Radial†	1617.7	1541.7	5117.0 ug/L	5117.0 ppb	22:44:58
3	Fe 238.204 Radial†	224.5	209.4	5362.4 ug/L	5362.4 ppb	22:44:58
3	K 766.490 Radial†	21851.1	18537.5	5035.2 ug/L	5035.2 ppb	22:44:38
3	Mg 279.077 IEC†	70.1	67.1	5279.4 ug/L	5279.4 ppb	22:44:58
3	Na 589.592 Radial†	18159.3	18379.8	11176 ug/L	11176 ppb	22:44:38
3	Sr 421.552†	42616.6	40900.3	538.37 ug/L	538.37 ppb	22:44:38
3	Sc 361.383	630936.7	630936.7	105.17 %		22:45:58
3	Y 371.029	525366.8	525366.8	104.05 %		22:45:58
3	Ag 328.068†	76561.1	72717.2	504.13 ug/L	504.13 ppb	22:45:58
3	As 188.979†	627.0	613.9	486.22 ug/L	486.22 ppb	22:46:18
3	B 249.677†	13030.7	12729.6	489.11 ug/L	489.11 ppb	22:45:58
3	Ba 233.527†	39720.2	37757.4	500.80 ug/L	500.80 ppb	22:45:58
3	Be 313.107†	895945.9	855188.8	499.97 ug/L	499.97 ppb	22:45:58
3	Cd 226.502†	24691.6	23640.0	501.90 ug/L	501.90 ppb	22:45:58
3	Co 228.616†	13487.9	12854.2	484.58 ug/L	484.58 ppb	22:46:18
3	Cr 267.716†	27513.0	26083.2	500.45 ug/L	500.45 ppb	22:45:58
3	Cu 324.752†	125872.6	114521.8	504.39 ug/L	504.39 ppb	22:45:58
3	Mn 257.610†	288290.8	273776.7	501.67 ug/L	501.67 ppb	22:45:58
3	Mo 202.031†	3966.4	3760.1	492.10 ug/L	492.10 ppb	22:46:18
3	Ni 231.604†	11260.1	10629.1	484.61 ug/L	484.61 ppb	22:46:18
3	P 214.914†	2550.7	2263.3	2308.2 ug/L	2308.2 ppb	22:46:18
3	Pb 220.353†	2233.7	2168.1	490.23 ug/L	490.23 ppb	22:46:18
3	S 181.975 Axial†	412.1	369.2	948.09 ug/L	948.09 ppb	22:46:18
3	Sb 206.836†	885.0	816.1	498.70 ug/L	498.70 ppb	22:46:18
3	Se 196.026†	420.4	414.4	521.24 ug/L	521.24 ppb	22:46:18
3	Si 251.611†	49710.7	46909.4	2503.7 ug/L	2503.7 ppb	22:45:58
3	Sn 189.927†	1558.3	1474.9	488.17 ug/L	488.17 ppb	22:46:18
3	Ti 334.940†	221375.7	211545.2	499.24 ug/L	499.24 ppb	22:45:58
3	Tl 190.801†	903.2	885.9	490.77 ug/L	490.77 ppb	22:46:18
3	U 409.014†	11397.4	12115.3	488.04 ug/L	488.04 ppb	22:45:58
3	V 292.402†	46493.6	45456.6	503.80 ug/L	503.80 ppb	22:45:58
3	Zn 213.857†	31179.5	29140.3	496.67 ug/L	496.67 ppb	22:45:58
3	SiO2†	48772.6	46023.7	5114.4 ug/L	5114.4 ppb	22:46:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	627383.5	104.58 %	0.796			0.76%
Sc Radial	2709.6	103 %	0.8			0.75%
Y 371.029	523284.2	103.64 %	0.707			0.68%
Y RADIAL	3009.3	103.1 %	1.15			1.12%
Ag 328.068†	72700.8	504.01 ug/L	1.563	504.01 ppb	1.563	0.31%
QC value within limits for Ag 328.068 Recovery = 100.80%						
Al 396.153Radial†	3596.4	5008.6 ug/L	60.16	5008.6 ppb	60.16	1.20%
QC value within limits for Al 396.153Radial Recovery = 100.17%						
As 188.979†	623.0	493.31 ug/L	9.245	493.31 ppb	9.245	1.87%
QC value within limits for As 188.979 Recovery = 98.66%						
B 249.677†	12669.6	486.79 ug/L	2.506	486.79 ppb	2.506	0.51%
QC value within limits for B 249.677 Recovery = 97.36%						
Ba 233.527†	37680.4	499.78 ug/L	2.654	499.78 ppb	2.654	0.53%
QC value within limits for Ba 233.527 Recovery = 99.96%						
Be 313.107†	854510.8	499.57 ug/L	2.180	499.57 ppb	2.180	0.44%
QC value within limits for Be 313.107 Recovery = 99.91%						
Ca 317.933Radial†	1531.2	5082.0 ug/L	30.67	5082.0 ppb	30.67	0.60%

QC value within limits for Ca 317.933 Radial Recovery = 101.64%							
Cd 226.502†	23546.4	499.91 ug/L	2.655	499.91 ppb	2.655	0.53%	
QC value within limits for Cd 226.502 Recovery = 99.98%							
Co 228.616†	12932.3	487.53 ug/L	6.096	487.53 ppb	6.096	1.25%	
QC value within limits for Co 228.616 Recovery = 97.51%							
Cr 267.716†	26102.5	500.81 ug/L	1.507	500.81 ppb	1.507	0.30%	
QC value within limits for Cr 267.716 Recovery = 100.16%							
Cu 324.752†	114261.5	503.24 ug/L	2.014	503.24 ppb	2.014	0.40%	
QC value within limits for Cu 324.752 Recovery = 100.65%							
Fe 238.204 Radial†	208.5	5339.4 ug/L	23.19	5339.4 ppb	23.19	0.43%	
QC value within limits for Fe 238.204 Radial Recovery = 106.79%							
K 766.490 Radial†	18504.1	5026.1 ug/L	78.93	5026.1 ppb	78.93	1.57%	
QC value within limits for K 766.490 Radial Recovery = 100.52%							
Mg 279.077 IEC†	68.1	5358.1 ug/L	94.88	5358.1 ppb	94.88	1.77%	
QC value within limits for Mg 279.077 IEC Recovery = 107.16%							
Mn 257.610†	273223.2	500.65 ug/L	2.048	500.65 ppb	2.048	0.41%	
QC value within limits for Mn 257.610 Recovery = 100.13%							
Mo 202.031†	3774.0	493.92 ug/L	5.735	493.92 ppb	5.735	1.16%	
QC value within limits for Mo 202.031 Recovery = 98.78%							
Na 589.592 Radial†	18298.9	11127 ug/L	155.4	11127 ppb	155.4	1.40%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 111.27%							
Ni 231.604†	10709.3	488.27 ug/L	6.276	488.27 ppb	6.276	1.29%	
QC value within limits for Ni 231.604 Recovery = 97.65%							
P 214.914†	2269.0	2314.6 ug/L	34.04	2314.6 ppb	34.04	1.47%	
QC value within limits for P 214.914 Recovery = 92.58%							
Pb 220.353†	2182.3	493.44 ug/L	5.340	493.44 ppb	5.340	1.08%	
QC value within limits for Pb 220.353 Recovery = 98.69%							
S 181.975 Axial†	377.5	969.43 ug/L	21.816	969.43 ppb	21.816	2.25%	
QC value within limits for S 181.975 Axial Recovery = 96.94%							
Sb 206.836†	826.8	505.07 ug/L	7.226	505.07 ppb	7.226	1.43%	
QC value within limits for Sb 206.836 Recovery = 101.01%							
Se 196.026†	407.2	512.48 ug/L	7.975	512.48 ppb	7.975	1.56%	
QC value within limits for Se 196.026 Recovery = 102.50%							
Si 251.611†	46767.0	2496.1 ug/L	12.24	2496.1 ppb	12.24	0.49%	
QC value within limits for Si 251.611 Recovery = 99.84%							
Sn 189.927†	1479.9	489.81 ug/L	6.944	489.81 ppb	6.944	1.42%	
QC value within limits for Sn 189.927 Recovery = 97.96%							
Sr 421.552†	40706.5	535.82 ug/L	8.055	535.82 ppb	8.055	1.50%	
QC value within limits for Sr 421.552 Recovery = 107.16%							
Ti 334.940†	211263.1	498.57 ug/L	1.923	498.57 ppb	1.923	0.39%	
QC value within limits for Ti 334.940 Recovery = 99.71%							
Tl 190.801†	887.9	491.87 ug/L	1.219	491.87 ppb	1.219	0.25%	
QC value within limits for Tl 190.801 Recovery = 98.37%							
U 409.014†	12098.5	487.37 ug/L	0.632	487.37 ppb	0.632	0.13%	
QC value within limits for U 409.014 Recovery = 97.47%							
V 292.402†	45451.0	503.77 ug/L	1.763	503.77 ppb	1.763	0.35%	
QC value within limits for V 292.402 Recovery = 100.75%							
Zn 213.857†	29044.4	495.00 ug/L	2.369	495.00 ppb	2.369	0.48%	
QC value within limits for Zn 213.857 Recovery = 99.00%							
SiO2†	46536.5	5171.4 ug/L	53.80	5171.4 ppb	53.80	1.04%	
QC value within limits for SiO2 Recovery = 96.71%							
QC Failed. Continue with analysis.							

Sequence No.: 34
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 4/12/2010 22:48:44
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	2556.0	2556.0	97.5 %		22:50:55
1	Y RADIAL	2859.5	2859.5	98.00 %		22:50:55
1	Al 396.153Radial†	-73.8	0.6	0.8839 ug/L	0.8839 ppb	22:50:55
1	Ca 317.933Radial†	9.6	-1.6	-5.4152 ug/L	-5.4152 ppb	22:50:55
1	Fe 238.204 Radial†	6.6	0.6	15.749 ug/L	15.749 ppb	22:50:55
1	K 766.490 Radial†	2456.9	78.0	21.237 ug/L	21.237 ppb	22:50:35
1	Mg 279.077 IEC†	0.7	0.5	42.744 ug/L	42.744 ppb	22:50:55
1	Na 589.592 Radial†	-986.5	-67.4	-41.006 ug/L	-41.006 ppb	22:50:35
1	Sr 421.552†	7.0	-9.8	-0.1291 ug/L	-0.1291 ppb	22:50:35
1	Sc 361.383	600289.4	600289.4	100.06 %		22:51:52
1	Y 371.029	506215.1	506215.1	100.26 %		22:51:52
1	Ag 328.068†	174.7	92.7	0.6371 ug/L	0.6371 ppb	22:51:52
1	As 188.979†	-24.0	-6.3	-4.9599 ug/L	-4.9599 ppb	22:52:12
1	B 249.677†	-240.5	98.8	3.8126 ug/L	3.8126 ppb	22:52:12
1	Ba 233.527†	4.7	-6.4	-0.0851 ug/L	-0.0851 ppb	22:52:12
1	Be 313.107†	-3131.6	137.0	0.0803 ug/L	0.0803 ppb	22:51:52
1	Cd 226.502†	-155.2	6.6	0.1387 ug/L	0.1387 ppb	22:52:12
1	Co 228.616†	-31.6	-2.5	-0.0946 ug/L	-0.0946 ppb	22:52:12
1	Cr 267.716†	80.1	2.1	0.0404 ug/L	0.0404 ppb	22:52:12
1	Cu 324.752†	5172.5	3.6	0.0136 ug/L	0.0136 ppb	22:51:52
1	Mn 257.610†	413.3	64.7	0.1185 ug/L	0.1185 ppb	22:52:12
1	Mo 202.031†	13.9	2.5	0.3328 ug/L	0.3328 ppb	22:52:12
1	Ni 231.604†	81.2	3.4	0.1562 ug/L	0.1562 ppb	22:52:12
1	P 214.914†	164.2	2.0	2.1249 ug/L	2.1249 ppb	22:52:12
1	Pb 220.353†	-41.8	2.3	0.5282 ug/L	0.5282 ppb	22:52:12
1	S 181.975 Axial†	22.3	-0.4	-1.1053 ug/L	-1.1053 ppb	22:52:12
1	Sb 206.836†	26.5	1.0	0.6382 ug/L	0.6382 ppb	22:52:12
1	Se 196.026†	-17.4	-2.7	-3.1785 ug/L	-3.1785 ppb	22:52:12
1	Si 251.611†	461.4	102.4	5.4767 ug/L	5.4767 ppb	22:52:12
1	Sn 189.927†	12.5	5.6	1.8431 ug/L	1.8431 ppb	22:52:12
1	Ti 334.940†	-973.9	73.8	0.1675 ug/L	0.1675 ppb	22:51:52
1	Tl 190.801†	-23.0	4.1	2.2365 ug/L	2.2365 ppb	22:52:12
1	U 409.014†	-1137.0	141.5	5.7237 ug/L	5.7237 ppb	22:51:52
1	V 292.402†	-1289.5	-41.1	-0.4354 ug/L	-0.4354 ppb	22:51:52
1	Zn 213.857†	509.0	1.5	0.0225 ug/L	0.0225 ppb	22:52:12
1	SiO2†	460.5	107.8	11.999 ug/L	11.999 ppb	22:53:23
2	Sc Radial	2591.9	2591.9	98.9 %		22:51:21
2	Y RADIAL	2908.5	2908.5	99.68 %		22:51:21
2	Al 396.153Radial†	-61.8	13.8	19.295 ug/L	19.295 ppb	22:51:21
2	Ca 317.933Radial†	8.4	-3.0	-9.9238 ug/L	-9.9238 ppb	22:51:21
2	Fe 238.204 Radial†	10.2	4.2	106.40 ug/L	106.40 ppb	22:51:21
2	K 766.490 Radial†	2489.1	75.7	20.600 ug/L	20.600 ppb	22:51:00
2	Mg 279.077 IEC†	0.2	0.0	0.1948 ug/L	0.1948 ppb	22:51:21
2	Na 589.592 Radial†	-987.2	-54.2	-32.928 ug/L	-32.928 ppb	22:51:00
2	Sr 421.552†	19.7	2.9	0.0381 ug/L	0.0381 ppb	22:51:00
2	Sc 361.383	602843.1	602843.1	100.48 %		22:52:18
2	Y 371.029	509002.4	509002.4	100.81 %		22:52:18
2	Ag 328.068†	210.1	127.2	0.9091 ug/L	0.9091 ppb	22:52:18
2	As 188.979†	-19.9	-2.2	-1.6788 ug/L	-1.6788 ppb	22:52:38
2	B 249.677†	-254.8	85.6	3.2855 ug/L	3.2855 ppb	22:52:38
2	Ba 233.527†	28.5	17.2	0.2328 ug/L	0.2328 ppb	22:52:38
2	Be 313.107†	-3116.1	165.6	0.0970 ug/L	0.0970 ppb	22:52:18
2	Cd 226.502†	-151.0	11.4	0.2309 ug/L	0.2309 ppb	22:52:38
2	Co 228.616†	-31.5	-2.4	-0.0909 ug/L	-0.0909 ppb	22:52:38
2	Cr 267.716†	79.9	1.6	0.0503 ug/L	0.0503 ppb	22:52:38
2	Cu 324.752†	5214.1	23.1	0.1103 ug/L	0.1103 ppb	22:52:18
2	Mn 257.610†	421.0	70.6	0.1420 ug/L	0.1420 ppb	22:52:38
2	Mo 202.031†	11.7	0.3	0.0509 ug/L	0.0509 ppb	22:52:38
2	Ni 231.604†	81.5	3.4	0.1555 ug/L	0.1555 ppb	22:52:38

2	P 214.914†	163.3	0.4	0.3446 ug/L	0.3446 ppb	22:52:38
2	Pb 220.353†	-43.8	0.6	0.1233 ug/L	0.1233 ppb	22:52:38
2	S 181.975 Axial†	24.0	1.2	3.1114 ug/L	3.1114 ppb	22:52:38
2	Sb 206.836†	28.4	2.8	1.6550 ug/L	1.6550 ppb	22:52:38
2	Se 196.026†	-20.1	-5.4	-6.0764 ug/L	-6.0764 ppb	22:52:38
2	Si 251.611†	451.0	90.2	4.8237 ug/L	4.8237 ppb	22:52:38
2	Sn 189.927†	7.8	0.9	0.2898 ug/L	0.2898 ppb	22:52:38
2	Ti 334.940†	-978.3	73.6	0.1731 ug/L	0.1731 ppb	22:52:18
2	Tl 190.801†	-30.6	-3.4	-1.8860 ug/L	-1.8860 ppb	22:52:38
2	U 409.014†	-1316.9	-32.6	-1.3413 ug/L	-1.3413 ppb	22:52:18
2	V 292.402†	-1223.2	30.3	0.3153 ug/L	0.3153 ppb	22:52:18
2	Zn 213.857†	526.2	16.5	0.2648 ug/L	0.2648 ppb	22:52:38
2	SiO2†	451.6	97.0	10.811 ug/L	10.811 ppb	22:53:43
3	Sc Radial	2670.5	2670.5	102 %		22:51:46
3	Y RADIAL	2981.6	2981.6	102.2 %		22:51:46
3	Al 396.153Radial†	-75.1	2.6	3.6027 ug/L	3.6027 ppb	22:51:46
3	Ca 317.933Radial†	12.3	0.6	1.8317 ug/L	1.8317 ppb	22:51:46
3	Fe 238.204 Radial†	8.2	1.9	49.780 ug/L	49.780 ppb	22:51:46
3	K 766.490 Radial†	2599.8	110.3	30.024 ug/L	30.024 ppb	22:51:26
3	Mg 279.077 IEC†	2.3	2.1	163.48 ug/L	163.48 ppb	22:51:46
3	Na 589.592 Radial†	-1046.9	-83.4	-50.708 ug/L	-50.708 ppb	22:51:26
3	Sr 421.552†	9.9	-7.3	-0.0961 ug/L	-0.0961 ppb	22:51:26
3	Sc 361.383	601898.0	601898.0	100.33 %		22:52:43
3	Y 371.029	507875.2	507875.2	100.59 %		22:52:43
3	Ag 328.068†	86.1	3.9	0.0429 ug/L	0.0429 ppb	22:52:43
3	As 188.979†	-17.6	0.2	0.1351 ug/L	0.1351 ppb	22:53:03
3	B 249.677†	-288.1	52.0	1.9982 ug/L	1.9982 ppb	22:53:03
3	Ba 233.527†	7.0	-4.2	-0.0523 ug/L	-0.0523 ppb	22:53:03
3	Be 313.107†	-3192.8	84.3	0.0495 ug/L	0.0495 ppb	22:52:43
3	Cd 226.502†	-171.5	-9.3	-0.2023 ug/L	-0.2023 ppb	22:53:03
3	Co 228.616†	-26.5	2.6	0.0979 ug/L	0.0979 ppb	22:53:03
3	Cr 267.716†	63.0	-15.1	-0.2800 ug/L	-0.2800 ppb	22:53:03
3	Cu 324.752†	5278.4	95.3	0.4239 ug/L	0.4239 ppb	22:52:43
3	Mn 257.610†	385.4	35.8	0.0647 ug/L	0.0647 ppb	22:53:03
3	Mo 202.031†	10.8	-0.6	-0.0734 ug/L	-0.0734 ppb	22:53:03
3	Ni 231.604†	86.2	8.2	0.3733 ug/L	0.3733 ppb	22:53:03
3	P 214.914†	154.3	-8.3	-9.0610 ug/L	-9.0610 ppb	22:53:03
3	Pb 220.353†	-52.4	-8.1	-1.8218 ug/L	-1.8218 ppb	22:53:03
3	S 181.975 Axial†	22.2	-0.5	-1.3277 ug/L	-1.3277 ppb	22:53:03
3	Sb 206.836†	20.2	-5.4	-3.1549 ug/L	-3.1549 ppb	22:53:03
3	Se 196.026†	-17.6	-2.9	-3.3124 ug/L	-3.3124 ppb	22:53:03
3	Si 251.611†	454.5	94.3	5.0463 ug/L	5.0463 ppb	22:53:03
3	Sn 189.927†	8.4	1.5	0.5100 ug/L	0.5100 ppb	22:53:03
3	Ti 334.940†	-986.8	63.6	0.1372 ug/L	0.1372 ppb	22:52:43
3	Tl 190.801†	-19.1	8.0	4.4065 ug/L	4.4065 ppb	22:53:03
3	U 409.014†	-1295.2	-13.1	-0.5379 ug/L	-0.5379 ppb	22:52:43
3	V 292.402†	-1222.1	29.5	0.3169 ug/L	0.3169 ppb	22:52:43
3	Zn 213.857†	508.9	0.1	-0.0088 ug/L	-0.0088 ppb	22:53:03
3	SiO2†	485.0	131.0	14.602 ug/L	14.602 ppb	22:54:03

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	601676.8	100.29 %	0.215			0.21%
Sc Radial	2606.1	99.4 %	2.23			2.25%
Y 371.029	507697.6	100.55 %	0.278			0.28%
Y RADIAL	2916.5	99.96 %	2.106			2.11%
Ag 328.068†	74.6	0.5297 ug/L	0.44296	0.5297 ppb	0.44296	83.62%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.7	7.9272 ug/L	9.93822	7.9272 ppb	9.93822	125.37%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.8	-2.1679 ug/L	2.58246	-2.1679 ppb	2.58246	119.12%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	78.8	3.0321 ug/L	0.93338	3.0321 ppb	0.93338	30.78%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.2	0.0318 ug/L	0.17487	0.0318 ppb	0.17487	549.56%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	129.0	0.0756 ug/L	0.02410	0.0756 ppb	0.02410	31.88%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.4	-4.5024 ug/L	5.93063	-4.5024 ppb	5.93063	131.72%

	QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	2.9	0.0557 ug/L	0.22822	0.0557 ppb
	QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	-0.8	-0.0292 ug/L	0.11006	-0.0292 ppb
	QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-3.8	-0.0631 ug/L	0.18792	-0.0631 ppb
	QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	40.7	0.1826 ug/L	0.21447	0.1826 ppb
	QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.2	57.310 ug/L	45.7929	57.310 ppb
	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	88.0	23.954 ug/L	5.2665	23.954 ppb
	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	0.9	68.806 ug/L	84.7047	68.806 ppb
	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	57.0	0.1084 ug/L	0.03959	0.1084 ppb
	QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	0.8	0.1034 ug/L	0.20812	0.1034 ppb
	QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-68.3	-41.547 ug/L	8.9026	-41.547 ppb
	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	5.0	0.2283 ug/L	0.12557	0.2283 ppb
	QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-2.0	-2.1972 ug/L	6.01052	-2.1972 ppb
	QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	-1.7	-0.3901 ug/L	1.25633	-0.3901 ppb
	QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	0.1	0.2261 ug/L	2.50120	0.2261 ppb
	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-0.5	-0.2873 ug/L	2.53500	-0.2873 ppb
	QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	-3.7	-4.1891 ug/L	1.63581	-4.1891 ppb
	QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	95.6	5.1156 ug/L	0.33200	5.1156 ppb
	QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	2.7	0.8810 ug/L	0.84043	0.8810 ppb
	QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	-4.7	-0.0624 ug/L	0.08856	-0.0624 ppb
	QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	70.3	0.1593 ug/L	0.01931	0.1593 ppb
	QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	2.9	1.5856 ug/L	3.19633	1.5856 ppb
	QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	31.9	1.2815 ug/L	3.86793	1.2815 ppb
	QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	6.2	0.0656 ug/L	0.43388	0.0656 ppb
	QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	6.0	0.0928 ug/L	0.14974	0.0928 ppb
	QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	112.0	12.471 ug/L	1.9391	12.471 ppb
	QC value within limits for SiO2	Recovery = Not calculated		

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/31/2010 12:27:29

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110A

Results Library: C:\pe\optima4\Results\Results.mdb
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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 3/31/2010 9:19:33

IEC File: 031810.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/31/2010 12:27:31

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	147347.8	147347.8	99.5 %		12:28:01
1	Al 396.153Radial†	-46.8	-47.0	[0.00] µg/L		12:28:21
1	Ca 317.933Radial†	598.9	601.9	[0.00] µg/L		12:28:21
1	Fe 238.204 Radial†	142.5	143.2	[0.00] µg/L		12:28:21

1	K 766.490 Radial†	1646.7	1654.9	[0.00]	µg/L	12:28:01
1	Mg 279.077 IEC†	174.4	175.3	[0.00]	µg/L	12:28:21
1	Na 589.592 Radial†	1333.1	1339.8	[0.00]	µg/L	12:28:01
1	Sr 421.552†	-374.2	-376.1	[0.00]	µg/L	12:28:01
1	Sc 361.383	1761231.5	1761231.5	100.61	%	12:29:09
1	Y 371.029	1060287.1	1060287.1	100.56	%	12:29:09
1	Ag 328.068†	3816.4	3793.3	[0.00]	µg/L	12:29:11
1	As 188.979†	-12.0	-11.9	[0.00]	µg/L	12:29:31
1	B 249.677†	3306.0	3286.0	[0.00]	µg/L	12:29:31
1	Ba 233.527†	-171.9	-170.8	[0.00]	µg/L	12:29:31
1	Be 313.107†	-851.2	-846.0	[0.00]	µg/L	12:29:11
1	Cd 226.502†	-104.8	-104.1	[0.00]	µg/L	12:29:31
1	Co 228.616†	-158.4	-157.5	[0.00]	µg/L	12:29:31
1	Cr 267.716†	165.7	164.7	[0.00]	µg/L	12:29:31
1	Cu 324.752†	2769.8	2753.0	[0.00]	µg/L	12:29:11
1	Mn 257.610†	225.6	224.2	[0.00]	µg/L	12:29:31
1	Mo 202.031†	-22.0	-21.9	[0.00]	µg/L	12:29:31
1	Ni 231.604†	-91.8	-91.2	[0.00]	µg/L	12:29:31
1	P 214.914†	-21.1	-21.0	[0.00]	µg/L	12:29:31
1	Pb 220.353†	64.1	63.7	[0.00]	µg/L	12:29:31
1	S 181.975 Axial†	100.7	100.1	[0.00]	µg/L	12:29:31
1	Sb 206.836†	78.9	78.4	[0.00]	µg/L	12:29:31
1	Se 196.026†	4.1	4.1	[0.00]	µg/L	12:29:31
1	SiO2†	1731.2	1720.7	[0.00]	µg/L	12:29:31
1	Si 251.611†	894.9	889.5	[0.00]	µg/L	12:29:11
1	Sn 189.927†	1.7	1.7	[0.00]	µg/L	12:29:31
1	Ti 334.940†	825.0	820.0	[0.00]	µg/L	12:29:11
1	Tl 190.801†	-115.2	-114.6	[0.00]	µg/L	12:29:31
1	U 409.014†	-169.2	-168.1	[0.00]	µg/L	12:29:11
1	V 292.402†	307.3	305.4	[0.00]	µg/L	12:29:11
1	Zn 213.857†	544.3	541.0	[0.00]	µg/L	12:29:31
2	Sc RADIAL	149782.7	149782.7	101	%	12:28:23
2	Al 396.153Radial†	-68.5	-67.7	[0.00]	µg/L	12:28:44
2	Ca 317.933Radial†	618.4	611.3	[0.00]	µg/L	12:28:44
2	Fe 238.204 Radial†	141.0	139.4	[0.00]	µg/L	12:28:44
2	K 766.490 Radial†	1540.5	1523.1	[0.00]	µg/L	12:28:23
2	Mg 279.077 IEC†	179.2	177.1	[0.00]	µg/L	12:28:44
2	Na 589.592 Radial†	1369.6	1354.1	[0.00]	µg/L	12:28:23
2	Sr 421.552†	-165.0	-163.1	[0.00]	µg/L	12:28:23
2	Sc 361.383	1740269.8	1740269.8	99.411	%	12:29:34
2	Y 371.029	1048627.1	1048627.1	99.454	%	12:29:34
2	Ag 328.068†	3713.3	3735.3	[0.00]	µg/L	12:29:36
2	As 188.979†	-23.0	-23.1	[0.00]	µg/L	12:29:56
2	B 249.677†	3265.9	3285.3	[0.00]	µg/L	12:29:56
2	Ba 233.527†	-151.3	-152.2	[0.00]	µg/L	12:29:56
2	Be 313.107†	-826.3	-831.2	[0.00]	µg/L	12:29:36
2	Cd 226.502†	-86.1	-86.6	[0.00]	µg/L	12:29:56
2	Co 228.616†	-185.8	-186.9	[0.00]	µg/L	12:29:56
2	Cr 267.716†	148.7	149.5	[0.00]	µg/L	12:29:56
2	Cu 324.752†	2888.6	2905.7	[0.00]	µg/L	12:29:36
2	Mn 257.610†	199.4	200.6	[0.00]	µg/L	12:29:56
2	Mo 202.031†	-19.3	-19.4	[0.00]	µg/L	12:29:56
2	Ni 231.604†	-76.6	-77.0	[0.00]	µg/L	12:29:56
2	P 214.914†	-13.4	-13.5	[0.00]	µg/L	12:29:56
2	Pb 220.353†	68.3	68.7	[0.00]	µg/L	12:29:56
2	S 181.975 Axial†	107.0	107.6	[0.00]	µg/L	12:29:56
2	Sb 206.836†	63.8	64.2	[0.00]	µg/L	12:29:56
2	Se 196.026†	11.8	11.9	[0.00]	µg/L	12:29:56
2	SiO2†	1714.6	1724.8	[0.00]	µg/L	12:29:56
2	Si 251.611†	909.1	914.5	[0.00]	µg/L	12:29:36
2	Sn 189.927†	3.1	3.1	[0.00]	µg/L	12:29:56
2	Ti 334.940†	792.8	797.4	[0.00]	µg/L	12:29:36
2	Tl 190.801†	-117.9	-118.6	[0.00]	µg/L	12:29:56
2	U 409.014†	-218.5	-219.8	[0.00]	µg/L	12:29:36
2	V 292.402†	273.6	275.3	[0.00]	µg/L	12:29:36
2	Zn 213.857†	524.1	527.2	[0.00]	µg/L	12:29:56
3	Sc RADIAL	147125.2	147125.2	99.4	%	12:28:46
3	Al 396.153Radial†	-68.6	-69.0	[0.00]	µg/L	12:29:06
3	Ca 317.933Radial†	604.4	608.4	[0.00]	µg/L	12:29:06
3	Fe 238.204 Radial†	127.1	127.9	[0.00]	µg/L	12:29:06
3	K 766.490 Radial†	1461.8	1471.4	[0.00]	µg/L	12:28:46

3	Mg 279.077 IEC†	194.6	195.8	[0.00]	µg/L	12:29:06
3	Na 589.592 Radial†	1255.0	1263.2	[0.00]	µg/L	12:28:46
3	Sr 421.552†	-293.3	-295.2	[0.00]	µg/L	12:28:46
3	Sc 361.383	1750219.6	1750219.6	99.980	%	12:29:58
3	Y 371.029	1054229.9	1054229.9	99.986	%	12:29:58
3	Ag 328.068†	3705.1	3705.9	[0.00]	µg/L	12:30:00
3	As 188.979†	-16.3	-16.3	[0.00]	µg/L	12:30:20
3	B 249.677†	3276.6	3277.2	[0.00]	µg/L	12:30:20
3	Ba 233.527†	-140.3	-140.3	[0.00]	µg/L	12:30:20
3	Be 313.107†	-856.6	-856.8	[0.00]	µg/L	12:30:00
3	Cd 226.502†	-115.6	-115.6	[0.00]	µg/L	12:30:20
3	Co 228.616†	-157.1	-157.2	[0.00]	µg/L	12:30:20
3	Cr 267.716†	170.5	170.5	[0.00]	µg/L	12:30:20
3	Cu 324.752†	2861.6	2862.2	[0.00]	µg/L	12:30:00
3	Mn 257.610†	223.4	223.5	[0.00]	µg/L	12:30:20
3	Mo 202.031†	-16.8	-16.8	[0.00]	µg/L	12:30:20
3	Ni 231.604†	-78.6	-78.6	[0.00]	µg/L	12:30:20
3	P 214.914†	-6.4	-6.4	[0.00]	µg/L	12:30:20
3	Pb 220.353†	92.0	92.0	[0.00]	µg/L	12:30:20
3	S 181.975 Axial†	104.9	104.9	[0.00]	µg/L	12:30:20
3	Sb 206.836†	77.0	77.0	[0.00]	µg/L	12:30:20
3	Se 196.026†	21.8	21.8	[0.00]	µg/L	12:30:20
3	SiO2†	1682.0	1682.3	[0.00]	µg/L	12:30:20
3	Si 251.611†	857.9	858.1	[0.00]	µg/L	12:30:00
3	Sn 189.927†	-5.7	-5.7	[0.00]	µg/L	12:30:20
3	Ti 334.940†	660.3	660.4	[0.00]	µg/L	12:30:00
3	Tl 190.801†	-106.4	-106.5	[0.00]	µg/L	12:30:20
3	U 409.014†	-258.9	-258.9	[0.00]	µg/L	12:30:00
3	V 292.402†	364.2	364.3	[0.00]	µg/L	12:30:00
3	Zn 213.857†	521.9	522.0	[0.00]	µg/L	12:30:20

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1750573.6	10485.29	0.60%	100.00 %
Sc RADIAL	148085.2	1474.29	1.00%	100 %
Y 371.029	1054381.4	5831.45	0.55%	100.00 %
Ag 328.068†	3744.8	44.51	1.19%	[0.00] µg/L
Al 396.153Radial†	-61.3	12.37	20.19%	[0.00] µg/L
As 188.979†	-17.1	5.64	32.92%	[0.00] µg/L
B 249.677†	3282.8	4.87	0.15%	[0.00] µg/L
Ba 233.527†	-154.5	15.40	9.97%	[0.00] µg/L
Be 313.107†	-844.7	12.86	1.52%	[0.00] µg/L
Ca 317.933Radial†	607.2	4.81	0.79%	[0.00] µg/L
Cd 226.502†	-102.1	14.60	14.29%	[0.00] µg/L
Co 228.616†	-167.2	17.06	10.21%	[0.00] µg/L
Cr 267.716†	161.6	10.82	6.69%	[0.00] µg/L
Cu 324.752†	2840.3	78.64	2.77%	[0.00] µg/L
Fe 238.204 Radial†	136.9	7.97	5.82%	[0.00] µg/L
K 766.490 Radial†	1549.8	94.64	6.11%	[0.00] µg/L
Mg 279.077 IEC†	182.8	11.37	6.22%	[0.00] µg/L
Mn 257.610†	216.1	13.42	6.21%	[0.00] µg/L
Mo 202.031†	-19.4	2.51	12.95%	[0.00] µg/L
Na 589.592 Radial†	1319.0	48.88	3.71%	[0.00] µg/L
Ni 231.604†	-82.3	7.78	9.46%	[0.00] µg/L
P 214.914†	-13.6	7.31	53.72%	[0.00] µg/L
Pb 220.353†	74.8	15.13	20.23%	[0.00] µg/L
S 181.975 Axial†	104.2	3.81	3.66%	[0.00] µg/L
Sb 206.836†	73.2	7.87	10.74%	[0.00] µg/L
Se 196.026†	12.6	8.85	70.28%	[0.00] µg/L
SiO2†	1709.2	23.43	1.37%	[0.00] µg/L
Si 251.611†	887.3	28.28	3.19%	[0.00] µg/L
Sn 189.927†	-0.3	4.71	>999.9%	[0.00] µg/L
Sr 421.552†	-278.1	107.52	38.66%	[0.00] µg/L
Ti 334.940†	759.3	86.34	11.37%	[0.00] µg/L
Tl 190.801†	-113.2	6.19	5.47%	[0.00] µg/L
U 409.014†	-215.6	45.55	21.12%	[0.00] µg/L
V 292.402†	315.0	45.28	14.37%	[0.00] µg/L
Zn 213.857†	530.1	9.78	1.84%	[0.00] µg/L

Sequence No.: 2

Sample ID: S0.1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 3/31/2010 12:30:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	145011.9	145011.9	97.9 %	12:31:00
1	K 766.490 Radial†	3813.7	2344.8	[1000] µg/L	12:31:00
1	Sr 421.552†	44900.8	46130.5	[100] µg/L	12:31:00
1	Sc 361.383	1733168.1	1733168.1	99.006 %	12:31:22
1	Y 371.029	1040001.2	1040001.2	98.636 %	12:31:22
1	Ag 328.068†	28806.5	25350.9	[100] µg/L	12:31:24
1	As 188.979†	279.8	299.7	[100] µg/L	12:31:44
1	B 249.677†	9232.3	6042.2	[100] µg/L	12:31:24
1	Ba 233.527†	22918.0	23302.6	[100] µg/L	12:31:24
1	Be 313.107†	329078.9	333228.4	[100] µg/L	12:31:22
1	Cd 226.502†	14241.2	14486.3	[100] µg/L	12:31:24
1	Co 228.616†	7204.6	7444.1	[100] µg/L	12:31:44
1	Cr 267.716†	11804.6	11761.6	[100] µg/L	12:31:24
1	Cu 324.752†	26320.8	23744.9	[100] µg/L	12:31:24
1	Mn 257.610†	76567.5	77120.4	[100] µg/L	12:31:24
1	Mo 202.031†	3019.3	3069.0	[100] µg/L	12:31:44
1	Ni 231.604†	7981.6	8144.0	[100] µg/L	12:31:24
1	P 214.914†	2016.1	2049.9	[500] µg/L	12:31:44
1	Pb 220.353†	1686.8	1629.0	[100] µg/L	12:31:44
1	S 181.975 Axial†	331.7	230.9	[200] µg/L	12:31:44
1	Sb 206.836†	835.6	770.7	[100] µg/L	12:31:44
1	Se 196.026†	246.3	236.1	[100] µg/L	12:31:44
1	SiO2†	11469.3	9875.3	[1069.5] µg/L	12:31:24
1	Si 251.611†	31368.8	30796.5	[500] µg/L	12:31:24
1	Sn 189.927†	1421.7	1436.3	[100] µg/L	12:31:44
1	Ti 334.940†	98880.0	99113.8	[100] µg/L	12:31:24
1	Tl 190.801†	634.2	753.8	[100] µg/L	12:31:44
1	U 409.014†	1401.2	1630.9	[100] µg/L	12:31:24
1	V 292.402†	18803.3	18677.2	[100] µg/L	12:31:24
1	Zn 213.857†	16719.9	16357.7	[100] µg/L	12:31:24
2	Sc RADIAL	146833.6	146833.6	99.2 %	12:31:02
2	K 766.490 Radial†	3988.5	2472.7	[1000] µg/L	12:31:02
2	Sr 421.552†	44982.2	45643.7	[100] µg/L	12:31:02
2	Sc 361.383	1749627.0	1749627.0	99.946 %	12:31:46
2	Y 371.029	1051113.1	1051113.1	99.690 %	12:31:46
2	Ag 328.068†	28424.7	24695.3	[100] µg/L	12:31:48
2	As 188.979†	268.7	286.0	[100] µg/L	12:32:08
2	B 249.677†	9096.9	5819.0	[100] µg/L	12:31:48
2	Ba 233.527†	22640.3	22807.0	[100] µg/L	12:31:48
2	Be 313.107†	323236.5	324256.1	[100] µg/L	12:31:46
2	Cd 226.502†	14159.7	14269.5	[100] µg/L	12:31:48
2	Co 228.616†	7153.2	7324.2	[100] µg/L	12:32:08
2	Cr 267.716†	11783.9	11628.7	[100] µg/L	12:31:48
2	Cu 324.752†	26361.3	23535.3	[100] µg/L	12:31:48
2	Mn 257.610†	75814.8	75639.7	[100] µg/L	12:31:48
2	Mo 202.031†	3019.0	3040.0	[100] µg/L	12:32:08
2	Ni 231.604†	7813.6	7900.1	[100] µg/L	12:31:48
2	P 214.914†	1993.4	2008.1	[500] µg/L	12:32:08
2	Pb 220.353†	1650.4	1576.5	[100] µg/L	12:32:08
2	S 181.975 Axial†	337.8	233.8	[200] µg/L	12:32:08
2	Sb 206.836†	818.5	745.7	[100] µg/L	12:32:08
2	Se 196.026†	257.0	244.5	[100] µg/L	12:32:08
2	SiO2†	11325.0	9621.9	[1069.5] µg/L	12:31:48
2	Si 251.611†	30881.3	30010.7	[500] µg/L	12:31:48
2	Sn 189.927†	1421.2	1422.3	[100] µg/L	12:32:08
2	Ti 334.940†	97853.2	97146.9	[100] µg/L	12:31:48
2	Tl 190.801†	638.3	751.9	[100] µg/L	12:32:08
2	U 409.014†	1476.3	1692.7	[100] µg/L	12:31:48
2	V 292.402†	18611.0	18306.1	[100] µg/L	12:31:48

2	Zn 213.857†	16514.2	15993.1	[100]	µg/L	12:31:48
3	Sc RADIAL	146578.7	146578.7	99.0	%	12:31:04
3	K 766.490 Radial†	4086.4	2578.6	[1000]	µg/L	12:31:04
3	Sr 421.552†	45141.8	45883.8	[100]	µg/L	12:31:04
3	Sc 361.383	1738081.1	1738081.1	99.286	%	12:32:10
3	Y 371.029	1043842.7	1043842.7	99.000	%	12:32:10
3	Ag 328.068†	28412.2	24871.6	[100]	µg/L	12:32:12
3	As 188.979†	267.4	286.5	[100]	µg/L	12:32:32
3	B 249.677†	9332.2	6116.4	[100]	µg/L	12:32:12
3	Ba 233.527†	22835.5	23154.1	[100]	µg/L	12:32:12
3	Be 313.107†	329543.6	332756.9	[100]	µg/L	12:32:10
3	Cd 226.502†	14319.1	14524.2	[100]	µg/L	12:32:12
3	Co 228.616†	7234.7	7453.8	[100]	µg/L	12:32:32
3	Cr 267.716†	11869.1	11792.8	[100]	µg/L	12:32:12
3	Cu 324.752†	26430.8	23780.5	[100]	µg/L	12:32:12
3	Mn 257.610†	76276.0	76608.2	[100]	µg/L	12:32:12
3	Mo 202.031†	3048.7	3090.0	[100]	µg/L	12:32:32
3	Ni 231.604†	7944.8	8084.2	[100]	µg/L	12:32:12
3	P 214.914†	1986.8	2014.7	[500]	µg/L	12:32:32
3	Pb 220.353†	1729.0	1666.6	[100]	µg/L	12:32:32
3	S 181.975 Axial†	329.7	227.8	[200]	µg/L	12:32:32
3	Sb 206.836†	836.0	768.8	[100]	µg/L	12:32:32
3	Se 196.026†	252.1	241.3	[100]	µg/L	12:32:32
3	SiO2†	11503.7	9877.1	[1069.5]	µg/L	12:32:12
3	Si 251.611†	31097.8	30434.0	[500]	µg/L	12:32:12
3	Sn 189.927†	1416.8	1427.3	[100]	µg/L	12:32:32
3	Ti 334.940†	98923.1	98874.8	[100]	µg/L	12:32:12
3	Tl 190.801†	630.2	748.0	[100]	µg/L	12:32:32
3	U 409.014†	1444.9	1670.9	[100]	µg/L	12:32:12
3	V 292.402†	18758.5	18578.3	[100]	µg/L	12:32:12
3	Zn 213.857†	16537.0	16125.8	[100]	µg/L	12:32:12

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1740292.0	8449.27	0.49%	99.413 %
Sc RADIAL	146141.4	986.49	0.68%	98.7 %
Y 371.029	1044985.7	5643.43	0.54%	99.109 %
Ag 328.068†	24972.6	339.30	1.36%	[100] µg/L
As 188.979†	290.7	7.77	2.67%	[100] µg/L
B 249.677†	5992.5	154.82	2.58%	[100] µg/L
Ba 233.527†	23087.9	254.36	1.10%	[100] µg/L
Be 313.107†	330080.4	5049.55	1.53%	[100] µg/L
Cd 226.502†	14426.7	137.41	0.95%	[100] µg/L
Co 228.616†	7407.4	72.20	0.97%	[100] µg/L
Cr 267.716†	11727.7	87.17	0.74%	[100] µg/L
Cu 324.752†	23686.9	132.50	0.56%	[100] µg/L
K 766.490 Radial†	2465.3	117.11	4.75%	[1000] µg/L
Mn 257.610†	76456.1	751.95	0.98%	[100] µg/L
Mo 202.031†	3066.3	25.11	0.82%	[100] µg/L
Ni 231.604†	8042.8	127.14	1.58%	[100] µg/L
P 214.914†	2024.2	22.50	1.11%	[500] µg/L
Pb 220.353†	1624.0	45.23	2.79%	[100] µg/L
S 181.975 Axial†	230.8	2.95	1.28%	[200] µg/L
Sb 206.836†	761.7	13.91	1.83%	[100] µg/L
Se 196.026†	240.6	4.22	1.75%	[100] µg/L
SiO2†	9791.4	146.81	1.50%	[1069.5] µg/L
Si 251.611†	30413.7	393.30	1.29%	[500] µg/L
Sn 189.927†	1428.6	7.09	0.50%	[100] µg/L
Sr 421.552†	45886.0	243.41	0.53%	[100] µg/L
Ti 334.940†	98378.5	1073.29	1.09%	[100] µg/L
Tl 190.801†	751.2	2.96	0.39%	[100] µg/L
U 409.014†	1664.8	31.35	1.88%	[100] µg/L
V 292.402†	18520.5	192.18	1.04%	[100] µg/L
Zn 213.857†	16158.9	184.54	1.14%	[100] µg/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 3/31/2010 12:32:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	147285.4	147285.4	99.5 %	12:33:13
1	Al 396.153Radial†	25043.7	25241.0	[5000] µg/L	12:33:13
1	Ca 317.933Radial†	82539.2	82380.2	[5000] µg/L	12:33:13
1	K 766.490 Radial†	13690.0	12214.6	[5000] µg/L	12:33:13
1	Mg 279.077 IEC†	12480.8	12365.8	[5000] µg/L	12:33:13
1	Sr 421.552†	220879.3	222356.9	[500] µg/L	12:33:11
1	Sc 361.383	1718278.7	1718278.7	98.155 %	12:33:25
1	Y 371.029	1023922.6	1023922.6	97.111 %	12:33:25
1	Ag 328.068†	124267.2	122857.9	[500] µg/L	12:33:25
1	As 188.979†	1456.4	1500.9	[500] µg/L	12:33:46
1	B 249.677†	32803.7	30137.4	[500] µg/L	12:33:25
1	Ba 233.527†	111010.5	113251.4	[500] µg/L	12:33:25
1	Be 313.107†	1640060.3	1671729.8	[500] µg/L	12:33:25
1	Cd 226.502†	69981.5	71398.9	[500] µg/L	12:33:25
1	Co 228.616†	35869.7	36711.0	[500] µg/L	12:33:25
1	Cr 267.716†	56925.9	57834.2	[500] µg/L	12:33:25
1	Cu 324.752†	117617.9	116988.2	[500] µg/L	12:33:25
1	Mn 257.610†	363012.7	369619.4	[500] µg/L	12:33:25
1	Mo 202.031†	15300.2	15607.1	[500] µg/L	12:33:46
1	Ni 231.604†	38279.9	39081.6	[500] µg/L	12:33:25
1	P 214.914†	10233.5	10439.5	[2500] µg/L	12:33:46
1	Pb 220.353†	8086.8	8164.0	[500] µg/L	12:33:46
1	S 181.975 Axial†	1288.9	1209.0	[1000] µg/L	12:33:46
1	Sb 206.836†	3845.3	3844.4	[500] µg/L	12:33:46
1	Se 196.026†	1227.8	1238.3	[500] µg/L	12:33:46
1	SiO2†	51017.0	50266.6	[5347.5] µg/L	12:33:25
1	Si 251.611†	153933.1	155938.9	[2500] µg/L	12:33:25
1	Sn 189.927†	7106.7	7240.6	[500] µg/L	12:33:46
1	Ti 334.940†	483376.0	491701.7	[500] µg/L	12:33:25
1	Tl 190.801†	3535.2	3714.9	[500] µg/L	12:33:46
1	U 409.014†	7005.4	7352.7	[500] µg/L	12:33:25
1	V 292.402†	91297.3	92698.2	[500] µg/L	12:33:25
1	Zn 213.857†	79093.0	80049.5	[500] µg/L	12:33:25
2	Sc RADIAL	145452.7	145452.7	98.2 %	12:33:17
2	Al 396.153Radial†	24812.1	25322.4	[5000] µg/L	12:33:17
2	Ca 317.933Radial†	81053.3	81913.0	[5000] µg/L	12:33:17
2	K 766.490 Radial†	13519.2	12214.1	[5000] µg/L	12:33:17
2	Mg 279.077 IEC†	12304.5	12344.4	[5000] µg/L	12:33:17
2	Sr 421.552†	221523.3	225810.7	[500] µg/L	12:33:15
2	Sc 361.383	1727938.9	1727938.9	98.707 %	12:33:49
2	Y 371.029	1029083.9	1029083.9	97.601 %	12:33:49
2	Ag 328.068†	125069.3	122962.7	[500] µg/L	12:33:49
2	As 188.979†	1460.3	1496.5	[500] µg/L	12:34:09
2	B 249.677†	33222.1	30374.5	[500] µg/L	12:33:49
2	Ba 233.527†	111696.8	113314.4	[500] µg/L	12:33:49
2	Be 313.107†	1650187.9	1672648.7	[500] µg/L	12:33:49
2	Cd 226.502†	70638.5	71665.9	[500] µg/L	12:33:49
2	Co 228.616†	36168.4	36809.3	[500] µg/L	12:33:49
2	Cr 267.716†	57314.8	57904.0	[500] µg/L	12:33:49
2	Cu 324.752†	118201.9	116909.9	[500] µg/L	12:33:49
2	Mn 257.610†	365463.4	370034.6	[500] µg/L	12:33:49
2	Mo 202.031†	15337.8	15558.1	[500] µg/L	12:34:09
2	Ni 231.604†	38631.4	39219.7	[500] µg/L	12:33:49
2	P 214.914†	10322.9	10471.8	[2500] µg/L	12:34:09
2	Pb 220.353†	8133.9	8165.7	[500] µg/L	12:34:09
2	S 181.975 Axial†	1280.7	1193.3	[1000] µg/L	12:34:09
2	Sb 206.836†	3840.3	3817.4	[500] µg/L	12:34:09
2	Se 196.026†	1240.6	1244.3	[500] µg/L	12:34:09
2	SiO2†	51284.1	50246.7	[5347.5] µg/L	12:33:49

2	Si 251.611†	154796.5	155936.9	[2500]	µg/L	12:33:49
2	Sn 189.927†	7162.3	7256.4	[500]	µg/L	12:34:09
2	Ti 334.940†	485101.0	490696.2	[500]	µg/L	12:33:49
2	Tl 190.801†	3559.1	3719.0	[500]	µg/L	12:34:09
2	U 409.014†	6982.9	7290.0	[500]	µg/L	12:33:49
2	V 292.402†	91938.7	92828.1	[500]	µg/L	12:33:49
2	Zn 213.857†	79712.7	80226.9	[500]	µg/L	12:33:49
3	Sc RADIAL	147725.2	147725.2	99.8	%	12:33:21
3	Al 396.153Radial†	25179.3	25301.9	[5000]	µg/L	12:33:21
3	Ca 317.933Radial†	82859.4	82454.1	[5000]	µg/L	12:33:21
3	K 766.490 Radial†	13828.1	12312.1	[5000]	µg/L	12:33:21
3	Mg 279.077 IEC†	12516.5	12364.2	[5000]	µg/L	12:33:21
3	Sr 421.552†	219754.4	220568.1	[500]	µg/L	12:33:19
3	Sc 361.383	1735018.5	1735018.5	99.111	%	12:34:12
3	Y 371.029	1032457.5	1032457.5	97.921	%	12:34:12
3	Ag 328.068†	125020.4	122396.4	[500]	µg/L	12:34:12
3	As 188.979†	1457.7	1487.9	[500]	µg/L	12:34:32
3	B 249.677†	33238.2	30253.4	[500]	µg/L	12:34:12
3	Ba 233.527†	112061.5	113220.6	[500]	µg/L	12:34:12
3	Be 313.107†	1658859.4	1674576.4	[500]	µg/L	12:34:12
3	Cd 226.502†	70610.1	71345.3	[500]	µg/L	12:34:12
3	Co 228.616†	36198.0	36689.6	[500]	µg/L	12:34:12
3	Cr 267.716†	57575.6	57930.2	[500]	µg/L	12:34:12
3	Cu 324.752†	118815.4	117040.3	[500]	µg/L	12:34:12
3	Mn 257.610†	366417.3	369486.3	[500]	µg/L	12:34:12
3	Mo 202.031†	15265.5	15421.8	[500]	µg/L	12:34:32
3	Ni 231.604†	38753.6	39183.3	[500]	µg/L	12:34:12
3	P 214.914†	10238.8	10344.2	[2500]	µg/L	12:34:32
3	Pb 220.353†	8067.2	8064.7	[500]	µg/L	12:34:32
3	S 181.975 Axial†	1274.2	1181.4	[1000]	µg/L	12:34:32
3	Sb 206.836†	3835.5	3796.7	[500]	µg/L	12:34:32
3	Se 196.026†	1223.1	1221.4	[500]	µg/L	12:34:32
3	SiO2†	51582.3	50335.5	[5347.5]	µg/L	12:34:12
3	Si 251.611†	155308.7	155813.7	[2500]	µg/L	12:34:12
3	Sn 189.927†	7121.2	7185.3	[500]	µg/L	12:34:32
3	Ti 334.940†	488315.3	491933.9	[500]	µg/L	12:34:12
3	Tl 190.801†	3508.2	3652.8	[500]	µg/L	12:34:32
3	U 409.014†	7192.8	7472.9	[500]	µg/L	12:34:12
3	V 292.402†	92121.5	92632.4	[500]	µg/L	12:34:12
3	Zn 213.857†	80040.1	80227.7	[500]	µg/L	12:34:12

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1727078.7	8403.01	0.49%	98.658	%
Sc RADIAL	146821.1	1205.27	0.82%	99.1	%
Y 371.029	1028488.0	4298.53	0.42%	97.544	%
Ag 328.068†	122739.0	301.33	0.25%	[500]	µg/L
Al 396.153Radial†	25288.5	42.36	0.17%	[5000]	µg/L
As 188.979†	1495.1	6.59	0.44%	[500]	µg/L
B 249.677†	30255.1	118.54	0.39%	[500]	µg/L
Ba 233.527†	113262.1	47.81	0.04%	[500]	µg/L
Be 313.107†	1672985.0	1452.78	0.09%	[500]	µg/L
Ca 317.933Radial†	82249.1	293.42	0.36%	[5000]	µg/L
Cd 226.502†	71470.1	171.73	0.24%	[500]	µg/L
Co 228.616†	36736.6	63.82	0.17%	[500]	µg/L
Cr 267.716†	57889.5	49.58	0.09%	[500]	µg/L
Cu 324.752†	116979.5	65.63	0.06%	[500]	µg/L
K 766.490 Radial†	12246.9	56.41	0.46%	[5000]	µg/L
Mg 279.077 IEC†	12358.2	11.91	0.10%	[5000]	µg/L
Mn 257.610†	369713.4	285.99	0.08%	[500]	µg/L
Mo 202.031†	15529.0	96.03	0.62%	[500]	µg/L
Ni 231.604†	39161.5	71.57	0.18%	[500]	µg/L
P 214.914†	10418.5	66.30	0.64%	[2500]	µg/L
Pb 220.353†	8131.5	57.82	0.71%	[500]	µg/L
S 181.975 Axial†	1194.5	13.84	1.16%	[1000]	µg/L
Sb 206.836†	3819.5	23.90	0.63%	[500]	µg/L
Se 196.026†	1234.7	11.83	0.96%	[500]	µg/L
SiO2†	50282.9	46.62	0.09%	[5347.5]	µg/L
Si 251.611†	155896.5	71.69	0.05%	[2500]	µg/L

Sn 189.927†	7227.5	37.34	0.52%	[500]	µg/L
Sr 421.552†	222911.9	2665.01	1.20%	[500]	µg/L
Ti 334.940†	491443.9	657.90	0.13%	[500]	µg/L
Tl 190.801†	3695.6	37.06	1.00%	[500]	µg/L
U 409.014†	7371.9	92.97	1.26%	[500]	µg/L
V 292.402†	92719.6	99.55	0.11%	[500]	µg/L
Zn 213.857†	80168.0	102.62	0.13%	[500]	µg/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/31/2010 12:34:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	148810.3	148810.3	100 %		12:35:11
1	Al 396.153Radial†	50795.2	50609.0	[10000] µg/L		12:35:11
1	Ca 317.933Radial†	166854.1	165433.9	[10000] µg/L		12:35:11
1	Fe 238.204 Radial†	148733.6	147872.0	[10000] µg/L		12:35:11
1	K 766.490 Radial†	26382.7	24704.4	[10000] µg/L		12:35:11
1	Mg 279.077 IEC†	25119.8	24814.6	[10000] µg/L		12:35:11
1	Na 589.592 Radial†	68045.2	66394.7	[10000] µg/L		12:35:11
1	Sr 421.552†	443983.0	442097.9	[1000] µg/L		12:35:09
1	Sc 361.383	1741674.2	1741674.2	99.492 %		12:35:38
1	Y 371.029	1029925.0	1029925.0	97.681 %		12:35:38
1	Ag 328.068†	247654.4	245175.0	[1000] µg/L		12:35:40
1	As 188.979†	2920.2	2952.2	[1000] µg/L		12:36:00
1	B 249.677†	63364.4	60405.3	[1000] µg/L		12:35:40
1	Ba 233.527†	222459.6	223750.7	[1000] µg/L		12:35:40
1	Be 313.107†	3353277.1	3371255.9	[1000] µg/L		12:35:38
1	Cd 226.502†	140187.1	141005.5	[1000] µg/L		12:35:40
1	Co 228.616†	71605.3	72138.4	[1000] µg/L		12:35:40
1	Cr 267.716†	114358.2	114781.0	[1000] µg/L		12:35:40
1	Cu 324.752†	234585.1	232943.5	[1000] µg/L		12:35:40
1	Mn 257.610†	738424.4	741981.4	[1000] µg/L		12:35:38
1	Mo 202.031†	30562.3	30737.9	[1000] µg/L		12:36:00
1	Ni 231.604†	76640.8	77114.7	[1000] µg/L		12:35:40
1	P 214.914†	20551.0	20669.7	[5000] µg/L		12:36:00
1	Pb 220.353†	15937.4	15944.0	[1000] µg/L		12:36:00
1	S 181.975 Axial†	2461.1	2369.5	[2000] µg/L		12:36:00
1	Sb 206.836†	7584.7	7550.2	[1000] µg/L		12:36:00
1	Se 196.026†	2437.3	2437.2	[1000] µg/L		12:36:00
1	SiO2†	98723.7	97518.9	[10695] µg/L		12:35:40
1	Si 251.611†	302031.9	302687.8	[5000] µg/L		12:35:40
1	Sn 189.927†	14238.6	14311.6	[1000] µg/L		12:36:00
1	Ti 334.940†	987564.5	991851.4	[1000] µg/L		12:35:38
1	Tl 190.801†	7160.7	7310.5	[1000] µg/L		12:36:00
1	U 409.014†	15545.2	15840.2	[1000] µg/L		12:35:40
1	V 292.402†	184040.5	184666.0	[1000] µg/L		12:35:40
1	Zn 213.857†	157465.8	157740.3	[1000] µg/L		12:35:40
2	Sc RADIAL	146217.7	146217.7	98.7 %		12:35:15
2	Al 396.153Radial†	50051.8	50752.4	[10000] µg/L		12:35:15
2	Ca 317.933Radial†	164098.1	165586.8	[10000] µg/L		12:35:15
2	Fe 238.204 Radial†	146025.5	147753.8	[10000] µg/L		12:35:15
2	K 766.490 Radial†	26037.8	24820.6	[10000] µg/L		12:35:15
2	Mg 279.077 IEC†	24661.4	24793.7	[10000] µg/L		12:35:15
2	Na 589.592 Radial†	66957.1	66493.3	[10000] µg/L		12:35:15
2	Sr 421.552†	442401.3	448330.0	[1000] µg/L		12:35:13
2	Sc 361.383	1712167.4	1712167.4	97.806 %		12:36:03
2	Y 371.029	1013351.5	1013351.5	96.109 %		12:36:03
2	Ag 328.068†	247908.6	249724.6	[1000] µg/L		12:36:05
2	As 188.979†	2937.7	3020.7	[1000] µg/L		12:36:25
2	B 249.677†	63484.4	61625.6	[1000] µg/L		12:36:05
2	Ba 233.527†	223040.4	228197.9	[1000] µg/L		12:36:05
2	Be 313.107†	3279801.9	3354217.0	[1000] µg/L		12:36:03
2	Cd 226.502†	140260.9	143509.3	[1000] µg/L		12:36:05
2	Co 228.616†	71645.5	73419.7	[1000] µg/L		12:36:05
2	Cr 267.716†	114530.8	116938.3	[1000] µg/L		12:36:05
2	Cu 324.752†	234569.9	236991.3	[1000] µg/L		12:36:05
2	Mn 257.610†	722482.6	738472.7	[1000] µg/L		12:36:03
2	Mo 202.031†	30726.3	31435.0	[1000] µg/L		12:36:25
2	Ni 231.604†	76780.1	78584.7	[1000] µg/L		12:36:05
2	P 214.914†	20632.0	21108.4	[5000] µg/L		12:36:25
2	Pb 220.353†	16062.5	16348.0	[1000] µg/L		12:36:25

2	S 181.975 Axial†	2473.8	2425.1	[2000]	µg/L	12:36:25
2	Sb 206.836†	7631.8	7729.8	[1000]	µg/L	12:36:25
2	Se 196.026†	2461.2	2503.8	[1000]	µg/L	12:36:25
2	SiO2†	99027.3	99539.3	[10695]	µg/L	12:36:05
2	Si 251.611†	302190.9	308082.2	[5000]	µg/L	12:36:05
2	Sn 189.927†	14319.4	14640.9	[1000]	µg/L	12:36:25
2	Ti 334.940†	967812.7	988762.8	[1000]	µg/L	12:36:03
2	Tl 190.801†	7167.0	7441.0	[1000]	µg/L	12:36:25
2	U 409.014†	15591.5	16156.8	[1000]	µg/L	12:36:05
2	V 292.402†	184601.7	188427.6	[1000]	µg/L	12:36:05
2	Zn 213.857†	157988.2	161002.0	[1000]	µg/L	12:36:05
3	Sc RADIAL	146203.9	146203.9	98.7	%	12:35:19
3	Al 396.153Radial†	50166.2	50872.9	[10000]	µg/L	12:35:19
3	Ca 317.933Radial†	164379.3	165887.3	[10000]	µg/L	12:35:19
3	Fe 238.204 Radial†	146649.1	148399.3	[10000]	µg/L	12:35:19
3	K 766.490 Radial†	25981.5	24766.1	[10000]	µg/L	12:35:19
3	Mg 279.077 IEC†	24879.8	25017.1	[10000]	µg/L	12:35:19
3	Na 589.592 Radial†	66888.9	66430.6	[10000]	µg/L	12:35:19
3	Sr 421.552†	436200.3	442091.3	[1000]	µg/L	12:35:17
3	Sc 361.383	1731089.8	1731089.8	98.887	%	12:36:28
3	Y 371.029	1024102.3	1024102.3	97.128	%	12:36:28
3	Ag 328.068†	250245.5	249317.2	[1000]	µg/L	12:36:30
3	As 188.979†	2934.0	2984.1	[1000]	µg/L	12:36:50
3	B 249.677†	64272.2	61712.8	[1000]	µg/L	12:36:30
3	Ba 233.527†	225414.3	228105.8	[1000]	µg/L	12:36:30
3	Be 313.107†	3323024.9	3361271.1	[1000]	µg/L	12:36:28
3	Cd 226.502†	141863.6	143562.4	[1000]	µg/L	12:36:30
3	Co 228.616†	72137.5	73116.6	[1000]	µg/L	12:36:30
3	Cr 267.716†	115724.7	116865.7	[1000]	µg/L	12:36:30
3	Cu 324.752†	237297.1	237127.6	[1000]	µg/L	12:36:30
3	Mn 257.610†	731063.3	739075.5	[1000]	µg/L	12:36:28
3	Mo 202.031†	30565.7	30929.1	[1000]	µg/L	12:36:50
3	Ni 231.604†	77458.6	78412.7	[1000]	µg/L	12:36:30
3	P 214.914†	20520.1	20764.7	[5000]	µg/L	12:36:50
3	Pb 220.353†	15957.1	16061.9	[1000]	µg/L	12:36:50
3	S 181.975 Axial†	2465.4	2389.0	[2000]	µg/L	12:36:50
3	Sb 206.836†	7607.9	7620.3	[1000]	µg/L	12:36:50
3	Se 196.026†	2449.2	2464.2	[1000]	µg/L	12:36:50
3	SiO2†	100166.3	99584.4	[10695]	µg/L	12:36:30
3	Si 251.611†	305400.5	307950.5	[5000]	µg/L	12:36:30
3	Sn 189.927†	14203.3	14363.5	[1000]	µg/L	12:36:50
3	Ti 334.940†	978699.0	988955.3	[1000]	µg/L	12:36:28
3	Tl 190.801†	7138.4	7332.0	[1000]	µg/L	12:36:50
3	U 409.014†	15456.5	15846.1	[1000]	µg/L	12:36:30
3	V 292.402†	186312.9	188094.9	[1000]	µg/L	12:36:30
3	Zn 213.857†	159380.5	160644.3	[1000]	µg/L	12:36:30

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1728310.5	14948.47	0.86%	98.728 %
Sc RADIAL	147077.3	1500.83	1.02%	99.3 %
Y 371.029	1022459.6	8407.97	0.82%	96.972 %
Ag 328.068†	248072.3	2517.39	1.01%	[1000] µg/L
Al 396.153Radial†	50744.8	132.15	0.26%	[10000] µg/L
As 188.979†	2985.7	34.29	1.15%	[1000] µg/L
B 249.677†	61247.9	731.01	1.19%	[1000] µg/L
Ba 233.527†	226684.8	2541.43	1.12%	[1000] µg/L
Be 313.107†	3362248.0	8561.36	0.25%	[1000] µg/L
Ca 317.933Radial†	165636.0	230.66	0.14%	[10000] µg/L
Cd 226.502†	142692.4	1461.11	1.02%	[1000] µg/L
Co 228.616†	72891.6	669.67	0.92%	[1000] µg/L
Cr 267.716†	116195.0	1225.12	1.05%	[1000] µg/L
Cu 324.752†	235687.5	2377.35	1.01%	[1000] µg/L
Fe 238.204 Radial†	148008.4	343.69	0.23%	[10000] µg/L
K 766.490 Radial†	24763.7	58.13	0.23%	[10000] µg/L
Mg 279.077 IEC†	24875.1	123.42	0.50%	[10000] µg/L
Mn 257.610†	739843.2	1876.10	0.25%	[1000] µg/L
Mo 202.031†	31034.0	360.18	1.16%	[1000] µg/L
Na 589.592 Radial†	66439.5	49.91	0.08%	[10000] µg/L

Ni 231.604†	78037.3	803.68	1.03%	[1000]	µg/L
P 214.914†	20847.6	230.81	1.11%	[5000]	µg/L
Pb 220.353†	16118.0	207.72	1.29%	[1000]	µg/L
S 181.975 Axial†	2394.5	28.20	1.18%	[2000]	µg/L
Sb 206.836†	7633.4	90.51	1.19%	[1000]	µg/L
Se 196.026†	2468.4	33.54	1.36%	[1000]	µg/L
SiO2†	98880.9	1179.75	1.19%	[10695]	µg/L
Si 251.611†	306240.2	3077.14	1.00%	[5000]	µg/L
Sn 189.927†	14438.7	177.07	1.23%	[1000]	µg/L
Sr 421.552†	444173.1	3599.98	0.81%	[1000]	µg/L
Ti 334.940†	989856.5	1730.31	0.17%	[1000]	µg/L
Tl 190.801†	7361.2	69.93	0.95%	[1000]	µg/L
U 409.014†	15947.7	181.14	1.14%	[1000]	µg/L
V 292.402†	187062.8	2082.40	1.11%	[1000]	µg/L
Zn 213.857†	159795.5	1788.86	1.12%	[1000]	µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/31/2010 12:36:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	143256.5	143256.5	96.7 %	12:37:27
1	Al 396.153Radial†	242637.0	250876.8	[50000] µg/L	12:37:27
1	Ca 317.933Radial†	791772.7	817853.5	[50000] µg/L	12:37:27
1	Fe 238.204 Radial†	285452.7	294937.5	[20000] µg/L	12:37:27
1	Mg 279.077 IEC†	117385.3	121159.2	[50000] µg/L	12:37:27
1	Na 589.592 Radial†	130457.1	133535.3	[20000] µg/L	12:37:27
1	Sc 361.383	1673722.8	1673722.8	95.610 %	12:37:50
1	Y 371.029	991515.0	991515.0	94.038 %	12:37:50
2	Sc RADIAL	144137.1	144137.1	97.3 %	12:37:29
2	Al 396.153Radial†	244084.4	250831.5	[50000] µg/L	12:37:29
2	Ca 317.933Radial†	795789.3	816979.9	[50000] µg/L	12:37:29
2	Fe 238.204 Radial†	287251.7	294983.1	[20000] µg/L	12:37:29
2	Mg 279.077 IEC†	118113.2	121165.7	[50000] µg/L	12:37:29
2	Na 589.592 Radial†	130998.1	133267.3	[20000] µg/L	12:37:29
2	Sc 361.383	1683095.0	1683095.0	96.145 %	12:37:52
2	Y 371.029	996645.7	996645.7	94.524 %	12:37:52
3	Sc RADIAL	144683.3	144683.3	97.7 %	12:37:31
3	Al 396.153Radial†	244201.7	250004.9	[50000] µg/L	12:37:31
3	Ca 317.933Radial†	798455.6	816622.6	[50000] µg/L	12:37:31
3	Fe 238.204 Radial†	287944.6	294578.2	[20000] µg/L	12:37:31
3	Mg 279.077 IEC†	118366.4	120966.8	[50000] µg/L	12:37:31
3	Na 589.592 Radial†	131288.0	133056.0	[20000] µg/L	12:37:31
3	Sc 361.383	1669736.0	1669736.0	95.382 %	12:37:55
3	Y 371.029	990279.6	990279.6	93.920 %	12:37:55

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1675517.9	6858.03	0.41%	95.713 %
Sc RADIAL	144025.6	719.87	0.50%	97.3 %
Y 371.029	992813.4	3375.82	0.34%	94.161 %
Al 396.153Radial†	250571.0	490.83	0.20%	[50000] µg/L
Ca 317.933Radial†	817152.0	633.24	0.08%	[50000] µg/L
Fe 238.204 Radial†	294832.9	221.76	0.08%	[20000] µg/L
Mg 279.077 IEC†	121097.2	113.01	0.09%	[50000] µg/L
Na 589.592 Radial†	133286.2	240.21	0.18%	[20000] µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	247.6	0.00000	0.999991	
Al 396.153Radial	3	Lin Thru 0	0.0	5.014	0.00000	0.999997	
As 188.979	3	Lin Thru 0	0.0	2.986	0.00000	0.999997	
B 249.677	3	Lin Thru 0	0.0	61.09	0.00000	0.999987	
Ba 233.527	3	Lin Thru 0	0.0	226.7	0.00000	0.999999	
Be 313.107	3	Lin Thru 0	0.0	3359	0.00000	0.999997	
Ca 317.933Radial	3	Lin Thru 0	0.0	16.35	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	142.8	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	73.02	0.00000	0.999994	
Cr 267.716	3	Lin Thru 0	0.0	116.1	0.00000	0.999999	
Cu 324.752	3	Lin Thru 0	0.0	235.4	0.00000	0.999996	
Fe 238.204 Radia	2	Lin Thru 0	0.0	14.75	0.00000	0.999999	
K 766.490 Radial	3	Lin Thru 0	0.0	2.471	0.00000	0.999991	
Mg 279.077 IEC	3	Lin Thru 0	0.0	2.425	0.00000	0.999985	
Mn 257.610	3	Lin Thru 0	0.0	740.0	0.00000	0.999996	
Mo 202.031	3	Lin Thru 0	0.0	31.04	0.00000	0.999999	
Na 589.592 Radia	2	Lin Thru 0	0.0	6.660	0.00000	0.999999	

Ni 231.604	3	Lin Thru 0	0.0	78.11	0.00000	0.999995
P 214.914	3	Lin Thru 0	0.0	4.168	0.00000	0.999997
Pb 220.353	3	Lin Thru 0	0.0	16.15	0.00000	0.999993
S 181.975 Axial	3	Lin Thru 0	0.0	1.196	0.00000	0.999995
Sb 206.836	3	Lin Thru 0	0.0	7.634	0.00000	1.000000
Se 196.026	3	Lin Thru 0	0.0	2.468	0.00000	0.999997
SiO2	3	Lin Thru 0	0.0	9.276	0.00000	0.999976
Si 251.611	3	Lin Thru 0	0.0	61.47	0.00000	0.999974
Sn 189.927	3	Lin Thru 0	0.0	14.44	0.00000	0.999999
Sr 421.552	3	Lin Thru 0	0.0	444.6	0.00000	0.999995
Ti 334.940	3	Lin Thru 0	0.0	988.4	0.00000	0.999996
Tl 190.801	3	Lin Thru 0	0.0	7.368	0.00000	0.999997
U 409.014	3	Lin Thru 0	0.0	15.71	0.00000	0.999520
V 292.402	3	Lin Thru 0	0.0	186.7	0.00000	0.999994
Zn 213.857	3	Lin Thru 0	0.0	159.9	0.00000	0.999999

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/31/2010 12:38:02

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	145694.3	145694.3	98.4 %		12:38:34
1	Al 396.153Radial†	25466.4	25945.6	5149.7 µg/L	5149.7 ppb	12:38:34
1	Ca 317.933Radial†	80839.8	81559.2	4987.6 µg/L	4987.6 ppb	12:38:34
1	Fe 238.204 Radial†	72916.2	73975.9	5014.1 µg/L	5014.1 ppb	12:38:34
1	K 766.490 Radial†	7537.4	6111.3	2470.4 µg/L	2470.4 ppb	12:38:34
1	Mg 279.077 IEC†	12672.3	12697.5	5244.9 µg/L	5244.9 ppb	12:38:34
1	Na 589.592 Radial†	17739.3	16711.4	2506.9 µg/L	2506.9 ppb	12:38:34
1	Sr 421.552†	229445.1	233488.5	525.11 µg/L	525.11 ppb	12:38:32
1	Sc 361.383	1741112.8	1741112.8	99.460 %		12:38:47
1	Y 371.029	1038737.3	1038737.3	98.516 %		12:38:47
1	Ag 328.068†	65923.8	62537.1	258.93 µg/L	258.93 ppb	12:38:47
1	As 188.979†	1388.4	1413.0	480.50 µg/L	480.50 ppb	12:39:07
1	B 249.677†	34247.7	31151.0	508.14 µg/L	508.14 ppb	12:38:47
1	Ba 233.527†	114354.7	115130.6	508.31 µg/L	508.31 ppb	12:38:47
1	Be 313.107†	864156.2	869696.5	259.09 µg/L	259.09 ppb	12:38:47
1	Cd 226.502†	70933.4	71421.0	500.02 µg/L	500.02 ppb	12:38:47
1	Co 228.616†	36807.9	37175.0	509.46 µg/L	509.46 ppb	12:38:47
1	Cr 267.716†	56653.2	56799.5	489.01 µg/L	489.01 ppb	12:38:47
1	Cu 324.752†	122075.5	119898.5	510.99 µg/L	510.99 ppb	12:38:47
1	Mn 257.610†	378069.6	379907.9	513.20 µg/L	513.20 ppb	12:38:47
1	Mo 202.031†	16373.9	16482.2	531.54 µg/L	531.54 ppb	12:39:07
1	Ni 231.604†	38991.1	39285.2	502.93 µg/L	502.93 ppb	12:38:47
1	P 214.914†	10285.0	10354.5	2475.4 µg/L	2475.4 ppb	12:39:07
1	Pb 220.353†	8132.4	8101.8	503.49 µg/L	503.49 ppb	12:39:07
1	S 181.975 Axial†	3034.1	2946.4	2467.2 µg/L	2467.2 ppb	12:39:07
1	Sb 206.836†	3828.2	3775.8	496.38 µg/L	496.38 ppb	12:39:07
1	Se 196.026†	6109.1	6129.7	2490 µg/L	2490 ppb	12:39:07
1	SiO2†	98582.4	97408.9	10478 µg/L	10478 ppb	12:38:47
1	Si 251.611†	300853.2	301600.6	4896.3 µg/L	4896.3 ppb	12:38:47
1	Sn 189.927†	7593.6	7635.2	530.38 µg/L	530.38 ppb	12:39:07
1	Ti 334.940†	483444.3	485312.0	490.35 µg/L	490.35 ppb	12:38:47
1	Tl 190.801†	3753.5	3887.1	534.97 µg/L	534.97 ppb	12:39:07
1	U 409.014†	6785.6	7038.0	478.75 µg/L	478.75 ppb	12:38:47
1	V 292.402†	94025.1	94221.0	511.51 µg/L	511.51 ppb	12:38:47
1	Zn 213.857†	81537.6	81450.6	505.31 µg/L	505.31 ppb	12:38:47
2	Sc RADIAL	148570.4	148570.4	100 %		12:38:38
2	Al 396.153Radial†	25917.5	25894.1	5139.2 µg/L	5139.2 ppb	12:38:38
2	Ca 317.933Radial†	83263.3	82384.2	5038.0 µg/L	5038.0 ppb	12:38:38
2	Fe 238.204 Radial†	75023.1	74641.3	5059.2 µg/L	5059.2 ppb	12:38:38
2	K 766.490 Radial†	7625.6	6050.9	2445.9 µg/L	2445.9 ppb	12:38:38
2	Mg 279.077 IEC†	13211.3	12985.4	5363.7 µg/L	5363.7 ppb	12:38:38
2	Na 589.592 Radial†	18106.2	16728.1	2509.5 µg/L	2509.5 ppb	12:38:38
2	Sr 421.552†	231729.3	231250.8	520.07 µg/L	520.07 ppb	12:38:36
2	Sc 361.383	1741975.5	1741975.5	99.509 %		12:39:10
2	Y 371.029	1039483.5	1039483.5	98.587 %		12:39:10
2	Ag 328.068†	65949.8	62530.5	258.90 µg/L	258.90 ppb	12:39:10
2	As 188.979†	1402.0	1426.0	484.88 µg/L	484.88 ppb	12:39:30
2	B 249.677†	34328.5	31215.1	509.19 µg/L	509.19 ppb	12:39:10
2	Ba 233.527†	114527.8	115247.5	508.83 µg/L	508.83 ppb	12:39:10
2	Be 313.107†	865641.7	870759.1	259.40 µg/L	259.40 ppb	12:39:10
2	Cd 226.502†	70743.7	71195.0	498.44 µg/L	498.44 ppb	12:39:10
2	Co 228.616†	36742.0	37090.5	508.30 µg/L	508.30 ppb	12:39:10
2	Cr 267.716†	56575.3	56692.9	488.09 µg/L	488.09 ppb	12:39:10
2	Cu 324.752†	122038.1	119800.1	510.58 µg/L	510.58 ppb	12:39:10
2	Mn 257.610†	377944.1	379593.5	512.77 µg/L	512.77 ppb	12:39:10
2	Mo 202.031†	16507.3	16608.1	535.60 µg/L	535.60 ppb	12:39:30
2	Ni 231.604†	39150.3	39425.8	504.73 µg/L	504.73 ppb	12:39:10
2	P 214.914†	10425.5	10490.6	2508.1 µg/L	2508.1 ppb	12:39:30
2	Pb 220.353†	8191.7	8157.4	506.94 µg/L	506.94 ppb	12:39:30

2	S 181.975 Axial†	3059.8	2970.7	2487.6 µg/L	2487.6 ppb	12:39:30
2	Sb 206.836†	3854.4	3800.2	499.66 µg/L	499.66 ppb	12:39:30
2	Se 196.026†	6190.2	6208.1	2520 µg/L	2520 ppb	12:39:30
2	SiO2†	98635.7	97413.3	10479 µg/L	10479 ppb	12:39:10
2	Si 251.611†	300903.1	301500.9	4894.6 µg/L	4894.6 ppb	12:39:10
2	Sn 189.927†	7693.1	7731.4	537.04 µg/L	537.04 ppb	12:39:30
2	Ti 334.940†	483956.6	485586.1	490.62 µg/L	490.62 ppb	12:39:10
2	Tl 190.801†	3806.4	3938.4	541.93 µg/L	541.93 ppb	12:39:30
2	U 409.014†	6833.0	7082.3	481.55 µg/L	481.55 ppb	12:39:10
2	V 292.402†	94041.7	94190.9	511.38 µg/L	511.38 ppb	12:39:10
2	Zn 213.857†	81566.9	81439.5	505.23 µg/L	505.23 ppb	12:39:10
3	Sc RADIAL	146976.7	146976.7	99.3 %		12:38:42
3	Al 396.153Radial†	25512.3	25766.0	5113.8 µg/L	5113.8 ppb	12:38:42
3	Ca 317.933Radial†	82366.9	82380.9	5037.8 µg/L	5037.8 ppb	12:38:42
3	Fe 238.204 Radial†	74201.2	74623.9	5058.1 µg/L	5058.1 ppb	12:38:42
3	K 766.490 Radial†	7557.1	6064.4	2451.4 µg/L	2451.4 ppb	12:38:42
3	Mg 279.077 IEC†	13020.2	12935.6	5343.2 µg/L	5343.2 ppb	12:38:42
3	Na 589.592 Radial†	17970.2	16786.7	2518.3 µg/L	2518.3 ppb	12:38:42
3	Sr 421.552†	232367.8	234398.5	527.15 µg/L	527.15 ppb	12:38:40
3	Sc 361.383	1747528.5	1747528.5	99.826 %		12:39:33
3	Y 371.029	1042266.5	1042266.5	98.851 %		12:39:33
3	Ag 328.068†	66404.5	62775.4	259.91 µg/L	259.91 ppb	12:39:33
3	As 188.979†	1396.0	1415.6	481.38 µg/L	481.38 ppb	12:39:53
3	B 249.677†	34592.9	31370.4	511.72 µg/L	511.72 ppb	12:39:33
3	Ba 233.527†	114889.5	115244.2	508.81 µg/L	508.81 ppb	12:39:33
3	Be 313.107†	869900.1	872260.6	259.85 µg/L	259.85 ppb	12:39:33
3	Cd 226.502†	71311.3	71537.7	500.84 µg/L	500.84 ppb	12:39:33
3	Co 228.616†	37162.7	37394.6	512.47 µg/L	512.47 ppb	12:39:33
3	Cr 267.716†	57023.7	56961.5	490.40 µg/L	490.40 ppb	12:39:33
3	Cu 324.752†	122759.7	120133.3	512.00 µg/L	512.00 ppb	12:39:33
3	Mn 257.610†	380421.8	380868.7	514.49 µg/L	514.49 ppb	12:39:33
3	Mo 202.031†	16495.3	16543.4	533.51 µg/L	533.51 ppb	12:39:53
3	Ni 231.604†	39160.9	39311.5	503.26 µg/L	503.26 ppb	12:39:33
3	P 214.914†	10411.7	10443.5	2496.7 µg/L	2496.7 ppb	12:39:53
3	Pb 220.353†	8183.5	8122.9	504.79 µg/L	504.79 ppb	12:39:53
3	S 181.975 Axial†	3045.9	2947.0	2467.7 µg/L	2467.7 ppb	12:39:53
3	Sb 206.836†	3847.8	3781.3	497.11 µg/L	497.11 ppb	12:39:53
3	Se 196.026†	6171.6	6169.8	2500 µg/L	2500 ppb	12:39:53
3	SiO2†	99259.5	97723.3	10512 µg/L	10512 ppb	12:39:33
3	Si 251.611†	302532.7	302172.5	4905.5 µg/L	4905.5 ppb	12:39:33
3	Sn 189.927†	7667.6	7681.3	533.58 µg/L	533.58 ppb	12:39:53
3	Ti 334.940†	485994.3	486081.9	491.12 µg/L	491.12 ppb	12:39:33
3	Tl 190.801†	3802.7	3922.5	539.77 µg/L	539.77 ppb	12:39:53
3	U 409.014†	6910.4	7138.1	485.16 µg/L	485.16 ppb	12:39:33
3	V 292.402†	94517.9	94367.6	512.32 µg/L	512.32 ppb	12:39:33
3	Zn 213.857†	82243.5	81856.7	507.84 µg/L	507.84 ppb	12:39:33

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1743538.9	99.598 %	0.1989			0.20%
Sc RADIAL	147080.5	99.3 %	0.97			0.98%
Y 371.029	1040162.4	98.651 %	0.1764			0.18%
Ag 328.068†	62614.3	259.24 µg/L	0.572	259.24 ppb	0.572	0.22%
QC value within limits for Ag 328.068 Recovery = 103.70%						
Al 396.153Radial†	25868.6	5134.2 µg/L	18.47	5134.2 ppb	18.47	0.36%
QC value within limits for Al 396.153Radial Recovery = 102.68%						
As 188.979†	1418.2	482.25 µg/L	2.314	482.25 ppb	2.314	0.48%
QC value within limits for As 188.979 Recovery = 96.45%						
B 249.677†	31245.5	509.68 µg/L	1.840	509.68 ppb	1.840	0.36%
QC value within limits for B 249.677 Recovery = 101.94%						
Ba 233.527†	115207.4	508.65 µg/L	0.294	508.65 ppb	0.294	0.06%
QC value within limits for Ba 233.527 Recovery = 101.73%						
Be 313.107†	870905.4	259.45 µg/L	0.385	259.45 ppb	0.385	0.15%
QC value within limits for Be 313.107 Recovery = 103.78%						
Ca 317.933Radial†	82108.1	5021.1 µg/L	29.07	5021.1 ppb	29.07	0.58%
QC value within limits for Ca 317.933Radial Recovery = 100.42%						
Cd 226.502†	71384.6	499.77 µg/L	1.221	499.77 ppb	1.221	0.24%
QC value within limits for Cd 226.502 Recovery = 99.95%						
Co 228.616†	37220.0	510.08 µg/L	2.150	510.08 ppb	2.150	0.42%

QC value within limits for Co 228.616 Recovery = 102.02%							
Cr 267.716†	56818.0	489.17 µg/L	1.163	489.17 ppb	1.163	0.24%	
QC value within limits for Cr 267.716 Recovery = 97.83%							
Cu 324.752†	119944.0	511.19 µg/L	0.731	511.19 ppb	0.731	0.14%	
QC value within limits for Cu 324.752 Recovery = 102.24%							
Fe 238.204 Radial†	74413.7	5043.8 µg/L	25.71	5043.8 ppb	25.71	0.51%	
QC value within limits for Fe 238.204 Radial Recovery = 100.88%							
K 766.490 Radial†	6075.5	2455.9 µg/L	12.84	2455.9 ppb	12.84	0.52%	
QC value within limits for K 766.490 Radial Recovery = 98.24%							
Mg 279.077 IEC†	12872.8	5317.3 µg/L	63.49	5317.3 ppb	63.49	1.19%	
QC value within limits for Mg 279.077 IEC Recovery = 106.35%							
Mn 257.610†	380123.4	513.49 µg/L	0.897	513.49 ppb	0.897	0.17%	
QC value within limits for Mn 257.610 Recovery = 102.70%							
Mo 202.031†	16544.6	533.55 µg/L	2.031	533.55 ppb	2.031	0.38%	
QC value within limits for Mo 202.031 Recovery = 106.71%							
Na 589.592 Radial†	16742.1	2511.5 µg/L	5.95	2511.5 ppb	5.95	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 100.46%							
Ni 231.604†	39340.8	503.64 µg/L	0.957	503.64 ppb	0.957	0.19%	
QC value within limits for Ni 231.604 Recovery = 100.73%							
P 214.914†	10429.5	2493.4 µg/L	16.57	2493.4 ppb	16.57	0.66%	
QC value within limits for P 214.914 Recovery = 99.74%							
Pb 220.353†	8127.4	505.07 µg/L	1.741	505.07 ppb	1.741	0.34%	
QC value within limits for Pb 220.353 Recovery = 101.01%							
S 181.975 Axial†	2954.7	2474.2 µg/L	11.62	2474.2 ppb	11.62	0.47%	
QC value within limits for S 181.975 Axial Recovery = 98.97%							
Sb 206.836†	3785.8	497.72 µg/L	1.722	497.72 ppb	1.722	0.35%	
QC value within limits for Sb 206.836 Recovery = 99.54%							
Se 196.026†	6169.2	2500 µg/L	15.9	2500 ppb	15.9	0.64%	
QC value within limits for Se 196.026 Recovery = 100.07%							
SiO2†	97515.1	10490 µg/L	19.4	10490 ppb	19.4	0.19%	
QC value within limits for SiO2 Recovery = 98.08%							
Si 251.611†	301758.0	4898.8 µg/L	5.90	4898.8 ppb	5.90	0.12%	
QC value within limits for Si 251.611 Recovery = 97.98%							
Sn 189.927†	7682.6	533.67 µg/L	3.332	533.67 ppb	3.332	0.62%	
QC value within limits for Sn 189.927 Recovery = 106.73%							
Sr 421.552†	233046.0	524.11 µg/L	3.643	524.11 ppb	3.643	0.70%	
QC value within limits for Sr 421.552 Recovery = 104.82%							
Ti 334.940†	485660.0	490.70 µg/L	0.390	490.70 ppb	0.390	0.08%	
QC value within limits for Ti 334.940 Recovery = 98.14%							
Tl 190.801†	3916.0	538.89 µg/L	3.565	538.89 ppb	3.565	0.66%	
QC value within limits for Tl 190.801 Recovery = 107.78%							
U 409.014†	7086.1	481.82 µg/L	3.212	481.82 ppb	3.212	0.67%	
QC value within limits for U 409.014 Recovery = 96.36%							
V 292.402†	94259.8	511.74 µg/L	0.508	511.74 ppb	0.508	0.10%	
QC value within limits for V 292.402 Recovery = 102.35%							
Zn 213.857†	81582.3	506.13 µg/L	1.487	506.13 ppb	1.487	0.29%	
QC value within limits for Zn 213.857 Recovery = 101.23%							
All analyte(s) passed QC.							

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/31/2010 12:40:02

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	146267.0	146267.0	98.8 %		12:40:31
1	Al 396.153Radial†	-59.0	1.5	0.3043 µg/L	0.3043 ppb	12:40:51
1	Ca 317.933Radial†	602.3	2.6	0.1568 µg/L	0.1568 ppb	12:40:51
1	Fe 238.204 Radial†	189.3	54.7	3.7102 µg/L	3.7102 ppb	12:40:51
1	K 766.490 Radial†	1550.8	20.3	8.2141 µg/L	8.2141 ppb	12:40:31
1	Mg 279.077 IEC†	165.4	-15.3	-6.2970 µg/L	-6.2970 ppb	12:40:51
1	Na 589.592 Radial†	1411.6	110.1	16.521 µg/L	16.521 ppb	12:40:31
1	Sr 421.552†	-200.9	74.7	0.1681 µg/L	0.1681 ppb	12:40:31
1	Sc 361.383	1744306.7	1744306.7	99.642 %		12:41:53
1	Y 371.029	1049162.2	1049162.2	99.505 %		12:41:53
1	Ag 328.068†	3680.1	-51.5	-0.2068 µg/L	-0.2068 ppb	12:41:56
1	As 188.979†	-12.6	4.4	1.4879 µg/L	1.4879 ppb	12:42:16
1	B 249.677†	3391.6	121.0	1.9807 µg/L	1.9807 ppb	12:42:16
1	Ba 233.527†	-143.6	10.3	0.0458 µg/L	0.0458 ppb	12:42:16
1	Be 313.107†	-859.8	-18.2	-0.0065 µg/L	-0.0065 ppb	12:41:56
1	Cd 226.502†	-116.4	-14.7	-0.1035 µg/L	-0.1035 ppb	12:42:16
1	Co 228.616†	-179.8	-13.3	-0.1820 µg/L	-0.1820 ppb	12:42:16
1	Cr 267.716†	178.0	17.1	0.1503 µg/L	0.1503 ppb	12:42:16
1	Cu 324.752†	2933.6	103.9	0.4385 µg/L	0.4385 ppb	12:41:56
1	Mn 257.610†	272.7	57.6	0.0780 µg/L	0.0780 ppb	12:42:16
1	Mo 202.031†	-23.7	-4.4	-0.1424 µg/L	-0.1424 ppb	12:42:16
1	Ni 231.604†	-83.6	-1.6	-0.0203 µg/L	-0.0203 ppb	12:42:16
1	P 214.914†	-12.9	0.6	0.1531 µg/L	0.1531 ppb	12:42:16
1	Pb 220.353†	94.3	19.8	1.2298 µg/L	1.2298 ppb	12:42:16
1	S 181.975 Axial†	106.6	2.8	2.3135 µg/L	2.3135 ppb	12:42:16
1	Sb 206.836†	78.5	5.6	0.7343 µg/L	0.7343 ppb	12:42:16
1	Se 196.026†	10.6	-1.9	-0.790 µg/L	-0.790 ppb	12:42:16
1	SiO2†	1784.7	81.9	8.8090 µg/L	8.8090 ppb	12:42:16
1	Si 251.611†	957.1	73.2	1.1836 µg/L	1.1836 ppb	12:41:56
1	Sn 189.927†	19.2	19.5	1.3528 µg/L	1.3528 ppb	12:42:16
1	Ti 334.940†	952.4	196.5	0.2008 µg/L	0.2008 ppb	12:41:56
1	Tl 190.801†	-120.1	-7.3	-0.9847 µg/L	-0.9847 ppb	12:42:16
1	U 409.014†	-273.6	-59.0	-3.7254 µg/L	-3.7254 ppb	12:41:56
1	V 292.402†	406.9	93.4	0.4962 µg/L	0.4962 ppb	12:41:56
1	Zn 213.857†	630.0	102.2	0.6385 µg/L	0.6385 ppb	12:42:16
2	Sc RADIAL	148548.3	148548.3	100 %		12:40:53
2	Al 396.153Radial†	-69.3	-7.8	-1.5238 µg/L	-1.5238 ppb	12:41:13
2	Ca 317.933Radial†	578.8	-30.3	-1.8504 µg/L	-1.8504 ppb	12:41:13
2	Fe 238.204 Radial†	178.2	40.8	2.7665 µg/L	2.7665 ppb	12:41:13
2	K 766.490 Radial†	1526.1	-28.4	-11.515 µg/L	-11.515 ppb	12:40:53
2	Mg 279.077 IEC†	165.7	-17.6	-7.2595 µg/L	-7.2595 ppb	12:41:13
2	Na 589.592 Radial†	1581.8	257.9	38.731 µg/L	38.731 ppb	12:40:53
2	Sr 421.552†	-158.8	119.8	0.2695 µg/L	0.2695 ppb	12:40:53
2	Sc 361.383	1713784.6	1713784.6	97.898 %		12:42:18
2	Y 371.029	1030899.3	1030899.3	97.773 %		12:42:18
2	Ag 328.068†	3760.5	96.4	0.3712 µg/L	0.3712 ppb	12:42:20
2	As 188.979†	-18.4	-1.7	-0.5701 µg/L	-0.5701 ppb	12:42:40
2	B 249.677†	3354.0	143.1	2.3436 µg/L	2.3436 ppb	12:42:40
2	Ba 233.527†	-135.7	15.9	0.0695 µg/L	0.0695 ppb	12:42:40
2	Be 313.107†	-749.3	79.3	0.0201 µg/L	0.0201 ppb	12:42:20
2	Cd 226.502†	-113.2	-13.5	-0.0946 µg/L	-0.0946 ppb	12:42:40
2	Co 228.616†	-175.8	-12.5	-0.1706 µg/L	-0.1706 ppb	12:42:40
2	Cr 267.716†	161.8	3.7	0.0411 µg/L	0.0411 ppb	12:42:40
2	Cu 324.752†	2872.3	93.7	0.3886 µg/L	0.3886 ppb	12:42:20
2	Mn 257.610†	273.7	63.5	0.0861 µg/L	0.0861 ppb	12:42:40
2	Mo 202.031†	-38.3	-19.8	-0.6375 µg/L	-0.6375 ppb	12:42:40
2	Ni 231.604†	-55.5	25.6	0.3277 µg/L	0.3277 ppb	12:42:40
2	P 214.914†	-19.9	-6.7	-1.5979 µg/L	-1.5979 ppb	12:42:40
2	Pb 220.353†	100.3	27.6	1.7174 µg/L	1.7174 ppb	12:42:40

2	S 181.975 Axial†	106.3	4.4	3.6346 µg/L	3.6346 ppb	12:42:40
2	Sb 206.836†	88.3	17.0	2.2169 µg/L	2.2169 ppb	12:42:40
2	Se 196.026†	26.2	14.2	5.73 µg/L	5.73 ppb	12:42:40
2	SiO2†	1797.0	126.3	13.627 µg/L	13.627 ppb	12:42:40
2	Si 251.611†	1069.9	205.5	3.3499 µg/L	3.3499 ppb	12:42:20
2	Sn 189.927†	4.0	4.4	0.3047 µg/L	0.3047 ppb	12:42:40
2	Ti 334.940†	697.5	-46.8	-0.0421 µg/L	-0.0421 ppb	12:42:20
2	Tl 190.801†	-121.4	-10.8	-1.4690 µg/L	-1.4690 ppb	12:42:40
2	U 409.014†	-388.6	-181.4	-11.560 µg/L	-11.560 ppb	12:42:20
2	V 292.402†	247.6	-62.1	-0.3470 µg/L	-0.3470 ppb	12:42:20
2	Zn 213.857†	606.6	89.6	0.5575 µg/L	0.5575 ppb	12:42:40
3	Sc RADIAL	148144.3	148144.3	100 %		12:41:15
3	Al 396.153Radial†	-59.4	1.9	0.3977 µg/L	0.3977 ppb	12:41:36
3	Ca 317.933Radial†	578.4	-29.1	-1.7793 µg/L	-1.7793 ppb	12:41:36
3	Fe 238.204 Radial†	174.7	37.7	2.5584 µg/L	2.5584 ppb	12:41:36
3	K 766.490 Radial†	1564.8	14.4	5.8190 µg/L	5.8190 ppb	12:41:15
3	Mg 279.077 IEC†	171.7	-11.1	-4.5942 µg/L	-4.5942 ppb	12:41:36
3	Na 589.592 Radial†	1398.6	79.0	11.855 µg/L	11.855 ppb	12:41:15
3	Sr 421.552†	-228.0	50.2	0.1129 µg/L	0.1129 ppb	12:41:15
3	Sc 361.383	1744384.4	1744384.4	99.646 %		12:42:42
3	Y 371.029	1048686.8	1048686.8	99.460 %		12:42:42
3	Ag 328.068†	3817.9	86.6	0.3361 µg/L	0.3361 ppb	12:42:44
3	As 188.979†	-14.3	2.7	0.9116 µg/L	0.9116 ppb	12:43:04
3	B 249.677†	3341.4	70.4	1.1523 µg/L	1.1523 ppb	12:43:04
3	Ba 233.527†	-137.0	17.0	0.0746 µg/L	0.0746 ppb	12:43:04
3	Be 313.107†	-892.1	-50.6	-0.0178 µg/L	-0.0178 ppb	12:42:44
3	Cd 226.502†	-79.3	22.6	0.1580 µg/L	0.1580 ppb	12:43:04
3	Co 228.616†	-166.2	0.4	0.0055 µg/L	0.0055 ppb	12:43:04
3	Cr 267.716†	167.4	6.4	0.0623 µg/L	0.0623 ppb	12:43:04
3	Cu 324.752†	2875.4	45.3	0.1853 µg/L	0.1853 ppb	12:42:44
3	Mn 257.610†	298.8	83.8	0.1134 µg/L	0.1134 ppb	12:43:04
3	Mo 202.031†	-35.0	-15.7	-0.5061 µg/L	-0.5061 ppb	12:43:04
3	Ni 231.604†	-75.4	6.6	0.0843 µg/L	0.0843 ppb	12:43:04
3	P 214.914†	-16.3	-2.8	-0.6590 µg/L	-0.6590 ppb	12:43:04
3	Pb 220.353†	106.6	32.1	1.9949 µg/L	1.9949 ppb	12:43:04
3	S 181.975 Axial†	103.8	-0.0	-0.0085 µg/L	-0.0085 ppb	12:43:04
3	Sb 206.836†	70.3	-2.7	-0.3634 µg/L	-0.3634 ppb	12:43:04
3	Se 196.026†	16.0	3.5	1.39 µg/L	1.39 ppb	12:43:04
3	SiO2†	1753.4	50.4	5.4423 µg/L	5.4423 ppb	12:43:04
3	Si 251.611†	996.4	112.6	1.8388 µg/L	1.8388 ppb	12:42:44
3	Sn 189.927†	0.9	1.2	0.0817 µg/L	0.0817 ppb	12:43:04
3	Ti 334.940†	844.8	88.5	0.0936 µg/L	0.0936 ppb	12:42:44
3	Tl 190.801†	-111.8	1.0	0.1332 µg/L	0.1332 ppb	12:43:04
3	U 409.014†	-358.5	-144.1	-9.1835 µg/L	-9.1835 ppb	12:42:44
3	V 292.402†	273.7	-40.3	-0.2276 µg/L	-0.2276 ppb	12:42:44
3	Zn 213.857†	599.4	71.4	0.4457 µg/L	0.4457 ppb	12:43:04

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1734158.6	99.062 %	1.0079			1.02%
Sc RADIAL	147653.2	99.7 %	0.82			0.82%
Y 371.029	1042916.1	98.913 %	0.9873			1.00%
Ag 328.068†	43.8	0.1668 µg/L	0.32404	0.1668 ppb	0.32404	194.23%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.5	-0.2739 µg/L	1.08341	-0.2739 ppb	1.08341	395.52%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.8	0.6098 µg/L	1.06164	0.6098 ppb	1.06164	174.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	111.5	1.8255 µg/L	0.61061	1.8255 ppb	0.61061	33.45%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.4	0.0633 µg/L	0.01537	0.0633 ppb	0.01537	24.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	3.5	-0.0014 µg/L	0.01949	-0.0014 ppb	0.01949	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-18.9	-1.1576 µg/L	1.13888	-1.1576 ppb	1.13888	98.38%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-1.9	-0.0134 µg/L	0.14847	-0.0134 ppb	0.14847	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.4	-0.1157 µg/L	0.10514	-0.1157 ppb	0.10514	90.86%

Cr	267.716†	QC value within limits for Co 228.616 Recovery = Not calculated	9.1	0.0846 µg/L	0.05793	0.0846 ppb	0.05793	68.50%
Cu	324.752†	QC value within limits for Cr 267.716 Recovery = Not calculated	81.0	0.3374 µg/L	0.13414	0.3374 ppb	0.13414	39.75%
Fe	238.204 Radial†	QC value within limits for Cu 324.752 Recovery = Not calculated	44.4	3.0117 µg/L	0.61380	3.0117 ppb	0.61380	20.38%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial Recovery = Not calculated	2.1	0.8393 µg/L	10.76596	0.8393 ppb	10.76596	>999.9%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial Recovery = Not calculated	-14.6	-6.0502 µg/L	1.34968	-6.0502 ppb	1.34968	22.31%
Mn	257.610†	QC value within limits for Mg 279.077 IEC Recovery = Not calculated	68.3	0.0925 µg/L	0.01851	0.0925 ppb	0.01851	20.01%
Mo	202.031†	QC value within limits for Mn 257.610 Recovery = Not calculated	-13.3	-0.4286 µg/L	0.25648	-0.4286 ppb	0.25648	59.84%
Na	589.592 Radial†	QC value within limits for Mo 202.031 Recovery = Not calculated	149.0	22.369 µg/L	14.3607	22.369 ppb	14.3607	64.20%
Ni	231.604†	QC value within limits for Na 589.592 Radial Recovery = Not calculated	10.2	0.1306 µg/L	0.17857	0.1306 ppb	0.17857	136.78%
P	214.914†	QC value within limits for Ni 231.604 Recovery = Not calculated	-2.9	-0.7013 µg/L	0.87623	-0.7013 ppb	0.87623	124.95%
Pb	220.353†	QC value within limits for P 214.914 Recovery = Not calculated	26.5	1.6473 µg/L	0.38733	1.6473 ppb	0.38733	23.51%
S	181.975 Axial†	QC value within limits for Pb 220.353 Recovery = Not calculated	2.4	1.9798 µg/L	1.84430	1.9798 ppb	1.84430	93.15%
Sb	206.836†	QC value within limits for S 181.975 Axial Recovery = Not calculated	6.6	0.8626 µg/L	1.29491	0.8626 ppb	1.29491	150.12%
Se	196.026†	QC value within limits for Sb 206.836 Recovery = Not calculated	5.2	2.11 µg/L	3.318	2.11 ppb	3.318	157.30%
SiO2†		QC value within limits for Se 196.026 Recovery = Not calculated	86.2	9.2927 µg/L	4.11372	9.2927 ppb	4.11372	44.27%
Si	251.611†	QC value within limits for SiO2 Recovery = Not calculated	130.4	2.1241 µg/L	1.11099	2.1241 ppb	1.11099	52.30%
Sn	189.927†	QC value within limits for Si 251.611 Recovery = Not calculated	8.4	0.5797 µg/L	0.67871	0.5797 ppb	0.67871	117.08%
Sr	421.552†	QC value within limits for Sn 189.927 Recovery = Not calculated	81.6	0.1835 µg/L	0.07945	0.1835 ppb	0.07945	43.30%
Ti	334.940†	QC value within limits for Sr 421.552 Recovery = Not calculated	79.4	0.0841 µg/L	0.12177	0.0841 ppb	0.12177	144.79%
Tl	190.801†	QC value within limits for Ti 334.940 Recovery = Not calculated	-5.7	-0.7735 µg/L	0.82173	-0.7735 ppb	0.82173	106.23%
U	409.014†	QC value within limits for Tl 190.801 Recovery = Not calculated	-128.2	-8.1562 µg/L	4.01702	-8.1562 ppb	4.01702	49.25%
V	292.402†	QC value within limits for U 409.014 Recovery = Not calculated	-3.0	-0.0261 µg/L	0.45627	-0.0261 ppb	0.45627	>999.9%
Zn	213.857†	QC value within limits for V 292.402 Recovery = Not calculated	87.7	0.5472 µg/L	0.09682	0.5472 ppb	0.09682	17.69%
QC value within limits for Zn 213.857 Recovery = Not calculated								
All analyte(s) passed QC.								

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/31/2010 12:43:12

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	147389.8	147389.8	99.5 %		12:43:42
1	Al 396.153Radial†	1071.1	1137.4	226.41 µg/L	226.41 ppb	12:43:44
1	Ca 317.933Radial†	3951.4	3362.9	205.65 µg/L	205.65 ppb	12:43:44
1	Fe 238.204 Radial†	1665.8	1536.8	104.16 µg/L	104.16 ppb	12:43:44
1	K 766.490 Radial†	2028.4	488.2	197.40 µg/L	197.40 ppb	12:43:42
1	Mg 279.077 IEC†	988.4	810.3	334.30 µg/L	334.30 ppb	12:43:44
1	Na 589.592 Radial†	3182.7	1878.7	281.90 µg/L	281.90 ppb	12:43:44
1	Sr 421.552†	2192.1	2480.5	5.5774 µg/L	5.5774 ppb	12:43:44
1	Sc 361.383	1725149.4	1725149.4	98.548 %		12:43:56
1	Y 371.029	1039906.9	1039906.9	98.627 %		12:43:56
1	Ag 328.068†	4930.8	1258.7	5.2195 µg/L	5.2195 ppb	12:43:58
1	As 188.979†	64.5	82.6	27.753 µg/L	27.753 ppb	12:44:18
1	B 249.677†	6309.5	3119.7	51.049 µg/L	51.049 ppb	12:43:58
1	Ba 233.527†	1008.9	1178.2	5.2023 µg/L	5.2023 ppb	12:44:18
1	Be 313.107†	15529.1	16602.6	4.9640 µg/L	4.9640 ppb	12:43:58
1	Cd 226.502†	614.9	726.1	5.0777 µg/L	5.0777 ppb	12:44:18
1	Co 228.616†	172.9	342.6	4.6922 µg/L	4.6922 ppb	12:44:18
1	Cr 267.716†	760.7	610.3	5.2017 µg/L	5.2017 ppb	12:44:18
1	Cu 324.752†	5205.7	2442.2	10.460 µg/L	10.460 ppb	12:43:58
1	Mn 257.610†	7907.7	7808.1	10.539 µg/L	10.539 ppb	12:43:58
1	Mo 202.031†	263.6	286.9	9.2547 µg/L	9.2547 ppb	12:44:18
1	Ni 231.604†	314.2	401.2	5.1356 µg/L	5.1356 ppb	12:44:18
1	P 214.914†	607.9	630.4	151.10 µg/L	151.10 ppb	12:44:18
1	Pb 220.353†	234.6	163.3	10.099 µg/L	10.099 ppb	12:44:18
1	S 181.975 Axial†	213.9	112.8	94.400 µg/L	94.400 ppb	12:44:18
1	Sb 206.836†	153.5	82.6	10.888 µg/L	10.888 ppb	12:44:18
1	Se 196.026†	98.7	87.5	35.6 µg/L	35.6 ppb	12:44:18
1	SiO2†	3706.0	2051.4	220.74 µg/L	220.74 ppb	12:43:58
1	Si 251.611†	7035.6	6252.0	101.53 µg/L	101.53 ppb	12:43:58
1	Sn 189.927†	136.8	139.1	9.6510 µg/L	9.6510 ppb	12:44:18
1	Ti 334.940†	5645.2	4969.1	4.9758 µg/L	4.9758 ppb	12:43:58
1	Tl 190.801†	30.5	144.2	19.659 µg/L	19.659 ppb	12:44:18
1	U 409.014†	839.8	1067.8	68.286 µg/L	68.286 ppb	12:43:58
1	V 292.402†	1236.3	939.5	5.1799 µg/L	5.1799 ppb	12:43:58
1	Zn 213.857†	2153.4	1655.1	10.300 µg/L	10.300 ppb	12:44:18
2	Sc RADIAL	146324.7	146324.7	98.8 %		12:43:46
2	Al 396.153Radial†	922.4	994.8	197.95 µg/L	197.95 ppb	12:43:48
2	Ca 317.933Radial†	3910.1	3349.9	204.85 µg/L	204.85 ppb	12:43:48
2	Fe 238.204 Radial†	1596.9	1479.2	100.26 µg/L	100.26 ppb	12:43:48
2	K 766.490 Radial†	1787.3	259.0	104.67 µg/L	104.67 ppb	12:43:46
2	Mg 279.077 IEC†	951.8	780.5	322.01 µg/L	322.01 ppb	12:43:48
2	Na 589.592 Radial†	3271.7	1992.1	299.01 µg/L	299.01 ppb	12:43:48
2	Sr 421.552†	2165.2	2469.4	5.5524 µg/L	5.5524 ppb	12:43:48
2	Sc 361.383	1762665.4	1762665.4	100.69 %		12:44:20
2	Y 371.029	1060541.2	1060541.2	100.58 %		12:44:20
2	Ag 328.068†	4734.5	957.2	3.9650 µg/L	3.9650 ppb	12:44:22
2	As 188.979†	72.8	89.4	30.054 µg/L	30.054 ppb	12:44:42
2	B 249.677†	6210.0	2884.5	47.200 µg/L	47.200 ppb	12:44:22
2	Ba 233.527†	1004.0	1151.5	5.0847 µg/L	5.0847 ppb	12:44:42
2	Be 313.107†	15442.5	16181.3	4.8292 µg/L	4.8292 ppb	12:44:22
2	Cd 226.502†	615.1	713.1	4.9870 µg/L	4.9870 ppb	12:44:42
2	Co 228.616†	188.4	354.3	4.8528 µg/L	4.8528 ppb	12:44:42
2	Cr 267.716†	772.9	606.1	5.1893 µg/L	5.1893 ppb	12:44:42
2	Cu 324.752†	5122.6	2247.2	9.6051 µg/L	9.6051 ppb	12:44:22
2	Mn 257.610†	7947.4	7676.8	10.362 µg/L	10.362 ppb	12:44:22
2	Mo 202.031†	270.2	287.7	9.2810 µg/L	9.2810 ppb	12:44:42
2	Ni 231.604†	316.0	396.2	5.0717 µg/L	5.0717 ppb	12:44:42
2	P 214.914†	619.2	628.6	150.67 µg/L	150.67 ppb	12:44:42
2	Pb 220.353†	249.7	173.1	10.731 µg/L	10.731 ppb	12:44:42

2	S 181.975 Axial†	225.7	119.9	100.32 µg/L	100.32 ppb	12:44:42
2	Sb 206.836†	156.0	81.7	10.783 µg/L	10.783 ppb	12:44:42
2	Se 196.026†	94.0	80.8	32.8 µg/L	32.8 ppb	12:44:42
2	SiO2†	3802.6	2067.3	222.44 µg/L	222.44 ppb	12:44:22
2	Si 251.611†	7044.8	6109.1	99.199 µg/L	99.199 ppb	12:44:22
2	Sn 189.927†	151.8	151.1	10.476 µg/L	10.476 ppb	12:44:42
2	Ti 334.940†	5484.9	4688.0	4.7050 µg/L	4.7050 ppb	12:44:22
2	Tl 190.801†	45.9	158.8	21.636 µg/L	21.636 ppb	12:44:42
2	U 409.014†	371.8	584.8	37.557 µg/L	37.557 ppb	12:44:22
2	V 292.402†	1277.2	953.5	5.2348 µg/L	5.2348 ppb	12:44:22
2	Zn 213.857†	2182.3	1637.2	10.189 µg/L	10.189 ppb	12:44:42
3	Sc RADIAL	144146.4	144146.4	97.3 %		12:43:50
3	Al 396.153Radial†	862.5	947.4	188.51 µg/L	188.51 ppb	12:43:52
3	Ca 317.933Radial†	3897.9	3397.2	207.75 µg/L	207.75 ppb	12:43:52
3	Fe 238.204 Radial†	1666.8	1575.5	106.79 µg/L	106.79 ppb	12:43:52
3	K 766.490 Radial†	1911.2	413.7	167.27 µg/L	167.27 ppb	12:43:50
3	Mg 279.077 IEC†	893.0	734.7	303.11 µg/L	303.11 ppb	12:43:52
3	Na 589.592 Radial†	3171.3	1938.9	290.97 µg/L	290.97 ppb	12:43:52
3	Sr 421.552†	2301.9	2642.9	5.9426 µg/L	5.9426 ppb	12:43:52
3	Sc 361.383	1738879.3	1738879.3	99.332 %		12:44:44
3	Y 371.029	1048082.7	1048082.7	99.403 %		12:44:44
3	Ag 328.068†	4882.1	1170.1	4.8826 µg/L	4.8826 ppb	12:44:46
3	As 188.979†	75.9	93.5	31.423 µg/L	31.423 ppb	12:45:06
3	B 249.677†	6357.7	3117.6	51.015 µg/L	51.015 ppb	12:44:46
3	Ba 233.527†	1019.0	1180.3	5.2114 µg/L	5.2114 ppb	12:45:06
3	Be 313.107†	15483.4	16432.2	4.9181 µg/L	4.9181 ppb	12:44:46
3	Cd 226.502†	624.2	730.5	5.1086 µg/L	5.1086 ppb	12:45:06
3	Co 228.616†	198.3	366.8	5.0245 µg/L	5.0245 ppb	12:45:06
3	Cr 267.716†	767.4	611.0	5.1959 µg/L	5.1959 ppb	12:45:06
3	Cu 324.752†	5135.3	2329.6	9.9942 µg/L	9.9942 ppb	12:44:46
3	Mn 257.610†	7947.7	7785.1	10.509 µg/L	10.509 ppb	12:44:46
3	Mo 202.031†	262.0	283.1	9.1335 µg/L	9.1335 ppb	12:45:06
3	Ni 231.604†	328.3	412.8	5.2846 µg/L	5.2846 ppb	12:45:06
3	P 214.914†	606.7	624.4	149.66 µg/L	149.66 ppb	12:45:06
3	Pb 220.353†	219.5	146.1	9.0238 µg/L	9.0238 ppb	12:45:06
3	S 181.975 Axial†	219.3	116.6	97.500 µg/L	97.500 ppb	12:45:06
3	Sb 206.836†	152.4	80.2	10.582 µg/L	10.582 ppb	12:45:06
3	Se 196.026†	105.2	93.4	37.9 µg/L	37.9 ppb	12:45:06
3	SiO2†	3751.4	2067.4	222.47 µg/L	222.47 ppb	12:44:46
3	Si 251.611†	7226.1	6387.4	103.73 µg/L	103.73 ppb	12:44:46
3	Sn 189.927†	142.4	143.6	9.9630 µg/L	9.9630 ppb	12:45:06
3	Ti 334.940†	5820.6	5100.5	5.1048 µg/L	5.1048 ppb	12:44:46
3	Tl 190.801†	30.2	143.6	19.579 µg/L	19.579 ppb	12:45:06
3	U 409.014†	1096.5	1319.5	84.311 µg/L	84.311 ppb	12:44:46
3	V 292.402†	1263.2	956.7	5.2809 µg/L	5.2809 ppb	12:44:46
3	Zn 213.857†	2168.8	1653.3	10.287 µg/L	10.287 ppb	12:45:06

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1742231.4	99.523 %	1.0843			1.09%
Sc RADIAL	145953.6	98.6 %	1.12			1.13%
Y 371.029	1049510.2	99.538 %	0.9855			0.99%
Ag 328.068†	1128.7	4.6890 µg/L	0.64923	4.6890 ppb	0.64923	13.85%
QC value within limits for Ag 328.068 Recovery = 93.78%						
Al 396.153Radial†	1026.5	204.29 µg/L	19.726	204.29 ppb	19.726	9.66%
QC value within limits for Al 396.153Radial Recovery = 102.15%						
As 188.979†	88.5	29.744 µg/L	1.8546	29.744 ppb	1.8546	6.24%
QC value within limits for As 188.979 Recovery = 99.15%						
B 249.677†	3040.6	49.755 µg/L	2.2123	49.755 ppb	2.2123	4.45%
QC value within limits for B 249.677 Recovery = 99.51%						
Ba 233.527†	1170.0	5.1661 µg/L	0.07065	5.1661 ppb	0.07065	1.37%
QC value within limits for Ba 233.527 Recovery = 103.32%						
Be 313.107†	16405.4	4.9037 µg/L	0.06851	4.9037 ppb	0.06851	1.40%
QC value within limits for Be 313.107 Recovery = 98.07%						
Ca 317.933Radial†	3370.0	206.08 µg/L	1.495	206.08 ppb	1.495	0.73%
QC value within limits for Ca 317.933Radial Recovery = 103.04%						
Cd 226.502†	723.2	5.0577 µg/L	0.06319	5.0577 ppb	0.06319	1.25%
QC value within limits for Cd 226.502 Recovery = 101.15%						
Co 228.616†	354.6	4.8565 µg/L	0.16616	4.8565 ppb	0.16616	3.42%

QC value within limits for Co 228.616 Recovery = 97.13%							
Cr 267.716†	609.1	5.1957 µg/L	0.00621	5.1957 ppb	0.00621	0.12%	
QC value within limits for Cr 267.716 Recovery = 103.91%							
Cu 324.752†	2339.6	10.020 µg/L	0.4279	10.020 ppb	0.4279	4.27%	
QC value within limits for Cu 324.752 Recovery = 100.20%							
Fe 238.204 Radial†	1530.5	103.74 µg/L	3.284	103.74 ppb	3.284	3.17%	
QC value within limits for Fe 238.204 Radial Recovery = 103.74%							
K 766.490 Radial†	387.0	156.45 µg/L	47.304	156.45 ppb	47.304	30.24%	
QC value within limits for K 766.490 Radial Recovery = 104.30%							
Mg 279.077 IEC†	775.2	319.81 µg/L	15.714	319.81 ppb	15.714	4.91%	
QC value within limits for Mg 279.077 IEC Recovery = 106.60%							
Mn 257.610†	7756.6	10.470 µg/L	0.0947	10.470 ppb	0.0947	0.90%	
QC value within limits for Mn 257.610 Recovery = 104.70%							
Mo 202.031†	285.9	9.2231 µg/L	0.07869	9.2231 ppb	0.07869	0.85%	
QC value within limits for Mo 202.031 Recovery = 92.23%							
Na 589.592 Radial†	1936.6	290.62 µg/L	8.561	290.62 ppb	8.561	2.95%	
QC value within limits for Na 589.592 Radial Recovery = 96.87%							
Ni 231.604†	403.4	5.1640 µg/L	0.10927	5.1640 ppb	0.10927	2.12%	
QC value within limits for Ni 231.604 Recovery = 103.28%							
P 214.914†	627.8	150.48 µg/L	0.738	150.48 ppb	0.738	0.49%	
QC value within limits for P 214.914 Recovery = 100.32%							
Pb 220.353†	160.8	9.9514 µg/L	0.86335	9.9514 ppb	0.86335	8.68%	
QC value within limits for Pb 220.353 Recovery = 99.51%							
S 181.975 Axial†	116.4	97.406 µg/L	2.9601	97.406 ppb	2.9601	3.04%	
QC value within limits for S 181.975 Axial Recovery = 97.41%							
Sb 206.836†	81.5	10.751 µg/L	0.1554	10.751 ppb	0.1554	1.45%	
QC value within limits for Sb 206.836 Recovery = 107.51%							
Se 196.026†	87.2	35.4 µg/L	2.57	35.4 ppb	2.57	7.25%	
QC value within limits for Se 196.026 Recovery = 118.15%							
SiO2†	2062.0	221.89 µg/L	0.988	221.89 ppb	0.988	0.45%	
QC value within limits for SiO2 Recovery = 104.17%							
Si 251.611†	6249.5	101.49 µg/L	2.267	101.49 ppb	2.267	2.23%	
QC value within limits for Si 251.611 Recovery = 101.49%							
Sn 189.927†	144.6	10.030 µg/L	0.4168	10.030 ppb	0.4168	4.16%	
QC value within limits for Sn 189.927 Recovery = 100.30%							
Sr 421.552†	2531.0	5.6908 µg/L	0.21845	5.6908 ppb	0.21845	3.84%	
QC value within limits for Sr 421.552 Recovery = 113.82%							
Ti 334.940†	4919.2	4.9286 µg/L	0.20404	4.9286 ppb	0.20404	4.14%	
QC value within limits for Ti 334.940 Recovery = 98.57%							
Tl 190.801†	148.8	20.291 µg/L	1.1655	20.291 ppb	1.1655	5.74%	
QC value within limits for Tl 190.801 Recovery = 101.46%							
U 409.014†	990.7	63.385 µg/L	23.7591	63.385 ppb	23.7591	37.48%	
QC value within limits for U 409.014 Recovery = 126.77%							
V 292.402†	949.9	5.2318 µg/L	0.05057	5.2318 ppb	0.05057	0.97%	
QC value within limits for V 292.402 Recovery = 104.64%							
Zn 213.857†	1648.5	10.259 µg/L	0.0605	10.259 ppb	0.0605	0.59%	
QC value within limits for Zn 213.857 Recovery = 102.59%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/31/2010 12:45:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	134395.4	134395.4	90.8 %		12:45:48
1	Al 396.153Radial†	2324888.7	2561768.3	510900 µg/L	510900 ppb	12:45:46
1	Ca 317.933Radial†	7295273.7	8037779.6	491530 µg/L	491530 ppb	12:45:46
1	Fe 238.204 Radial†	2603265.7	2868303.4	194420 µg/L	194420 ppb	12:45:46
1	K 766.490 Radial†	1562.9	172.3	-174.61 µg/L	-174.61 ppb	12:45:48
1	Mg 279.077 IEC†	1090110.4	1200968.8	495090 µg/L	495090 ppb	12:45:46
1	Na 589.592 Radial†	1520.8	356.7	53.500 µg/L	53.500 ppb	12:45:48
1	Sr 421.552†	1322.4	1735.2	0.0553 µg/L	0.0553 ppb	12:45:48
1	Sc 361.383	1533028.4	1533028.4	87.573 %		12:46:01
1	Y 371.029	907196.1	907196.1	86.041 %		12:46:01
1	Ag 328.068†	5948.7	3048.0	-1.2857 µg/L	-1.2857 ppb	12:46:01
1	As 188.979†	-98.3	-95.2	11.695 µg/L	11.695 ppb	12:46:21
1	B 249.677†	3333.8	524.0	8.5646 µg/L	8.5646 ppb	12:46:01
1	Ba 233.527†	435.8	652.0	0.3913 µg/L	0.3913 ppb	12:46:21
1	Be 313.107†	-1269.0	-604.4	-0.1805 µg/L	-0.1805 ppb	12:46:01
1	Cd 226.502†	2297.8	2726.1	-1.3470 µg/L	-1.3470 ppb	12:46:21
1	Co 228.616†	84.2	263.3	-6.5321 µg/L	-6.5321 ppb	12:46:21
1	Cr 267.716†	214.8	83.7	1.4332 µg/L	1.4332 ppb	12:46:21
1	Cu 324.752†	-4991.1	-8539.7	5.4109 µg/L	5.4109 ppb	12:46:01
1	Mn 257.610†	15618.1	17618.3	3.6589 µg/L	3.6589 ppb	12:46:01
1	Mo 202.031†	-541.3	-598.8	-2.5536 µg/L	-2.5536 ppb	12:46:21
1	Ni 231.604†	151.6	255.4	3.2691 µg/L	3.2691 ppb	12:46:21
1	P 214.914†	159.4	195.6	28.446 µg/L	28.446 ppb	12:46:21
1	Pb 220.353†	-364.6	-491.2	-5.0134 µg/L	-5.0134 ppb	12:46:21
1	S 181.975 Axial†	153.9	71.5	59.621 µg/L	59.621 ppb	12:46:21
1	Sb 206.836†	105.0	46.7	-0.0195 µg/L	-0.0195 ppb	12:46:21
1	Se 196.026†	-148.2	-181.8	-6.20 µg/L	-6.20 ppb	12:46:21
1	SiO2†	1625.1	146.5	16.299 µg/L	16.299 ppb	12:46:21
1	Si 251.611†	614.1	-186.0	-2.7895 µg/L	-2.7895 ppb	12:46:21
1	Sn 189.927†	38.4	44.2	3.1354 µg/L	3.1354 ppb	12:46:21
1	Ti 334.940†	20224.3	22335.0	-4.9255 µg/L	-4.9255 ppb	12:46:01
1	Tl 190.801†	-160.9	-70.5	-9.1490 µg/L	-9.1490 ppb	12:46:21
1	U 409.014†	-212.0	-26.4	-23.469 µg/L	-23.469 ppb	12:46:01
1	V 292.402†	3571.7	3763.5	-0.5739 µg/L	-0.5739 ppb	12:46:21
1	Zn 213.857†	4127.8	4183.5	9.4222 µg/L	9.4222 ppb	12:46:21
2	Sc RADIAL	133113.5	133113.5	89.9 %		12:45:53
2	Al 396.153Radial†	2316172.7	2576742.7	513880 µg/L	513880 ppb	12:45:51
2	Ca 317.933Radial†	7245068.6	8059341.8	492850 µg/L	492850 ppb	12:45:51
2	Fe 238.204 Radial†	2585443.3	2876101.1	194940 µg/L	194940 ppb	12:45:51
2	K 766.490 Radial†	1605.4	236.2	-149.74 µg/L	-149.74 ppb	12:45:53
2	Mg 279.077 IEC†	1081409.8	1202857.4	495870 µg/L	495870 ppb	12:45:51
2	Na 589.592 Radial†	1567.5	424.8	63.693 µg/L	63.693 ppb	12:45:53
2	Sr 421.552†	1303.3	1727.9	0.0287 µg/L	0.0287 ppb	12:45:53
2	Sc 361.383	1516933.6	1516933.6	86.654 %		12:46:24
2	Y 371.029	898491.9	898491.9	85.215 %		12:46:24
2	Ag 328.068†	5708.3	2842.6	-2.1305 µg/L	-2.1305 ppb	12:46:24
2	As 188.979†	-114.4	-114.9	5.2133 µg/L	5.2133 ppb	12:46:44
2	B 249.677†	3175.8	382.1	6.2415 µg/L	6.2415 ppb	12:46:24
2	Ba 233.527†	415.3	633.8	0.3042 µg/L	0.3042 ppb	12:46:44
2	Be 313.107†	-900.1	-194.1	-0.0540 µg/L	-0.0540 ppb	12:46:24
2	Cd 226.502†	2292.5	2747.8	-1.2506 µg/L	-1.2506 ppb	12:46:44
2	Co 228.616†	82.2	262.0	-6.5782 µg/L	-6.5782 ppb	12:46:44
2	Cr 267.716†	210.6	81.5	1.4121 µg/L	1.4121 ppb	12:46:44
2	Cu 324.752†	-5031.5	-8646.8	5.0659 µg/L	5.0659 ppb	12:46:24
2	Mn 257.610†	15367.9	17518.7	3.4921 µg/L	3.4921 ppb	12:46:24
2	Mo 202.031†	-528.9	-591.0	-2.2664 µg/L	-2.2664 ppb	12:46:44
2	Ni 231.604†	129.5	231.8	2.9673 µg/L	2.9673 ppb	12:46:44
2	P 214.914†	159.6	197.8	29.290 µg/L	29.290 ppb	12:46:44
2	Pb 220.353†	-317.1	-440.8	-1.7355 µg/L	-1.7355 ppb	12:46:44

2	S 181.975 Axial†	173.3	95.8	79.927 µg/L	79.927 ppb	12:46:44
2	Sb 206.836†	108.2	51.7	0.6147 µg/L	0.6147 ppb	12:46:44
2	Se 196.026†	-140.1	-174.2	-2.94 µg/L	-2.94 ppb	12:46:44
2	SiO2†	1631.6	173.6	19.202 µg/L	19.202 ppb	12:46:44
2	Si 251.611†	584.8	-212.5	-3.2279 µg/L	-3.2279 ppb	12:46:44
2	Sn 189.927†	46.4	53.9	3.8072 µg/L	3.8072 ppb	12:46:44
2	Ti 334.940†	20046.2	22374.5	-4.9204 µg/L	-4.9204 ppb	12:46:24
2	Tl 190.801†	-169.5	-82.4	-10.760 µg/L	-10.760 ppb	12:46:44
2	U 409.014†	-14.0	199.4	-9.1407 µg/L	-9.1407 ppb	12:46:24
2	V 292.402†	3588.7	3826.4	-0.2806 µg/L	-0.2806 ppb	12:46:44
2	Zn 213.857†	4135.3	4242.1	9.7725 µg/L	9.7725 ppb	12:46:44
3	Sc RADIAL	133558.4	133558.4	90.2 %		12:45:57
3	Al 396.153Radial†	2305828.8	2556689.7	509880 µg/L	509880 ppb	12:45:55
3	Ca 317.933Radial†	7200225.7	7982770.3	488170 µg/L	488170 ppb	12:45:55
3	Fe 238.204 Radial†	2568915.9	2848194.0	193050 µg/L	193050 ppb	12:45:55
3	K 766.490 Radial†	1625.7	252.8	-140.88 µg/L	-140.88 ppb	12:45:57
3	Mg 279.077 IEC†	1074550.9	1191244.6	491090 µg/L	491090 ppb	12:45:55
3	Na 589.592 Radial†	1373.0	203.3	30.437 µg/L	30.437 ppb	12:45:57
3	Sr 421.552†	1381.6	1810.0	0.2499 µg/L	0.2499 ppb	12:45:57
3	Sc 361.383	1538809.4	1538809.4	87.903 %		12:46:47
3	Y 371.029	911750.1	911750.1	86.473 %		12:46:47
3	Ag 328.068†	6096.3	3190.4	-0.6050 µg/L	-0.6050 ppb	12:46:47
3	As 188.979†	-100.0	-96.6	10.909 µg/L	10.909 ppb	12:47:07
3	B 249.677†	3150.9	301.6	4.9241 µg/L	4.9241 ppb	12:46:47
3	Ba 233.527†	409.7	620.6	0.2699 µg/L	0.2699 ppb	12:47:07
3	Be 313.107†	-1268.5	-598.4	-0.1757 µg/L	-0.1757 ppb	12:46:47
3	Cd 226.502†	2303.8	2723.0	-1.2254 µg/L	-1.2254 ppb	12:47:07
3	Co 228.616†	98.0	278.7	-6.2514 µg/L	-6.2514 ppb	12:47:07
3	Cr 267.716†	173.8	36.2	1.0172 µg/L	1.0172 ppb	12:47:07
3	Cu 324.752†	-4941.7	-8462.0	5.4425 µg/L	5.4425 ppb	12:46:47
3	Mn 257.610†	15656.1	17594.5	3.7893 µg/L	3.7893 ppb	12:46:47
3	Mo 202.031†	-532.8	-586.8	-2.2940 µg/L	-2.2940 ppb	12:47:07
3	Ni 231.604†	147.3	249.9	3.1988 µg/L	3.1988 ppb	12:47:07
3	P 214.914†	186.0	225.2	36.251 µg/L	36.251 ppb	12:47:07
3	Pb 220.353†	-323.1	-442.3	-2.0136 µg/L	-2.0136 ppb	12:47:07
3	S 181.975 Axial†	183.6	104.7	87.323 µg/L	87.323 ppb	12:47:07
3	Sb 206.836†	131.8	76.7	3.9481 µg/L	3.9481 ppb	12:47:07
3	Se 196.026†	-149.5	-182.7	-7.04 µg/L	-7.04 ppb	12:47:07
3	SiO2†	1679.4	201.2	22.182 µg/L	22.182 ppb	12:47:07
3	Si 251.611†	597.1	-208.0	-3.1532 µg/L	-3.1532 ppb	12:47:07
3	Sn 189.927†	40.4	46.3	3.2859 µg/L	3.2859 ppb	12:47:07
3	Ti 334.940†	21570.5	23779.7	-3.2289 µg/L	-3.2289 ppb	12:46:47
3	Tl 190.801†	-164.3	-73.7	-9.5657 µg/L	-9.5657 ppb	12:47:07
3	U 409.014†	-74.8	130.5	-13.325 µg/L	-13.325 ppb	12:46:47
3	V 292.402†	3562.9	3738.3	-0.5576 µg/L	-0.5576 ppb	12:47:07
3	Zn 213.857†	4075.6	4106.4	9.1009 µg/L	9.1009 ppb	12:47:07

Mean Data: ICESA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1529590.5	87.377 %		0.6476			0.74%
Sc RADIAL	133689.1	90.3 %		0.44			0.49%
Y 371.029	905812.7	85.909 %		0.6389			0.74%
Ag 328.068†	3027.0	-1.3404 µg/L		0.76422	-1.3404 ppb	0.76422	57.01%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2565066.9	511550 µg/L		2079.2	511550 ppb	2079.2	0.41%
QC value within limits for Al 396.153Radial Recovery = 102.31%							
As 188.979†	-102.2	9.2724 µg/L		3.53712	9.2724 ppb	3.53712	38.15%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	402.6	6.5767 µg/L		1.84328	6.5767 ppb	1.84328	28.03%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	635.5	0.3218 µg/L		0.06258	0.3218 ppb	0.06258	19.45%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-465.6	-0.1367 µg/L		0.07170	-0.1367 ppb	0.07170	52.45%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	8026630.5	490850 µg/L		2414.6	490850 ppb	2414.6	0.49%
QC value within limits for Ca 317.933Radial Recovery = 98.17%							
Cd 226.502†	2732.3	-1.2743 µg/L		0.06419	-1.2743 ppb	0.06419	5.04%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	268.0	-6.4539 µg/L		0.17687	-6.4539 ppb	0.17687	2.74%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	67.1	1.2875 µg/L	0.23430	1.2875 ppb	0.23430	18.20%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-8549.5	5.3064 µg/L	0.20892	5.3064 ppb	0.20892	3.94%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	2864199.5	194140 µg/L	976.0	194140 ppb	976.0	0.50%	
QC value within limits for Fe 238.204 Radial Recovery = 97.07%							
K 766.490 Radial†	220.4	-155.07 µg/L	17.486	-155.07 ppb	17.486	11.28%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1198356.9	494020 µg/L	2568.9	494020 ppb	2568.9	0.52%	
QC value within limits for Mg 279.077 IEC Recovery = 98.80%							
Mn 257.610†	17577.2	3.6468 µg/L	0.14899	3.6468 ppb	0.14899	4.09%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-592.2	-2.3714 µg/L	0.15841	-2.3714 ppb	0.15841	6.68%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	328.3	49.210 µg/L	17.0378	49.210 ppb	17.0378	34.62%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	245.7	3.1451 µg/L	0.15788	3.1451 ppb	0.15788	5.02%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	206.2	31.329 µg/L	4.2837	31.329 ppb	4.2837	13.67%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-458.1	-2.9208 µg/L	1.81753	-2.9208 ppb	1.81753	62.23%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	90.7	75.624 µg/L	14.3437	75.624 ppb	14.3437	18.97%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	58.4	1.5144 µg/L	2.13135	1.5144 ppb	2.13135	140.74%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-179.6	-5.39 µg/L	2.163	-5.39 ppb	2.163	40.09%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	173.8	19.227 µg/L	2.9416	19.227 ppb	2.9416	15.30%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-202.2	-3.0569 µg/L	0.23452	-3.0569 ppb	0.23452	7.67%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	48.1	3.4095 µg/L	0.35253	3.4095 ppb	0.35253	10.34%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	1757.7	0.1113 µg/L	0.12075	0.1113 ppb	0.12075	108.48%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	22829.7	-4.3583 µg/L	0.97805	-4.3583 ppb	0.97805	22.44%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-75.5	-9.8249 µg/L	0.83618	-9.8249 ppb	0.83618	8.51%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	101.2	-15.312 µg/L	7.3679	-15.312 ppb	7.3679	48.12%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	3776.1	-0.4707 µg/L	0.16486	-0.4707 ppb	0.16486	35.02%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	4177.4	9.4318 µg/L	0.33590	9.4318 ppb	0.33590	3.56%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/31/2010 12:47:14

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	134957.7	134957.7	91.1 %		12:47:46
1	Al 396.153Radial†	2348945.4	2577492.0	514010 µg/L	514010 ppb	12:47:44
1	Ca 317.933Radial†	7366574.4	8082524.7	494270 µg/L	494270 ppb	12:47:44
1	Fe 238.204 Radial†	2634984.8	2891156.7	195960 µg/L	195960 ppb	12:47:44
1	K 766.490 Radial†	14610.9	14482.4	5614.8 µg/L	5614.8 ppb	12:47:46
1	Mg 279.077 IEC†	1089916.3	1195751.3	492950 µg/L	492950 ppb	12:47:46
1	Na 589.592 Radial†	34103.4	36101.7	5415.3 µg/L	5415.3 ppb	12:47:46
1	Sr 421.552†	210505.6	231259.9	516.26 µg/L	516.26 ppb	12:47:46
1	Sc 361.383	1547343.8	1547343.8	88.391 %		12:48:14
1	Y 371.029	916526.5	916526.5	86.926 %		12:48:14
1	Ag 328.068†	63777.3	68409.0	269.35 µg/L	269.35 ppb	12:48:14
1	As 188.979†	1280.0	1465.2	540.72 µg/L	540.72 ppb	12:48:16
1	B 249.677†	31634.4	32506.4	530.50 µg/L	530.50 ppb	12:48:14
1	Ba 233.527†	101756.0	115275.2	506.51 µg/L	506.51 ppb	12:48:14
1	Be 313.107†	732044.4	829036.6	247.00 µg/L	247.00 ppb	12:48:14
1	Cd 226.502†	63765.2	72242.3	485.68 µg/L	485.68 ppb	12:48:14
1	Co 228.616†	29498.1	33539.5	449.71 µg/L	449.71 ppb	12:48:16
1	Cr 267.716†	50816.2	57328.9	494.21 µg/L	494.21 ppb	12:48:16
1	Cu 324.752†	108153.5	119518.2	550.38 µg/L	550.38 ppb	12:48:14
1	Mn 257.610†	333111.6	376646.8	488.94 µg/L	488.94 ppb	12:48:14
1	Mo 202.031†	13144.1	14889.8	496.70 µg/L	496.70 ppb	12:48:16
1	Ni 231.604†	31790.7	36048.4	461.49 µg/L	461.49 ppb	12:48:16
1	P 214.914†	9675.6	10960.0	2603.7 µg/L	2603.7 ppb	12:48:16
1	Pb 220.353†	6517.5	7298.7	479.03 µg/L	479.03 ppb	12:48:16
1	S 181.975 Axial†	3033.5	3327.7	2785.6 µg/L	2785.6 ppb	12:48:16
1	Sb 206.836†	3495.6	3881.5	503.59 µg/L	503.59 ppb	12:48:16
1	Se 196.026†	5217.6	5890.3	2460 µg/L	2460 ppb	12:48:16
1	SiO2†	93643.8	104233.9	11216 µg/L	11216 ppb	12:48:14
1	Si 251.611†	286448.6	323183.8	5248.4 µg/L	5248.4 ppb	12:48:14
1	Sn 189.927†	6298.4	7125.9	495.27 µg/L	495.27 ppb	12:48:16
1	Ti 334.940†	469146.5	530005.5	508.56 µg/L	508.56 ppb	12:48:14
1	Tl 190.801†	2901.9	3396.2	469.27 µg/L	469.27 ppb	12:48:16
1	U 409.014†	6916.9	8040.9	521.95 µg/L	521.95 ppb	12:48:14
1	V 292.402†	88783.6	100129.6	522.50 µg/L	522.50 ppb	12:48:14
1	Zn 213.857†	74215.1	83432.5	501.61 µg/L	501.61 ppb	12:48:14
2	Sc RADIAL	135495.7	135495.7	91.5 %		12:47:51
2	Al 396.153Radial†	2340018.5	2557501.7	510020 µg/L	510020 ppb	12:47:49
2	Ca 317.933Radial†	7312557.9	7991394.4	488700 µg/L	488700 ppb	12:47:49
2	Fe 238.204 Radial†	2614393.2	2857171.8	193660 µg/L	193660 ppb	12:47:49
2	K 766.490 Radial†	14702.0	14518.2	5631.1 µg/L	5631.1 ppb	12:47:51
2	Mg 279.077 IEC†	1100540.6	1202614.2	495790 µg/L	495790 ppb	12:47:51
2	Na 589.592 Radial†	34136.8	35989.6	5398.4 µg/L	5398.4 ppb	12:47:51
2	Sr 421.552†	211612.5	231552.5	516.97 µg/L	516.97 ppb	12:47:51
2	Sc 361.383	1523630.9	1523630.9	87.036 %		12:48:19
2	Y 371.029	902312.8	902312.8	85.577 %		12:48:19
2	Ag 328.068†	63335.3	69024.2	271.99 µg/L	271.99 ppb	12:48:19
2	As 188.979†	1289.6	1498.8	551.53 µg/L	551.53 ppb	12:48:21
2	B 249.677†	31204.4	32569.4	531.50 µg/L	531.50 ppb	12:48:19
2	Ba 233.527†	100442.6	115557.8	507.79 µg/L	507.79 ppb	12:48:19
2	Be 313.107†	723794.5	832447.4	248.01 µg/L	248.01 ppb	12:48:19
2	Cd 226.502†	62910.2	72382.7	486.91 µg/L	486.91 ppb	12:48:19
2	Co 228.616†	29566.2	34137.2	458.02 µg/L	458.02 ppb	12:48:21
2	Cr 267.716†	50776.6	58178.1	501.41 µg/L	501.41 ppb	12:48:21
2	Cu 324.752†	107013.1	120112.3	552.65 µg/L	552.65 ppb	12:48:19
2	Mn 257.610†	328999.0	377786.9	490.38 µg/L	490.38 ppb	12:48:19
2	Mo 202.031†	13214.2	15201.8	506.71 µg/L	506.71 ppb	12:48:21
2	Ni 231.604†	31975.5	36820.5	471.38 µg/L	471.38 ppb	12:48:21
2	P 214.914†	9742.3	11207.1	2663.6 µg/L	2663.6 ppb	12:48:21
2	Pb 220.353†	6420.4	7302.0	479.09 µg/L	479.09 ppb	12:48:21

2	S 181.975 Axial†	2985.7	3326.2	2784.3 µg/L	2784.3 ppb	12:48:21
2	Sb 206.836†	3610.1	4074.6	528.98 µg/L	528.98 ppb	12:48:21
2	Se 196.026†	5174.7	5932.9	2470 µg/L	2470 ppb	12:48:21
2	SiO2†	92101.6	104110.8	11202 µg/L	11202 ppb	12:48:19
2	Si 251.611†	282891.4	324140.3	5263.7 µg/L	5263.7 ppb	12:48:19
2	Sn 189.927†	6278.7	7214.2	501.39 µg/L	501.39 ppb	12:48:21
2	Ti 334.940†	464164.1	532541.5	510.75 µg/L	510.75 ppb	12:48:19
2	Tl 190.801†	2895.3	3439.8	475.17 µg/L	475.17 ppb	12:48:21
2	U 409.014†	6742.6	7962.5	517.23 µg/L	517.23 ppb	12:48:19
2	V 292.402†	87383.6	100084.3	522.63 µg/L	522.63 ppb	12:48:19
2	Zn 213.857†	73200.7	83573.8	502.66 µg/L	502.66 ppb	12:48:19
3	Sc RADIAL	135007.1	135007.1	91.2 %		12:47:55
3	Al 396.153Radial†	2319293.0	2544023.7	507330 µg/L	507330 ppb	12:47:53
3	Ca 317.933Radial†	7247094.4	7948511.8	486070 µg/L	486070 ppb	12:47:53
3	Fe 238.204 Radial†	2590735.6	2841562.8	192600 µg/L	192600 ppb	12:47:53
3	K 766.490 Radial†	14651.7	14521.2	5633.6 µg/L	5633.6 ppb	12:47:55
3	Mg 279.077 IEC†	1091048.5	1196555.4	493290 µg/L	493290 ppb	12:47:55
3	Na 589.592 Radial†	34062.3	36042.9	5406.4 µg/L	5406.4 ppb	12:47:55
3	Sr 421.552†	210108.5	230739.8	515.16 µg/L	515.16 ppb	12:47:55
3	Sc 361.383	1522437.9	1522437.9	86.968 %		12:48:24
3	Y 371.029	901940.5	901940.5	85.542 %		12:48:24
3	Ag 328.068†	62911.4	68593.8	270.30 µg/L	270.30 ppb	12:48:24
3	As 188.979†	1252.9	1457.7	537.55 µg/L	537.55 ppb	12:48:26
3	B 249.677†	31273.1	32676.5	533.26 µg/L	533.26 ppb	12:48:24
3	Ba 233.527†	99706.7	114802.0	504.46 µg/L	504.46 ppb	12:48:24
3	Be 313.107†	718999.3	827585.2	246.57 µg/L	246.57 ppb	12:48:24
3	Cd 226.502†	62316.3	71756.5	482.63 µg/L	482.63 ppb	12:48:24
3	Co 228.616†	29432.9	34010.6	456.34 µg/L	456.34 ppb	12:48:26
3	Cr 267.716†	50704.3	58140.8	501.09 µg/L	501.09 ppb	12:48:26
3	Cu 324.752†	106406.9	119511.6	549.87 µg/L	549.87 ppb	12:48:24
3	Mn 257.610†	327311.9	376143.2	488.26 µg/L	488.26 ppb	12:48:24
3	Mo 202.031†	13098.4	15080.6	502.72 µg/L	502.72 ppb	12:48:26
3	Ni 231.604†	31794.1	36640.7	469.07 µg/L	469.07 ppb	12:48:26
3	P 214.914†	9768.7	11246.2	2673.2 µg/L	2673.2 ppb	12:48:26
3	Pb 220.353†	6406.9	7292.1	478.34 µg/L	478.34 ppb	12:48:26
3	S 181.975 Axial†	2958.3	3297.5	2760.3 µg/L	2760.3 ppb	12:48:26
3	Sb 206.836†	3637.8	4109.7	533.56 µg/L	533.56 ppb	12:48:26
3	Se 196.026†	5222.4	5992.3	2500 µg/L	2500 ppb	12:48:26
3	SiO2†	91870.6	103928.1	11183 µg/L	11183 ppb	12:48:24
3	Si 251.611†	281191.2	322440.1	5236.1 µg/L	5236.1 ppb	12:48:24
3	Sn 189.927†	6295.1	7238.7	503.08 µg/L	503.08 ppb	12:48:26
3	Ti 334.940†	461507.9	529905.1	508.22 µg/L	508.22 ppb	12:48:24
3	Tl 190.801†	2890.1	3436.3	474.66 µg/L	474.66 ppb	12:48:26
3	U 409.014†	6721.6	7944.4	516.10 µg/L	516.10 ppb	12:48:24
3	V 292.402†	87040.7	99768.7	521.01 µg/L	521.01 ppb	12:48:24
3	Zn 213.857†	72869.1	83258.4	500.79 µg/L	500.79 ppb	12:48:24

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1531137.5	87.465 %	0.8025			0.92%
Sc RADIAL	135153.5	91.3 %	0.20			0.22%
Y 371.029	906926.6	86.015 %	0.7887			0.92%
Ag 328.068†	68675.7	270.55 µg/L	1.334	270.55 ppb	1.334	0.49%
QC value within limits for Ag 328.068 Recovery = 108.22%						
Al 396.153Radial†	2559672.5	510460 µg/L	3358.5	510460 ppb	3358.5	0.66%
QC value within limits for Al 396.153Radial Recovery = 102.09%						
As 188.979†	1473.9	543.27 µg/L	7.332	543.27 ppb	7.332	1.35%
QC value within limits for As 188.979 Recovery = 108.65%						
B 249.677†	32584.1	531.76 µg/L	1.398	531.76 ppb	1.398	0.26%
QC value within limits for B 249.677 Recovery = 106.35%						
Ba 233.527†	115211.7	506.25 µg/L	1.676	506.25 ppb	1.676	0.33%
QC value within limits for Ba 233.527 Recovery = 101.25%						
Be 313.107†	829689.7	247.19 µg/L	0.743	247.19 ppb	0.743	0.30%
QC value within limits for Be 313.107 Recovery = 98.88%						
Ca 317.933Radial†	8007477.0	489680 µg/L	4185.2	489680 ppb	4185.2	0.85%
QC value within limits for Ca 317.933Radial Recovery = 97.94%						
Cd 226.502†	72127.2	485.07 µg/L	2.202	485.07 ppb	2.202	0.45%
QC value within limits for Cd 226.502 Recovery = 97.01%						
Co 228.616†	33895.8	454.69 µg/L	4.392	454.69 ppb	4.392	0.97%

QC value within limits for Co 228.616 Recovery = 90.94%							
Cr 267.716†	57882.6	498.90 µg/L	4.067	498.90 ppb	4.067	0.82%	
QC value within limits for Cr 267.716 Recovery = 99.78%							
Cu 324.752†	119714.0	550.97 µg/L	1.478	550.97 ppb	1.478	0.27%	
QC value within limits for Cu 324.752 Recovery = 110.19%							
Fe 238.204 Radial†	2863297.1	194080 µg/L	1718.8	194080 ppb	1718.8	0.89%	
QC value within limits for Fe 238.204 Radial Recovery = 97.04%							
K 766.490 Radial†	14507.3	5626.5 µg/L	10.17	5626.5 ppb	10.17	0.18%	
QC value within limits for K 766.490 Radial Recovery = 112.53%							
Mg 279.077 IEC†	1198307.0	494010 µg/L	1547.7	494010 ppb	1547.7	0.31%	
QC value within limits for Mg 279.077 IEC Recovery = 98.80%							
Mn 257.610†	376859.0	489.19 µg/L	1.082	489.19 ppb	1.082	0.22%	
QC value within limits for Mn 257.610 Recovery = 97.84%							
Mo 202.031†	15057.4	502.04 µg/L	5.040	502.04 ppb	5.040	1.00%	
QC value within limits for Mo 202.031 Recovery = 100.41%							
Na 589.592 Radial†	36044.7	5406.7 µg/L	8.42	5406.7 ppb	8.42	0.16%	
QC value within limits for Na 589.592 Radial Recovery = 108.13%							
Ni 231.604†	36503.2	467.31 µg/L	5.172	467.31 ppb	5.172	1.11%	
QC value within limits for Ni 231.604 Recovery = 93.46%							
P 214.914†	11137.7	2646.8 µg/L	37.65	2646.8 ppb	37.65	1.42%	
QC value within limits for P 214.914 Recovery = 105.87%							
Pb 220.353†	7297.6	478.82 µg/L	0.419	478.82 ppb	0.419	0.09%	
QC value within limits for Pb 220.353 Recovery = 95.76%							
S 181.975 Axial†	3317.1	2776.7 µg/L	14.24	2776.7 ppb	14.24	0.51%	
QC value within limits for S 181.975 Axial Recovery = 111.07%							
Sb 206.836†	4021.9	522.04 µg/L	16.145	522.04 ppb	16.145	3.09%	
QC value within limits for Sb 206.836 Recovery = 104.41%							
Se 196.026†	5938.5	2470 µg/L	20.2	2470 ppb	20.2	0.82%	
QC value within limits for Se 196.026 Recovery = 98.96%							
SiO2†	104090.9	11200 µg/L	16.7	11200 ppb	16.7	0.15%	
QC value within limits for SiO2 Recovery = 104.73%							
Si 251.611†	323254.7	5249.4 µg/L	13.84	5249.4 ppb	13.84	0.26%	
QC value within limits for Si 251.611 Recovery = 104.99%							
Sn 189.927†	7192.9	499.91 µg/L	4.110	499.91 ppb	4.110	0.82%	
QC value within limits for Sn 189.927 Recovery = 99.98%							
Sr 421.552†	231184.1	516.13 µg/L	0.911	516.13 ppb	0.911	0.18%	
QC value within limits for Sr 421.552 Recovery = 103.23%							
Ti 334.940†	530817.3	509.18 µg/L	1.374	509.18 ppb	1.374	0.27%	
QC value within limits for Ti 334.940 Recovery = 101.84%							
Tl 190.801†	3424.1	473.03 µg/L	3.267	473.03 ppb	3.267	0.69%	
QC value within limits for Tl 190.801 Recovery = 94.61%							
U 409.014†	7982.6	518.43 µg/L	3.105	518.43 ppb	3.105	0.60%	
QC value within limits for U 409.014 Recovery = 103.69%							
V 292.402†	99994.2	522.04 µg/L	0.899	522.04 ppb	0.899	0.17%	
QC value within limits for V 292.402 Recovery = 104.41%							
Zn 213.857†	83421.6	501.68 µg/L	0.934	501.68 ppb	0.934	0.19%	
QC value within limits for Zn 213.857 Recovery = 100.34%							
All analyte(s) passed QC.							

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

Autosampler Location: 105
 Date Collected: 3/31/2010 12:48:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LRL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	134380.1	134380.1	90.7 %			12:49:05
1	Al 396.153Radial†	2266986.5	2498253.3	498230 µg/L		498230 ppb	12:49:03
1	Ca 317.933Radial†	7106282.6	7830431.2	478850 µg/L		478850 ppb	12:49:03
1	Fe 238.204 Radial†	6087939.5	6708699.6	454720 µg/L		454720 ppb	12:49:03
1	K 766.490 Radial†	2160.9	831.5	16.875 µg/L		16.875 ppb	12:49:05
1	Mg 279.077 IEC†	1052011.0	1159120.8	477610 µg/L		477610 ppb	12:49:03
1	Na 589.592 Radial†	3040279.1	3349032.2	502840 µg/L		502840 ppb	12:49:03
1	Sr 421.552†	4687.7	5443.9	8.4959 µg/L		8.4959 ppb	12:49:05
1	Sc 361.383	1470227.2	1470227.2	83.985 %			12:49:19
1	Y 371.029	866944.3	866944.3	82.223 %			12:49:19
1	Ag 328.068†	1729.2	-1685.9	-1.0093 µg/L		-1.0093 ppb	12:49:19
1	As 188.979†	-236.9	-265.0	13.200 µg/L		13.200 ppb	12:49:39
1	B 249.677†	4100.2	1599.2	26.133 µg/L		26.133 ppb	12:49:19
1	Ba 233.527†	608.0	878.4	-1.9390 µg/L		-1.9390 ppb	12:49:39
1	Be 313.107†	-14698.9	-16657.0	0.0789 µg/L		0.0789 ppb	12:49:19
1	Cd 226.502†	5620.1	6793.9	-0.2247 µg/L		-0.2247 ppb	12:49:19
1	Co 228.616†	639.3	928.4	-11.001 µg/L		-11.001 ppb	12:49:39
1	Cr 267.716†	349.7	254.8	-0.9684 µg/L		-0.9684 ppb	12:49:39
1	Cu 324.752†	-14582.1	-20203.0	7.0758 µg/L		7.0758 ppb	12:49:19
1	Mn 257.610†	17042.3	20075.9	6.9849 µg/L		6.9849 ppb	12:49:19
1	Mo 202.031†	-925.0	-1082.0	-8.1402 µg/L		-8.1402 ppb	12:49:19
1	Ni 231.604†	168.5	283.0	3.6226 µg/L		3.6226 ppb	12:49:39
1	P 214.914†	977.5	1177.4	84.957 µg/L		84.957 ppb	12:49:39
1	Pb 220.353†	-4.6	-80.3	-1.2248 µg/L		-1.2248 ppb	12:49:39
1	S 181.975 Axial†	171.1	99.6	82.937 µg/L		82.937 ppb	12:49:39
1	Sb 206.836†	118.1	67.4	-0.6911 µg/L		-0.6911 ppb	12:49:39
1	Se 196.026†	-371.7	-455.2	-10.6 µg/L		-10.6 ppb	12:49:39
1	SiO2†	1829.5	469.1	51.450 µg/L		51.450 ppb	12:49:39
1	Si 251.611†	-1626.2	-2823.7	-45.525 µg/L		-45.525 ppb	12:49:19
1	Sn 189.927†	94.1	112.4	7.8737 µg/L		7.8737 ppb	12:49:39
1	Ti 334.940†	23353.0	27046.7	-5.9072 µg/L		-5.9072 ppb	12:49:19
1	Tl 190.801†	-186.5	-108.8	-14.201 µg/L		-14.201 ppb	12:49:39
1	U 409.014†	219802.2	261930.2	16588 µg/L		16588 ppb	12:49:19
1	V 292.402†	6436.5	7348.8	2.2124 µg/L		2.2124 ppb	12:49:19
1	Zn 213.857†	8012.4	9010.1	12.048 µg/L		12.048 ppb	12:49:39
2	Sc RADIAL	132469.6	132469.6	89.5 %			12:49:10
2	Al 396.153Radial†	2216171.2	2477476.5	494090 µg/L		494090 ppb	12:49:08
2	Ca 317.933Radial†	6929061.3	7745257.3	473640 µg/L		473640 ppb	12:49:08
2	Fe 238.204 Radial†	5926655.5	6625157.4	449060 µg/L		449060 ppb	12:49:08
2	K 766.490 Radial†	2209.0	919.6	55.457 µg/L		55.457 ppb	12:49:10
2	Mg 279.077 IEC†	1022795.9	1143181.1	471050 µg/L		471050 ppb	12:49:08
2	Na 589.592 Radial†	2978647.0	3328453.2	499750 µg/L		499750 ppb	12:49:08
2	Sr 421.552†	4822.1	5668.6	9.0421 µg/L		9.0421 ppb	12:49:10
2	Sc 361.383	1487762.4	1487762.4	84.987 %			12:49:42
2	Y 371.029	877621.5	877621.5	83.236 %			12:49:42
2	Ag 328.068†	1788.3	-1640.6	-0.5652 µg/L		-0.5652 ppb	12:49:42
2	As 188.979†	-230.5	-254.0	15.601 µg/L		15.601 ppb	12:50:02
2	B 249.677†	4026.6	1455.1	23.774 µg/L		23.774 ppb	12:49:42
2	Ba 233.527†	657.7	928.3	-1.6452 µg/L		-1.6452 ppb	12:50:02
2	Be 313.107†	-15057.1	-16872.3	0.0375 µg/L		0.0375 ppb	12:49:42
2	Cd 226.502†	5688.7	6795.7	0.3833 µg/L		0.3833 ppb	12:49:42
2	Co 228.616†	653.3	935.9	-10.603 µg/L		-10.603 ppb	12:50:02
2	Cr 267.716†	348.2	248.1	-1.2008 µg/L		-1.2008 ppb	12:50:02
2	Cu 324.752†	-14918.0	-20393.5	5.3258 µg/L		5.3258 ppb	12:49:42
2	Mn 257.610†	17321.0	20164.7	7.3804 µg/L		7.3804 ppb	12:49:42
2	Mo 202.031†	-840.5	-969.6	-4.8629 µg/L		-4.8629 ppb	12:49:42
2	Ni 231.604†	180.9	295.1	3.7782 µg/L		3.7782 ppb	12:50:02
2	P 214.914†	980.2	1166.9	85.338 µg/L		85.338 ppb	12:50:02
2	Pb 220.353†	-36.0	-117.2	-3.6271 µg/L		-3.6271 ppb	12:50:02

2	S 181.975 Axial†	182.1	110.1	91.792 µg/L	91.792 ppb	12:50:02
2	Sb 206.836†	123.5	72.1	0.0872 µg/L	0.0872 ppb	12:50:02
2	Se 196.026†	-372.6	-451.1	-10.8 µg/L	-10.8 ppb	12:50:02
2	SiO2†	1785.9	392.2	43.038 µg/L	43.038 ppb	12:50:02
2	Si 251.611†	-1640.4	-2817.5	-45.479 µg/L	-45.479 ppb	12:49:42
2	Sn 189.927†	106.3	125.4	8.7789 µg/L	8.7789 ppb	12:50:02
2	Ti 334.940†	24240.0	27762.6	-4.8139 µg/L	-4.8139 ppb	12:49:42
2	Tl 190.801†	-204.0	-126.8	-16.628 µg/L	-16.628 ppb	12:50:02
2	U 409.014†	223423.7	263106.8	16664 µg/L	16664 ppb	12:49:42
2	V 292.402†	6504.9	7339.0	2.8444 µg/L	2.8444 ppb	12:49:42
2	Zn 213.857†	8053.7	8946.4	12.229 µg/L	12.229 ppb	12:50:02
3	Sc RADIAL	131190.5	131190.5	88.6 %		12:49:14
3	Al 396.153Radial†	2245884.1	2535170.5	505590 µg/L	505590 ppb	12:49:12
3	Ca 317.933Radial†	7011992.7	7914390.2	483990 µg/L	483990 ppb	12:49:12
3	Fe 238.204 Radial†	6000086.0	6772640.5	459050 µg/L	459050 ppb	12:49:12
3	K 766.490 Radial†	2338.3	1089.6	117.24 µg/L	117.24 ppb	12:49:14
3	Mg 279.077 IEC†	1036464.1	1169757.2	482000 µg/L	482000 ppb	12:49:12
3	Na 589.592 Radial†	3009849.3	3396138.9	509910 µg/L	509910 ppb	12:49:12
3	Sr 421.552†	4928.4	5841.2	9.3492 µg/L	9.3492 ppb	12:49:14
3	Sc 361.383	1476398.0	1476398.0	84.338 %		12:50:04
3	Y 371.029	870791.8	870791.8	82.588 %		12:50:04
3	Ag 328.068†	1641.0	-1799.1	-1.6381 µg/L	-1.6381 ppb	12:50:04
3	As 188.979†	-240.0	-267.5	13.334 µg/L	13.334 ppb	12:50:24
3	B 249.677†	3961.6	1414.4	23.109 µg/L	23.109 ppb	12:50:04
3	Ba 233.527†	629.9	901.3	-1.8932 µg/L	-1.8932 ppb	12:50:24
3	Be 313.107†	-14748.7	-16643.0	0.0810 µg/L	0.0810 ppb	12:50:04
3	Cd 226.502†	5710.6	6873.2	-0.1251 µg/L	-0.1251 ppb	12:50:04
3	Co 228.616†	630.2	914.3	-11.420 µg/L	-11.420 ppb	12:50:24
3	Cr 267.716†	333.1	233.3	-1.0513 µg/L	-1.0513 ppb	12:50:24
3	Cu 324.752†	-14897.8	-20504.7	6.5373 µg/L	6.5373 ppb	12:50:04
3	Mn 257.610†	17303.2	20300.4	7.1030 µg/L	7.1030 ppb	12:50:04
3	Mo 202.031†	-876.1	-1019.4	-5.8711 µg/L	-5.8711 ppb	12:50:04
3	Ni 231.604†	178.9	294.4	3.7693 µg/L	3.7693 ppb	12:50:24
3	P 214.914†	974.7	1169.3	81.683 µg/L	81.683 ppb	12:50:24
3	Pb 220.353†	-4.5	-80.1	-0.8839 µg/L	-0.8839 ppb	12:50:24
3	S 181.975 Axial†	179.4	108.5	90.412 µg/L	90.412 ppb	12:50:24
3	Sb 206.836†	106.9	53.5	-2.5792 µg/L	-2.5792 ppb	12:50:24
3	Se 196.026†	-384.4	-468.4	-14.4 µg/L	-14.4 ppb	12:50:24
3	SiO2†	1816.9	445.1	48.799 µg/L	48.799 ppb	12:50:24
3	Si 251.611†	-1580.9	-2761.8	-44.547 µg/L	-44.547 ppb	12:50:04
3	Sn 189.927†	96.6	114.9	8.0465 µg/L	8.0465 ppb	12:50:24
3	Ti 334.940†	23550.7	27164.9	-6.0080 µg/L	-6.0080 ppb	12:50:04
3	Tl 190.801†	-181.6	-102.1	-13.287 µg/L	-13.287 ppb	12:50:24
3	U 409.014†	220630.8	261818.8	16580 µg/L	16580 ppb	12:50:04
3	V 292.402†	6413.7	7289.8	1.4545 µg/L	1.4545 ppb	12:50:04
3	Zn 213.857†	8069.4	9037.8	11.837 µg/L	11.837 ppb	12:50:24

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1478129.2	84.437 %		0.5081			0.60%
Sc RADIAL	132680.1	89.6 %		1.08			1.21%
Y 371.029	871785.9	82.682 %		0.5129			0.62%
Ag 328.068†	-1708.6	-1.0709 µg/L		0.53910	-1.0709 ppb	0.53910	50.34%
Al 396.153Radial†	2503633.4	499300 µg/L		5827.6	499300 ppb	5827.6	1.17%
QC value within limits for Al 396.153Radial Recovery = 99.86%							
As 188.979†	-262.2	14.045 µg/L		1.3493	14.045 ppb	1.3493	9.61%
B 249.677†	1489.6	24.339 µg/L		1.5892	24.339 ppb	1.5892	6.53%
Ba 233.527†	902.7	-1.8258 µg/L		0.15805	-1.8258 ppb	0.15805	8.66%
Be 313.107†	-16724.1	0.0658 µg/L		0.02455	0.0658 ppb	0.02455	37.31%
Ca 317.933Radial†	7830026.2	478830 µg/L		5171.5	478830 ppb	5171.5	1.08%
QC value within limits for Ca 317.933Radial Recovery = 95.77%							
Cd 226.502†	6821.0	0.0112 µg/L		0.32612	0.0112 ppb	0.32612	>999.9%
Co 228.616†	926.2	-11.008 µg/L		0.4086	-11.008 ppb	0.4086	3.71%
Cr 267.716†	245.4	-1.0735 µg/L		0.11777	-1.0735 ppb	0.11777	10.97%
Cu 324.752†	-20367.1	6.3130 µg/L		0.89633	6.3130 ppb	0.89633	14.20%
Fe 238.204 Radial†	6702165.8	454280 µg/L		5012.9	454280 ppb	5012.9	1.10%
QC value within limits for Fe 238.204 Radial Recovery = 90.86%							
K 766.490 Radial†	946.9	63.192 µg/L		50.6300	63.192 ppb	50.6300	80.12%
Mg 279.077 IEC†	1157353.0	476890 µg/L		5511.7	476890 ppb	5511.7	1.16%

QC value within limits for Mg 279.077 IEC Recovery = 95.38%							
Mn 257.610†	20180.3	7.1561 µg/L	0.20303	7.1561 ppb	0.20303	2.84%	
Mo 202.031†	-1023.7	-6.2914 µg/L	1.67861	-6.2914 ppb	1.67861	26.68%	
Na 589.592 Radial†	3357874.8	504170 µg/L	5209.7	504170 ppb	5209.7	1.03%	
QC value within limits for Na 589.592 Radial Recovery = 100.83%							
Ni 231.604†	290.8	3.7233 µg/L	0.08740	3.7233 ppb	0.08740	2.35%	
P 214.914†	1171.2	83.993 µg/L	2.0096	83.993 ppb	2.0096	2.39%	
Pb 220.353†	-92.6	-1.9119 µg/L	1.49510	-1.9119 ppb	1.49510	78.20%	
S 181.975 Axial†	106.1	88.381 µg/L	4.7647	88.381 ppb	4.7647	5.39%	
Sb 206.836†	64.3	-1.0610 µg/L	1.37112	-1.0610 ppb	1.37112	129.23%	
Se 196.026†	-458.2	-11.9 µg/L	2.16	-11.9 ppb	2.16	18.06%	
SiO2†	435.4	47.763 µg/L	4.3005	47.763 ppb	4.3005	9.00%	
Si 251.611†	-2801.0	-45.184 µg/L	0.5521	-45.184 ppb	0.5521	1.22%	
Sn 189.927†	117.5	8.2331 µg/L	0.48056	8.2331 ppb	0.48056	5.84%	
Sr 421.552†	5651.2	8.9624 µg/L	0.43223	8.9624 ppb	0.43223	4.82%	
Ti 334.940†	27324.8	-5.5764 µg/L	0.66222	-5.5764 ppb	0.66222	11.88%	
Tl 190.801†	-112.6	-14.705 µg/L	1.7266	-14.705 ppb	1.7266	11.74%	
U 409.014†	262285.3	16610 µg/L	46.3	16610 ppb	46.3	0.28%	
QC value greater than the upper limit for U 409.014 Recovery = 110.74%							
V 292.402†	7325.9	2.1704 µg/L	0.69592	2.1704 ppb	0.69592	32.06%	
Zn 213.857†	8998.1	12.038 µg/L	0.1961	12.038 ppb	0.1961	1.63%	
QC Failed. Continue with analysis.							

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 3/31/2010 12:50:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	143179.1	143179.1	96.7	%			12:51:06
1	Al 396.153Radial†	2197.8	2334.4	5.3126	µg/L	5.3126	ppb	12:51:08
1	Ca 317.933Radial†	1283.9	720.7	44.071	µg/L	44.071	ppb	12:51:08
1	Fe 238.204 Radial†	-605.2	-762.8	-51.703	µg/L	-51.703	ppb	12:51:08
1	K 766.490 Radial†	717291.6	740320.4	299610	µg/L	299610	ppb	12:51:06
1	Mg 279.077 IEC†	-457.6	-656.0	-28.058	µg/L	-28.058	ppb	12:51:08
1	Na 589.592 Radial†	5456.0	4323.9	382.75	µg/L	382.75	ppb	12:51:08
1	Sr 421.552†	4267932.4	4414455.0	9928.7	µg/L	9928.7	ppb	12:51:03
1	Sc 361.383	1695835.5	1695835.5	96.873	%			12:51:43
1	Y 371.029	996705.8	996705.8	94.530	%			12:51:43
1	Ag 328.068†	-26894.6	-31507.5	-6.5492	µg/L	-6.5492	ppb	12:51:45
1	As 188.979†	29942.4	30926.0	10617	µg/L	10617	ppb	12:51:45
1	B 249.677†	305491.2	312069.0	5074.8	µg/L	5074.8	ppb	12:51:43
1	Ba 233.527†	3019146.0	3116752.5	13759	µg/L	13759	ppb	12:51:43
1	Be 313.107†	9415071.6	9719815.9	2893.9	µg/L	2893.9	ppb	12:51:40
1	Cd 226.502†	1367319.4	1411555.9	9892.9	µg/L	9892.9	ppb	12:51:43
1	Co 228.616†	680175.7	702297.5	9636.4	µg/L	9636.4	ppb	12:51:43
1	Cr 267.716†	2744646.4	2833076.5	24401	µg/L	24401	ppb	12:51:43
1	Cu 324.752†	4667917.3	4815748.0	20467	µg/L	20467	ppb	12:51:40
1	Mn 257.610†	6802790.1	7022154.5	9490.0	µg/L	9490.0	ppb	12:51:40
1	Mo 202.031†	297915.2	307550.7	9913.0	µg/L	9913.0	ppb	12:51:45
1	Ni 231.604†	754275.1	778703.9	9968.9	µg/L	9968.9	ppb	12:51:43
1	P 214.914†	62912.5	64956.8	15345	µg/L	15345	ppb	12:51:45
1	Pb 220.353†	375898.3	387956.7	24060	µg/L	24060	ppb	12:51:43
1	S 181.975 Axial†	61517.7	63399.1	53076	µg/L	53076	ppb	12:51:45
1	Sb 206.836†	75389.0	77749.2	9992.1	µg/L	9992.1	ppb	12:51:45
1	Se 196.026†	23912.4	24671.7	10000	µg/L	10000	ppb	12:51:45
1	SiO2†	924968.4	953115.3	102320	µg/L	102320	ppb	12:51:43
1	Si 251.611†	2839458.5	2930223.2	47474	µg/L	47474	ppb	12:51:43
1	Sn 189.927†	140826.2	145372.1	10101	µg/L	10101	ppb	12:51:45
1	Ti 334.940†	9582382.0	9890922.8	9998.8	µg/L	9998.8	ppb	12:51:40
1	Tl 190.801†	69030.2	71371.6	9838.4	µg/L	9838.4	ppb	12:51:45
1	U 409.014†	-10776.7	-10908.9	-72.622	µg/L	-72.622	ppb	12:51:45
1	V 292.402†	1850502.1	1909917.6	10426	µg/L	10426	ppb	12:51:43
1	Zn 213.857†	2274614.1	2347504.0	14601	µg/L	14601	ppb	12:51:43
2	Sc RADIAL	146622.3	146622.3	99.0	%			12:51:12
2	Al 396.153Radial†	2229.3	2312.8	2.1145	µg/L	2.1145	ppb	12:51:14
2	Ca 317.933Radial†	1232.6	637.7	38.996	µg/L	38.996	ppb	12:51:14
2	Fe 238.204 Radial†	-699.9	-843.7	-57.190	µg/L	-57.190	ppb	12:51:14
2	K 766.490 Radial†	733619.5	739389.4	299240	µg/L	299240	ppb	12:51:12
2	Mg 279.077 IEC†	-429.1	-616.2	-12.224	µg/L	-12.224	ppb	12:51:14
2	Na 589.592 Radial†	4959.1	3689.5	287.83	µg/L	287.83	ppb	12:51:14
2	Sr 421.552†	4272896.9	4315808.3	9706.8	µg/L	9706.8	ppb	12:51:10
2	Sc 361.383	1706662.6	1706662.6	97.492	%			12:51:51
2	Y 371.029	1002813.9	1002813.9	95.109	%			12:51:51
2	Ag 328.068†	-27125.2	-31568.0	-6.3673	µg/L	-6.3673	ppb	12:51:53
2	As 188.979†	29993.1	30781.9	10570	µg/L	10570	ppb	12:51:53
2	B 249.677†	308463.9	313117.6	5091.8	µg/L	5091.8	ppb	12:51:51
2	Ba 233.527†	3049697.4	3128318.1	13810	µg/L	13810	ppb	12:51:51
2	Be 313.107†	9531372.7	9777451.9	2911.0	µg/L	2911.0	ppb	12:51:48
2	Cd 226.502†	1385327.4	1421072.8	9959.6	µg/L	9959.6	ppb	12:51:51
2	Co 228.616†	687190.2	705038.2	9674.0	µg/L	9674.0	ppb	12:51:51
2	Cr 267.716†	2773996.0	2845207.1	24505	µg/L	24505	ppb	12:51:51
2	Cu 324.752†	4715394.7	4833877.6	20544	µg/L	20544	ppb	12:51:48
2	Mn 257.610†	6879745.3	7056539.5	9536.4	µg/L	9536.4	ppb	12:51:48
2	Mo 202.031†	299094.5	306809.4	9889.1	µg/L	9889.1	ppb	12:51:53
2	Ni 231.604†	762923.2	782634.9	10019	µg/L	10019	ppb	12:51:51
2	P 214.914†	63338.3	64981.5	15350	µg/L	15350	ppb	12:51:53
2	Pb 220.353†	380249.1	389957.8	24184	µg/L	24184	ppb	12:51:51

2	S 181.975 Axial†	62063.6	63556.2	53207 µg/L	53207 ppb	12:51:53
2	Sb 206.836†	75531.5	77401.7	9944.8 µg/L	9944.8 ppb	12:51:53
2	Se 196.026†	24038.9	24644.8	9980 µg/L	9980 ppb	12:51:53
2	SiO2†	934862.6	957206.6	102760 µg/L	102760 ppb	12:51:51
2	Si 251.611†	2869903.2	2942856.1	47680 µg/L	47680 ppb	12:51:51
2	Sn 189.927†	141736.4	145383.5	10102 µg/L	10102 ppb	12:51:53
2	Ti 334.940†	9680287.1	9928593.7	10037 µg/L	10037 ppb	12:51:48
2	Tl 190.801†	69442.5	71342.4	9835.0 µg/L	9835.0 ppb	12:51:53
2	U 409.014†	-10632.1	-10690.1	-56.515 µg/L	-56.515 ppb	12:51:53
2	V 292.402†	1868643.8	1916407.5	10461 µg/L	10461 ppb	12:51:51
2	Zn 213.857†	2298995.3	2357616.5	14664 µg/L	14664 ppb	12:51:51
3	Sc RADIAL	145095.0	145095.0	98.0 %		12:51:19
3	Al 396.153Radial†	2781.8	2900.4	120.07 µg/L	120.07 ppb	12:51:21
3	Ca 317.933Radial†	3023.8	2478.9	151.59 µg/L	151.59 ppb	12:51:21
3	Fe 238.204 Radial†	867.6	748.6	50.742 µg/L	50.742 ppb	12:51:21
3	K 766.490 Radial†	727880.0	741331.2	300020 µg/L	300020 ppb	12:51:19
3	Mg 279.077 IEC†	-145.1	-330.8	104.96 µg/L	104.96 ppb	12:51:21
3	Na 589.592 Radial†	5561.1	4356.7	387.30 µg/L	387.30 ppb	12:51:21
3	Sr 421.552†	4292328.3	4381067.2	9853.6 µg/L	9853.6 ppb	12:51:16
3	Sc 361.383	1688423.6	1688423.6	96.450 %		12:51:59
3	Y 371.029	992534.7	992534.7	94.134 %		12:51:59
3	Ag 328.068†	-26815.8	-31547.8	-6.2297 µg/L	-6.2297 ppb	12:52:01
3	As 188.979†	29565.4	30670.8	10532 µg/L	10532 ppb	12:52:01
3	B 249.677†	305104.2	313052.1	5090.8 µg/L	5090.8 ppb	12:51:59
3	Ba 233.527†	3016539.9	3127731.7	13807 µg/L	13807 ppb	12:51:59
3	Be 313.107†	9492866.9	9843139.2	2930.6 µg/L	2930.6 ppb	12:51:56
3	Cd 226.502†	1365638.1	1416008.7	9924.1 µg/L	9924.1 ppb	12:51:59
3	Co 228.616†	678645.4	703793.2	9656.9 µg/L	9656.9 ppb	12:51:59
3	Cr 267.716†	2741777.9	2842539.8	24482 µg/L	24482 ppb	12:51:59
3	Cu 324.752†	4696714.8	4866758.2	20684 µg/L	20684 ppb	12:51:56
3	Mn 257.610†	6851238.9	7103213.5	9599.5 µg/L	9599.5 ppb	12:51:56
3	Mo 202.031†	295397.8	306290.6	9872.4 µg/L	9872.4 ppb	12:52:01
3	Ni 231.604†	753823.1	781653.2	10007 µg/L	10007 ppb	12:51:59
3	P 214.914†	62357.3	64666.3	15272 µg/L	15272 ppb	12:52:01
3	Pb 220.353†	375113.9	388846.9	24115 µg/L	24115 ppb	12:51:59
3	S 181.975 Axial†	61105.6	63250.7	52951 µg/L	52951 ppb	12:52:01
3	Sb 206.836†	74759.3	77437.9	9949.6 µg/L	9949.6 ppb	12:52:01
3	Se 196.026†	23802.0	24665.5	9990 µg/L	9990 ppb	12:52:01
3	SiO2†	924903.5	957239.5	102770 µg/L	102770 ppb	12:51:59
3	Si 251.611†	2838900.6	2942511.8	47675 µg/L	47675 ppb	12:51:59
3	Sn 189.927†	139626.9	144766.8	10059 µg/L	10059 ppb	12:52:01
3	Ti 334.940†	9646865.7	10001202.7	10110 µg/L	10110 ppb	12:51:56
3	Tl 190.801†	68534.0	71170.0	9812.6 µg/L	9812.6 ppb	12:52:01
3	U 409.014†	-10196.2	-10355.9	-34.578 µg/L	-34.578 ppb	12:52:01
3	V 292.402†	1849476.1	1917239.4	10465 µg/L	10465 ppb	12:51:59
3	Zn 213.857†	2273315.4	2356465.0	14657 µg/L	14657 ppb	12:51:59

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1696973.9	96.938 %	0.5240			0.54%
Sc RADIAL	144965.4	97.9 %	1.17			1.19%
Y 371.029	997351.5	94.591 %	0.4903			0.52%
Ag 328.068†	-31541.1	-6.3821 µg/L	0.16025	-6.3821 ppb	0.16025	2.51%
Al 396.153Radial†	2515.9	42.501 µg/L	67.2001	42.501 ppb	67.2001	158.12%
As 188.979†	30792.9	10573 µg/L	42.5	10573 ppb	42.5	0.40%
QC value within limits for As 188.979 Recovery = 105.73%						
B 249.677†	312746.2	5085.8 µg/L	9.56	5085.8 ppb	9.56	0.19%
QC value within limits for B 249.677 Recovery = 101.72%						
Ba 233.527†	3124267.4	13792 µg/L	28.7	13792 ppb	28.7	0.21%
QC value within limits for Ba 233.527 Recovery = 91.95%						
Be 313.107†	9780135.7	2911.8 µg/L	18.38	2911.8 ppb	18.38	0.63%
QC value within limits for Be 313.107 Recovery = 97.06%						
Ca 317.933Radial†	1279.1	78.220 µg/L	63.5944	78.220 ppb	63.5944	81.30%
Cd 226.502†	1416212.5	9925.5 µg/L	33.37	9925.5 ppb	33.37	0.34%
QC value within limits for Cd 226.502 Recovery = 99.25%						
Co 228.616†	703709.6	9655.8 µg/L	18.83	9655.8 ppb	18.83	0.20%
QC value within limits for Co 228.616 Recovery = 96.56%						
Cr 267.716†	2840274.5	24463 µg/L	54.9	24463 ppb	54.9	0.22%
QC value within limits for Cr 267.716 Recovery = 97.85%						

Cu 324.752†	4838794.6	20565 µg/L	109.9	20565 ppb	109.9	0.53%
QC value within limits for Cu 324.752 Recovery = 102.82%						
Fe 238.204 Radial†	-286.0	-19.384 µg/L	60.7924	-19.384 ppb	60.7924	313.62%
K 766.490 Radial†	740347.0	299620 µg/L	393.0	299620 ppb	393.0	0.13%
QC value within limits for K 766.490 Radial Recovery = 99.87%						
Mg 279.077 IEC†	-534.3	21.560 µg/L	72.6616	21.560 ppb	72.6616	337.01%
Mn 257.610†	7060635.8	9542.0 µg/L	54.98	9542.0 ppb	54.98	0.58%
QC value within limits for Mn 257.610 Recovery = 95.42%						
Mo 202.031†	306883.5	9891.5 µg/L	20.39	9891.5 ppb	20.39	0.21%
QC value within limits for Mo 202.031 Recovery = 98.92%						
Na 589.592 Radial†	4123.4	352.63 µg/L	56.161	352.63 ppb	56.161	15.93%
Ni 231.604†	780997.3	9998.3 µg/L	26.19	9998.3 ppb	26.19	0.26%
QC value within limits for Ni 231.604 Recovery = 99.98%						
P 214.914†	64868.2	15322 µg/L	43.2	15322 ppb	43.2	0.28%
QC value within limits for P 214.914 Recovery = 102.15%						
Pb 220.353†	388920.5	24119 µg/L	62.1	24119 ppb	62.1	0.26%
QC value within limits for Pb 220.353 Recovery = 96.48%						
S 181.975 Axial†	63402.0	53078 µg/L	127.8	53078 ppb	127.8	0.24%
QC value within limits for S 181.975 Axial Recovery = 106.16%						
Sb 206.836†	77529.6	9962.2 µg/L	26.08	9962.2 ppb	26.08	0.26%
QC value within limits for Sb 206.836 Recovery = 99.62%						
Se 196.026†	24660.7	9990 µg/L	5.7	9990 ppb	5.7	0.06%
QC value within limits for Se 196.026 Recovery = 99.91%						
SiO2†	955853.8	102620 µg/L	256.4	102620 ppb	256.4	0.25%
QC value within limits for SiO2 Recovery = 95.90%						
Si 251.611†	2938530.3	47610 µg/L	117.4	47610 ppb	117.4	0.25%
QC value within limits for Si 251.611 Recovery = 95.22%						
Sn 189.927†	145174.1	10087 µg/L	24.3	10087 ppb	24.3	0.24%
QC value within limits for Sn 189.927 Recovery = 100.87%						
Sr 421.552†	4370443.5	9829.7 µg/L	112.85	9829.7 ppb	112.85	1.15%
QC value within limits for Sr 421.552 Recovery = 98.30%						
Ti 334.940†	9940239.7	10049 µg/L	56.7	10049 ppb	56.7	0.56%
QC value within limits for Ti 334.940 Recovery = 100.49%						
Tl 190.801†	71294.7	9828.7 µg/L	14.01	9828.7 ppb	14.01	0.14%
QC value within limits for Tl 190.801 Recovery = 98.29%						
U 409.014†	-10651.6	-54.572 µg/L	19.0962	-54.572 ppb	19.0962	34.99%
V 292.402†	1914521.5	10451 µg/L	21.5	10451 ppb	21.5	0.21%
QC value within limits for V 292.402 Recovery = 104.51%						
Zn 213.857†	2353861.8	14641 µg/L	34.4	14641 ppb	34.4	0.23%
QC value within limits for Zn 213.857 Recovery = 97.60%						
All analyte(s) passed QC.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 12:52:09

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	146999.6	146999.6	99.3 %		12:52:43
1	Al 396.153Radial†	25130.2	25377.1	5037.6 µg/L	5037.6 ppb	12:52:43
1	Ca 317.933Radial†	82953.3	82958.6	5073.2 µg/L	5073.2 ppb	12:52:43
1	Fe 238.204 Radial†	73774.9	74182.9	5028.2 µg/L	5028.2 ppb	12:52:43
1	K 766.490 Radial†	16064.9	14633.8	5918.2 µg/L	5918.2 ppb	12:52:43
1	Mg 279.077 IEC†	12644.5	12555.1	5185.6 µg/L	5185.6 ppb	12:52:43
1	Na 589.592 Radial†	69390.5	68583.9	10292 µg/L	10292 ppb	12:52:43
1	Sr 421.552†	222376.8	224297.2	504.43 µg/L	504.43 ppb	12:52:40
1	Sc 361.383	1725530.1	1725530.1	98.569 %		12:52:55
1	Y 371.029	1027599.9	1027599.9	97.460 %		12:52:55
1	Ag 328.068†	124920.8	122989.0	503.07 µg/L	503.07 ppb	12:52:55
1	As 188.979†	1467.8	1506.2	511.74 µg/L	511.74 ppb	12:53:15
1	B 249.677†	33826.0	31034.1	506.25 µg/L	506.25 ppb	12:52:55
1	Ba 233.527†	111594.4	113368.5	500.53 µg/L	500.53 ppb	12:52:55
1	Be 313.107†	1654465.3	1679322.2	500.16 µg/L	500.16 ppb	12:52:55
1	Cd 226.502†	70867.2	71997.8	504.06 µg/L	504.06 ppb	12:52:55
1	Co 228.616†	36007.5	36697.2	502.91 µg/L	502.91 ppb	12:52:55
1	Cr 267.716†	57430.1	58102.1	500.21 µg/L	500.21 ppb	12:52:55
1	Cu 324.752†	118932.8	117818.7	502.17 µg/L	502.17 ppb	12:52:55
1	Mn 257.610†	365464.5	370552.6	500.56 µg/L	500.56 ppb	12:52:55
1	Mo 202.031†	15404.9	15647.9	504.65 µg/L	504.65 ppb	12:53:15
1	Ni 231.604†	38767.1	39412.0	504.55 µg/L	504.55 ppb	12:52:55
1	P 214.914†	10351.8	10515.6	2514.2 µg/L	2514.2 ppb	12:53:15
1	Pb 220.353†	8276.2	8321.5	517.01 µg/L	517.01 ppb	12:53:15
1	S 181.975 Axial†	1326.7	1241.8	1042.2 µg/L	1042.2 ppb	12:53:15
1	Sb 206.836†	3856.7	3839.4	504.11 µg/L	504.11 ppb	12:53:15
1	Se 196.026†	1239.3	1244.7	507 µg/L	507 ppb	12:53:15
1	SiO2†	51977.4	51022.5	5478.8 µg/L	5478.8 ppb	12:52:55
1	Si 251.611†	156175.3	157554.7	2553.3 µg/L	2553.3 ppb	12:52:55
1	Sn 189.927†	7199.0	7303.7	507.46 µg/L	507.46 ppb	12:53:15
1	Ti 334.940†	486600.9	492903.9	498.02 µg/L	498.02 ppb	12:52:55
1	Tl 190.801†	3555.9	3720.7	512.42 µg/L	512.42 ppb	12:53:15
1	U 409.014†	7115.6	7434.5	503.53 µg/L	503.53 ppb	12:52:55
1	V 292.402†	92046.2	93067.1	505.11 µg/L	505.11 ppb	12:52:55
1	Zn 213.857†	80972.6	81617.8	506.35 µg/L	506.35 ppb	12:52:55
2	Sc RADIAL	147567.2	147567.2	99.7 %		12:52:47
2	Al 396.153Radial†	25156.1	25305.6	5023.2 µg/L	5023.2 ppb	12:52:47
2	Ca 317.933Radial†	83086.6	82771.1	5061.7 µg/L	5061.7 ppb	12:52:47
2	Fe 238.204 Radial†	74186.6	74310.2	5036.8 µg/L	5036.8 ppb	12:52:47
2	K 766.490 Radial†	16042.8	14549.3	5884.1 µg/L	5884.1 ppb	12:52:47
2	Mg 279.077 IEC†	12748.9	12610.9	5208.6 µg/L	5208.6 ppb	12:52:47
2	Na 589.592 Radial†	69599.2	68524.5	10283 µg/L	10283 ppb	12:52:47
2	Sr 421.552†	222514.8	223574.1	502.81 µg/L	502.81 ppb	12:52:45
2	Sc 361.383	1729846.9	1729846.9	98.816 %		12:53:18
2	Y 371.029	1029514.6	1029514.6	97.642 %		12:53:18
2	Ag 328.068†	125549.7	123309.2	504.37 µg/L	504.37 ppb	12:53:18
2	As 188.979†	1482.1	1517.0	515.37 µg/L	515.37 ppb	12:53:39
2	B 249.677†	33987.1	31111.5	507.51 µg/L	507.51 ppb	12:53:18
2	Ba 233.527†	112406.1	113907.3	502.90 µg/L	502.90 ppb	12:53:18
2	Be 313.107†	1663575.1	1684352.5	501.66 µg/L	501.66 ppb	12:53:18
2	Cd 226.502†	71217.2	72172.7	505.29 µg/L	505.29 ppb	12:53:18
2	Co 228.616†	36338.5	36941.0	506.25 µg/L	506.25 ppb	12:53:18
2	Cr 267.716†	57722.8	58252.8	501.51 µg/L	501.51 ppb	12:53:18
2	Cu 324.752†	119624.2	118217.2	503.86 µg/L	503.86 ppb	12:53:18
2	Mn 257.610†	367734.3	371924.3	502.41 µg/L	502.41 ppb	12:53:18
2	Mo 202.031†	15491.7	15696.7	506.23 µg/L	506.23 ppb	12:53:39
2	Ni 231.604†	38866.2	39414.2	504.58 µg/L	504.58 ppb	12:53:18
2	P 214.914†	10409.6	10547.9	2521.9 µg/L	2521.9 ppb	12:53:39
2	Pb 220.353†	8262.5	8286.7	514.86 µg/L	514.86 ppb	12:53:39

2	S 181.975 Axial†	1335.4	1247.2	1046.7 µg/L	1046.7 ppb	12:53:39
2	Sb 206.836†	3887.4	3860.8	506.92 µg/L	506.92 ppb	12:53:39
2	Se 196.026†	1252.8	1255.2	511 µg/L	511 ppb	12:53:39
2	SiO2†	52048.5	50962.8	5472.3 µg/L	5472.3 ppb	12:53:18
2	Si 251.611†	156521.3	157509.4	2552.5 µg/L	2552.5 ppb	12:53:18
2	Sn 189.927†	7233.4	7320.3	508.61 µg/L	508.61 ppb	12:53:39
2	Ti 334.940†	489439.7	494544.8	499.68 µg/L	499.68 ppb	12:53:18
2	Tl 190.801†	3596.2	3752.5	516.73 µg/L	516.73 ppb	12:53:39
2	U 409.014†	7106.6	7407.3	501.85 µg/L	501.85 ppb	12:53:18
2	V 292.402†	92394.9	93186.9	505.77 µg/L	505.77 ppb	12:53:18
2	Zn 213.857†	80973.3	81413.4	505.07 µg/L	505.07 ppb	12:53:18
3	Sc RADIAL	147675.2	147675.2	99.7 %		12:52:51
3	Al 396.153Radial†	25360.1	25491.8	5060.6 µg/L	5060.6 ppb	12:52:51
3	Ca 317.933Radial†	83275.5	82899.5	5069.5 µg/L	5069.5 ppb	12:52:51
3	Fe 238.204 Radial†	74353.3	74422.8	5044.4 µg/L	5044.4 ppb	12:52:51
3	K 766.490 Radial†	15856.7	14350.9	5803.8 µg/L	5803.8 ppb	12:52:51
3	Mg 279.077 IEC†	12609.2	12461.5	5146.8 µg/L	5146.8 ppb	12:52:51
3	Na 589.592 Radial†	69860.0	68734.9	10315 µg/L	10315 ppb	12:52:51
3	Sr 421.552†	221532.8	222426.0	500.22 µg/L	500.22 ppb	12:52:49
3	Sc 361.383	1724132.1	1724132.1	98.490 %		12:53:42
3	Y 371.029	1025462.8	1025462.8	97.257 %		12:53:42
3	Ag 328.068†	125023.7	123196.2	503.90 µg/L	503.90 ppb	12:53:42
3	As 188.979†	1462.8	1502.3	510.47 µg/L	510.47 ppb	12:54:02
3	B 249.677†	33587.5	30819.8	502.73 µg/L	502.73 ppb	12:53:42
3	Ba 233.527†	112091.3	113964.8	503.16 µg/L	503.16 ppb	12:53:42
3	Be 313.107†	1661375.2	1687699.0	502.65 µg/L	502.65 ppb	12:53:42
3	Cd 226.502†	71144.4	72337.6	506.44 µg/L	506.44 ppb	12:53:42
3	Co 228.616†	36150.3	36871.9	505.30 µg/L	505.30 ppb	12:53:42
3	Cr 267.716†	57805.6	58530.6	503.91 µg/L	503.91 ppb	12:53:42
3	Cu 324.752†	118981.2	117965.7	502.79 µg/L	502.79 ppb	12:53:42
3	Mn 257.610†	366753.3	372161.8	502.73 µg/L	502.73 ppb	12:53:42
3	Mo 202.031†	15262.5	15515.9	500.40 µg/L	500.40 ppb	12:54:02
3	Ni 231.604†	38824.2	39501.9	505.70 µg/L	505.70 ppb	12:53:42
3	P 214.914†	10265.1	10436.1	2495.1 µg/L	2495.1 ppb	12:54:02
3	Pb 220.353†	8186.6	8237.4	511.80 µg/L	511.80 ppb	12:54:02
3	S 181.975 Axial†	1298.5	1214.2	1019.1 µg/L	1019.1 ppb	12:54:02
3	Sb 206.836†	3847.9	3833.7	503.24 µg/L	503.24 ppb	12:54:02
3	Se 196.026†	1252.6	1259.2	512 µg/L	512 ppb	12:54:02
3	SiO2†	52012.8	51101.2	5487.4 µg/L	5487.4 ppb	12:53:42
3	Si 251.611†	156079.1	157585.4	2553.8 µg/L	2553.8 ppb	12:53:42
3	Sn 189.927†	7135.0	7244.7	503.38 µg/L	503.38 ppb	12:54:02
3	Ti 334.940†	487758.0	494479.1	499.62 µg/L	499.62 ppb	12:53:42
3	Tl 190.801†	3534.6	3702.0	509.88 µg/L	509.88 ppb	12:54:02
3	U 409.014†	6964.2	7286.7	494.18 µg/L	494.18 ppb	12:53:42
3	V 292.402†	92129.3	93227.3	505.93 µg/L	505.93 ppb	12:53:42
3	Zn 213.857†	80679.0	81386.2	504.90 µg/L	504.90 ppb	12:53:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1726503.0	98.625 %	0.1702			0.17%
Sc RADIAL	147414.0	99.5 %	0.25			0.25%
Y 371.029	1027525.8	97.453 %	0.1922			0.20%
Ag 328.068†	123164.8	503.78 µg/L	0.658	503.78 ppb	0.658	0.13%
QC value within limits for Ag 328.068 Recovery = 100.76%						
Al 396.153Radial†	25391.5	5040.5 µg/L	18.87	5040.5 ppb	18.87	0.37%
QC value within limits for Al 396.153Radial Recovery = 100.81%						
As 188.979†	1508.5	512.53 µg/L	2.542	512.53 ppb	2.542	0.50%
QC value within limits for As 188.979 Recovery = 102.51%						
B 249.677†	30988.5	505.50 µg/L	2.474	505.50 ppb	2.474	0.49%
QC value within limits for B 249.677 Recovery = 101.10%						
Ba 233.527†	113746.9	502.19 µg/L	1.451	502.19 ppb	1.451	0.29%
QC value within limits for Ba 233.527 Recovery = 100.44%						
Be 313.107†	1683791.2	501.49 µg/L	1.254	501.49 ppb	1.254	0.25%
QC value within limits for Be 313.107 Recovery = 100.30%						
Ca 317.933Radial†	82876.4	5068.1 µg/L	5.87	5068.1 ppb	5.87	0.12%
QC value within limits for Ca 317.933Radial Recovery = 101.36%						
Cd 226.502†	72169.4	505.27 µg/L	1.190	505.27 ppb	1.190	0.24%
QC value within limits for Cd 226.502 Recovery = 101.05%						
Co 228.616†	36836.7	504.82 µg/L	1.722	504.82 ppb	1.722	0.34%

QC value within limits for Co 228.616 Recovery = 100.96%							
Cr 267.716†	58295.1	501.87 µg/L	1.876	501.87 ppb	1.876	0.37%	
QC value within limits for Cr 267.716 Recovery = 100.37%							
Cu 324.752†	118000.5	502.94 µg/L	0.858	502.94 ppb	0.858	0.17%	
QC value within limits for Cu 324.752 Recovery = 100.59%							
Fe 238.204 Radial†	74305.3	5036.5 µg/L	8.14	5036.5 ppb	8.14	0.16%	
QC value within limits for Fe 238.204 Radial Recovery = 100.73%							
K 766.490 Radial†	14511.3	5868.7 µg/L	58.76	5868.7 ppb	58.76	1.00%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 117.37%							
Mg 279.077 IEC†	12542.5	5180.3 µg/L	31.22	5180.3 ppb	31.22	0.60%	
QC value within limits for Mg 279.077 IEC Recovery = 103.61%							
Mn 257.610†	371546.2	501.90 µg/L	1.174	501.90 ppb	1.174	0.23%	
QC value within limits for Mn 257.610 Recovery = 100.38%							
Mo 202.031†	15620.2	503.76 µg/L	3.014	503.76 ppb	3.014	0.60%	
QC value within limits for Mo 202.031 Recovery = 100.75%							
Na 589.592 Radial†	68614.4	10297 µg/L	16.3	10297 ppb	16.3	0.16%	
QC value within limits for Na 589.592 Radial Recovery = 102.97%							
Ni 231.604†	39442.7	504.94 µg/L	0.657	504.94 ppb	0.657	0.13%	
QC value within limits for Ni 231.604 Recovery = 100.99%							
P 214.914†	10499.9	2510.4 µg/L	13.80	2510.4 ppb	13.80	0.55%	
QC value within limits for P 214.914 Recovery = 100.42%							
Pb 220.353†	8281.8	514.55 µg/L	2.619	514.55 ppb	2.619	0.51%	
QC value within limits for Pb 220.353 Recovery = 102.91%							
S 181.975 Axial†	1234.4	1036.0 µg/L	14.80	1036.0 ppb	14.80	1.43%	
QC value within limits for S 181.975 Axial Recovery = 103.60%							
Sb 206.836†	3844.6	504.76 µg/L	1.923	504.76 ppb	1.923	0.38%	
QC value within limits for Sb 206.836 Recovery = 100.95%							
Se 196.026†	1253.0	510 µg/L	3.0	510 ppb	3.0	0.59%	
QC value within limits for Se 196.026 Recovery = 101.98%							
SiO2†	51028.9	5479.5 µg/L	7.61	5479.5 ppb	7.61	0.14%	
QC value within limits for SiO2 Recovery = 102.47%							
Si 251.611†	157549.8	2553.2 µg/L	0.68	2553.2 ppb	0.68	0.03%	
QC value within limits for Si 251.611 Recovery = 102.13%							
Sn 189.927†	7289.6	506.48 µg/L	2.751	506.48 ppb	2.751	0.54%	
QC value within limits for Sn 189.927 Recovery = 101.30%							
Sr 421.552†	223432.4	502.49 µg/L	2.122	502.49 ppb	2.122	0.42%	
QC value within limits for Sr 421.552 Recovery = 100.50%							
Ti 334.940†	493976.0	499.11 µg/L	0.941	499.11 ppb	0.941	0.19%	
QC value within limits for Ti 334.940 Recovery = 99.82%							
Tl 190.801†	3725.1	513.01 µg/L	3.462	513.01 ppb	3.462	0.67%	
QC value within limits for Tl 190.801 Recovery = 102.60%							
U 409.014†	7376.2	499.85 µg/L	4.985	499.85 ppb	4.985	1.00%	
QC value within limits for U 409.014 Recovery = 99.97%							
V 292.402†	93160.4	505.60 µg/L	0.435	505.60 ppb	0.435	0.09%	
QC value within limits for V 292.402 Recovery = 101.12%							
Zn 213.857†	81472.5	505.44 µg/L	0.795	505.44 ppb	0.795	0.16%	
QC value within limits for Zn 213.857 Recovery = 101.09%							
QC Failed. Continue with analysis.							

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 12:54:09

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	144964.3	144964.3	97.9 %		12:54:38
1	Al 396.153Radial†	-58.2	1.8	0.3839 µg/L	0.3839 ppb	12:54:58
1	Ca 317.933Radial†	632.7	39.1	2.3920 µg/L	2.3920 ppb	12:54:58
1	Fe 238.204 Radial†	175.3	42.2	2.8587 µg/L	2.8587 ppb	12:54:58
1	K 766.490 Radial†	2198.3	695.8	281.56 µg/L	281.56 ppb	12:54:38
1	Mg 279.077 IEC†	186.0	7.2	2.9601 µg/L	2.9601 ppb	12:54:58
1	Na 589.592 Radial†	2746.8	1486.9	223.00 µg/L	223.00 ppb	12:54:38
1	Sr 421.552†	-226.7	46.5	0.1045 µg/L	0.1045 ppb	12:54:38
1	Sc 361.383	1732407.1	1732407.1	98.962 %		12:56:00
1	Y 371.029	1042491.6	1042491.6	98.872 %		12:56:00
1	Ag 328.068†	3799.6	94.6	0.3590 µg/L	0.3590 ppb	12:56:02
1	As 188.979†	-14.9	2.1	0.6863 µg/L	0.6863 ppb	12:56:22
1	B 249.677†	3442.1	195.4	3.1985 µg/L	3.1985 ppb	12:56:22
1	Ba 233.527†	-125.0	28.1	0.1236 µg/L	0.1236 ppb	12:56:22
1	Be 313.107†	-875.1	-39.6	-0.0162 µg/L	-0.0162 ppb	12:56:02
1	Cd 226.502†	-107.1	-6.1	-0.0429 µg/L	-0.0429 ppb	12:56:22
1	Co 228.616†	-172.4	-7.1	-0.0969 µg/L	-0.0969 ppb	12:56:22
1	Cr 267.716†	165.3	5.4	0.0581 µg/L	0.0581 ppb	12:56:22
1	Cu 324.752†	3027.8	219.3	0.9200 µg/L	0.9200 ppb	12:56:02
1	Mn 257.610†	232.2	18.5	0.0249 µg/L	0.0249 ppb	12:56:22
1	Mo 202.031†	-36.8	-17.8	-0.5741 µg/L	-0.5741 ppb	12:56:22
1	Ni 231.604†	-81.4	0.0	0.0004 µg/L	0.0004 ppb	12:56:22
1	P 214.914†	-7.1	6.4	1.5309 µg/L	1.5309 ppb	12:56:22
1	Pb 220.353†	122.7	49.2	3.0564 µg/L	3.0564 ppb	12:56:22
1	S 181.975 Axial†	117.5	14.6	12.182 µg/L	12.182 ppb	12:56:22
1	Sb 206.836†	84.2	11.9	1.5515 µg/L	1.5515 ppb	12:56:22
1	Se 196.026†	13.2	0.7	0.275 µg/L	0.275 ppb	12:56:22
1	SiO2†	1763.8	73.0	7.8842 µg/L	7.8842 ppb	12:56:22
1	Si 251.611†	760.5	-118.9	-1.9286 µg/L	-1.9286 ppb	12:56:02
1	Sn 189.927†	3.5	3.8	0.2639 µg/L	0.2639 ppb	12:56:22
1	Ti 334.940†	751.8	0.4	0.0061 µg/L	0.0061 ppb	12:56:02
1	Tl 190.801†	-100.4	11.8	1.5948 µg/L	1.5948 ppb	12:56:22
1	U 409.014†	-439.9	-228.9	-14.594 µg/L	-14.594 ppb	12:56:02
1	V 292.402†	230.7	-81.9	-0.4545 µg/L	-0.4545 ppb	12:56:02
1	Zn 213.857†	800.0	278.4	1.7396 µg/L	1.7396 ppb	12:56:22
2	Sc RADIAL	144942.7	144942.7	97.9 %		12:55:00
2	Al 396.153Radial†	-46.9	13.3	2.6853 µg/L	2.6853 ppb	12:55:20
2	Ca 317.933Radial†	614.1	20.1	1.2321 µg/L	1.2321 ppb	12:55:20
2	Fe 238.204 Radial†	193.4	60.8	4.1191 µg/L	4.1191 ppb	12:55:20
2	K 766.490 Radial†	2251.0	750.1	303.52 µg/L	303.52 ppb	12:55:00
2	Mg 279.077 IEC†	191.3	12.6	5.1955 µg/L	5.1955 ppb	12:55:20
2	Na 589.592 Radial†	2657.5	1396.1	209.34 µg/L	209.34 ppb	12:55:00
2	Sr 421.552†	-150.1	124.8	0.2806 µg/L	0.2806 ppb	12:55:00
2	Sc 361.383	1729782.7	1729782.7	98.812 %		12:56:24
2	Y 371.029	1041326.5	1041326.5	98.762 %		12:56:24
2	Ag 328.068†	3911.8	213.9	0.8461 µg/L	0.8461 ppb	12:56:26
2	As 188.979†	-14.8	2.2	0.7262 µg/L	0.7262 ppb	12:56:47
2	B 249.677†	3508.1	267.4	4.3776 µg/L	4.3776 ppb	12:56:47
2	Ba 233.527†	-154.6	-2.0	-0.0095 µg/L	-0.0095 ppb	12:56:47
2	Be 313.107†	-829.9	4.8	-0.0011 µg/L	-0.0011 ppb	12:56:26
2	Cd 226.502†	-107.3	-6.5	-0.0460 µg/L	-0.0460 ppb	12:56:47
2	Co 228.616†	-167.5	-2.3	-0.0323 µg/L	-0.0323 ppb	12:56:47
2	Cr 267.716†	163.2	3.6	0.0374 µg/L	0.0374 ppb	12:56:47
2	Cu 324.752†	2994.9	190.6	0.8037 µg/L	0.8037 ppb	12:56:26
2	Mn 257.610†	224.0	10.6	0.0141 µg/L	0.0141 ppb	12:56:47
2	Mo 202.031†	-37.5	-18.6	-0.5983 µg/L	-0.5983 ppb	12:56:47
2	Ni 231.604†	-98.7	-17.6	-0.2259 µg/L	-0.2259 ppb	12:56:47
2	P 214.914†	-33.6	-20.3	-4.8793 µg/L	-4.8793 ppb	12:56:47
2	Pb 220.353†	123.0	49.6	3.0782 µg/L	3.0782 ppb	12:56:47

2	S 181.975 Axial†	104.1	1.2	1.0032 µg/L	1.0032 ppb	12:56:47
2	Sb 206.836†	71.2	-1.1	-0.1544 µg/L	-0.1544 ppb	12:56:47
2	Se 196.026†	11.9	-0.5	-0.225 µg/L	-0.225 ppb	12:56:47
2	SiO2†	1700.9	12.1	1.3124 µg/L	1.3124 ppb	12:56:47
2	Si 251.611†	1158.1	284.6	4.6333 µg/L	4.6333 ppb	12:56:26
2	Sn 189.927†	11.9	12.4	0.8563 µg/L	0.8563 ppb	12:56:47
2	Ti 334.940†	873.2	124.4	0.1288 µg/L	0.1288 ppb	12:56:26
2	Tl 190.801†	-116.6	-4.8	-0.6504 µg/L	-0.6504 ppb	12:56:47
2	U 409.014†	-341.9	-130.4	-8.3369 µg/L	-8.3369 ppb	12:56:26
2	V 292.402†	192.5	-120.2	-0.6560 µg/L	-0.6560 ppb	12:56:26
2	Zn 213.857†	758.7	237.7	1.4871 µg/L	1.4871 ppb	12:56:47
3	Sc RADIAL	145390.2	145390.2	98.2 %		12:55:22
3	Al 396.153Radial†	-63.4	-3.3	-0.6445 µg/L	-0.6445 ppb	12:55:42
3	Ca 317.933Radial†	642.3	47.0	2.8736 µg/L	2.8736 ppb	12:55:42
3	Fe 238.204 Radial†	207.9	74.9	5.0766 µg/L	5.0766 ppb	12:55:42
3	K 766.490 Radial†	2210.3	701.4	283.85 µg/L	283.85 ppb	12:55:22
3	Mg 279.077 IEC†	162.0	-17.7	-7.3167 µg/L	-7.3167 ppb	12:55:42
3	Na 589.592 Radial†	2461.5	1188.1	178.14 µg/L	178.14 ppb	12:55:22
3	Sr 421.552†	-152.3	123.0	0.2765 µg/L	0.2765 ppb	12:55:22
3	Sc 361.383	1737835.1	1737835.1	99.272 %		12:56:49
3	Y 371.029	1046727.5	1046727.5	99.274 %		12:56:49
3	Ag 328.068†	4023.1	307.7	1.2437 µg/L	1.2437 ppb	12:56:51
3	As 188.979†	-9.9	7.1	2.3951 µg/L	2.3951 ppb	12:57:11
3	B 249.677†	3448.3	190.7	3.1217 µg/L	3.1217 ppb	12:57:11
3	Ba 233.527†	-149.6	3.8	0.0167 µg/L	0.0167 ppb	12:57:11
3	Be 313.107†	-842.1	-3.6	-0.0016 µg/L	-0.0016 ppb	12:56:51
3	Cd 226.502†	-99.4	2.0	0.0135 µg/L	0.0135 ppb	12:57:11
3	Co 228.616†	-162.1	3.9	0.0528 µg/L	0.0528 ppb	12:57:11
3	Cr 267.716†	198.8	38.7	0.3348 µg/L	0.3348 ppb	12:57:11
3	Cu 324.752†	2964.6	146.0	0.6194 µg/L	0.6194 ppb	12:56:51
3	Mn 257.610†	244.8	30.5	0.0415 µg/L	0.0415 ppb	12:57:11
3	Mo 202.031†	-27.5	-8.3	-0.2680 µg/L	-0.2680 ppb	12:57:11
3	Ni 231.604†	-61.3	20.6	0.2636 µg/L	0.2636 ppb	12:57:11
3	P 214.914†	-32.2	-18.8	-4.5161 µg/L	-4.5161 ppb	12:57:11
3	Pb 220.353†	118.5	44.5	2.7575 µg/L	2.7575 ppb	12:57:11
3	S 181.975 Axial†	108.5	5.1	4.2660 µg/L	4.2660 ppb	12:57:11
3	Sb 206.836†	99.5	27.0	3.5347 µg/L	3.5347 ppb	12:57:11
3	Se 196.026†	25.5	13.1	5.31 µg/L	5.31 ppb	12:57:11
3	SiO2†	1785.8	89.7	9.6586 µg/L	9.6586 ppb	12:57:11
3	Si 251.611†	780.9	-100.7	-1.6407 µg/L	-1.6407 ppb	12:56:51
3	Sn 189.927†	13.6	13.9	0.9660 µg/L	0.9660 ppb	12:57:11
3	Ti 334.940†	888.8	136.1	0.1389 µg/L	0.1389 ppb	12:56:51
3	Tl 190.801†	-110.4	2.0	0.2762 µg/L	0.2762 ppb	12:57:11
3	U 409.014†	-240.9	-27.1	-1.7108 µg/L	-1.7108 ppb	12:56:51
3	V 292.402†	360.0	47.6	0.2520 µg/L	0.2520 ppb	12:56:51
3	Zn 213.857†	749.1	224.5	1.4010 µg/L	1.4010 ppb	12:57:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733341.6	99.016 %	0.2346			0.24%
Sc RADIAL	145099.1	98.0 %	0.17			0.17%
Y 371.029	1043515.2	98.969 %	0.2696			0.27%
Ag 328.068†	205.4	0.8163 µg/L	0.44308	0.8163 ppb	0.44308	54.28%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.9	0.8082 µg/L	1.70495	0.8082 ppb	1.70495	210.95%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.8	1.2692 µg/L	0.97523	1.2692 ppb	0.97523	76.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	217.8	3.5659 µg/L	0.70399	3.5659 ppb	0.70399	19.74%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.0	0.0436 µg/L	0.07049	0.0436 ppb	0.07049	161.64%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-12.8	-0.0063 µg/L	0.00859	-0.0063 ppb	0.00859	136.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	35.4	2.1659 µg/L	0.84379	2.1659 ppb	0.84379	38.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-3.5	-0.0251 µg/L	0.03352	-0.0251 ppb	0.03352	133.29%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.9	-0.0255 µg/L	0.07507	-0.0255 ppb	0.07507	294.48%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	15.9	0.1434 µg/L	0.16605	0.1434 ppb	0.16605	115.79%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	185.3	0.7811 µg/L	0.15156	0.7811 ppb	0.15156	19.40%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	59.3	4.0181 µg/L	1.11240	4.0181 ppb	1.11240	27.68%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	715.8	289.64 µg/L	12.073	289.64 ppb	12.073	4.17%	
QC value greater than the upper limit for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.7	0.2797 µg/L	6.67291	0.2797 ppb	6.67291	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	19.9	0.0268 µg/L	0.01379	0.0268 ppb	0.01379	51.38%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-14.9	-0.4801 µg/L	0.18409	-0.4801 ppb	0.18409	38.34%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	1357.0	203.49 µg/L	22.996	203.49 ppb	22.996	11.30%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	1.0	0.0127 µg/L	0.24494	0.0127 ppb	0.24494	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.9	-2.6215 µg/L	3.60067	-2.6215 ppb	3.60067	137.35%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	47.8	2.9640 µg/L	0.17918	2.9640 ppb	0.17918	6.05%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.0	5.8171 µg/L	5.74856	5.8171 ppb	5.74856	98.82%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	12.6	1.6439 µg/L	1.84626	1.6439 ppb	1.84626	112.31%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.4	1.79 µg/L	3.063	1.79 ppb	3.063	171.31%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	58.3	6.2851 µg/L	4.39691	6.2851 ppb	4.39691	69.96%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	21.7	0.3547 µg/L	3.70823	0.3547 ppb	3.70823	>999.9%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	10.0	0.6954 µg/L	0.37766	0.6954 ppb	0.37766	54.31%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	98.1	0.2206 µg/L	0.10052	0.2206 ppb	0.10052	45.57%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	87.0	0.0913 µg/L	0.07393	0.0913 ppb	0.07393	80.96%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.0	0.4069 µg/L	1.12829	0.4069 ppb	1.12829	277.30%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-128.8	-8.2138 µg/L	6.44226	-8.2138 ppb	6.44226	78.43%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-51.5	-0.2862 µg/L	0.47683	-0.2862 ppb	0.47683	166.63%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	246.9	1.5426 µg/L	0.17595	1.5426 ppb	0.17595	11.41%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

=====
Analysis Begun

Start Time: 3/31/2010 12:58:28

Plasma On Time: 3/29/2010 18:07:58

Logged In Analyst: optima4

Technique: ICP Continuous

Spectrometer Model: Optima 7300 DV, S/N 077C0022701 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima4\Sample Information\033110.sif

Batch ID:

Results Data Set: 033110A

Results Library: C:\pe\optima4\Results\Results.mdb
=====

Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 3/31/2010 12:30:22

IEC File: 031810.iec

MSF File:

Method Description:
=====

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/31/2010 12:58:31

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
=====

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146408.1	146408.1	98.9 %		12:59:03
1	Al 396.153Radial†	24974.9	25322.2	5026.6 µg/L	5026.6 ppb	12:59:03
1	Ca 317.933Radial†	82486.5	82824.1	5064.9 µg/L	5064.9 ppb	12:59:03
1	Fe 238.204 Radial†	73443.5	74147.9	5025.8 µg/L	5025.8 ppb	12:59:03

1	K 766.490 Radial†	14046.5	12657.6	5118.5 µg/L	5118.5 ppb	12:59:03
1	Mg 279.077 IEC†	12558.6	12519.7	5171.0 µg/L	5171.0 ppb	12:59:03
1	Na 589.592 Radial†	67716.6	67173.3	10081 µg/L	10081 ppb	12:59:03
1	Sr 421.552†	219876.8	222673.6	500.78 µg/L	500.78 ppb	12:59:01
1	Sc 361.383	1724428.9	1724428.9	98.507 %		12:59:16
1	Y 371.029	1025754.4	1025754.4	97.285 %		12:59:16
1	Ag 328.068†	124879.8	123028.3	503.22 µg/L	503.22 ppb	12:59:16
1	As 188.979†	1469.7	1509.1	512.71 µg/L	512.71 ppb	12:59:36
1	B 249.677†	33400.5	30624.0	499.53 µg/L	499.53 ppb	12:59:16
1	Ba 233.527†	111849.6	113699.8	501.99 µg/L	501.99 ppb	12:59:16
1	Be 313.107†	1655170.2	1681109.5	500.69 µg/L	500.69 ppb	12:59:16
1	Cd 226.502†	70924.6	72102.0	504.79 µg/L	504.79 ppb	12:59:16
1	Co 228.616†	36232.6	36949.1	506.36 µg/L	506.36 ppb	12:59:16
1	Cr 267.716†	57437.2	58146.5	500.60 µg/L	500.60 ppb	12:59:16
1	Cu 324.752†	118652.2	117610.8	501.28 µg/L	501.28 ppb	12:59:16
1	Mn 257.610†	366295.3	371632.8	502.02 µg/L	502.02 ppb	12:59:16
1	Mo 202.031†	15389.5	15642.2	504.47 µg/L	504.47 ppb	12:59:36
1	Ni 231.604†	38736.9	39406.5	504.48 µg/L	504.48 ppb	12:59:16
1	P 214.914†	10413.2	10584.7	2530.8 µg/L	2530.8 ppb	12:59:36
1	Pb 220.353†	8158.2	8207.1	509.93 µg/L	509.93 ppb	12:59:36
1	S 181.975 Axial†	1302.0	1217.6	1022.0 µg/L	1022.0 ppb	12:59:36
1	Sb 206.836†	3841.7	3826.7	502.44 µg/L	502.44 ppb	12:59:36
1	Se 196.026†	1235.9	1242.0	505 µg/L	505 ppb	12:59:36
1	SiO2†	51526.5	50598.4	5433.0 µg/L	5433.0 ppb	12:59:16
1	Si 251.611†	155576.4	157047.9	2545.0 µg/L	2545.0 ppb	12:59:16
1	Sn 189.927†	7202.5	7312.0	508.03 µg/L	508.03 ppb	12:59:36
1	Ti 334.940†	486714.4	493334.4	498.46 µg/L	498.46 ppb	12:59:16
1	Tl 190.801†	3567.2	3734.5	514.28 µg/L	514.28 ppb	12:59:36
1	U 409.014†	6989.4	7310.9	495.69 µg/L	495.69 ppb	12:59:16
1	V 292.402†	92022.9	93103.1	505.30 µg/L	505.30 ppb	12:59:16
1	Zn 213.857†	80103.4	80787.8	501.17 µg/L	501.17 ppb	12:59:16
2	Sc RADIAL	146508.9	146508.9	98.9 %		12:59:07
2	Al 396.153Radial†	25122.9	25454.5	5053.2 µg/L	5053.2 ppb	12:59:07
2	Ca 317.933Radial†	82853.2	83137.4	5084.1 µg/L	5084.1 ppb	12:59:07
2	Fe 238.204 Radial†	73706.9	74363.1	5040.4 µg/L	5040.4 ppb	12:59:07
2	K 766.490 Radial†	14239.7	12843.1	5193.6 µg/L	5193.6 ppb	12:59:07
2	Mg 279.077 IEC†	12674.4	12628.0	5215.5 µg/L	5215.5 ppb	12:59:07
2	Na 589.592 Radial†	67880.9	67292.2	10099 µg/L	10099 ppb	12:59:07
2	Sr 421.552†	219853.5	222497.1	500.38 µg/L	500.38 ppb	12:59:05
2	Sc 361.383	1734271.3	1734271.3	99.069 %		12:59:39
2	Y 371.029	1031353.3	1031353.3	97.816 %		12:59:39
2	Ag 328.068†	125817.0	123254.9	504.14 µg/L	504.14 ppb	12:59:39
2	As 188.979†	1463.5	1494.3	507.79 µg/L	507.79 ppb	12:59:59
2	B 249.677†	33546.6	30579.1	498.78 µg/L	498.78 ppb	12:59:39
2	Ba 233.527†	112796.6	114011.4	503.36 µg/L	503.36 ppb	12:59:39
2	Be 313.107†	1669051.1	1685585.0	502.02 µg/L	502.02 ppb	12:59:39
2	Cd 226.502†	71711.4	72487.7	507.50 µg/L	507.50 ppb	12:59:39
2	Co 228.616†	36563.8	37074.7	508.08 µg/L	508.08 ppb	12:59:39
2	Cr 267.716†	58088.2	58472.7	503.41 µg/L	503.41 ppb	12:59:39
2	Cu 324.752†	119390.8	117672.8	501.55 µg/L	501.55 ppb	12:59:39
2	Mn 257.610†	368805.8	372056.5	502.59 µg/L	502.59 ppb	12:59:39
2	Mo 202.031†	15332.8	15496.3	499.77 µg/L	499.77 ppb	12:59:59
2	Ni 231.604†	39142.0	39592.2	506.86 µg/L	506.86 ppb	12:59:39
2	P 214.914†	10347.7	10458.6	2500.6 µg/L	2500.6 ppb	12:59:59
2	Pb 220.353†	8172.5	8174.5	507.90 µg/L	507.90 ppb	12:59:59
2	S 181.975 Axial†	1304.7	1212.8	1017.9 µg/L	1017.9 ppb	12:59:59
2	Sb 206.836†	3848.1	3811.0	500.27 µg/L	500.27 ppb	12:59:59
2	Se 196.026†	1242.0	1241.0	505 µg/L	505 ppb	12:59:59
2	SiO2†	51929.1	50708.0	5445.1 µg/L	5445.1 ppb	12:59:39
2	Si 251.611†	156720.0	157305.8	2549.3 µg/L	2549.3 ppb	12:59:39
2	Sn 189.927†	7173.1	7240.8	503.10 µg/L	503.10 ppb	12:59:59
2	Ti 334.940†	489704.3	493548.3	498.68 µg/L	498.68 ppb	12:59:39
2	Tl 190.801†	3549.5	3696.1	509.07 µg/L	509.07 ppb	12:59:59
2	U 409.014†	7024.2	7305.8	495.40 µg/L	495.40 ppb	12:59:39
2	V 292.402†	92680.3	93236.5	505.97 µg/L	505.97 ppb	12:59:39
2	Zn 213.857†	80709.8	80938.5	502.09 µg/L	502.09 ppb	12:59:39
3	Sc RADIAL	148043.4	148043.4	100.0 %		12:59:12
3	Al 396.153Radial†	25343.8	25412.2	5044.8 µg/L	5044.8 ppb	12:59:12
3	Ca 317.933Radial†	83720.6	83137.0	5084.1 µg/L	5084.1 ppb	12:59:12
3	Fe 238.204 Radial†	74641.7	74526.0	5051.4 µg/L	5051.4 ppb	12:59:12
3	K 766.490 Radial†	14318.7	12772.9	5165.2 µg/L	5165.2 ppb	12:59:12

3	Mg 279.077 IEC†	12826.5	12647.4	5223.5 µg/L	5223.5 ppb	12:59:12
3	Na 589.592 Radial†	68636.4	67336.8	10106 µg/L	10106 ppb	12:59:12
3	Sr 421.552†	219957.0	220297.2	495.44 µg/L	495.44 ppb	12:59:09
3	Sc 361.383	1733389.1	1733389.1	99.018 %		13:00:02
3	Y 371.029	1031558.4	1031558.4	97.835 %		13:00:02
3	Ag 328.068†	125723.5	123225.1	504.03 µg/L	504.03 ppb	13:00:02
3	As 188.979†	1456.8	1488.3	505.76 µg/L	505.76 ppb	13:00:23
3	B 249.677†	33498.4	30547.6	498.27 µg/L	498.27 ppb	13:00:02
3	Ba 233.527†	112866.2	114139.6	503.93 µg/L	503.93 ppb	13:00:02
3	Be 313.107†	1665815.4	1683174.7	501.31 µg/L	501.31 ppb	13:00:02
3	Cd 226.502†	71524.7	72336.0	506.43 µg/L	506.43 ppb	13:00:02
3	Co 228.616†	36412.0	36940.2	506.24 µg/L	506.24 ppb	13:00:02
3	Cr 267.716†	57830.0	58241.7	501.40 µg/L	501.40 ppb	13:00:02
3	Cu 324.752†	119256.8	117598.8	501.25 µg/L	501.25 ppb	13:00:02
3	Mn 257.610†	368204.8	371639.1	502.02 µg/L	502.02 ppb	13:00:02
3	Mo 202.031†	15348.7	15520.2	500.54 µg/L	500.54 ppb	13:00:23
3	Ni 231.604†	39184.2	39654.9	507.66 µg/L	507.66 ppb	13:00:02
3	P 214.914†	10321.3	10437.2	2495.4 µg/L	2495.4 ppb	13:00:23
3	Pb 220.353†	8136.2	8142.1	505.88 µg/L	505.88 ppb	13:00:23
3	S 181.975 Axial†	1300.9	1209.6	1015.3 µg/L	1015.3 ppb	13:00:23
3	Sb 206.836†	3847.0	3812.0	500.43 µg/L	500.43 ppb	13:00:23
3	Se 196.026†	1238.6	1238.3	504 µg/L	504 ppb	13:00:23
3	SiO2†	51925.9	50731.4	5447.6 µg/L	5447.6 ppb	13:00:02
3	Si 251.611†	156352.5	157015.2	2544.6 µg/L	2544.6 ppb	13:00:02
3	Sn 189.927†	7175.8	7247.3	503.54 µg/L	503.54 ppb	13:00:23
3	Ti 334.940†	488599.8	492684.4	497.80 µg/L	497.80 ppb	13:00:02
3	Tl 190.801†	3558.4	3706.9	510.52 µg/L	510.52 ppb	13:00:23
3	U 409.014†	7278.6	7566.3	511.93 µg/L	511.93 ppb	13:00:02
3	V 292.402†	92473.4	93075.2	505.12 µg/L	505.12 ppb	13:00:02
3	Zn 213.857†	80695.1	80965.1	502.25 µg/L	502.25 ppb	13:00:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1730696.4	98.865 %	0.3111			0.31%
Sc RADIAL	146986.8	99.3 %	0.62			0.62%
Y 371.029	1029555.3	97.645 %	0.3123			0.32%
Ag 328.068†	123169.4	503.80 µg/L	0.504	503.80 ppb	0.504	0.10%
QC value within limits for Ag 328.068 Recovery = 100.76%						
Al 396.153Radial†	25396.3	5041.5 µg/L	13.58	5041.5 ppb	13.58	0.27%
QC value within limits for Al 396.153Radial Recovery = 100.83%						
As 188.979†	1497.3	508.75 µg/L	3.575	508.75 ppb	3.575	0.70%
QC value within limits for As 188.979 Recovery = 101.75%						
B 249.677†	30583.6	498.86 µg/L	0.629	498.86 ppb	0.629	0.13%
QC value within limits for B 249.677 Recovery = 99.77%						
Ba 233.527†	113950.3	503.09 µg/L	0.997	503.09 ppb	0.997	0.20%
QC value within limits for Ba 233.527 Recovery = 100.62%						
Be 313.107†	1683289.7	501.34 µg/L	0.667	501.34 ppb	0.667	0.13%
QC value within limits for Be 313.107 Recovery = 100.27%						
Ca 317.933Radial†	83032.9	5077.7 µg/L	11.05	5077.7 ppb	11.05	0.22%
QC value within limits for Ca 317.933Radial Recovery = 101.55%						
Cd 226.502†	72308.6	506.24 µg/L	1.361	506.24 ppb	1.361	0.27%
QC value within limits for Cd 226.502 Recovery = 101.25%						
Co 228.616†	36988.0	506.89 µg/L	1.030	506.89 ppb	1.030	0.20%
QC value within limits for Co 228.616 Recovery = 101.38%						
Cr 267.716†	58287.0	501.80 µg/L	1.446	501.80 ppb	1.446	0.29%
QC value within limits for Cr 267.716 Recovery = 100.36%						
Cu 324.752†	117627.5	501.36 µg/L	0.165	501.36 ppb	0.165	0.03%
QC value within limits for Cu 324.752 Recovery = 100.27%						
Fe 238.204 Radial†	74345.6	5039.2 µg/L	12.85	5039.2 ppb	12.85	0.26%
QC value within limits for Fe 238.204 Radial Recovery = 100.78%						
K 766.490 Radial†	12757.9	5159.1 µg/L	37.90	5159.1 ppb	37.90	0.73%
QC value within limits for K 766.490 Radial Recovery = 103.18%						
Mg 279.077 IEC†	12598.4	5203.3 µg/L	28.30	5203.3 ppb	28.30	0.54%
QC value within limits for Mg 279.077 IEC Recovery = 104.07%						
Mn 257.610†	371776.1	502.21 µg/L	0.328	502.21 ppb	0.328	0.07%
QC value within limits for Mn 257.610 Recovery = 100.44%						
Mo 202.031†	15552.9	501.59 µg/L	2.520	501.59 ppb	2.520	0.50%
QC value within limits for Mo 202.031 Recovery = 100.32%						
Na 589.592 Radial†	67267.4	10095 µg/L	12.7	10095 ppb	12.7	0.13%

QC value within limits for Na 589.592 Radial Recovery = 100.95%

Ni 231.604†	39551.2	506.33 µg/L	1.654	506.33 ppb	1.654	0.33%
QC value within limits for Ni 231.604 Recovery = 101.27%						
P 214.914†	10493.5	2508.9 µg/L	19.13	2508.9 ppb	19.13	0.76%
QC value within limits for P 214.914 Recovery = 100.36%						
Pb 220.353†	8174.5	507.90 µg/L	2.024	507.90 ppb	2.024	0.40%
QC value within limits for Pb 220.353 Recovery = 101.58%						
S 181.975 Axial†	1213.3	1018.4 µg/L	3.37	1018.4 ppb	3.37	0.33%
QC value within limits for S 181.975 Axial Recovery = 101.84%						
Sb 206.836†	3816.6	501.05 µg/L	1.210	501.05 ppb	1.210	0.24%
QC value within limits for Sb 206.836 Recovery = 100.21%						
Se 196.026†	1240.5	505 µg/L	0.8	505 ppb	0.8	0.15%
QC value within limits for Se 196.026 Recovery = 100.96%						
SiO2†	50679.3	5441.9 µg/L	7.76	5441.9 ppb	7.76	0.14%
QC value within limits for SiO2 Recovery = 101.77%						
Si 251.611†	157122.9	2546.3 µg/L	2.62	2546.3 ppb	2.62	0.10%
QC value within limits for Si 251.611 Recovery = 101.85%						
Sn 189.927†	7266.7	504.89 µg/L	2.726	504.89 ppb	2.726	0.54%
QC value within limits for Sn 189.927 Recovery = 100.98%						
Sr 421.552†	221822.6	498.87 µg/L	2.978	498.87 ppb	2.978	0.60%
QC value within limits for Sr 421.552 Recovery = 99.77%						
Ti 334.940†	493189.0	498.31 µg/L	0.460	498.31 ppb	0.460	0.09%
QC value within limits for Ti 334.940 Recovery = 99.66%						
Tl 190.801†	3712.5	511.29 µg/L	2.690	511.29 ppb	2.690	0.53%
QC value within limits for Tl 190.801 Recovery = 102.26%						
U 409.014†	7394.4	501.00 µg/L	9.459	501.00 ppb	9.459	1.89%
QC value within limits for U 409.014 Recovery = 100.20%						
V 292.402†	93138.3	505.46 µg/L	0.450	505.46 ppb	0.450	0.09%
QC value within limits for V 292.402 Recovery = 101.09%						
Zn 213.857†	80897.1	501.83 µg/L	0.585	501.83 ppb	0.585	0.12%
QC value within limits for Zn 213.857 Recovery = 100.37%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 13:00:30

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	144813.2	144813.2	97.8 %		13:00:59
1	Al 396.153Radial†	-40.7	19.6	3.9222 µg/L	3.9222 ppb	13:01:19
1	Ca 317.933Radial†	646.0	53.4	3.2662 µg/L	3.2662 ppb	13:01:19
1	Fe 238.204 Radial†	160.1	26.9	1.8230 µg/L	1.8230 ppb	13:01:19
1	K 766.490 Radial†	1820.6	311.9	126.22 µg/L	126.22 ppb	13:00:59
1	Mg 279.077 IEC†	185.8	7.3	3.0012 µg/L	3.0012 ppb	13:01:19
1	Na 589.592 Radial†	2049.9	777.2	116.58 µg/L	116.58 ppb	13:00:59
1	Sr 421.552†	-46.0	231.1	0.5198 µg/L	0.5198 ppb	13:00:59
1	Sc 361.383	1759423.7	1759423.7	100.51 %		13:02:07
1	Y 371.029	1058602.6	1058602.6	100.40 %		13:02:07
1	Ag 328.068†	3777.9	14.0	0.0403 µg/L	0.0403 ppb	13:02:09
1	As 188.979†	-20.8	-3.5	-1.1812 µg/L	-1.1812 ppb	13:02:29
1	B 249.677†	3355.6	55.9	0.9155 µg/L	0.9155 ppb	13:02:29
1	Ba 233.527†	-143.3	11.9	0.0525 µg/L	0.0525 ppb	13:02:29
1	Be 313.107†	-886.8	-37.7	-0.0163 µg/L	-0.0163 ppb	13:02:09
1	Cd 226.502†	-106.7	-4.0	-0.0281 µg/L	-0.0281 ppb	13:02:29
1	Co 228.616†	-176.2	-8.2	-0.1121 µg/L	-0.1121 ppb	13:02:29
1	Cr 267.716†	161.0	-1.4	0.0016 µg/L	0.0016 ppb	13:02:29
1	Cu 324.752†	2876.8	22.1	0.0800 µg/L	0.0800 ppb	13:02:09
1	Mn 257.610†	231.6	14.4	0.0193 µg/L	0.0193 ppb	13:02:29
1	Mo 202.031†	-25.1	-5.6	-0.1792 µg/L	-0.1792 ppb	13:02:29
1	Ni 231.604†	-42.2	40.3	0.5159 µg/L	0.5159 ppb	13:02:29
1	P 214.914†	-5.9	7.7	1.8594 µg/L	1.8594 ppb	13:02:29
1	Pb 220.353†	91.1	15.8	0.9904 µg/L	0.9904 ppb	13:02:29
1	S 181.975 Axial†	108.9	4.1	3.4495 µg/L	3.4495 ppb	13:02:29
1	Sb 206.836†	82.7	9.1	1.1921 µg/L	1.1921 ppb	13:02:29
1	Se 196.026†	14.8	2.1	0.845 µg/L	0.845 ppb	13:02:29
1	SiO2†	1722.1	4.1	0.4325 µg/L	0.4325 ppb	13:02:29
1	Si 251.611†	823.7	-67.7	-1.1086 µg/L	-1.1086 ppb	13:02:09
1	Sn 189.927†	19.1	19.3	1.3356 µg/L	1.3356 ppb	13:02:29
1	Ti 334.940†	957.5	193.4	0.2025 µg/L	0.2025 ppb	13:02:09
1	Tl 190.801†	-115.9	-2.1	-0.2801 µg/L	-0.2801 ppb	13:02:29
1	U 409.014†	-484.9	-266.9	-16.961 µg/L	-16.961 ppb	13:02:09
1	V 292.402†	389.1	72.2	0.3728 µg/L	0.3728 ppb	13:02:09
1	Zn 213.857†	635.6	102.4	0.6366 µg/L	0.6366 ppb	13:02:29
2	Sc RADIAL	146670.4	146670.4	99.0 %		13:01:21
2	Al 396.153Radial†	-90.7	-30.3	-6.0368 µg/L	-6.0368 ppb	13:01:41
2	Ca 317.933Radial†	634.5	33.4	2.0437 µg/L	2.0437 ppb	13:01:41
2	Fe 238.204 Radial†	165.3	30.0	2.0332 µg/L	2.0332 ppb	13:01:41
2	K 766.490 Radial†	1816.8	284.5	115.13 µg/L	115.13 ppb	13:01:21
2	Mg 279.077 IEC†	184.1	3.1	1.2844 µg/L	1.2844 ppb	13:01:41
2	Na 589.592 Radial†	2028.9	729.4	109.42 µg/L	109.42 ppb	13:01:21
2	Sr 421.552†	-220.8	55.2	0.1241 µg/L	0.1241 ppb	13:01:21
2	Sc 361.383	1778135.6	1778135.6	101.57 %		13:02:31
2	Y 371.029	1069264.8	1069264.8	101.41 %		13:02:31
2	Ag 328.068†	3719.5	-83.0	-0.3474 µg/L	-0.3474 ppb	13:02:33
2	As 188.979†	-14.7	2.7	0.8935 µg/L	0.8935 ppb	13:02:54
2	B 249.677†	3413.5	77.8	1.2732 µg/L	1.2732 ppb	13:02:54
2	Ba 233.527†	-128.2	28.3	0.1247 µg/L	0.1247 ppb	13:02:54
2	Be 313.107†	-745.3	111.0	0.0296 µg/L	0.0296 ppb	13:02:33
2	Cd 226.502†	-95.5	8.1	0.0566 µg/L	0.0566 ppb	13:02:54
2	Co 228.616†	-172.7	-2.9	-0.0393 µg/L	-0.0393 ppb	13:02:54
2	Cr 267.716†	157.3	-6.7	-0.0482 µg/L	-0.0482 ppb	13:02:54
2	Cu 324.752†	2942.2	56.3	0.2299 µg/L	0.2299 ppb	13:02:33
2	Mn 257.610†	227.5	7.9	0.0107 µg/L	0.0107 ppb	13:02:54
2	Mo 202.031†	-26.4	-6.6	-0.2116 µg/L	-0.2116 ppb	13:02:54
2	Ni 231.604†	-46.7	36.3	0.4643 µg/L	0.4643 ppb	13:02:54
2	P 214.914†	-22.1	-8.2	-1.9597 µg/L	-1.9597 ppb	13:02:54
2	Pb 220.353†	104.7	28.3	1.7586 µg/L	1.7586 ppb	13:02:54

2	S 181.975 Axial†	104.3	-1.5	-1.2196 µg/L	-1.2196 ppb	13:02:54
2	Sb 206.836†	66.3	-8.0	-1.0449 µg/L	-1.0449 ppb	13:02:54
2	Se 196.026†	11.8	-0.9	-0.392 µg/L	-0.392 ppb	13:02:54
2	SiO2†	1741.5	5.3	0.5687 µg/L	0.5687 ppb	13:02:54
2	Si 251.611†	950.8	48.7	0.7940 µg/L	0.7940 ppb	13:02:33
2	Sn 189.927†	3.6	3.8	0.2647 µg/L	0.2647 ppb	13:02:54
2	Ti 334.940†	911.0	137.6	0.1438 µg/L	0.1438 ppb	13:02:33
2	Tl 190.801†	-109.4	5.5	0.7552 µg/L	0.7552 ppb	13:02:54
2	U 409.014†	-400.5	-178.7	-11.360 µg/L	-11.360 ppb	13:02:33
2	V 292.402†	350.4	29.9	0.1500 µg/L	0.1500 ppb	13:02:33
2	Zn 213.857†	601.1	61.7	0.3824 µg/L	0.3824 ppb	13:02:54
3	Sc RADIAL	146257.7	146257.7	98.8 %		13:01:43
3	Al 396.153Radial†	-60.3	0.2	0.0561 µg/L	0.0561 ppb	13:02:03
3	Ca 317.933Radial†	604.8	5.1	0.3149 µg/L	0.3149 ppb	13:02:03
3	Fe 238.204 Radial†	164.9	30.1	2.0378 µg/L	2.0378 ppb	13:02:03
3	K 766.490 Radial†	1863.4	336.9	136.35 µg/L	136.35 ppb	13:01:43
3	Mg 279.077 IEC†	188.2	7.8	3.1820 µg/L	3.1820 ppb	13:02:03
3	Na 589.592 Radial†	1855.0	559.2	83.835 µg/L	83.835 ppb	13:01:43
3	Sr 421.552†	-250.1	24.8	0.0559 µg/L	0.0559 ppb	13:01:43
3	Sc 361.383	1730402.8	1730402.8	98.848 %		13:02:56
3	Y 371.029	1041786.2	1041786.2	98.805 %		13:02:56
3	Ag 328.068†	3877.8	178.1	0.7116 µg/L	0.7116 ppb	13:02:58
3	As 188.979†	-16.7	0.2	0.0621 µg/L	0.0621 ppb	13:03:18
3	B 249.677†	3422.6	179.7	2.9425 µg/L	2.9425 ppb	13:03:18
3	Ba 233.527†	-160.8	-8.2	-0.0364 µg/L	-0.0364 ppb	13:03:18
3	Be 313.107†	-974.2	-140.9	-0.0439 µg/L	-0.0439 ppb	13:02:58
3	Cd 226.502†	-135.6	-35.0	-0.2454 µg/L	-0.2454 ppb	13:03:18
3	Co 228.616†	-186.4	-21.4	-0.2933 µg/L	-0.2933 ppb	13:03:18
3	Cr 267.716†	187.6	28.2	0.2477 µg/L	0.2477 ppb	13:03:18
3	Cu 324.752†	2931.6	125.4	0.5279 µg/L	0.5279 ppb	13:02:58
3	Mn 257.610†	236.6	23.3	0.0313 µg/L	0.0313 ppb	13:03:18
3	Mo 202.031†	-35.5	-16.5	-0.5326 µg/L	-0.5326 ppb	13:03:18
3	Ni 231.604†	-76.9	4.5	0.0580 µg/L	0.0580 ppb	13:03:18
3	P 214.914†	-14.4	-0.9	-0.2230 µg/L	-0.2230 ppb	13:03:18
3	Pb 220.353†	70.8	-3.2	-0.1926 µg/L	-0.1926 ppb	13:03:18
3	S 181.975 Axial†	108.0	5.1	4.2384 µg/L	4.2384 ppb	13:03:18
3	Sb 206.836†	76.3	4.0	0.5083 µg/L	0.5083 ppb	13:03:18
3	Se 196.026†	10.3	-2.2	-0.878 µg/L	-0.878 ppb	13:03:18
3	SiO2†	1768.7	80.1	8.6368 µg/L	8.6368 ppb	13:03:18
3	Si 251.611†	842.5	-35.0	-0.5669 µg/L	-0.5669 ppb	13:02:58
3	Sn 189.927†	8.1	8.4	0.5848 µg/L	0.5848 ppb	13:03:18
3	Ti 334.940†	1015.3	267.9	0.2733 µg/L	0.2733 ppb	13:02:58
3	Tl 190.801†	-95.7	16.4	2.2342 µg/L	2.2342 ppb	13:03:18
3	U 409.014†	-311.7	-99.7	-6.3468 µg/L	-6.3468 ppb	13:02:58
3	V 292.402†	311.7	0.3	-0.0075 µg/L	-0.0075 ppb	13:02:58
3	Zn 213.857†	625.0	102.3	0.6386 µg/L	0.6386 ppb	13:03:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1755987.4	100.31 %	1.374			1.37%
Sc RADIAL	145913.8	98.5 %	0.66			0.67%
Y 371.029	1056551.2	100.21 %	1.314			1.31%
Ag 328.068†	36.4	0.1348 µg/L	0.53579	0.1348 ppb	0.53579	397.32%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.5	-0.6862 µg/L	5.02080	-0.6862 ppb	5.02080	731.73%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.2	-0.0752 µg/L	1.04414	-0.0752 ppb	1.04414	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	104.5	1.7104 µg/L	1.08193	1.7104 ppb	1.08193	63.26%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	10.6	0.0469 µg/L	0.08070	0.0469 ppb	0.08070	171.95%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-22.5	-0.0102 µg/L	0.03711	-0.0102 ppb	0.03711	363.81%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	30.7	1.8749 µg/L	1.48286	1.8749 ppb	1.48286	79.09%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-10.3	-0.0723 µg/L	0.15577	-0.0723 ppb	0.15577	215.44%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-10.8	-0.1482 µg/L	0.13081	-0.1482 ppb	0.13081	88.23%

Cr	267.716†	6.7	0.0670 µg/L	0.15845	0.0670 ppb	0.15845	236.35%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	67.9	0.2793 µg/L	0.22800	0.2793 ppb	0.22800	81.64%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	29.0	1.9647 µg/L	0.12272	1.9647 ppb	0.12272	6.25%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	311.1	125.90 µg/L	10.616	125.90 ppb	10.616	8.43%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	6.1	2.4892 µg/L	1.04726	2.4892 ppb	1.04726	42.07%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	15.2	0.0204 µg/L	0.01039	0.0204 ppb	0.01039	50.86%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-9.6	-0.3078 µg/L	0.19538	-0.3078 ppb	0.19538	63.47%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	688.6	103.28 µg/L	17.214	103.28 ppb	17.214	16.67%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	27.0	0.3461 µg/L	0.25082	0.3461 ppb	0.25082	72.48%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-0.5	-0.1078 µg/L	1.91220	-0.1078 ppb	1.91220	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	13.6	0.8522 µg/L	0.98292	0.8522 ppb	0.98292	115.35%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	2.6	2.1561 µg/L	2.94995	2.1561 ppb	2.94995	136.82%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	1.7	0.2185 µg/L	1.14630	0.2185 ppb	1.14630	524.56%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-0.3	-0.142 µg/L	0.8887	-0.142 ppb	0.8887	627.39%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		29.8	3.2127 µg/L	4.69795	3.2127 ppb	4.69795	146.23%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	-18.0	-0.2938 µg/L	0.98026	-0.2938 ppb	0.98026	333.61%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	10.5	0.7284 µg/L	0.54971	0.7284 ppb	0.54971	75.47%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	103.7	0.2333 µg/L	0.25046	0.2333 ppb	0.25046	107.37%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	199.6	0.2065 µg/L	0.06482	0.2065 ppb	0.06482	31.39%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	6.6	0.9031 µg/L	1.26369	0.9031 ppb	1.26369	139.93%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-181.8	-11.556 µg/L	5.3097	-11.556 ppb	5.3097	45.95%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	34.1	0.1717 µg/L	0.19107	0.1717 ppb	0.19107	111.26%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	88.8	0.5525 µg/L	0.14733	0.5525 ppb	0.14733	26.67%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: LR1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 3/31/2010 13:03:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	147695.7	147695.7	99.7 %		13:03:57
1	Al 396.153Radial†	-58.3	2.8	0.6157 µg/L	0.6157 ppb	13:04:17
1	Ca 317.933Radial†	525.0	-80.8	-4.9431 µg/L	-4.9431 ppb	13:04:17
1	Fe 238.204 Radial†	158.3	21.9	1.4825 µg/L	1.4825 ppb	13:04:17
1	K 766.490 Radial†	1800.3	255.2	103.28 µg/L	103.28 ppb	13:03:57
1	Mg 279.077 IEC†	301.8	119.8	49.390 µg/L	49.390 ppb	13:04:17
1	Na 589.592 Radial†	1691.7	377.1	56.528 µg/L	56.528 ppb	13:03:57
1	Sr 421.552†	-191.3	86.3	0.1942 µg/L	0.1942 ppb	13:03:57
1	Sc 361.383	1747085.6	1747085.6	99.801 %		13:05:05
1	Y 371.029	1060777.4	1060777.4	100.61 %		13:05:05
1	Ag 328.068†	346.1	-3398.1	0.0532 µg/L	0.0532 ppb	13:05:07
1	As 188.979†	-9.3	7.8	2.6765 µg/L	2.6765 ppb	13:05:27
1	B 249.677†	4063.0	788.3	12.899 µg/L	12.899 ppb	13:05:07
1	Ba 233.527†	-333.0	-179.2	-0.7955 µg/L	-0.7955 ppb	13:05:27
1	Be 313.107†	-11856.9	-11035.9	0.1223 µg/L	0.1223 ppb	13:05:07
1	Cd 226.502†	-198.4	-96.7	-0.6777 µg/L	-0.6777 ppb	13:05:27
1	Co 228.616†	-60.8	106.2	1.4549 µg/L	1.4549 ppb	13:05:27
1	Cr 267.716†	1089.3	929.9	-0.8583 µg/L	-0.8583 ppb	13:05:07
1	Cu 324.752†	1035.9	-1802.3	1.6595 µg/L	1.6595 ppb	13:05:07
1	Mn 257.610†	954.7	740.5	0.9988 µg/L	0.9988 ppb	13:05:27
1	Mo 202.031†	-53.5	-34.2	-1.1048 µg/L	-1.1048 ppb	13:05:27
1	Ni 231.604†	-109.2	-27.1	-0.3473 µg/L	-0.3473 ppb	13:05:27
1	P 214.914†	57.6	71.3	17.228 µg/L	17.228 ppb	13:05:27
1	Pb 220.353†	204.7	130.3	-0.3242 µg/L	-0.3242 ppb	13:05:27
1	S 181.975 Axial†	119.8	15.8	13.232 µg/L	13.232 ppb	13:05:27
1	Sb 206.836†	64.0	-9.1	-1.3332 µg/L	-1.3332 ppb	13:05:27
1	Se 196.026†	3.6	-8.9	7.26 µg/L	7.26 ppb	13:05:27
1	SiO2†	2047.5	342.3	36.895 µg/L	36.895 ppb	13:05:07
1	Si 251.611†	778.9	-106.8	-1.7405 µg/L	-1.7405 ppb	13:05:07
1	Sn 189.927†	36.8	37.2	2.5922 µg/L	2.5922 ppb	13:05:27
1	Ti 334.940†	5531.4	4783.1	0.2175 µg/L	0.2175 ppb	13:05:07
1	Tl 190.801†	-142.5	-29.6	-4.0295 µg/L	-4.0295 ppb	13:05:27
1	U 409.014†	176607.3	177175.5	11274 µg/L	11274 ppb	13:05:05
1	V 292.402†	-1072.5	-1389.7	0.1557 µg/L	0.1557 ppb	13:05:07
1	Zn 213.857†	646.0	117.3	0.7438 µg/L	0.7438 ppb	13:05:27
2	Sc RADIAL	147597.5	147597.5	99.7 %		13:04:19
2	Al 396.153Radial†	-70.7	-9.7	-1.8815 µg/L	-1.8815 ppb	13:04:39
2	Ca 317.933Radial†	489.1	-116.5	-7.1249 µg/L	-7.1249 ppb	13:04:39
2	Fe 238.204 Radial†	162.0	25.7	1.7397 µg/L	1.7397 ppb	13:04:39
2	K 766.490 Radial†	1733.6	189.6	76.709 µg/L	76.709 ppb	13:04:19
2	Mg 279.077 IEC†	328.8	147.1	60.648 µg/L	60.648 ppb	13:04:39
2	Na 589.592 Radial†	1754.9	441.7	66.248 µg/L	66.248 ppb	13:04:19
2	Sr 421.552†	-38.0	240.0	0.5399 µg/L	0.5399 ppb	13:04:19
2	Sc 361.383	1729945.3	1729945.3	98.822 %		13:05:29
2	Y 371.029	1050774.3	1050774.3	99.658 %		13:05:29
2	Ag 328.068†	298.2	-3443.1	-0.0445 µg/L	-0.0445 ppb	13:05:31
2	As 188.979†	-14.0	2.9	1.0408 µg/L	1.0408 ppb	13:05:51
2	B 249.677†	4050.2	815.7	13.348 µg/L	13.348 ppb	13:05:31
2	Ba 233.527†	-302.7	-151.9	-0.6742 µg/L	-0.6742 ppb	13:05:51
2	Be 313.107†	-11300.2	-10590.3	0.2715 µg/L	0.2715 ppb	13:05:31
2	Cd 226.502†	-206.7	-107.0	-0.7501 µg/L	-0.7501 ppb	13:05:51
2	Co 228.616†	-89.9	76.2	1.0437 µg/L	1.0437 ppb	13:05:51
2	Cr 267.716†	1018.1	868.7	-1.4281 µg/L	-1.4281 ppb	13:05:31
2	Cu 324.752†	734.9	-2096.7	0.4543 µg/L	0.4543 ppb	13:05:31
2	Mn 257.610†	965.6	761.0	1.0260 µg/L	1.0260 ppb	13:05:51
2	Mo 202.031†	-55.4	-36.7	-1.1820 µg/L	-1.1820 ppb	13:05:51
2	Ni 231.604†	-118.6	-37.7	-0.4827 µg/L	-0.4827 ppb	13:05:51
2	P 214.914†	49.1	63.2	15.295 µg/L	15.295 ppb	13:05:51
2	Pb 220.353†	211.9	139.7	0.2116 µg/L	0.2116 ppb	13:05:51

2	S 181.975 Axial†	113.0	10.1	8.4499 µg/L	8.4499 ppb	13:05:51
2	Sb 206.836†	60.5	-12.0	-1.7058 µg/L	-1.7058 ppb	13:05:51
2	Se 196.026†	3.2	-9.3	7.16 µg/L	7.16 ppb	13:05:51
2	SiO2†	1902.3	215.8	23.273 µg/L	23.273 ppb	13:05:31
2	Si 251.611†	711.2	-167.6	-2.7215 µg/L	-2.7215 ppb	13:05:31
2	Sn 189.927†	21.9	22.4	1.5677 µg/L	1.5677 ppb	13:05:51
2	Ti 334.940†	5430.9	4736.4	0.1470 µg/L	0.1470 ppb	13:05:31
2	Tl 190.801†	-143.7	-32.2	-4.3713 µg/L	-4.3713 ppb	13:05:51
2	U 409.014†	175725.7	178036.7	11329 µg/L	11329 ppb	13:05:29
2	V 292.402†	-802.8	-1127.3	1.5945 µg/L	1.5945 ppb	13:05:31
2	Zn 213.857†	657.2	135.0	0.8563 µg/L	0.8563 ppb	13:05:51
3	Sc RADIAL	143690.4	143690.4	97.0 %		13:04:41
3	Al 396.153Radial†	-61.2	-1.8	-0.3387 µg/L	-0.3387 ppb	13:05:01
3	Ca 317.933Radial†	527.4	-63.6	-3.8918 µg/L	-3.8918 ppb	13:05:01
3	Fe 238.204 Radial†	161.0	29.1	1.9701 µg/L	1.9701 ppb	13:05:01
3	K 766.490 Radial†	1678.8	180.4	72.987 µg/L	72.987 ppb	13:04:41
3	Mg 279.077 IEC†	311.1	137.9	56.854 µg/L	56.854 ppb	13:05:01
3	Na 589.592 Radial†	1684.4	417.0	62.538 µg/L	62.538 ppb	13:04:41
3	Sr 421.552†	-86.3	189.1	0.4254 µg/L	0.4254 ppb	13:04:41
3	Sc 361.383	1734459.0	1734459.0	99.079 %		13:05:53
3	Y 371.029	1052561.6	1052561.6	99.827 %		13:05:53
3	Ag 328.068†	239.3	-3503.4	-0.3065 µg/L	-0.3065 ppb	13:05:55
3	As 188.979†	-19.0	-2.1	-0.6317 µg/L	-0.6317 ppb	13:06:15
3	B 249.677†	4015.7	770.2	12.604 µg/L	12.604 ppb	13:05:55
3	Ba 233.527†	-320.1	-168.6	-0.7486 µg/L	-0.7486 ppb	13:06:15
3	Be 313.107†	-11114.4	-10373.0	0.3343 µg/L	0.3343 ppb	13:05:55
3	Cd 226.502†	-198.0	-97.7	-0.6844 µg/L	-0.6844 ppb	13:06:15
3	Co 228.616†	-89.3	77.0	1.0552 µg/L	1.0552 ppb	13:06:15
3	Cr 267.716†	997.4	845.1	-1.6267 µg/L	-1.6267 ppb	13:05:55
3	Cu 324.752†	1011.7	-1819.2	1.6279 µg/L	1.6279 ppb	13:05:55
3	Mn 257.610†	959.0	751.8	1.0138 µg/L	1.0138 ppb	13:06:15
3	Mo 202.031†	-36.5	-17.5	-0.5650 µg/L	-0.5650 ppb	13:06:15
3	Ni 231.604†	-92.6	-11.1	-0.1425 µg/L	-0.1425 ppb	13:06:15
3	P 214.914†	29.0	42.9	10.409 µg/L	10.409 ppb	13:06:15
3	Pb 220.353†	203.8	130.9	-0.3262 µg/L	-0.3262 ppb	13:06:15
3	S 181.975 Axial†	106.1	2.9	2.3853 µg/L	2.3853 ppb	13:06:15
3	Sb 206.836†	66.0	-6.6	-0.9832 µg/L	-0.9832 ppb	13:06:15
3	Se 196.026†	-7.2	-19.8	2.90 µg/L	2.90 ppb	13:06:15
3	SiO2†	1903.5	211.9	22.826 µg/L	22.826 ppb	13:05:55
3	Si 251.611†	766.1	-114.1	-1.8659 µg/L	-1.8659 ppb	13:05:55
3	Sn 189.927†	36.5	37.1	2.5846 µg/L	2.5846 ppb	13:06:15
3	Ti 334.940†	5414.1	4705.1	0.1184 µg/L	0.1184 ppb	13:05:55
3	Tl 190.801†	-144.1	-32.2	-4.3743 µg/L	-4.3743 ppb	13:06:15
3	U 409.014†	176085.8	177937.4	11323 µg/L	11323 ppb	13:05:53
3	V 292.402†	-972.6	-1296.6	0.6892 µg/L	0.6892 ppb	13:05:55
3	Zn 213.857†	644.0	119.9	0.7591 µg/L	0.7591 ppb	13:06:15

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1737163.3	99.234 %	%	0.5075			0.51%
Sc RADIAL	146327.9	98.8 %	%	1.54			1.56%
Y 371.029	1054704.4	100.03 %	%	0.506			0.51%
Ag 328.068†	-3448.2	-0.0992 µg/L	µg/L	0.18600	-0.0992 ppb	0.18600	187.44%
Al 396.153Radial†	-2.9	-0.5348 µg/L	µg/L	1.26008	-0.5348 ppb	1.26008	235.60%
As 188.979†	2.9	1.0285 µg/L	µg/L	1.65416	1.0285 ppb	1.65416	160.83%
B 249.677†	791.4	12.950 µg/L	µg/L	0.3748	12.950 ppb	0.3748	2.89%
Ba 233.527†	-166.6	-0.7394 µg/L	µg/L	0.06118	-0.7394 ppb	0.06118	8.27%
Be 313.107†	-10666.4	0.2427 µg/L	µg/L	0.10892	0.2427 ppb	0.10892	44.88%
Ca 317.933Radial†	-87.0	-5.3199 µg/L	µg/L	1.64916	-5.3199 ppb	1.64916	31.00%
Cd 226.502†	-100.5	-0.7041 µg/L	µg/L	0.04002	-0.7041 ppb	0.04002	5.68%
Co 228.616†	86.5	1.1846 µg/L	µg/L	0.23415	1.1846 ppb	0.23415	19.77%
Cr 267.716†	881.2	-1.3044 µg/L	µg/L	0.39885	-1.3044 ppb	0.39885	30.58%
Cu 324.752†	-1906.1	1.2472 µg/L	µg/L	0.68691	1.2472 ppb	0.68691	55.08%
Fe 238.204 Radial†	25.5	1.7308 µg/L	µg/L	0.24393	1.7308 ppb	0.24393	14.09%
K 766.490 Radial†	208.4	84.326 µg/L	µg/L	16.5213	84.326 ppb	16.5213	19.59%
Mg 279.077 IEC†	135.0	55.631 µg/L	µg/L	5.7277	55.631 ppb	5.7277	10.30%
Mn 257.610†	751.1	1.0129 µg/L	µg/L	0.01365	1.0129 ppb	0.01365	1.35%
Mo 202.031†	-29.5	-0.9506 µg/L	µg/L	0.33615	-0.9506 ppb	0.33615	35.36%
Na 589.592 Radial†	411.9	61.771 µg/L	µg/L	4.9051	61.771 ppb	4.9051	7.94%

Ni 231.604†	-25.3	-0.3242 µg/L	0.17128	-0.3242 ppb	0.17128	52.83%
P 214.914†	59.2	14.311 µg/L	3.5142	14.311 ppb	3.5142	24.56%
Pb 220.353†	133.6	-0.1463 µg/L	0.30995	-0.1463 ppb	0.30995	211.89%
S 181.975 Axial†	9.6	8.0226 µg/L	5.43619	8.0226 ppb	5.43619	67.76%
Sb 206.836†	-9.2	-1.3407 µg/L	0.36138	-1.3407 ppb	0.36138	26.95%
Se 196.026†	-12.7	5.77 µg/L	2.487	5.77 ppb	2.487	43.08%
SiO2†	256.7	27.665 µg/L	7.9974	27.665 ppb	7.9974	28.91%
Si 251.611†	-129.5	-2.1093 µg/L	0.53389	-2.1093 ppb	0.53389	25.31%
Sn 189.927†	32.2	2.2482 µg/L	0.58933	2.2482 ppb	0.58933	26.21%
Sr 421.552†	171.8	0.3865 µg/L	0.17606	0.3865 ppb	0.17606	45.55%
Ti 334.940†	4741.5	0.1610 µg/L	0.05103	0.1610 ppb	0.05103	31.70%
Tl 190.801†	-31.3	-4.2583 µg/L	0.19821	-4.2583 ppb	0.19821	4.65%
U 409.014†	177716.5	11309 µg/L	30.0	11309 ppb	30.0	0.27%
V 292.402†	-1271.2	0.8131 µg/L	0.72734	0.8131 ppb	0.72734	89.45%
Zn 213.857†	124.1	0.7864 µg/L	0.06102	0.7864 ppb	0.06102	7.76%

Sequence No.: 4

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 13:06:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	145588.9	145588.9	98.3 %		13:06:56
1	Al 396.153Radial†	24663.6	25147.7	4991.9 µg/L	4991.9 ppb	13:06:56
1	Ca 317.933Radial†	81422.0	82210.9	5027.4 µg/L	5027.4 ppb	13:06:56
1	Fe 238.204 Radial†	72655.7	73764.6	4999.8 µg/L	4999.8 ppb	13:06:56
1	K 766.490 Radial†	13741.7	12427.5	5025.4 µg/L	5025.4 ppb	13:06:56
1	Mg 279.077 IEC†	12400.9	12430.7	5134.3 µg/L	5134.3 ppb	13:06:56
1	Na 589.592 Radial†	66380.0	66199.2	9935.0 µg/L	9935.0 ppb	13:06:56
1	Sr 421.552†	216927.5	220925.1	496.85 µg/L	496.85 ppb	13:06:54
1	Sc 361.383	1730127.5	1730127.5	98.832 %		13:07:23
1	Y 371.029	1029840.8	1029840.8	97.673 %		13:07:23
1	Ag 328.068†	124939.8	122671.5	501.76 µg/L	501.76 ppb	13:07:23
1	As 188.979†	1463.4	1497.8	508.91 µg/L	508.91 ppb	13:07:43
1	B 249.677†	33389.0	30500.7	497.51 µg/L	497.51 ppb	13:07:23
1	Ba 233.527†	111796.5	113272.1	500.10 µg/L	500.10 ppb	13:07:23
1	Be 313.107†	1653699.0	1674086.6	498.60 µg/L	498.60 ppb	13:07:23
1	Cd 226.502†	70768.9	71707.4	502.03 µg/L	502.03 ppb	13:07:23
1	Co 228.616†	36197.3	36792.2	504.21 µg/L	504.21 ppb	13:07:23
1	Cr 267.716†	57512.8	58030.9	499.59 µg/L	499.59 ppb	13:07:23
1	Cu 324.752†	118673.5	117235.6	499.69 µg/L	499.69 ppb	13:07:23
1	Mn 257.610†	365928.0	370036.3	499.86 µg/L	499.86 ppb	13:07:23
1	Mo 202.031†	15387.8	15589.0	502.75 µg/L	502.75 ppb	13:07:43
1	Ni 231.604†	38718.8	39258.7	502.59 µg/L	502.59 ppb	13:07:23
1	P 214.914†	10366.5	10502.6	2511.1 µg/L	2511.1 ppb	13:07:43
1	Pb 220.353†	8166.7	8188.4	508.76 µg/L	508.76 ppb	13:07:43
1	S 181.975 Axial†	1311.1	1222.4	1026.0 µg/L	1026.0 ppb	13:07:43
1	Sb 206.836†	3856.4	3828.8	502.70 µg/L	502.70 ppb	13:07:43
1	Se 196.026†	1259.3	1261.6	513 µg/L	513 ppb	13:07:43
1	SiO2†	51539.4	50439.3	5416.0 µg/L	5416.0 ppb	13:07:23
1	Si 251.611†	155324.5	156272.7	2532.4 µg/L	2532.4 ppb	13:07:23
1	Sn 189.927†	7192.1	7277.4	505.63 µg/L	505.63 ppb	13:07:43
1	Ti 334.940†	486110.2	491095.6	496.20 µg/L	496.20 ppb	13:07:23
1	Tl 190.801†	3578.8	3734.3	514.22 µg/L	514.22 ppb	13:07:43
1	U 409.014†	7158.5	7458.7	504.96 µg/L	504.96 ppb	13:07:23
1	V 292.402†	91946.3	92717.9	503.22 µg/L	503.22 ppb	13:07:23
1	Zn 213.857†	79991.6	80406.9	498.80 µg/L	498.80 ppb	13:07:23
2	Sc RADIAL	145239.0	145239.0	98.1 %		13:07:00
2	Al 396.153Radial†	24804.8	25352.2	5032.7 µg/L	5032.7 ppb	13:07:00
2	Ca 317.933Radial†	81800.3	82796.2	5063.2 µg/L	5063.2 ppb	13:07:00
2	Fe 238.204 Radial†	72876.2	74167.5	5027.1 µg/L	5027.1 ppb	13:07:00
2	K 766.490 Radial†	13825.7	12546.9	5073.7 µg/L	5073.7 ppb	13:07:00
2	Mg 279.077 IEC†	12444.4	12505.6	5165.1 µg/L	5165.1 ppb	13:07:00
2	Na 589.592 Radial†	67017.8	67012.1	10057 µg/L	10057 ppb	13:07:00
2	Sr 421.552†	218713.5	223277.7	502.14 µg/L	502.14 ppb	13:06:58
2	Sc 361.383	1727427.2	1727427.2	98.678 %		13:07:46
2	Y 371.029	1028480.1	1028480.1	97.543 %		13:07:46
2	Ag 328.068†	125320.4	123254.7	504.11 µg/L	504.11 ppb	13:07:46
2	As 188.979†	1473.8	1510.7	513.25 µg/L	513.25 ppb	13:08:06
2	B 249.677†	33495.2	30661.2	500.13 µg/L	500.13 ppb	13:07:46
2	Ba 233.527†	112094.9	113751.4	502.21 µg/L	502.21 ppb	13:07:46
2	Be 313.107†	1657776.9	1680834.8	500.60 µg/L	500.60 ppb	13:07:46
2	Cd 226.502†	71283.4	72340.7	506.47 µg/L	506.47 ppb	13:07:46
2	Co 228.616†	36306.3	36960.0	506.51 µg/L	506.51 ppb	13:07:46
2	Cr 267.716†	57655.4	58266.4	501.64 µg/L	501.64 ppb	13:07:46
2	Cu 324.752†	118846.9	117599.1	501.21 µg/L	501.21 ppb	13:07:46
2	Mn 257.610†	367103.0	371805.8	502.25 µg/L	502.25 ppb	13:07:46
2	Mo 202.031†	15367.4	15592.7	502.87 µg/L	502.87 ppb	13:08:06
2	Ni 231.604†	38971.3	39575.8	506.65 µg/L	506.65 ppb	13:07:46
2	P 214.914†	10360.0	10512.4	2513.5 µg/L	2513.5 ppb	13:08:06
2	Pb 220.353†	8180.1	8214.9	510.42 µg/L	510.42 ppb	13:08:06

2	S 181.975 Axial†	1295.1	1208.3	1014.2 µg/L	1014.2 ppb	13:08:06
2	Sb 206.836†	3862.9	3841.5	504.34 µg/L	504.34 ppb	13:08:06
2	Se 196.026†	1255.1	1259.3	512 µg/L	512 ppb	13:08:06
2	SiO2†	51630.7	50613.3	5434.7 µg/L	5434.7 ppb	13:07:46
2	Si 251.611†	155660.8	156859.2	2542.0 µg/L	2542.0 ppb	13:07:46
2	Sn 189.927†	7198.8	7295.6	506.89 µg/L	506.89 ppb	13:08:06
2	Ti 334.940†	487333.4	493104.1	498.24 µg/L	498.24 ppb	13:07:46
2	Tl 190.801†	3575.0	3736.1	514.50 µg/L	514.50 ppb	13:08:06
2	U 409.014†	6732.8	7038.7	478.36 µg/L	478.36 ppb	13:07:46
2	V 292.402†	92184.2	93104.5	505.28 µg/L	505.28 ppb	13:07:46
2	Zn 213.857†	80002.3	80544.3	499.63 µg/L	499.63 ppb	13:07:46
3	Sc RADIAL	151118.4	151118.4	102 %		13:07:04
3	Al 396.153Radial†	24519.8	24088.9	4780.6 µg/L	4780.6 ppb	13:07:04
3	Ca 317.933Radial†	80681.0	78454.4	4797.7 µg/L	4797.7 ppb	13:07:04
3	Fe 238.204 Radial†	71710.3	70134.1	4753.7 µg/L	4753.7 ppb	13:07:04
3	K 766.490 Radial†	13675.8	11851.5	4792.5 µg/L	4792.5 ppb	13:07:04
3	Mg 279.077 IEC†	12329.5	11899.3	4915.4 µg/L	4915.4 ppb	13:07:04
3	Na 589.592 Radial†	66218.6	63570.5	9540.5 µg/L	9540.5 ppb	13:07:04
3	Sr 421.552†	211960.2	207984.0	467.74 µg/L	467.74 ppb	13:07:02
3	Sc 361.383	1729111.3	1729111.3	98.774 %		13:08:09
3	Y 371.029	1029484.7	1029484.7	97.639 %		13:08:09
3	Ag 328.068†	125061.8	122869.3	502.57 µg/L	502.57 ppb	13:08:09
3	As 188.979†	1480.2	1515.7	514.85 µg/L	514.85 ppb	13:08:29
3	B 249.677†	33493.9	30626.8	499.58 µg/L	499.58 ppb	13:08:09
3	Ba 233.527†	111881.2	113424.4	500.77 µg/L	500.77 ppb	13:08:09
3	Be 313.107†	1654883.0	1676268.6	499.25 µg/L	499.25 ppb	13:08:09
3	Cd 226.502†	70868.0	71849.8	503.06 µg/L	503.06 ppb	13:08:09
3	Co 228.616†	36091.0	36706.2	503.05 µg/L	503.05 ppb	13:08:09
3	Cr 267.716†	57426.5	57977.7	499.13 µg/L	499.13 ppb	13:08:09
3	Cu 324.752†	118505.8	117136.4	499.22 µg/L	499.22 ppb	13:08:09
3	Mn 257.610†	365876.1	370201.4	500.09 µg/L	500.09 ppb	13:08:09
3	Mo 202.031†	15444.9	15656.0	504.90 µg/L	504.90 ppb	13:08:29
3	Ni 231.604†	38780.2	39343.9	503.68 µg/L	503.68 ppb	13:08:09
3	P 214.914†	10385.0	10527.5	2517.2 µg/L	2517.2 ppb	13:08:29
3	Pb 220.353†	8150.1	8176.4	508.02 µg/L	508.02 ppb	13:08:29
3	S 181.975 Axial†	1287.9	1199.7	1007.0 µg/L	1007.0 ppb	13:08:29
3	Sb 206.836†	3871.5	3846.4	505.04 µg/L	505.04 ppb	13:08:29
3	Se 196.026†	1243.4	1246.2	507 µg/L	507 ppb	13:08:29
3	SiO2†	51413.7	50342.7	5405.5 µg/L	5405.5 ppb	13:08:09
3	Si 251.611†	155082.6	156120.2	2529.9 µg/L	2529.9 ppb	13:08:09
3	Sn 189.927†	7195.9	7285.5	506.19 µg/L	506.19 ppb	13:08:29
3	Ti 334.940†	486431.6	491710.1	496.83 µg/L	496.83 ppb	13:08:09
3	Tl 190.801†	3568.3	3725.8	513.07 µg/L	513.07 ppb	13:08:29
3	U 409.014†	7156.1	7460.5	505.13 µg/L	505.13 ppb	13:08:09
3	V 292.402†	91884.0	92709.5	503.22 µg/L	503.22 ppb	13:08:09
3	Zn 213.857†	79787.1	80247.3	497.82 µg/L	497.82 ppb	13:08:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1728888.7	98.761 %	0.0779			0.08%
Sc RADIAL	147315.4	99.5 %	2.23			2.24%
Y 371.029	1029268.5	97.618 %	0.0669			0.07%
Ag 328.068†	122931.8	502.82 µg/L	1.192	502.82 ppb	1.192	0.24%
QC value within limits for Ag 328.068 Recovery = 100.56%						
Al 396.153Radial†	24862.9	4935.1 µg/L	135.29	4935.1 ppb	135.29	2.74%
QC value within limits for Al 396.153Radial Recovery = 98.70%						
As 188.979†	1508.1	512.34 µg/L	3.074	512.34 ppb	3.074	0.60%
QC value within limits for As 188.979 Recovery = 102.47%						
B 249.677†	30596.3	499.08 µg/L	1.381	499.08 ppb	1.381	0.28%
QC value within limits for B 249.677 Recovery = 99.82%						
Ba 233.527†	113482.6	501.03 µg/L	1.080	501.03 ppb	1.080	0.22%
QC value within limits for Ba 233.527 Recovery = 100.21%						
Be 313.107†	1677063.3	499.49 µg/L	1.021	499.49 ppb	1.021	0.20%
QC value within limits for Be 313.107 Recovery = 99.90%						
Ca 317.933Radial†	81153.8	4962.8 µg/L	144.08	4962.8 ppb	144.08	2.90%
QC value within limits for Ca 317.933Radial Recovery = 99.26%						
Cd 226.502†	71966.0	503.85 µg/L	2.322	503.85 ppb	2.322	0.46%
QC value within limits for Cd 226.502 Recovery = 100.77%						
Co 228.616†	36819.4	504.59 µg/L	1.762	504.59 ppb	1.762	0.35%

QC value within limits for Co 228.616 Recovery = 100.92%							
Cr 267.716†	58091.7	500.12 µg/L	1.338	500.12 ppb	1.338	0.27%	
QC value within limits for Cr 267.716 Recovery = 100.02%							
Cu 324.752†	117323.7	500.04 µg/L	1.042	500.04 ppb	1.042	0.21%	
QC value within limits for Cu 324.752 Recovery = 100.01%							
Fe 238.204 Radial†	72688.7	4926.9 µg/L	150.57	4926.9 ppb	150.57	3.06%	
QC value within limits for Fe 238.204 Radial Recovery = 98.54%							
K 766.490 Radial†	12275.3	4963.9 µg/L	150.38	4963.9 ppb	150.38	3.03%	
QC value within limits for K 766.490 Radial Recovery = 99.28%							
Mg 279.077 IEC†	12278.5	5071.6 µg/L	136.15	5071.6 ppb	136.15	2.68%	
QC value within limits for Mg 279.077 IEC Recovery = 101.43%							
Mn 257.610†	370681.2	500.74 µg/L	1.318	500.74 ppb	1.318	0.26%	
QC value within limits for Mn 257.610 Recovery = 100.15%							
Mo 202.031†	15612.6	503.51 µg/L	1.205	503.51 ppb	1.205	0.24%	
QC value within limits for Mo 202.031 Recovery = 100.70%							
Na 589.592 Radial†	65593.9	9844.2 µg/L	269.96	9844.2 ppb	269.96	2.74%	
QC value within limits for Na 589.592 Radial Recovery = 98.44%							
Ni 231.604†	39392.8	504.30 µg/L	2.101	504.30 ppb	2.101	0.42%	
QC value within limits for Ni 231.604 Recovery = 100.86%							
P 214.914†	10514.2	2513.9 µg/L	3.07	2513.9 ppb	3.07	0.12%	
QC value within limits for P 214.914 Recovery = 100.56%							
Pb 220.353†	8193.3	509.07 µg/L	1.233	509.07 ppb	1.233	0.24%	
QC value within limits for Pb 220.353 Recovery = 101.81%							
S 181.975 Axial†	1210.1	1015.7 µg/L	9.57	1015.7 ppb	9.57	0.94%	
QC value within limits for S 181.975 Axial Recovery = 101.57%							
Sb 206.836†	3838.9	504.03 µg/L	1.205	504.03 ppb	1.205	0.24%	
QC value within limits for Sb 206.836 Recovery = 100.81%							
Se 196.026†	1255.7	511 µg/L	3.4	511 ppb	3.4	0.67%	
QC value within limits for Se 196.026 Recovery = 102.19%							
SiO2†	50465.1	5418.7 µg/L	14.80	5418.7 ppb	14.80	0.27%	
QC value within limits for SiO2 Recovery = 101.33%							
Si 251.611†	156417.4	2534.8 µg/L	6.35	2534.8 ppb	6.35	0.25%	
QC value within limits for Si 251.611 Recovery = 101.39%							
Sn 189.927†	7286.2	506.24 µg/L	0.636	506.24 ppb	0.636	0.13%	
QC value within limits for Sn 189.927 Recovery = 101.25%							
Sr 421.552†	217395.6	488.91 µg/L	18.521	488.91 ppb	18.521	3.79%	
QC value within limits for Sr 421.552 Recovery = 97.78%							
Ti 334.940†	491969.9	497.09 µg/L	1.044	497.09 ppb	1.044	0.21%	
QC value within limits for Ti 334.940 Recovery = 99.42%							
Tl 190.801†	3732.1	513.93 µg/L	0.757	513.93 ppb	0.757	0.15%	
QC value within limits for Tl 190.801 Recovery = 102.79%							
U 409.014†	7319.3	496.15 µg/L	15.406	496.15 ppb	15.406	3.11%	
QC value within limits for U 409.014 Recovery = 99.23%							
V 292.402†	92844.0	503.91 µg/L	1.187	503.91 ppb	1.187	0.24%	
QC value within limits for V 292.402 Recovery = 100.78%							
Zn 213.857†	80399.5	498.75 µg/L	0.905	498.75 ppb	0.905	0.18%	
QC value within limits for Zn 213.857 Recovery = 99.75%							
All analyte(s) passed QC.							

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 13:08:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150152.8	150152.8	101 %		13:09:07
1	Al 396.153Radial†	-43.7	18.2	3.6573 µg/L	3.6573 ppb	13:09:27
1	Ca 317.933Radial†	636.8	20.8	1.2743 µg/L	1.2743 ppb	13:09:27
1	Fe 238.204 Radial†	162.4	23.3	1.5805 µg/L	1.5805 ppb	13:09:27
1	K 766.490 Radial†	1616.9	44.8	18.128 µg/L	18.128 ppb	13:09:07
1	Mg 279.077 IEC†	181.1	-4.1	-1.7268 µg/L	-1.7268 ppb	13:09:27
1	Na 589.592 Radial†	1574.3	233.6	35.058 µg/L	35.058 ppb	13:09:07
1	Sr 421.552†	-26.9	251.6	0.5658 µg/L	0.5658 ppb	13:09:07
1	Sc 361.383	1740563.7	1740563.7	99.428 %		13:10:15
1	Y 371.029	1047258.6	1047258.6	99.324 %		13:10:15
1	Ag 328.068†	3865.4	142.8	0.5722 µg/L	0.5722 ppb	13:10:17
1	As 188.979†	-8.2	8.9	2.9872 µg/L	2.9872 ppb	13:10:37
1	B 249.677†	3383.1	119.7	1.9614 µg/L	1.9614 ppb	13:10:37
1	Ba 233.527†	-135.8	17.9	0.0789 µg/L	0.0789 ppb	13:10:37
1	Be 313.107†	-998.0	-159.0	-0.0500 µg/L	-0.0500 ppb	13:10:17
1	Cd 226.502†	-119.1	-17.7	-0.1243 µg/L	-0.1243 ppb	13:10:37
1	Co 228.616†	-195.7	-29.6	-0.4058 µg/L	-0.4058 ppb	13:10:37
1	Cr 267.716†	164.7	4.1	0.0421 µg/L	0.0421 ppb	13:10:37
1	Cu 324.752†	2926.0	102.5	0.4282 µg/L	0.4282 ppb	13:10:17
1	Mn 257.610†	237.3	22.5	0.0305 µg/L	0.0305 ppb	13:10:37
1	Mo 202.031†	-37.2	-18.1	-0.5817 µg/L	-0.5817 ppb	13:10:37
1	Ni 231.604†	-112.9	-31.3	-0.4005 µg/L	-0.4005 ppb	13:10:37
1	P 214.914†	-5.6	8.0	1.9281 µg/L	1.9281 ppb	13:10:37
1	Pb 220.353†	103.0	28.8	1.7903 µg/L	1.7903 ppb	13:10:37
1	S 181.975 Axial†	104.7	1.1	0.9248 µg/L	0.9248 ppb	13:10:37
1	Sb 206.836†	72.6	-0.2	-0.0333 µg/L	-0.0333 ppb	13:10:37
1	Se 196.026†	15.6	3.1	1.24 µg/L	1.24 ppb	13:10:37
1	SiO2†	1711.2	11.8	1.2833 µg/L	1.2833 ppb	13:10:37
1	Si 251.611†	863.0	-19.4	-0.3114 µg/L	-0.3114 ppb	13:10:17
1	Sn 189.927†	9.1	9.4	0.6557 µg/L	0.6557 ppb	13:10:37
1	Ti 334.940†	1231.7	479.5	0.4889 µg/L	0.4889 ppb	13:10:17
1	Tl 190.801†	-120.8	-8.2	-1.1077 µg/L	-1.1077 ppb	13:10:37
1	U 409.014†	-351.9	-138.4	-8.7737 µg/L	-8.7737 ppb	13:10:17
1	V 292.402†	412.3	99.7	0.5217 µg/L	0.5217 ppb	13:10:17
1	Zn 213.857†	604.7	78.1	0.4908 µg/L	0.4908 ppb	13:10:37
2	Sc RADIAL	148152.2	148152.2	100 %		13:09:29
2	Al 396.153Radial†	-56.3	4.9	0.9983 µg/L	0.9983 ppb	13:09:49
2	Ca 317.933Radial†	631.6	24.1	1.4751 µg/L	1.4751 ppb	13:09:49
2	Fe 238.204 Radial†	153.9	16.9	1.1473 µg/L	1.1473 ppb	13:09:49
2	K 766.490 Radial†	1896.8	346.1	140.07 µg/L	140.07 ppb	13:09:29
2	Mg 279.077 IEC†	175.5	-7.3	-3.0278 µg/L	-3.0278 ppb	13:09:49
2	Na 589.592 Radial†	1710.6	390.8	58.553 µg/L	58.553 ppb	13:09:29
2	Sr 421.552†	-219.2	59.0	0.1327 µg/L	0.1327 ppb	13:09:29
2	Sc 361.383	1764160.1	1764160.1	100.78 %		13:10:39
2	Y 371.029	1060605.8	1060605.8	100.59 %		13:10:39
2	Ag 328.068†	3599.4	-173.1	-0.6877 µg/L	-0.6877 ppb	13:10:41
2	As 188.979†	-22.5	-5.2	-1.7402 µg/L	-1.7402 ppb	13:11:02
2	B 249.677†	3365.5	56.7	0.9288 µg/L	0.9288 ppb	13:11:02
2	Ba 233.527†	-127.6	27.8	0.1229 µg/L	0.1229 ppb	13:11:02
2	Be 313.107†	-1038.1	-185.4	-0.0543 µg/L	-0.0543 ppb	13:10:41
2	Cd 226.502†	-115.2	-12.2	-0.0856 µg/L	-0.0856 ppb	13:11:02
2	Co 228.616†	-177.5	-9.0	-0.1233 µg/L	-0.1233 ppb	13:11:02
2	Cr 267.716†	137.6	-25.0	-0.2175 µg/L	-0.2175 ppb	13:11:02
2	Cu 324.752†	2925.2	62.4	0.2675 µg/L	0.2675 ppb	13:10:41
2	Mn 257.610†	222.8	5.0	0.0069 µg/L	0.0069 ppb	13:11:02
2	Mo 202.031†	-27.6	-8.1	-0.2594 µg/L	-0.2594 ppb	13:11:02
2	Ni 231.604†	-79.9	3.0	0.0383 µg/L	0.0383 ppb	13:11:02
2	P 214.914†	-25.4	-11.6	-2.7729 µg/L	-2.7729 ppb	13:11:02
2	Pb 220.353†	79.9	4.4	0.2723 µg/L	0.2723 ppb	13:11:02

2	S 181.975 Axial†	103.6	-1.4	-1.1571 µg/L	-1.1571 ppb	13:11:02
2	Sb 206.836†	82.7	8.9	1.1626 µg/L	1.1626 ppb	13:11:02
2	Se 196.026†	22.2	9.4	3.83 µg/L	3.83 ppb	13:11:02
2	SiO2†	1726.8	4.2	0.4599 µg/L	0.4599 ppb	13:11:02
2	Si 251.611†	848.6	-45.3	-0.7338 µg/L	-0.7338 ppb	13:10:41
2	Sn 189.927†	0.9	1.2	0.0838 µg/L	0.0838 ppb	13:11:02
2	Ti 334.940†	785.6	20.3	0.0197 µg/L	0.0197 ppb	13:10:41
2	Tl 190.801†	-119.0	-4.9	-0.6583 µg/L	-0.6583 ppb	13:11:02
2	U 409.014†	-172.3	44.7	2.8835 µg/L	2.8835 ppb	13:10:41
2	V 292.402†	447.3	128.9	0.6886 µg/L	0.6886 ppb	13:10:41
2	Zn 213.857†	605.6	70.9	0.4428 µg/L	0.4428 ppb	13:11:02
3	Sc RADIAL	147783.5	147783.5	99.8 %		13:09:51
3	Al 396.153Radial†	-32.2	28.9	5.7682 µg/L	5.7682 ppb	13:10:11
3	Ca 317.933Radial†	618.3	12.3	0.7532 µg/L	0.7532 ppb	13:10:11
3	Fe 238.204 Radial†	169.8	33.2	2.2528 µg/L	2.2528 ppb	13:10:11
3	K 766.490 Radial†	1558.0	11.4	4.6068 µg/L	4.6068 ppb	13:09:51
3	Mg 279.077 IEC†	160.9	-21.5	-8.8856 µg/L	-8.8856 ppb	13:10:11
3	Na 589.592 Radial†	1591.3	275.5	41.365 µg/L	41.365 ppb	13:09:51
3	Sr 421.552†	-325.1	-47.6	-0.1071 µg/L	-0.1071 ppb	13:09:51
3	Sc 361.383	1742512.6	1742512.6	99.540 %		13:11:04
3	Y 371.029	1048214.6	1048214.6	99.415 %		13:11:04
3	Ag 328.068†	3520.4	-208.1	-0.8438 µg/L	-0.8438 ppb	13:11:06
3	As 188.979†	-10.7	6.4	2.1291 µg/L	2.1291 ppb	13:11:26
3	B 249.677†	3308.6	41.1	0.6731 µg/L	0.6731 ppb	13:11:26
3	Ba 233.527†	-132.6	21.2	0.0943 µg/L	0.0943 ppb	13:11:26
3	Be 313.107†	-920.5	-80.1	-0.0274 µg/L	-0.0274 ppb	13:11:06
3	Cd 226.502†	-72.5	29.3	0.2046 µg/L	0.2046 ppb	13:11:26
3	Co 228.616†	-185.4	-19.1	-0.2616 µg/L	-0.2616 ppb	13:11:26
3	Cr 267.716†	165.6	4.8	0.0510 µg/L	0.0510 ppb	13:11:26
3	Cu 324.752†	2858.1	31.0	0.1219 µg/L	0.1219 ppb	13:11:06
3	Mn 257.610†	234.2	19.2	0.0263 µg/L	0.0263 ppb	13:11:26
3	Mo 202.031†	-16.5	2.8	0.0899 µg/L	0.0899 ppb	13:11:26
3	Ni 231.604†	-115.0	-33.3	-0.4258 µg/L	-0.4258 ppb	13:11:26
3	P 214.914†	-31.5	-18.1	-4.3251 µg/L	-4.3251 ppb	13:11:26
3	Pb 220.353†	83.8	9.3	0.5876 µg/L	0.5876 ppb	13:11:26
3	S 181.975 Axial†	101.0	-2.7	-2.2786 µg/L	-2.2786 ppb	13:11:26
3	Sb 206.836†	80.4	7.5	0.9905 µg/L	0.9905 ppb	13:11:26
3	Se 196.026†	15.0	2.5	1.01 µg/L	1.01 ppb	13:11:26
3	SiO2†	1728.2	26.9	2.8822 µg/L	2.8822 ppb	13:11:26
3	Si 251.611†	836.7	-46.8	-0.7695 µg/L	-0.7695 ppb	13:11:06
3	Sn 189.927†	14.7	15.1	1.0451 µg/L	1.0451 ppb	13:11:26
3	Ti 334.940†	890.0	134.8	0.1420 µg/L	0.1420 ppb	13:11:06
3	Tl 190.801†	-119.4	-6.7	-0.9055 µg/L	-0.9055 ppb	13:11:26
3	U 409.014†	-400.5	-186.7	-11.828 µg/L	-11.828 ppb	13:11:06
3	V 292.402†	492.5	179.8	0.9555 µg/L	0.9555 ppb	13:11:06
3	Zn 213.857†	565.3	37.8	0.2392 µg/L	0.2392 ppb	13:11:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749078.8	99.915 %	0.7482			0.75%
Sc RADIAL	148696.2	100 %	0.9			0.86%
Y 371.029	1052026.3	99.777 %	0.7061			0.71%
Ag 328.068†	-79.5	-0.3198 µg/L	0.77642	-0.3198 ppb	0.77642	242.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.4	3.4746 µg/L	2.39021	3.4746 ppb	2.39021	68.79%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.4	1.1254 µg/L	2.51850	1.1254 ppb	2.51850	223.79%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	72.5	1.1878 µg/L	0.68205	1.1878 ppb	0.68205	57.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	22.3	0.0987 µg/L	0.02233	0.0987 ppb	0.02233	22.62%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-141.5	-0.0439 µg/L	0.01445	-0.0439 ppb	0.01445	32.90%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	19.1	1.1675 µg/L	0.37259	1.1675 ppb	0.37259	31.91%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.2	-0.0018 µg/L	0.17976	-0.0018 ppb	0.17976	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-19.2	-0.2636 µg/L	0.14129	-0.2636 ppb	0.14129	53.61%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-5.4 -0.0415 µg/L	0.15252 -0.0415 ppb	0.15252 367.71%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	65.3 0.2725 µg/L	0.15321 0.2725 ppb	0.15321 56.22%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	24.5 1.6602 µg/L	0.55703 1.6602 ppb	0.55703 33.55%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	134.1 54.270 µg/L	74.6162 54.270 ppb	74.6162 137.49%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-11.0 -4.5467 µg/L	3.81347 -4.5467 ppb	3.81347 83.87%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	15.6 0.0212 µg/L	0.01261 0.0212 ppb	0.01261 59.39%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-7.8 -0.2504 µg/L	0.33588 -0.2504 ppb	0.33588 134.12%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	300.0 44.992 µg/L	12.1605 44.992 ppb	12.1605 27.03%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-20.5 -0.2627 µg/L	0.26099 -0.2627 ppb	0.26099 99.36%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-7.2 -1.7233 µg/L	3.25604 -1.7233 ppb	3.25604 188.94%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	14.2 0.8834 µg/L	0.80108 0.8834 ppb	0.80108 90.68%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-1.0 -0.8370 µg/L	1.62550 -0.8370 ppb	1.62550 194.21%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.4 0.7066 µg/L	0.64651 0.7066 ppb	0.64651 91.50%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	5.0 2.02 µg/L	1.566 2.02 ppb	1.566 77.38%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	14.3 1.5418 µg/L	1.23167 1.5418 ppb	1.23167 79.89%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-37.1 -0.6049 µg/L	0.25476 -0.6049 ppb	0.25476 42.12%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	8.6 0.5949 µg/L	0.48355 0.5949 ppb	0.48355 81.29%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	87.7 0.1971 µg/L	0.34106 0.1971 ppb	0.34106 173.01%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	211.5 0.2169 µg/L	0.24340 0.2169 ppb	0.24340 112.24%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-6.6 -0.8905 µg/L	0.22510 -0.8905 ppb	0.22510 25.28%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-93.5 -5.9061 µg/L	7.76376 -5.9061 ppb	7.76376 131.45%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	136.1 0.7219 µg/L	0.21881 0.7219 ppb	0.21881 30.31%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	62.3 0.3910 µg/L	0.13360 0.3910 ppb	0.13360 34.17%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

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

Autosampler Location: 7
 Date Collected: 3/31/2010 13:26:40
 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	147446.6	147446.6	99.6 %		13:27:14
1	Al 396.153Radial†	25041.0	25210.8	5004.6 µg/L	5004.6 ppb	13:27:14
1	Ca 317.933Radial†	82843.1	82594.7	5050.9 µg/L	5050.9 ppb	13:27:14
1	Fe 238.204 Radial†	73679.1	73861.4	5006.4 µg/L	5006.4 ppb	13:27:14
1	K 766.490 Radial†	13787.1	12297.0	4972.6 µg/L	4972.6 ppb	13:27:14
1	Mg 279.077 IEC†	12650.5	12522.6	5172.0 µg/L	5172.0 ppb	13:27:14
1	Na 589.592 Radial†	67339.1	66311.7	9951.9 µg/L	9951.9 ppb	13:27:14
1	Sr 421.552†	216575.4	217791.7	489.80 µg/L	489.80 ppb	13:27:12
1	Sc 361.383	1732966.2	1732966.2	98.994 %		13:27:41
1	Y 371.029	1031128.2	1031128.2	97.795 %		13:27:41
1	Ag 328.068†	125380.3	122909.4	502.72 µg/L	502.72 ppb	13:27:41
1	As 188.979†	1469.8	1501.9	510.28 µg/L	510.28 ppb	13:28:01
1	B 249.677†	33241.6	30296.5	494.17 µg/L	494.17 ppb	13:27:41
1	Ba 233.527†	112382.0	113678.3	501.89 µg/L	501.89 ppb	13:27:41
1	Be 313.107†	1657575.0	1675261.1	498.95 µg/L	498.95 ppb	13:27:41
1	Cd 226.502†	71147.8	71972.8	503.89 µg/L	503.89 ppb	13:27:41
1	Co 228.616†	36295.1	36831.0	504.75 µg/L	504.75 ppb	13:27:41
1	Cr 267.716†	57685.9	58110.5	500.28 µg/L	500.28 ppb	13:27:41
1	Cu 324.752†	118955.6	117324.0	500.06 µg/L	500.06 ppb	13:27:41
1	Mn 257.610†	366989.7	370502.3	500.49 µg/L	500.49 ppb	13:27:41
1	Mo 202.031†	15319.0	15494.0	499.69 µg/L	499.69 ppb	13:28:01
1	Ni 231.604†	38753.5	39229.5	502.22 µg/L	502.22 ppb	13:27:41
1	P 214.914†	10309.0	10427.4	2493.1 µg/L	2493.1 ppb	13:28:01
1	Pb 220.353†	8127.2	8135.0	505.45 µg/L	505.45 ppb	13:28:01
1	S 181.975 Axial†	1282.6	1191.5	1000.1 µg/L	1000.1 ppb	13:28:01
1	Sb 206.836†	3822.4	3788.0	497.30 µg/L	497.30 ppb	13:28:01
1	Se 196.026†	1227.2	1227.1	499 µg/L	499 ppb	13:28:01
1	SiO2†	51768.0	50584.7	5431.8 µg/L	5431.8 ppb	13:27:41
1	Si 251.611†	155561.6	156254.8	2532.2 µg/L	2532.2 ppb	13:27:41
1	Sn 189.927†	7140.2	7213.0	501.17 µg/L	501.17 ppb	13:28:01
1	Ti 334.940†	487790.0	491986.9	497.10 µg/L	497.10 ppb	13:27:41
1	Tl 190.801†	3555.8	3705.1	510.27 µg/L	510.27 ppb	13:28:01
1	U 409.014†	7023.4	7310.4	495.57 µg/L	495.57 ppb	13:27:41
1	V 292.402†	92228.1	92850.2	503.89 µg/L	503.89 ppb	13:27:41
1	Zn 213.857†	80020.0	80303.0	498.15 µg/L	498.15 ppb	13:27:41
2	Sc RADIAL	146379.4	146379.4	98.8 %		13:27:18
2	Al 396.153Radial†	24952.6	25304.7	5023.4 µg/L	5023.4 ppb	13:27:18
2	Ca 317.933Radial†	82228.5	82579.5	5050.0 µg/L	5050.0 ppb	13:27:18
2	Fe 238.204 Radial†	73191.6	73907.7	5009.5 µg/L	5009.5 ppb	13:27:18
2	K 766.490 Radial†	13710.2	12320.2	4982.0 µg/L	4982.0 ppb	13:27:18
2	Mg 279.077 IEC†	12512.9	12476.0	5152.8 µg/L	5152.8 ppb	13:27:18
2	Na 589.592 Radial†	67081.5	66544.3	9986.8 µg/L	9986.8 ppb	13:27:18
2	Sr 421.552†	214263.9	217039.0	488.11 µg/L	488.11 ppb	13:27:16
2	Sc 361.383	1738425.3	1738425.3	99.306 %		13:28:04
2	Y 371.029	1033303.2	1033303.2	98.001 %		13:28:04
2	Ag 328.068†	126627.5	123767.6	506.25 µg/L	506.25 ppb	13:28:04
2	As 188.979†	1464.7	1492.1	507.01 µg/L	507.01 ppb	13:28:24
2	B 249.677†	33718.0	30670.8	500.29 µg/L	500.29 ppb	13:28:04
2	Ba 233.527†	113328.9	114275.4	504.53 µg/L	504.53 ppb	13:28:04
2	Be 313.107†	1674166.6	1686710.5	502.36 µg/L	502.36 ppb	13:28:04
2	Cd 226.502†	72268.2	72875.4	510.22 µg/L	510.22 ppb	13:28:04
2	Co 228.616†	36643.1	37066.3	507.97 µg/L	507.97 ppb	13:28:04
2	Cr 267.716†	58209.6	58454.8	503.24 µg/L	503.24 ppb	13:28:04
2	Cu 324.752†	119862.7	117860.0	502.35 µg/L	502.35 ppb	13:28:04
2	Mn 257.610†	371021.3	373397.9	504.40 µg/L	504.40 ppb	13:28:04
2	Mo 202.031†	15336.0	15462.6	498.68 µg/L	498.68 ppb	13:28:24
2	Ni 231.604†	39419.3	39777.1	509.22 µg/L	509.22 ppb	13:28:04
2	P 214.914†	10354.3	10440.3	2496.2 µg/L	2496.2 ppb	13:28:24
2	Pb 220.353†	8137.8	8119.9	504.50 µg/L	504.50 ppb	13:28:24

2	S 181.975 Axial†	1293.1	1198.0	1005.6 µg/L	1005.6 ppb	13:28:24
2	Sb 206.836†	3848.3	3802.0	499.08 µg/L	499.08 ppb	13:28:24
2	Se 196.026†	1265.4	1261.7	513 µg/L	513 ppb	13:28:24
2	SiO2†	52148.4	50803.6	5455.4 µg/L	5455.4 ppb	13:28:04
2	Si 251.611†	157511.2	157724.6	2556.1 µg/L	2556.1 ppb	13:28:04
2	Sn 189.927†	7165.1	7215.5	501.35 µg/L	501.35 ppb	13:28:24
2	Ti 334.940†	492055.4	494734.7	499.88 µg/L	499.88 ppb	13:28:04
2	Tl 190.801†	3568.0	3706.2	510.46 µg/L	510.46 ppb	13:28:24
2	U 409.014†	7255.9	7522.2	509.29 µg/L	509.29 ppb	13:28:04
2	V 292.402†	93217.4	93553.9	507.67 µg/L	507.67 ppb	13:28:04
2	Zn 213.857†	81172.8	81209.9	503.77 µg/L	503.77 ppb	13:28:04
3	Sc RADIAL	145785.1	145785.1	98.4 %		13:27:22
3	Al 396.153Radial†	24810.7	25263.4	5015.1 µg/L	5015.1 ppb	13:27:22
3	Ca 317.933Radial†	81601.2	82281.5	5031.8 µg/L	5031.8 ppb	13:27:22
3	Fe 238.204 Radial†	72567.5	73575.6	4987.0 µg/L	4987.0 ppb	13:27:22
3	K 766.490 Radial†	13611.1	12276.0	4964.1 µg/L	4964.1 ppb	13:27:22
3	Mg 279.077 IEC†	12412.3	12425.4	5132.0 µg/L	5132.0 ppb	13:27:22
3	Na 589.592 Radial†	66758.3	66492.6	9979.1 µg/L	9979.1 ppb	13:27:22
3	Sr 421.552†	220127.1	223878.3	503.49 µg/L	503.49 ppb	13:27:20
3	Sc 361.383	1728045.0	1728045.0	98.713 %		13:28:27
3	Y 371.029	1028129.4	1028129.4	97.510 %		13:28:27
3	Ag 328.068†	125758.5	123653.2	505.74 µg/L	505.74 ppb	13:28:27
3	As 188.979†	1453.0	1489.0	506.00 µg/L	506.00 ppb	13:28:47
3	B 249.677†	33550.8	30705.4	500.86 µg/L	500.86 ppb	13:28:27
3	Ba 233.527†	112358.5	113977.8	503.21 µg/L	503.21 ppb	13:28:27
3	Be 313.107†	1658979.3	1681452.1	500.79 µg/L	500.79 ppb	13:28:27
3	Cd 226.502†	71374.0	72406.6	506.93 µg/L	506.93 ppb	13:28:27
3	Co 228.616†	36298.5	36938.9	506.23 µg/L	506.23 ppb	13:28:27
3	Cr 267.716†	57832.5	58425.0	502.99 µg/L	502.99 ppb	13:28:27
3	Cu 324.752†	119255.8	117970.2	502.80 µg/L	502.80 ppb	13:28:27
3	Mn 257.610†	367530.7	372106.1	502.66 µg/L	502.66 ppb	13:28:27
3	Mo 202.031†	15265.7	15484.1	499.37 µg/L	499.37 ppb	13:28:47
3	Ni 231.604†	39055.2	39646.7	507.56 µg/L	507.56 ppb	13:28:27
3	P 214.914†	10272.0	10419.6	2491.2 µg/L	2491.2 ppb	13:28:47
3	Pb 220.353†	8112.2	8143.2	505.96 µg/L	505.96 ppb	13:28:47
3	S 181.975 Axial†	1283.9	1196.4	1004.2 µg/L	1004.2 ppb	13:28:47
3	Sb 206.836†	3797.9	3774.2	495.44 µg/L	495.44 ppb	13:28:47
3	Se 196.026†	1241.9	1245.5	507 µg/L	507 ppb	13:28:47
3	SiO2†	51667.0	50631.4	5436.8 µg/L	5436.8 ppb	13:28:27
3	Si 251.611†	156332.3	157483.1	2552.2 µg/L	2552.2 ppb	13:28:27
3	Sn 189.927†	7118.7	7211.8	501.09 µg/L	501.09 ppb	13:28:47
3	Ti 334.940†	488259.8	493866.0	499.00 µg/L	499.00 ppb	13:28:27
3	Tl 190.801†	3518.6	3677.7	506.57 µg/L	506.57 ppb	13:28:47
3	U 409.014†	7013.2	7320.3	496.28 µg/L	496.28 ppb	13:28:27
3	V 292.402†	92170.4	93057.1	505.01 µg/L	505.01 ppb	13:28:27
3	Zn 213.857†	80511.6	81031.1	502.67 µg/L	502.67 ppb	13:28:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1733145.5	99.004 %	0.2966			0.30%
Sc RADIAL	146537.0	99.0 %	0.57			0.57%
Y 371.029	1030853.6	97.769 %	0.2464			0.25%
Ag 328.068†	123443.4	504.90 µg/L	1.907	504.90 ppb	1.907	0.38%
QC value within limits for Ag 328.068 Recovery = 100.98%						
Al 396.153Radial†	25259.6	5014.4 µg/L	9.41	5014.4 ppb	9.41	0.19%
QC value within limits for Al 396.153Radial Recovery = 100.29%						
As 188.979†	1494.3	507.76 µg/L	2.240	507.76 ppb	2.240	0.44%
QC value within limits for As 188.979 Recovery = 101.55%						
B 249.677†	30557.5	498.44 µg/L	3.708	498.44 ppb	3.708	0.74%
QC value within limits for B 249.677 Recovery = 99.69%						
Ba 233.527†	113977.2	503.21 µg/L	1.318	503.21 ppb	1.318	0.26%
QC value within limits for Ba 233.527 Recovery = 100.64%						
Be 313.107†	1681141.3	500.70 µg/L	1.708	500.70 ppb	1.708	0.34%
QC value within limits for Be 313.107 Recovery = 100.14%						
Ca 317.933Radial†	82485.2	5044.2 µg/L	10.80	5044.2 ppb	10.80	0.21%
QC value within limits for Ca 317.933Radial Recovery = 100.88%						
Cd 226.502†	72418.3	507.01 µg/L	3.164	507.01 ppb	3.164	0.62%
QC value within limits for Cd 226.502 Recovery = 101.40%						
Co 228.616†	36945.4	506.31 µg/L	1.615	506.31 ppb	1.615	0.32%

QC value within limits for Co 228.616 Recovery = 101.26%							
Cr 267.716†	58330.1	502.17 µg/L	1.640	502.17 ppb	1.640	0.33%	
QC value within limits for Cr 267.716 Recovery = 100.43%							
Cu 324.752†	117718.1	501.73 µg/L	1.471	501.73 ppb	1.471	0.29%	
QC value within limits for Cu 324.752 Recovery = 100.35%							
Fe 238.204 Radial†	73781.6	5001.0 µg/L	12.19	5001.0 ppb	12.19	0.24%	
QC value within limits for Fe 238.204 Radial Recovery = 100.02%							
K 766.490 Radial†	12297.8	4972.9 µg/L	8.94	4972.9 ppb	8.94	0.18%	
QC value within limits for K 766.490 Radial Recovery = 99.46%							
Mg 279.077 IEC†	12474.7	5152.3 µg/L	20.03	5152.3 ppb	20.03	0.39%	
QC value within limits for Mg 279.077 IEC Recovery = 103.05%							
Mn 257.610†	372002.1	502.52 µg/L	1.961	502.52 ppb	1.961	0.39%	
QC value within limits for Mn 257.610 Recovery = 100.50%							
Mo 202.031†	15480.2	499.25 µg/L	0.517	499.25 ppb	0.517	0.10%	
QC value within limits for Mo 202.031 Recovery = 99.85%							
Na 589.592 Radial†	66449.5	9972.6 µg/L	18.33	9972.6 ppb	18.33	0.18%	
QC value within limits for Na 589.592 Radial Recovery = 99.73%							
Ni 231.604†	39551.1	506.33 µg/L	3.661	506.33 ppb	3.661	0.72%	
QC value within limits for Ni 231.604 Recovery = 101.27%							
P 214.914†	10429.1	2493.5 µg/L	2.51	2493.5 ppb	2.51	0.10%	
QC value within limits for P 214.914 Recovery = 99.74%							
Pb 220.353†	8132.7	505.30 µg/L	0.737	505.30 ppb	0.737	0.15%	
QC value within limits for Pb 220.353 Recovery = 101.06%							
S 181.975 Axial†	1195.3	1003.3 µg/L	2.84	1003.3 ppb	2.84	0.28%	
QC value within limits for S 181.975 Axial Recovery = 100.33%							
Sb 206.836†	3788.1	497.27 µg/L	1.819	497.27 ppb	1.819	0.37%	
QC value within limits for Sb 206.836 Recovery = 99.45%							
Se 196.026†	1244.7	507 µg/L	7.0	507 ppb	7.0	1.38%	
QC value within limits for Se 196.026 Recovery = 101.30%							
SiO2†	50673.2	5441.4 µg/L	12.44	5441.4 ppb	12.44	0.23%	
QC value within limits for SiO2 Recovery = 101.76%							
Si 251.611†	157154.2	2546.9 µg/L	12.83	2546.9 ppb	12.83	0.50%	
QC value within limits for Si 251.611 Recovery = 101.87%							
Sn 189.927†	7213.4	501.21 µg/L	0.134	501.21 ppb	0.134	0.03%	
QC value within limits for Sn 189.927 Recovery = 100.24%							
Sr 421.552†	219569.7	493.80 µg/L	8.435	493.80 ppb	8.435	1.71%	
QC value within limits for Sr 421.552 Recovery = 98.76%							
Ti 334.940†	493529.2	498.66 µg/L	1.419	498.66 ppb	1.419	0.28%	
QC value within limits for Ti 334.940 Recovery = 99.73%							
Tl 190.801†	3696.3	509.10 µg/L	2.193	509.10 ppb	2.193	0.43%	
QC value within limits for Tl 190.801 Recovery = 101.82%							
U 409.014†	7384.3	500.38 µg/L	7.724	500.38 ppb	7.724	1.54%	
QC value within limits for U 409.014 Recovery = 100.08%							
V 292.402†	93153.7	505.53 µg/L	1.940	505.53 ppb	1.940	0.38%	
QC value within limits for V 292.402 Recovery = 101.11%							
Zn 213.857†	80848.0	501.53 µg/L	2.980	501.53 ppb	2.980	0.59%	
QC value within limits for Zn 213.857 Recovery = 100.31%							
All analyte(s) passed QC.							

Sequence No.: 13

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 13:28:55

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	144023.2	144023.2	97.3 %		13:29:24
1	Al 396.153Radial†	-36.3	23.9	4.7753 µg/L	4.7753 ppb	13:29:44
1	Ca 317.933Radial†	576.9	-14.0	-0.8576 µg/L	-0.8576 ppb	13:29:44
1	Fe 238.204 Radial†	161.6	29.3	1.9827 µg/L	1.9827 ppb	13:29:44
1	K 766.490 Radial†	1669.2	166.4	67.357 µg/L	67.357 ppb	13:29:24
1	Mg 279.077 IEC†	185.6	8.0	3.3098 µg/L	3.3098 ppb	13:29:44
1	Na 589.592 Radial†	1410.0	130.7	19.571 µg/L	19.571 ppb	13:29:24
1	Sr 421.552†	-103.4	171.8	0.3863 µg/L	0.3863 ppb	13:29:24
1	Sc 361.383	1710105.4	1710105.4	97.688 %		13:30:46
1	Y 371.029	1031028.7	1031028.7	97.785 %		13:30:46
1	Ag 328.068†	3742.0	85.7	0.3217 µg/L	0.3217 ppb	13:30:48
1	As 188.979†	-10.1	6.8	2.2744 µg/L	2.2744 ppb	13:31:08
1	B 249.677†	3336.3	132.4	2.1690 µg/L	2.1690 ppb	13:31:08
1	Ba 233.527†	-142.7	8.3	0.0368 µg/L	0.0368 ppb	13:31:08
1	Be 313.107†	-831.1	-6.1	-0.0086 µg/L	-0.0086 ppb	13:30:48
1	Cd 226.502†	-110.8	-11.3	-0.0793 µg/L	-0.0793 ppb	13:31:08
1	Co 228.616†	-185.6	-22.8	-0.3129 µg/L	-0.3129 ppb	13:31:08
1	Cr 267.716†	178.2	20.9	0.1974 µg/L	0.1974 ppb	13:31:08
1	Cu 324.752†	2895.2	123.4	0.5060 µg/L	0.5060 ppb	13:30:48
1	Mn 257.610†	197.3	-14.1	-0.0192 µg/L	-0.0192 ppb	13:31:08
1	Mo 202.031†	-25.0	-6.2	-0.1993 µg/L	-0.1993 ppb	13:31:08
1	Ni 231.604†	-115.0	-35.4	-0.4536 µg/L	-0.4536 ppb	13:31:08
1	P 214.914†	-17.9	-4.7	-1.1342 µg/L	-1.1342 ppb	13:31:08
1	Pb 220.353†	97.0	24.5	1.5351 µg/L	1.5351 ppb	13:31:08
1	S 181.975 Axial†	100.2	-1.7	-1.3864 µg/L	-1.3864 ppb	13:31:08
1	Sb 206.836†	81.2	9.9	1.2899 µg/L	1.2899 ppb	13:31:08
1	Se 196.026†	4.8	-7.7	-3.15 µg/L	-3.15 ppb	13:31:08
1	SiO2†	1670.3	0.5	0.0729 µg/L	0.0729 ppb	13:31:08
1	Si 251.611†	808.1	-60.1	-0.9701 µg/L	-0.9701 ppb	13:31:08
1	Sn 189.927†	-9.9	-9.9	-0.6825 µg/L	-0.6825 ppb	13:31:08
1	Ti 334.940†	903.7	165.8	0.1765 µg/L	0.1765 ppb	13:30:48
1	Tl 190.801†	-107.6	3.1	0.4240 µg/L	0.4240 ppb	13:31:08
1	U 409.014†	-553.7	-351.2	-22.336 µg/L	-22.336 ppb	13:30:48
1	V 292.402†	355.2	48.6	0.2437 µg/L	0.2437 ppb	13:30:48
1	Zn 213.857†	570.2	53.6	0.3379 µg/L	0.3379 ppb	13:31:08
2	Sc RADIAL	143521.6	143521.6	96.9 %		13:29:46
2	Al 396.153Radial†	-65.8	-6.6	-1.3119 µg/L	-1.3119 ppb	13:30:06
2	Ca 317.933Radial†	632.4	45.3	2.7700 µg/L	2.7700 ppb	13:30:06
2	Fe 238.204 Radial†	150.9	18.8	1.2754 µg/L	1.2754 ppb	13:30:06
2	K 766.490 Radial†	1582.6	83.1	33.623 µg/L	33.623 ppb	13:29:46
2	Mg 279.077 IEC†	178.9	1.9	0.7657 µg/L	0.7657 ppb	13:30:06
2	Na 589.592 Radial†	1497.7	226.3	33.947 µg/L	33.947 ppb	13:29:46
2	Sr 421.552†	-257.2	12.7	0.0285 µg/L	0.0285 ppb	13:29:46
2	Sc 361.383	1695110.8	1695110.8	96.832 %		13:31:10
2	Y 371.029	1021882.5	1021882.5	96.918 %		13:31:10
2	Ag 328.068†	3761.5	139.7	0.5498 µg/L	0.5498 ppb	13:31:12
2	As 188.979†	-13.8	2.8	0.9552 µg/L	0.9552 ppb	13:31:33
2	B 249.677†	3287.9	112.7	1.8448 µg/L	1.8448 ppb	13:31:33
2	Ba 233.527†	-126.8	23.6	0.1037 µg/L	0.1037 ppb	13:31:33
2	Be 313.107†	-711.5	109.8	0.0296 µg/L	0.0296 ppb	13:31:12
2	Cd 226.502†	-86.6	12.7	0.0889 µg/L	0.0889 ppb	13:31:33
2	Co 228.616†	-167.7	-6.0	-0.0822 µg/L	-0.0822 ppb	13:31:33
2	Cr 267.716†	185.3	29.8	0.2648 µg/L	0.2648 ppb	13:31:33
2	Cu 324.752†	2781.1	31.8	0.1269 µg/L	0.1269 ppb	13:31:12
2	Mn 257.610†	230.4	21.9	0.0296 µg/L	0.0296 ppb	13:31:33
2	Mo 202.031†	-28.0	-9.5	-0.3063 µg/L	-0.3063 ppb	13:31:33
2	Ni 231.604†	-69.3	10.7	0.1370 µg/L	0.1370 ppb	13:31:33
2	P 214.914†	-1.4	12.1	2.9092 µg/L	2.9092 ppb	13:31:33
2	Pb 220.353†	87.3	15.3	0.9562 µg/L	0.9562 ppb	13:31:33

2	S 181.975 Axial†	95.1	-6.0	-5.0213 µg/L	-5.0213 ppb	13:31:33
2	Sb 206.836†	65.6	-5.4	-0.7204 µg/L	-0.7204 ppb	13:31:33
2	Se 196.026†	0.7	-11.9	-4.82 µg/L	-4.82 ppb	13:31:33
2	SiO2†	1702.1	48.5	5.2343 µg/L	5.2343 ppb	13:31:33
2	Si 251.611†	787.6	-74.0	-1.2009 µg/L	-1.2009 ppb	13:31:33
2	Sn 189.927†	2.0	2.4	0.1650 µg/L	0.1650 ppb	13:31:33
2	Ti 334.940†	683.8	-53.2	-0.0497 µg/L	-0.0497 ppb	13:31:12
2	Tl 190.801†	-127.1	-18.1	-2.4577 µg/L	-2.4577 ppb	13:31:33
2	U 409.014†	-363.8	-160.1	-10.198 µg/L	-10.198 ppb	13:31:12
2	V 292.402†	274.4	-31.6	-0.1783 µg/L	-0.1783 ppb	13:31:12
2	Zn 213.857†	574.1	62.8	0.3917 µg/L	0.3917 ppb	13:31:33
3	Sc RADIAL	143778.8	143778.8	97.1 %		13:30:08
3	Al 396.153Radial†	-37.6	22.6	4.5266 µg/L	4.5266 ppb	13:30:28
3	Ca 317.933Radial†	607.5	18.5	1.1303 µg/L	1.1303 ppb	13:30:28
3	Fe 238.204 Radial†	165.3	33.4	2.2636 µg/L	2.2636 ppb	13:30:28
3	K 766.490 Radial†	1622.8	121.6	49.221 µg/L	49.221 ppb	13:30:08
3	Mg 279.077 IEC†	183.2	5.9	2.4086 µg/L	2.4086 ppb	13:30:28
3	Na 589.592 Radial†	1473.6	198.7	29.793 µg/L	29.793 ppb	13:30:08
3	Sr 421.552†	-250.8	19.8	0.0445 µg/L	0.0445 ppb	13:30:08
3	Sc 361.383	1716295.9	1716295.9	98.042 %		13:31:35
3	Y 371.029	1033639.9	1033639.9	98.033 %		13:31:35
3	Ag 328.068†	3961.6	295.9	1.1910 µg/L	1.1910 ppb	13:31:37
3	As 188.979†	-5.8	11.3	3.7676 µg/L	3.7676 ppb	13:31:57
3	B 249.677†	3336.8	120.6	1.9730 µg/L	1.9730 ppb	13:31:57
3	Ba 233.527†	-139.1	12.6	0.0555 µg/L	0.0555 ppb	13:31:57
3	Be 313.107†	-794.8	34.0	0.0079 µg/L	0.0079 ppb	13:31:37
3	Cd 226.502†	-111.1	-11.1	-0.0782 µg/L	-0.0782 ppb	13:31:57
3	Co 228.616†	-155.6	8.4	0.1154 µg/L	0.1154 ppb	13:31:57
3	Cr 267.716†	153.1	-5.4	-0.0407 µg/L	-0.0407 ppb	13:31:57
3	Cu 324.752†	2721.0	-65.0	-0.2817 µg/L	-0.2817 ppb	13:31:37
3	Mn 257.610†	202.3	-9.7	-0.0133 µg/L	-0.0133 ppb	13:31:57
3	Mo 202.031†	-37.3	-18.7	-0.6007 µg/L	-0.6007 ppb	13:31:57
3	Ni 231.604†	-63.6	17.4	0.2232 µg/L	0.2232 ppb	13:31:57
3	P 214.914†	-6.6	6.9	1.6705 µg/L	1.6705 ppb	13:31:57
3	Pb 220.353†	65.1	-8.5	-0.5195 µg/L	-0.5195 ppb	13:31:57
3	S 181.975 Axial†	98.8	-3.4	-2.8403 µg/L	-2.8403 ppb	13:31:57
3	Sb 206.836†	64.6	-7.3	-0.9680 µg/L	-0.9680 ppb	13:31:57
3	Se 196.026†	19.3	7.1	2.85 µg/L	2.85 ppb	13:31:57
3	SiO2†	1686.4	10.8	1.1797 µg/L	1.1797 ppb	13:31:57
3	Si 251.611†	780.8	-90.9	-1.4744 µg/L	-1.4744 ppb	13:31:57
3	Sn 189.927†	6.4	6.8	0.4712 µg/L	0.4712 ppb	13:31:57
3	Ti 334.940†	814.5	71.5	0.0751 µg/L	0.0751 ppb	13:31:37
3	Tl 190.801†	-113.0	-2.0	-0.2722 µg/L	-0.2722 ppb	13:31:57
3	U 409.014†	-322.6	-113.4	-7.1948 µg/L	-7.1948 ppb	13:31:37
3	V 292.402†	382.4	75.0	0.3903 µg/L	0.3903 ppb	13:31:37
3	Zn 213.857†	581.6	63.2	0.3935 µg/L	0.3935 ppb	13:31:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1707170.7	97.521 %	0.6223			0.64%
Sc RADIAL	143774.5	97.1 %	0.17			0.17%
Y 371.029	1028850.4	97.579 %	0.5856			0.60%
Ag 328.068†	173.8	0.6875 µg/L	0.45073	0.6875 ppb	0.45073	65.56%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.3	2.6633 µg/L	3.44489	2.6633 ppb	3.44489	129.34%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.0	2.3324 µg/L	1.40711	2.3324 ppb	1.40711	60.33%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	121.9	1.9956 µg/L	0.16327	1.9956 ppb	0.16327	8.18%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.8	0.0653 µg/L	0.03450	0.0653 ppb	0.03450	52.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	45.9	0.0097 µg/L	0.01916	0.0097 ppb	0.01916	198.22%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	16.6	1.0143 µg/L	1.81658	1.0143 ppb	1.81658	179.11%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-3.2	-0.0229 µg/L	0.09681	-0.0229 ppb	0.09681	423.59%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.8	-0.0932 µg/L	0.21440	-0.0932 ppb	0.21440	229.94%

QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	15.1	0.1405 µg/L	0.16047	0.1405 ppb	0.16047	114.21%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	30.1	0.1171 µg/L	0.39393	0.1171 ppb	0.39393	336.53%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	27.2	1.8406 µg/L	0.50918	1.8406 ppb	0.50918	27.66%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	123.7	50.067 µg/L	16.8831	50.067 ppb	16.8831	33.72%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	5.3	2.1614 µg/L	1.28994	2.1614 ppb	1.28994	59.68%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-0.7	-0.0010 µg/L	0.02660	-0.0010 ppb	0.02660	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-11.5	-0.3688 µg/L	0.20786	-0.3688 ppb	0.20786	56.36%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	185.3	27.770 µg/L	7.3987	27.770 ppb	7.3987	26.64%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-2.4	-0.0311 µg/L	0.36839	-0.0311 ppb	0.36839	>999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.8	1.1485 µg/L	2.07165	1.1485 ppb	2.07165	180.38%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.5	0.6573 µg/L	1.05943	0.6573 ppb	1.05943	161.19%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-3.7	-3.0827 µg/L	1.82956	-3.0827 ppb	1.82956	59.35%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.0	-0.1328 µg/L	1.23829	-0.1328 ppb	1.23829	932.20%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.2	-1.71 µg/L	4.035	-1.71 ppb	4.035	236.62%
QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†	20.0	2.1623 µg/L	2.71740	2.1623 ppb	2.71740	125.67%
QC value within limits for SiO2 Recovery = Not calculated						
Si 251.611†	-75.0	-1.2151 µg/L	0.25247	-1.2151 ppb	0.25247	20.78%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.2	-0.0154 µg/L	0.59766	-0.0154 ppb	0.59766	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	68.1	0.1531 µg/L	0.20214	0.1531 ppb	0.20214	132.02%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	61.4	0.0673 µg/L	0.11330	0.0673 ppb	0.11330	168.33%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-5.7	-0.7686 µg/L	1.50360	-0.7686 ppb	1.50360	195.62%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-208.2	-13.243 µg/L	8.0168	-13.243 ppb	8.0168	60.54%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	30.7	0.1519 µg/L	0.29521	0.1519 ppb	0.29521	194.34%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	59.9	0.3744 µg/L	0.03161	0.3744 ppb	0.03161	8.44%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 13:54:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146639.8	146639.8	99.0 %		13:55:05
1	Al 396.153Radial†	24987.8	25295.4	5021.3 µg/L	5021.3 ppb	13:55:05
1	Ca 317.933Radial†	82799.4	83008.4	5076.2 µg/L	5076.2 ppb	13:55:05
1	Fe 238.204 Radial†	73739.6	74329.6	5038.1 µg/L	5038.1 ppb	13:55:05
1	K 766.490 Radial†	13693.2	12278.4	4965.0 µg/L	4965.0 ppb	13:55:05
1	Mg 279.077 IEC†	12599.0	12540.5	5179.5 µg/L	5179.5 ppb	13:55:05
1	Na 589.592 Radial†	67350.6	66695.4	10010 µg/L	10010 ppb	13:55:05
1	Sr 421.552†	222892.4	225367.6	506.84 µg/L	506.84 ppb	13:55:03
1	Sc 361.383	1746540.7	1746540.7	99.770 %		13:55:32
1	Y 371.029	1039005.3	1039005.3	98.542 %		13:55:32
1	Ag 328.068†	126266.3	122813.0	502.32 µg/L	502.32 ppb	13:55:32
1	As 188.979†	1490.6	1511.2	513.42 µg/L	513.42 ppb	13:55:52
1	B 249.677†	33650.7	30445.5	496.60 µg/L	496.60 ppb	13:55:32
1	Ba 233.527†	113071.5	113487.0	501.05 µg/L	501.05 ppb	13:55:32
1	Be 313.107†	1671098.6	1675802.0	499.11 µg/L	499.11 ppb	13:55:32
1	Cd 226.502†	71752.9	72020.7	504.22 µg/L	504.22 ppb	13:55:32
1	Co 228.616†	36688.9	36940.8	506.25 µg/L	506.25 ppb	13:55:32
1	Cr 267.716†	58254.7	58227.6	501.30 µg/L	501.30 ppb	13:55:32
1	Cu 324.752†	119429.9	116865.3	498.11 µg/L	498.11 ppb	13:55:32
1	Mn 257.610†	370041.8	370680.2	500.73 µg/L	500.73 ppb	13:55:32
1	Mo 202.031†	15576.0	15631.3	504.12 µg/L	504.12 ppb	13:55:52
1	Ni 231.604†	39154.0	39326.7	503.46 µg/L	503.46 ppb	13:55:32
1	P 214.914†	10472.2	10510.0	2512.9 µg/L	2512.9 ppb	13:55:52
1	Pb 220.353†	8272.8	8217.1	510.55 µg/L	510.55 ppb	13:55:52
1	S 181.975 Axial†	1315.1	1213.9	1018.9 µg/L	1018.9 ppb	13:55:52
1	Sb 206.836†	3894.8	3830.6	502.93 µg/L	502.93 ppb	13:55:52
1	Se 196.026†	1255.5	1245.8	507 µg/L	507 ppb	13:55:52
1	SiO2†	52266.9	50678.4	5441.7 µg/L	5441.7 ppb	13:55:32
1	Si 251.611†	158015.1	157492.7	2552.3 µg/L	2552.3 ppb	13:55:32
1	Sn 189.927†	7270.4	7287.4	506.32 µg/L	506.32 ppb	13:55:52
1	Ti 334.940†	491348.7	491724.0	496.84 µg/L	496.84 ppb	13:55:32
1	Tl 190.801†	3617.1	3738.7	514.81 µg/L	514.81 ppb	13:55:52
1	U 409.014†	6932.2	7163.9	486.24 µg/L	486.24 ppb	13:55:32
1	V 292.402†	92945.7	92845.4	503.91 µg/L	503.91 ppb	13:55:32
1	Zn 213.857†	80574.4	80230.4	497.69 µg/L	497.69 ppb	13:55:32
2	Sc RADIAL	146818.5	146818.5	99.1 %		13:55:09
2	Al 396.153Radial†	25197.0	25475.6	5057.4 µg/L	5057.4 ppb	13:55:09
2	Ca 317.933Radial†	83221.4	83332.2	5096.0 µg/L	5096.0 ppb	13:55:09
2	Fe 238.204 Radial†	74001.1	74502.7	5049.8 µg/L	5049.8 ppb	13:55:09
2	K 766.490 Radial†	13870.0	12439.8	5030.4 µg/L	5030.4 ppb	13:55:09
2	Mg 279.077 IEC†	12691.0	12617.8	5211.3 µg/L	5211.3 ppb	13:55:09
2	Na 589.592 Radial†	67552.3	66816.1	10028 µg/L	10028 ppb	13:55:09
2	Sr 421.552†	220606.5	222788.0	501.04 µg/L	501.04 ppb	13:55:07
2	Sc 361.383	1767728.1	1767728.1	100.98 %		13:55:55
2	Y 371.029	1051345.2	1051345.2	99.712 %		13:55:55
2	Ag 328.068†	128469.9	123478.3	505.04 µg/L	505.04 ppb	13:55:55
2	As 188.979†	1489.9	1492.6	507.19 µg/L	507.19 ppb	13:56:15
2	B 249.677†	34354.7	30738.5	501.39 µg/L	501.39 ppb	13:55:55
2	Ba 233.527†	114774.3	113815.0	502.49 µg/L	502.49 ppb	13:55:55
2	Be 313.107†	1697166.6	1681541.5	500.82 µg/L	500.82 ppb	13:55:55
2	Cd 226.502†	72882.4	72277.2	506.02 µg/L	506.02 ppb	13:55:55
2	Co 228.616†	37252.3	37057.9	507.85 µg/L	507.85 ppb	13:55:55
2	Cr 267.716†	59073.7	58338.9	502.25 µg/L	502.25 ppb	13:55:55
2	Cu 324.752†	121396.3	117377.9	500.30 µg/L	500.30 ppb	13:55:55
2	Mn 257.610†	375597.7	371736.7	502.16 µg/L	502.16 ppb	13:55:55
2	Mo 202.031†	15628.4	15496.1	499.76 µg/L	499.76 ppb	13:56:15
2	Ni 231.604†	39891.1	39586.2	506.78 µg/L	506.78 ppb	13:55:55
2	P 214.914†	10609.1	10519.8	2515.2 µg/L	2515.2 ppb	13:56:15
2	Pb 220.353†	8345.4	8189.6	508.83 µg/L	508.83 ppb	13:56:15

2	S 181.975 Axial†	1321.0	1204.0	1010.6 µg/L	1010.6 ppb	13:56:15
2	Sb 206.836†	3917.3	3806.1	499.64 µg/L	499.64 ppb	13:56:15
2	Se 196.026†	1286.1	1261.0	513 µg/L	513 ppb	13:56:15
2	SiO2†	53297.9	51071.4	5484.2 µg/L	5484.2 ppb	13:55:55
2	Si 251.611†	160523.5	158078.4	2561.9 µg/L	2561.9 ppb	13:55:55
2	Sn 189.927†	7311.5	7240.8	503.10 µg/L	503.10 ppb	13:56:15
2	Ti 334.940†	498524.4	492927.4	498.05 µg/L	498.05 ppb	13:55:55
2	Tl 190.801†	3635.7	3713.6	511.44 µg/L	511.44 ppb	13:56:15
2	U 409.014†	7198.1	7343.8	497.80 µg/L	497.80 ppb	13:55:55
2	V 292.402†	94412.4	93181.2	505.67 µg/L	505.67 ppb	13:55:55
2	Zn 213.857†	82163.4	80836.0	501.45 µg/L	501.45 ppb	13:55:55
3	Sc RADIAL	148320.8	148320.8	100 %		13:55:13
3	Al 396.153Radial†	25387.0	25407.9	5043.8 µg/L	5043.8 ppb	13:55:13
3	Ca 317.933Radial†	83713.6	82973.4	5074.1 µg/L	5074.1 ppb	13:55:13
3	Fe 238.204 Radial†	74416.9	74161.8	5026.7 µg/L	5026.7 ppb	13:55:13
3	K 766.490 Radial†	13923.5	12351.6	4994.7 µg/L	4994.7 ppb	13:55:13
3	Mg 279.077 IEC†	12687.9	12485.0	5156.6 µg/L	5156.6 ppb	13:55:13
3	Na 589.592 Radial†	67927.3	66500.4	9980.2 µg/L	9980.2 ppb	13:55:13
3	Sr 421.552†	219636.7	219565.9	493.79 µg/L	493.79 ppb	13:55:11
3	Sc 361.383	1744849.0	1744849.0	99.673 %		13:56:18
3	Y 371.029	1038452.0	1038452.0	98.489 %		13:56:18
3	Ag 328.068†	127128.2	123800.5	506.34 µg/L	506.34 ppb	13:56:18
3	As 188.979†	1491.5	1513.5	514.20 µg/L	514.20 ppb	13:56:38
3	B 249.677†	33962.3	30790.9	502.26 µg/L	502.26 ppb	13:56:18
3	Ba 233.527†	113479.7	114006.5	503.34 µg/L	503.34 ppb	13:56:18
3	Be 313.107†	1677910.4	1684260.1	501.63 µg/L	501.63 ppb	13:56:18
3	Cd 226.502†	72141.3	72480.1	507.44 µg/L	507.44 ppb	13:56:18
3	Co 228.616†	36680.2	36967.7	506.62 µg/L	506.62 ppb	13:56:18
3	Cr 267.716†	58351.3	58381.2	502.62 µg/L	502.62 ppb	13:56:18
3	Cu 324.752†	120066.9	117620.5	501.32 µg/L	501.32 ppb	13:56:18
3	Mn 257.610†	371369.1	372371.4	503.02 µg/L	503.02 ppb	13:56:18
3	Mo 202.031†	15545.9	15616.3	503.63 µg/L	503.63 ppb	13:56:38
3	Ni 231.604†	39381.8	39593.3	506.87 µg/L	506.87 ppb	13:56:18
3	P 214.914†	10480.2	10528.1	2517.2 µg/L	2517.2 ppb	13:56:38
3	Pb 220.353†	8264.0	8216.3	510.50 µg/L	510.50 ppb	13:56:38
3	S 181.975 Axial†	1305.9	1206.0	1012.3 µg/L	1012.3 ppb	13:56:38
3	Sb 206.836†	3908.8	3848.4	505.24 µg/L	505.24 ppb	13:56:38
3	Se 196.026†	1253.3	1244.8	507 µg/L	507 ppb	13:56:38
3	SiO2†	52543.2	51006.3	5477.1 µg/L	5477.1 ppb	13:56:18
3	Si 251.611†	158539.3	158172.1	2563.3 µg/L	2563.3 ppb	13:56:18
3	Sn 189.927†	7266.4	7290.5	506.54 µg/L	506.54 ppb	13:56:38
3	Ti 334.940†	492767.3	493624.8	498.76 µg/L	498.76 ppb	13:56:18
3	Tl 190.801†	3593.8	3718.8	512.16 µg/L	512.16 ppb	13:56:38
3	U 409.014†	7018.6	7257.2	492.32 µg/L	492.32 ppb	13:56:18
3	V 292.402†	93281.8	93272.9	506.20 µg/L	506.20 ppb	13:56:18
3	Zn 213.857†	81284.4	81021.0	502.61 µg/L	502.61 ppb	13:56:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1753039.3	100.14 %		0.728			0.73%
Sc RADIAL	147259.7	99.4 %		0.62			0.63%
Y 371.029	1042934.2	98.914 %		0.6913			0.70%
Ag 328.068†	123363.9	504.57 µg/L		2.053	504.57 ppb	2.053	0.41%
QC value within limits for Ag 328.068 Recovery = 100.91%							
Al 396.153Radial†	25393.0	5040.8 µg/L		18.25	5040.8 ppb	18.25	0.36%
QC value within limits for Al 396.153Radial Recovery = 100.82%							
As 188.979†	1505.7	511.60 µg/L		3.840	511.60 ppb	3.840	0.75%
QC value within limits for As 188.979 Recovery = 102.32%							
B 249.677†	30658.3	500.08 µg/L		3.045	500.08 ppb	3.045	0.61%
QC value within limits for B 249.677 Recovery = 100.02%							
Ba 233.527†	113769.5	502.29 µg/L		1.159	502.29 ppb	1.159	0.23%
QC value within limits for Ba 233.527 Recovery = 100.46%							
Be 313.107†	1680534.5	500.52 µg/L		1.287	500.52 ppb	1.287	0.26%
QC value within limits for Be 313.107 Recovery = 100.10%							
Ca 317.933Radial†	83104.6	5082.1 µg/L		12.10	5082.1 ppb	12.10	0.24%
QC value within limits for Ca 317.933Radial Recovery = 101.64%							
Cd 226.502†	72259.4	505.90 µg/L		1.614	505.90 ppb	1.614	0.32%
QC value within limits for Cd 226.502 Recovery = 101.18%							
Co 228.616†	36988.8	506.91 µg/L		0.840	506.91 ppb	0.840	0.17%

QC value within limits for Co 228.616 Recovery = 101.38%							
Cr 267.716†	58315.9	502.06 µg/L	0.680	502.06 ppb	0.680	0.14%	
QC value within limits for Cr 267.716 Recovery = 100.41%							
Cu 324.752†	117287.9	499.91 µg/L	1.641	499.91 ppb	1.641	0.33%	
QC value within limits for Cu 324.752 Recovery = 99.98%							
Fe 238.204 Radial†	74331.4	5038.2 µg/L	11.55	5038.2 ppb	11.55	0.23%	
QC value within limits for Fe 238.204 Radial Recovery = 100.76%							
K 766.490 Radial†	12356.6	4996.7 µg/L	32.71	4996.7 ppb	32.71	0.65%	
QC value within limits for K 766.490 Radial Recovery = 99.93%							
Mg 279.077 IEC†	12547.7	5182.5 µg/L	27.44	5182.5 ppb	27.44	0.53%	
QC value within limits for Mg 279.077 IEC Recovery = 103.65%							
Mn 257.610†	371596.1	501.97 µg/L	1.155	501.97 ppb	1.155	0.23%	
QC value within limits for Mn 257.610 Recovery = 100.39%							
Mo 202.031†	15581.2	502.50 µg/L	2.387	502.50 ppb	2.387	0.48%	
QC value within limits for Mo 202.031 Recovery = 100.50%							
Na 589.592 Radial†	66670.7	10006 µg/L	23.9	10006 ppb	23.9	0.24%	
QC value within limits for Na 589.592 Radial Recovery = 100.06%							
Ni 231.604†	39502.1	505.70 µg/L	1.945	505.70 ppb	1.945	0.38%	
QC value within limits for Ni 231.604 Recovery = 101.14%							
P 214.914†	10519.3	2515.1 µg/L	2.17	2515.1 ppb	2.17	0.09%	
QC value within limits for P 214.914 Recovery = 100.60%							
Pb 220.353†	8207.7	509.96 µg/L	0.980	509.96 ppb	0.980	0.19%	
QC value within limits for Pb 220.353 Recovery = 101.99%							
S 181.975 Axial†	1208.0	1013.9 µg/L	4.40	1013.9 ppb	4.40	0.43%	
QC value within limits for S 181.975 Axial Recovery = 101.39%							
Sb 206.836†	3828.4	502.61 µg/L	2.815	502.61 ppb	2.815	0.56%	
QC value within limits for Sb 206.836 Recovery = 100.52%							
Se 196.026†	1250.6	509 µg/L	3.7	509 ppb	3.7	0.72%	
QC value within limits for Se 196.026 Recovery = 101.78%							
SiO2†	50918.7	5467.7 µg/L	22.77	5467.7 ppb	22.77	0.42%	
QC value within limits for SiO2 Recovery = 102.25%							
Si 251.611†	157914.4	2559.2 µg/L	6.01	2559.2 ppb	6.01	0.23%	
QC value within limits for Si 251.611 Recovery = 102.37%							
Sn 189.927†	7272.9	505.32 µg/L	1.928	505.32 ppb	1.928	0.38%	
QC value within limits for Sn 189.927 Recovery = 101.06%							
Sr 421.552†	222573.8	500.56 µg/L	6.538	500.56 ppb	6.538	1.31%	
QC value within limits for Sr 421.552 Recovery = 100.11%							
Ti 334.940†	492758.7	497.88 µg/L	0.972	497.88 ppb	0.972	0.20%	
QC value within limits for Ti 334.940 Recovery = 99.58%							
Tl 190.801†	3723.7	512.80 µg/L	1.778	512.80 ppb	1.778	0.35%	
QC value within limits for Tl 190.801 Recovery = 102.56%							
U 409.014†	7255.0	492.12 µg/L	5.785	492.12 ppb	5.785	1.18%	
QC value within limits for U 409.014 Recovery = 98.42%							
V 292.402†	93099.8	505.26 µg/L	1.201	505.26 ppb	1.201	0.24%	
QC value within limits for V 292.402 Recovery = 101.05%							
Zn 213.857†	80695.8	500.58 µg/L	2.573	500.58 ppb	2.573	0.51%	
QC value within limits for Zn 213.857 Recovery = 100.12%							
All analyte(s) passed QC.							

Sequence No.: 23

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 13:56:46

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	146893.7	146893.7	99.2 %		13:57:15
1	Al 396.153Radial†	-70.9	-10.2	-2.0280 µg/L	-2.0280 ppb	13:57:35
1	Ca 317.933Radial†	614.6	12.3	0.7534 µg/L	0.7534 ppb	13:57:35
1	Fe 238.204 Radial†	151.4	15.8	1.0689 µg/L	1.0689 ppb	13:57:35
1	K 766.490 Radial†	1497.1	-40.5	-16.411 µg/L	-16.411 ppb	13:57:15
1	Mg 279.077 IEC†	196.2	15.1	6.2060 µg/L	6.2060 ppb	13:57:35
1	Na 589.592 Radial†	1375.2	67.3	10.120 µg/L	10.120 ppb	13:57:15
1	Sr 421.552†	-387.9	-113.0	-0.2541 µg/L	-0.2541 ppb	13:57:15
1	Sc 361.383	1734950.5	1734950.5	99.108 %		13:58:37
1	Y 371.029	1044665.6	1044665.6	99.079 %		13:58:37
1	Ag 328.068†	3965.5	256.3	1.0218 µg/L	1.0218 ppb	13:58:39
1	As 188.979†	-21.1	-4.2	-1.3955 µg/L	-1.3955 ppb	13:58:59
1	B 249.677†	3327.6	74.7	1.2237 µg/L	1.2237 ppb	13:58:59
1	Ba 233.527†	-133.9	19.3	0.0852 µg/L	0.0852 ppb	13:58:59
1	Be 313.107†	-770.6	67.1	0.0165 µg/L	0.0165 ppb	13:58:39
1	Cd 226.502†	-88.2	13.2	0.0923 µg/L	0.0923 ppb	13:58:59
1	Co 228.616†	-172.3	-6.7	-0.0916 µg/L	-0.0916 ppb	13:58:59
1	Cr 267.716†	174.0	14.0	0.1299 µg/L	0.1299 ppb	13:58:59
1	Cu 324.752†	2646.2	-170.3	-0.7327 µg/L	-0.7327 ppb	13:58:39
1	Mn 257.610†	196.8	-17.6	-0.0240 µg/L	-0.0240 ppb	13:58:59
1	Mo 202.031†	-24.9	-5.7	-0.1836 µg/L	-0.1836 ppb	13:58:59
1	Ni 231.604†	-71.8	9.8	0.1255 µg/L	0.1255 ppb	13:58:59
1	P 214.914†	-2.7	10.8	2.6133 µg/L	2.6133 ppb	13:58:59
1	Pb 220.353†	82.0	7.9	0.4989 µg/L	0.4989 ppb	13:58:59
1	S 181.975 Axial†	95.6	-7.7	-6.4720 µg/L	-6.4720 ppb	13:58:59
1	Sb 206.836†	72.1	-0.4	-0.0582 µg/L	-0.0582 ppb	13:58:59
1	Se 196.026†	24.2	11.9	4.80 µg/L	4.80 ppb	13:58:59
1	SiO2†	1796.2	103.1	11.115 µg/L	11.115 ppb	13:58:59
1	Si 251.611†	903.4	24.2	0.3952 µg/L	0.3952 ppb	13:58:39
1	Sn 189.927†	2.7	3.0	0.2102 µg/L	0.2102 ppb	13:58:59
1	Ti 334.940†	817.0	65.1	0.0700 µg/L	0.0700 ppb	13:58:39
1	Tl 190.801†	-120.3	-8.2	-1.1083 µg/L	-1.1083 ppb	13:58:59
1	U 409.014†	-392.2	-180.1	-11.462 µg/L	-11.462 ppb	13:58:39
1	V 292.402†	319.7	7.6	0.0312 µg/L	0.0312 ppb	13:58:39
1	Zn 213.857†	563.2	38.2	0.2383 µg/L	0.2383 ppb	13:58:59
2	Sc RADIAL	144790.6	144790.6	97.8 %		13:57:37
2	Al 396.153Radial†	-49.6	10.5	2.1200 µg/L	2.1200 ppb	13:57:57
2	Ca 317.933Radial†	575.8	-18.4	-1.1227 µg/L	-1.1227 ppb	13:57:57
2	Fe 238.204 Radial†	149.5	16.1	1.0883 µg/L	1.0883 ppb	13:57:57
2	K 766.490 Radial†	1554.7	40.3	16.287 µg/L	16.287 ppb	13:57:37
2	Mg 279.077 IEC†	175.0	-3.7	-1.5529 µg/L	-1.5529 ppb	13:57:57
2	Na 589.592 Radial†	1421.2	134.6	20.189 µg/L	20.189 ppb	13:57:37
2	Sr 421.552†	-168.8	105.4	0.2372 µg/L	0.2372 ppb	13:57:37
2	Sc 361.383	1739700.9	1739700.9	99.379 %		13:59:01
2	Y 371.029	1046987.0	1046987.0	99.299 %		13:59:01
2	Ag 328.068†	3880.4	159.8	0.6259 µg/L	0.6259 ppb	13:59:03
2	As 188.979†	-17.4	-0.4	-0.1236 µg/L	-0.1236 ppb	13:59:24
2	B 249.677†	3342.0	80.1	1.3111 µg/L	1.3111 ppb	13:59:24
2	Ba 233.527†	-149.1	4.5	0.0193 µg/L	0.0193 ppb	13:59:24
2	Be 313.107†	-753.1	86.9	0.0220 µg/L	0.0220 ppb	13:59:03
2	Cd 226.502†	-98.2	3.4	0.0235 µg/L	0.0235 ppb	13:59:24
2	Co 228.616†	-173.6	-7.5	-0.1032 µg/L	-0.1032 ppb	13:59:24
2	Cr 267.716†	166.9	6.4	0.0653 µg/L	0.0653 ppb	13:59:24
2	Cu 324.752†	2820.3	-2.4	-0.0207 µg/L	-0.0207 ppb	13:59:03
2	Mn 257.610†	195.5	-19.3	-0.0261 µg/L	-0.0261 ppb	13:59:24
2	Mo 202.031†	-30.8	-11.6	-0.3751 µg/L	-0.3751 ppb	13:59:24
2	Ni 231.604†	-84.9	-3.1	-0.0399 µg/L	-0.0399 ppb	13:59:24
2	P 214.914†	-1.0	12.6	3.0315 µg/L	3.0315 ppb	13:59:24
2	Pb 220.353†	94.3	20.1	1.2534 µg/L	1.2534 ppb	13:59:24

2	S 181.975 Axial†	101.3	-2.3	-1.9073 µg/L	-1.9073 ppb	13:59:24
2	Sb 206.836†	74.0	1.3	0.1614 µg/L	0.1614 ppb	13:59:24
2	Se 196.026†	12.6	0.1	0.019 µg/L	0.019 ppb	13:59:24
2	SiO2†	1760.8	62.5	6.7461 µg/L	6.7461 ppb	13:59:24
2	Si 251.611†	1079.9	199.3	3.2441 µg/L	3.2441 ppb	13:59:03
2	Sn 189.927†	6.0	6.3	0.4370 µg/L	0.4370 ppb	13:59:24
2	Ti 334.940†	948.9	195.6	0.2032 µg/L	0.2032 ppb	13:59:03
2	Tl 190.801†	-117.5	-5.0	-0.6824 µg/L	-0.6824 ppb	13:59:24
2	U 409.014†	-414.3	-201.3	-12.828 µg/L	-12.828 ppb	13:59:03
2	V 292.402†	252.1	-61.3	-0.3409 µg/L	-0.3409 ppb	13:59:03
2	Zn 213.857†	574.1	47.6	0.2979 µg/L	0.2979 ppb	13:59:24
3	Sc RADIAL	144223.3	144223.3	97.4 %		13:57:59
3	Al 396.153Radial†	-23.8	36.8	7.3425 µg/L	7.3425 ppb	13:58:19
3	Ca 317.933Radial†	592.8	1.5	0.0888 µg/L	0.0888 ppb	13:58:19
3	Fe 238.204 Radial†	154.0	21.3	1.4420 µg/L	1.4420 ppb	13:58:19
3	K 766.490 Radial†	1400.5	-111.8	-45.243 µg/L	-45.243 ppb	13:57:59
3	Mg 279.077 IEC†	162.7	-15.7	-6.4716 µg/L	-6.4716 ppb	13:58:19
3	Na 589.592 Radial†	1276.8	-8.1	-1.1722 µg/L	-1.1722 ppb	13:57:59
3	Sr 421.552†	-170.5	103.1	0.2318 µg/L	0.2318 ppb	13:57:59
3	Sc 361.383	1755391.2	1755391.2	100.28 %		13:59:26
3	Y 371.029	1057267.7	1057267.7	100.27 %		13:59:26
3	Ag 328.068†	3838.9	83.6	0.3410 µg/L	0.3410 ppb	13:59:28
3	As 188.979†	-18.3	-1.2	-0.3906 µg/L	-0.3906 ppb	13:59:48
3	B 249.677†	3324.2	32.2	0.5269 µg/L	0.5269 ppb	13:59:48
3	Ba 233.527†	-135.3	19.5	0.0862 µg/L	0.0862 ppb	13:59:48
3	Be 313.107†	-942.5	-95.3	-0.0278 µg/L	-0.0278 ppb	13:59:28
3	Cd 226.502†	-96.7	5.7	0.0398 µg/L	0.0398 ppb	13:59:48
3	Co 228.616†	-161.4	6.2	0.0848 µg/L	0.0848 ppb	13:59:48
3	Cr 267.716†	188.9	26.8	0.2292 µg/L	0.2292 ppb	13:59:48
3	Cu 324.752†	2751.4	-96.4	-0.4080 µg/L	-0.4080 ppb	13:59:28
3	Mn 257.610†	189.4	-27.2	-0.0365 µg/L	-0.0365 ppb	13:59:48
3	Mo 202.031†	-20.0	-0.5	-0.0172 µg/L	-0.0172 ppb	13:59:48
3	Ni 231.604†	-84.0	-1.5	-0.0186 µg/L	-0.0186 ppb	13:59:48
3	P 214.914†	-15.5	-1.9	-0.4444 µg/L	-0.4444 ppb	13:59:48
3	Pb 220.353†	102.1	27.0	1.6733 µg/L	1.6733 ppb	13:59:48
3	S 181.975 Axial†	90.0	-14.4	-12.068 µg/L	-12.068 ppb	13:59:48
3	Sb 206.836†	88.6	15.1	1.9801 µg/L	1.9801 ppb	13:59:48
3	Se 196.026†	8.4	-4.2	-1.71 µg/L	-1.71 ppb	13:59:48
3	SiO2†	1724.7	10.7	1.1543 µg/L	1.1543 ppb	13:59:48
3	Si 251.611†	881.4	-8.4	-0.1381 µg/L	-0.1381 ppb	13:59:28
3	Sn 189.927†	3.9	4.2	0.2870 µg/L	0.2870 ppb	13:59:48
3	Ti 334.940†	619.6	-141.4	-0.1434 µg/L	-0.1434 ppb	13:59:28
3	Tl 190.801†	-107.7	5.8	0.7842 µg/L	0.7842 ppb	13:59:48
3	U 409.014†	-185.4	30.7	1.9577 µg/L	1.9577 ppb	13:59:28
3	V 292.402†	332.5	16.6	0.0912 µg/L	0.0912 ppb	13:59:28
3	Zn 213.857†	560.8	29.2	0.1831 µg/L	0.1831 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	1743347.5	99.587 %	0.6111			0.61%
Sc RADIAL	145302.5	98.1 %	0.95			0.97%
Y 371.029	1049640.1	99.550 %	0.6361			0.64%
Ag 328.068†	166.6	0.6629 µg/L	0.34192	0.6629 ppb	0.34192	51.58%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.4	2.4782 µg/L	4.69551	2.4782 ppb	4.69551	189.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.9	-0.6366 µg/L	0.67065	-0.6366 ppb	0.67065	105.36%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	62.3	1.0206 µg/L	0.42976	1.0206 ppb	0.42976	42.11%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.4	0.0636 µg/L	0.03831	0.0636 ppb	0.03831	60.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	19.6	0.0036 µg/L	0.02730	0.0036 ppb	0.02730	763.52%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.5	-0.0935 µg/L	0.95124	-0.0935 ppb	0.95124	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	7.4	0.0519 µg/L	0.03595	0.0519 ppb	0.03595	69.31%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-2.7	-0.0367 µg/L	0.10536	-0.0367 ppb	0.10536	287.14%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	15.7	0.1415 µg/L	0.08258	0.1415 ppb	0.08258	58.37%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-89.7	-0.3871 µg/L	0.35643	-0.3871 ppb	0.35643	92.07%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	17.7	1.1997 µg/L	0.21001	1.1997 ppb	0.21001	17.51%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-37.4	-15.123 µg/L	30.7853	-15.123 ppb	30.7853	203.57%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.5	-0.6062 µg/L	6.39160	-0.6062 ppb	6.39160	>999.9%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-21.4	-0.0289 µg/L	0.00672	-0.0289 ppb	0.00672	23.28%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-6.0	-0.1919 µg/L	0.17910	-0.1919 ppb	0.17910	93.31%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	64.6	9.7121 µg/L	10.68639	9.7121 ppb	10.68639	110.03%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	1.7	0.0223 µg/L	0.08998	0.0223 ppb	0.08998	402.95%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	7.2	1.7335 µg/L	1.89766	1.7335 ppb	1.89766	109.47%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	18.4	1.1419 µg/L	0.59511	1.1419 ppb	0.59511	52.12%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-8.2	-6.8157 µg/L	5.08904	-6.8157 ppb	5.08904	74.67%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.3	0.6944 µg/L	1.11882	0.6944 ppb	1.11882	161.11%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.6	1.03 µg/L	3.372	1.03 ppb	3.372	326.12%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	58.8	6.3384 µg/L	4.99273	6.3384 ppb	4.99273	78.77%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	71.7	1.1671 µg/L	1.81838	1.1671 ppb	1.81838	155.81%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.5	0.3114 µg/L	0.11538	0.3114 ppb	0.11538	37.05%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	31.8	0.0716 µg/L	0.28209	0.0716 ppb	0.28209	393.91%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	39.7	0.0433 µg/L	0.17484	0.0433 ppb	0.17484	404.17%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.5	-0.3355 µg/L	0.99277	-0.3355 ppb	0.99277	295.92%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-116.9	-7.4440 µg/L	8.17076	-7.4440 ppb	8.17076	109.76%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-12.4	-0.0728 µg/L	0.23410	-0.0728 ppb	0.23410	321.48%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	38.3	0.2398 µg/L	0.05741	0.2398 ppb	0.05741	23.94%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 32

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 14:17:43

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	145404.4	145404.4	98.2 %		14:18:17
1	Al 396.153Radial†	24688.2	25204.6	5003.3 µg/L	5003.3 ppb	14:18:17
1	Ca 317.933Radial†	80699.3	81579.9	4988.8 µg/L	4988.8 ppb	14:18:17
1	Fe 238.204 Radial†	71756.3	72942.4	4944.1 µg/L	4944.1 ppb	14:18:17
1	K 766.490 Radial†	13527.9	12227.5	4944.5 µg/L	4944.5 ppb	14:18:17
1	Mg 279.077 IEC†	12334.8	12379.5	5113.2 µg/L	5113.2 ppb	14:18:17
1	Na 589.592 Radial†	66441.2	66347.2	9957.3 µg/L	9957.3 ppb	14:18:17
1	Sr 421.552†	213662.8	217880.2	490.00 µg/L	490.00 ppb	14:18:15
1	Sc 361.383	1715469.0	1715469.0	97.995 %		14:18:44
1	Y 371.029	1021537.8	1021537.8	96.885 %		14:18:44
1	Ag 328.068†	124742.5	123550.3	505.37 µg/L	505.37 ppb	14:18:44
1	As 188.979†	1442.4	1489.1	506.00 µg/L	506.00 ppb	14:19:04
1	B 249.677†	33147.2	30542.7	498.20 µg/L	498.20 ppb	14:18:44
1	Ba 233.527†	111897.3	114341.5	504.82 µg/L	504.82 ppb	14:18:44
1	Be 313.107†	1650648.9	1685271.7	501.93 µg/L	501.93 ppb	14:18:44
1	Cd 226.502†	70706.7	72255.7	505.88 µg/L	505.88 ppb	14:18:44
1	Co 228.616†	35992.7	36896.4	505.65 µg/L	505.65 ppb	14:18:44
1	Cr 267.716†	57268.5	58278.9	501.73 µg/L	501.73 ppb	14:18:44
1	Cu 324.752†	118050.5	117626.0	501.33 µg/L	501.33 ppb	14:18:44
1	Mn 257.610†	365352.7	372613.0	503.35 µg/L	503.35 ppb	14:18:44
1	Mo 202.031†	15243.1	15574.4	502.28 µg/L	502.28 ppb	14:19:04
1	Ni 231.604†	38683.2	39557.1	506.41 µg/L	506.41 ppb	14:18:44
1	P 214.914†	10220.7	10443.5	2497.0 µg/L	2497.0 ppb	14:19:04
1	Pb 220.353†	8053.0	8143.0	505.95 µg/L	505.95 ppb	14:19:04
1	S 181.975 Axial†	1471.2	1397.2	1172.1 µg/L	1172.1 ppb	14:19:04
1	Sb 206.836†	3821.5	3826.5	502.37 µg/L	502.37 ppb	14:19:04
1	Se 196.026†	1235.2	1247.9	508 µg/L	508 ppb	14:19:04
1	SiO2†	51197.2	50535.6	5426.4 µg/L	5426.4 ppb	14:18:44
1	Si 251.611†	154969.0	157252.9	2548.4 µg/L	2548.4 ppb	14:18:44
1	Sn 189.927†	7096.2	7241.7	503.17 µg/L	503.17 ppb	14:19:04
1	Ti 334.940†	485507.9	494683.9	499.83 µg/L	499.83 ppb	14:18:44
1	Tl 190.801†	3516.3	3701.5	509.84 µg/L	509.84 ppb	14:19:04
1	U 409.014†	7055.2	7415.2	502.51 µg/L	502.51 ppb	14:18:44
1	V 292.402†	92087.9	93657.4	508.26 µg/L	508.26 ppb	14:18:44
1	Zn 213.857†	79695.9	80796.7	501.22 µg/L	501.22 ppb	14:18:44
2	Sc RADIAL	141678.6	141678.6	95.7 %		14:18:21
2	Al 396.153Radial†	24393.4	25557.7	5073.9 µg/L	5073.9 ppb	14:18:21
2	Ca 317.933Radial†	80028.8	83040.5	5078.2 µg/L	5078.2 ppb	14:18:21
2	Fe 238.204 Radial†	70963.9	74036.0	5018.2 µg/L	5018.2 ppb	14:18:21
2	K 766.490 Radial†	13565.6	12629.3	5107.0 µg/L	5107.0 ppb	14:18:21
2	Mg 279.077 IEC†	12105.9	12470.6	5150.5 µg/L	5150.5 ppb	14:18:21
2	Na 589.592 Radial†	65650.5	67300.1	10100 µg/L	10100 ppb	14:18:21
2	Sr 421.552†	215159.8	225167.3	506.39 µg/L	506.39 ppb	14:18:19
2	Sc 361.383	1729957.1	1729957.1	98.822 %		14:19:07
2	Y 371.029	1029724.5	1029724.5	97.661 %		14:19:07
2	Ag 328.068†	125619.1	123371.4	504.63 µg/L	504.63 ppb	14:19:07
2	As 188.979†	1456.2	1490.7	506.56 µg/L	506.56 ppb	14:19:27
2	B 249.677†	33518.6	30635.2	499.71 µg/L	499.71 ppb	14:19:07
2	Ba 233.527†	112711.1	114208.8	504.23 µg/L	504.23 ppb	14:19:07
2	Be 313.107†	1663674.8	1684346.2	501.66 µg/L	501.66 ppb	14:19:07
2	Cd 226.502†	71601.0	72556.4	507.98 µg/L	507.98 ppb	14:19:07
2	Co 228.616†	36340.6	36940.8	506.25 µg/L	506.25 ppb	14:19:07
2	Cr 267.716†	57898.8	58427.3	503.01 µg/L	503.01 ppb	14:19:07
2	Cu 324.752†	118927.3	117504.3	500.83 µg/L	500.83 ppb	14:19:07
2	Mn 257.610†	368262.1	372434.7	503.10 µg/L	503.10 ppb	14:19:07
2	Mo 202.031†	15232.8	15433.7	497.75 µg/L	497.75 ppb	14:19:27
2	Ni 231.604†	39067.7	39615.6	507.16 µg/L	507.16 ppb	14:19:07
2	P 214.914†	10263.1	10399.0	2486.3 µg/L	2486.3 ppb	14:19:27
2	Pb 220.353†	8085.4	8106.9	503.70 µg/L	503.70 ppb	14:19:27

2	S 181.975 Axial†	1432.3	1345.2	1128.6 µg/L	1128.6 ppb	14:19:27
2	Sb 206.836†	3820.1	3792.4	497.82 µg/L	497.82 ppb	14:19:27
2	Se 196.026†	1242.6	1244.8	507 µg/L	507 ppb	14:19:27
2	SiO2†	51718.4	50625.5	5436.2 µg/L	5436.2 ppb	14:19:07
2	Si 251.611†	156278.4	157253.5	2548.5 µg/L	2548.5 ppb	14:19:07
2	Sn 189.927†	7139.4	7224.7	501.99 µg/L	501.99 ppb	14:19:27
2	Ti 334.940†	488444.6	493506.3	498.64 µg/L	498.64 ppb	14:19:07
2	Tl 190.801†	3526.8	3682.0	507.18 µg/L	507.18 ppb	14:19:27
2	U 409.014†	7124.1	7424.6	503.03 µg/L	503.03 ppb	14:19:07
2	V 292.402†	92660.6	93449.9	507.10 µg/L	507.10 ppb	14:19:07
2	Zn 213.857†	80352.0	80779.5	501.10 µg/L	501.10 ppb	14:19:07
3	Sc RADIAL	143942.8	143942.8	97.2 %		14:18:25
3	Al 396.153Radial†	24759.7	25533.5	5069.1 µg/L	5069.1 ppb	14:18:25
3	Ca 317.933Radial†	81350.7	83084.6	5080.9 µg/L	5080.9 ppb	14:18:25
3	Fe 238.204 Radial†	72110.3	74048.6	5019.1 µg/L	5019.1 ppb	14:18:25
3	K 766.490 Radial†	13626.4	12468.7	5042.1 µg/L	5042.1 ppb	14:18:25
3	Mg 279.077 IEC†	12245.2	12414.8	5127.6 µg/L	5127.6 ppb	14:18:25
3	Na 589.592 Radial†	66634.3	67232.9	10090 µg/L	10090 ppb	14:18:25
3	Sr 421.552†	213794.9	220225.6	495.28 µg/L	495.28 ppb	14:18:23
3	Sc 361.383	1730764.9	1730764.9	98.868 %		14:19:30
3	Y 371.029	1031366.4	1031366.4	97.817 %		14:19:30
3	Ag 328.068†	125721.5	123415.5	504.80 µg/L	504.80 ppb	14:19:30
3	As 188.979†	1452.3	1486.1	504.99 µg/L	504.99 ppb	14:19:50
3	B 249.677†	33484.8	30585.2	498.89 µg/L	498.89 ppb	14:19:30
3	Ba 233.527†	112569.8	114012.7	503.37 µg/L	503.37 ppb	14:19:30
3	Be 313.107†	1662082.5	1681949.8	500.94 µg/L	500.94 ppb	14:19:30
3	Cd 226.502†	71431.0	72350.7	506.54 µg/L	506.54 ppb	14:19:30
3	Co 228.616†	36370.0	36953.4	506.42 µg/L	506.42 ppb	14:19:30
3	Cr 267.716†	57806.0	58306.0	501.97 µg/L	501.97 ppb	14:19:30
3	Cu 324.752†	119050.8	117573.1	501.12 µg/L	501.12 ppb	14:19:30
3	Mn 257.610†	367923.6	371918.4	502.41 µg/L	502.41 ppb	14:19:30
3	Mo 202.031†	15253.8	15447.8	498.20 µg/L	498.20 ppb	14:19:50
3	Ni 231.604†	38985.5	39514.0	505.86 µg/L	505.86 ppb	14:19:30
3	P 214.914†	10308.4	10440.0	2496.1 µg/L	2496.1 ppb	14:19:50
3	Pb 220.353†	8089.2	8107.0	503.72 µg/L	503.72 ppb	14:19:50
3	S 181.975 Axial†	1407.7	1319.6	1107.2 µg/L	1107.2 ppb	14:19:50
3	Sb 206.836†	3813.5	3783.9	496.72 µg/L	496.72 ppb	14:19:50
3	Se 196.026†	1239.4	1241.0	505 µg/L	505 ppb	14:19:50
3	SiO2†	51505.9	50386.1	5410.4 µg/L	5410.4 ppb	14:19:30
3	Si 251.611†	156273.6	157174.8	2547.2 µg/L	2547.2 ppb	14:19:30
3	Sn 189.927†	7135.5	7217.5	501.49 µg/L	501.49 ppb	14:19:50
3	Ti 334.940†	488548.2	493380.4	498.51 µg/L	498.51 ppb	14:19:30
3	Tl 190.801†	3510.1	3663.5	504.65 µg/L	504.65 ppb	14:19:50
3	U 409.014†	7013.9	7309.8	495.69 µg/L	495.69 ppb	14:19:30
3	V 292.402†	92576.4	93321.0	506.40 µg/L	506.40 ppb	14:19:30
3	Zn 213.857†	80291.0	80679.8	500.48 µg/L	500.48 ppb	14:19:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1725397.0	98.562 %	0.4917			0.50%
Sc RADIAL	143675.3	97.0 %	1.27			1.31%
Y 371.029	1027542.9	97.455 %	0.4993			0.51%
Ag 328.068†	123445.7	504.93 µg/L	0.388	504.93 ppb	0.388	0.08%
QC value within limits for Ag 328.068 Recovery = 100.99%						
Al 396.153Radial†	25432.0	5048.7 µg/L	39.45	5048.7 ppb	39.45	0.78%
QC value within limits for Al 396.153Radial Recovery = 100.97%						
As 188.979†	1488.6	505.85 µg/L	0.796	505.85 ppb	0.796	0.16%
QC value within limits for As 188.979 Recovery = 101.17%						
B 249.677†	30587.7	498.93 µg/L	0.757	498.93 ppb	0.757	0.15%
QC value within limits for B 249.677 Recovery = 99.79%						
Ba 233.527†	114187.7	504.14 µg/L	0.731	504.14 ppb	0.731	0.15%
QC value within limits for Ba 233.527 Recovery = 100.83%						
Be 313.107†	1683855.9	501.51 µg/L	0.512	501.51 ppb	0.512	0.10%
QC value within limits for Be 313.107 Recovery = 100.30%						
Ca 317.933Radial†	82568.3	5049.3 µg/L	52.36	5049.3 ppb	52.36	1.04%
QC value within limits for Ca 317.933Radial Recovery = 100.99%						
Cd 226.502†	72387.6	506.80 µg/L	1.074	506.80 ppb	1.074	0.21%
QC value within limits for Cd 226.502 Recovery = 101.36%						
Co 228.616†	36930.2	506.11 µg/L	0.407	506.11 ppb	0.407	0.08%

QC value within limits for Co 228.616 Recovery = 101.22%							
Cr 267.716†	58337.4	502.24 µg/L	0.680	502.24 ppb	0.680	0.14%	
QC value within limits for Cr 267.716 Recovery = 100.45%							
Cu 324.752†	117567.8	501.09 µg/L	0.253	501.09 ppb	0.253	0.05%	
QC value within limits for Cu 324.752 Recovery = 100.22%							
Fe 238.204 Radial†	73675.7	4993.8 µg/L	43.05	4993.8 ppb	43.05	0.86%	
QC value within limits for Fe 238.204 Radial Recovery = 99.88%							
K 766.490 Radial†	12441.8	5031.2 µg/L	81.82	5031.2 ppb	81.82	1.63%	
QC value within limits for K 766.490 Radial Recovery = 100.62%							
Mg 279.077 IEC†	12421.6	5130.4 µg/L	18.85	5130.4 ppb	18.85	0.37%	
QC value within limits for Mg 279.077 IEC Recovery = 102.61%							
Mn 257.610†	372322.0	502.95 µg/L	0.488	502.95 ppb	0.488	0.10%	
QC value within limits for Mn 257.610 Recovery = 100.59%							
Mo 202.031†	15485.3	499.41 µg/L	2.496	499.41 ppb	2.496	0.50%	
QC value within limits for Mo 202.031 Recovery = 99.88%							
Na 589.592 Radial†	66960.1	10049 µg/L	79.8	10049 ppb	79.8	0.79%	
QC value within limits for Na 589.592 Radial Recovery = 100.49%							
Ni 231.604†	39562.2	506.47 µg/L	0.652	506.47 ppb	0.652	0.13%	
QC value within limits for Ni 231.604 Recovery = 101.29%							
P 214.914†	10427.5	2493.1 µg/L	5.93	2493.1 ppb	5.93	0.24%	
QC value within limits for P 214.914 Recovery = 99.72%							
Pb 220.353†	8119.0	504.46 µg/L	1.295	504.46 ppb	1.295	0.26%	
QC value within limits for Pb 220.353 Recovery = 100.89%							
S 181.975 Axial†	1354.0	1135.9 µg/L	33.06	1135.9 ppb	33.06	2.91%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 113.59%							
Sb 206.836†	3801.0	498.97 µg/L	2.996	498.97 ppb	2.996	0.60%	
QC value within limits for Sb 206.836 Recovery = 99.79%							
Se 196.026†	1244.6	506 µg/L	1.4	506 ppb	1.4	0.27%	
QC value within limits for Se 196.026 Recovery = 101.29%							
SiO2†	50515.7	5424.4 µg/L	13.03	5424.4 ppb	13.03	0.24%	
QC value within limits for SiO2 Recovery = 101.44%							
Si 251.611†	157227.1	2548.0 µg/L	0.72	2548.0 ppb	0.72	0.03%	
QC value within limits for Si 251.611 Recovery = 101.92%							
Sn 189.927†	7228.0	502.21 µg/L	0.862	502.21 ppb	0.862	0.17%	
QC value within limits for Sn 189.927 Recovery = 100.44%							
Sr 421.552†	221091.0	497.22 µg/L	8.366	497.22 ppb	8.366	1.68%	
QC value within limits for Sr 421.552 Recovery = 99.44%							
Ti 334.940†	493856.8	498.99 µg/L	0.726	498.99 ppb	0.726	0.15%	
QC value within limits for Ti 334.940 Recovery = 99.80%							
Tl 190.801†	3682.3	507.22 µg/L	2.594	507.22 ppb	2.594	0.51%	
QC value within limits for Tl 190.801 Recovery = 101.44%							
U 409.014†	7383.2	500.41 µg/L	4.099	500.41 ppb	4.099	0.82%	
QC value within limits for U 409.014 Recovery = 100.08%							
V 292.402†	93476.1	507.25 µg/L	0.937	507.25 ppb	0.937	0.18%	
QC value within limits for V 292.402 Recovery = 101.45%							
Zn 213.857†	80752.0	500.93 µg/L	0.395	500.93 ppb	0.395	0.08%	
QC value within limits for Zn 213.857 Recovery = 100.19%							
QC Failed. Continue with analysis.							

Sequence No.: 33

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 14:19:59

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	144893.4	144893.4	97.8 %		14:20:28
1	Al 396.153Radial†	-48.1	12.1	2.4420 µg/L	2.4420 ppb	14:20:48
1	Ca 317.933Radial†	625.6	32.2	1.9661 µg/L	1.9661 ppb	14:20:48
1	Fe 238.204 Radial†	148.4	14.8	1.0055 µg/L	1.0055 ppb	14:20:48
1	K 766.490 Radial†	1749.6	238.3	96.445 µg/L	96.445 ppb	14:20:28
1	Mg 279.077 IEC†	166.1	-13.0	-5.3672 µg/L	-5.3672 ppb	14:20:48
1	Na 589.592 Radial†	1515.3	229.7	34.402 µg/L	34.402 ppb	14:20:28
1	Sr 421.552†	-236.5	36.4	0.0818 µg/L	0.0818 ppb	14:20:28
1	Sc 361.383	1716366.9	1716366.9	98.046 %		14:21:36
1	Y 371.029	1033737.1	1033737.1	98.042 %		14:21:36
1	Ag 328.068†	3754.1	84.0	0.3523 µg/L	0.3523 ppb	14:21:38
1	As 188.979†	-26.9	-10.3	-3.4382 µg/L	-3.4382 ppb	14:21:58
1	B 249.677†	3280.9	63.5	1.0389 µg/L	1.0389 ppb	14:21:58
1	Ba 233.527†	-122.7	29.3	0.1294 µg/L	0.1294 ppb	14:21:58
1	Be 313.107†	-890.6	-63.7	-0.0177 µg/L	-0.0177 ppb	14:21:38
1	Cd 226.502†	-91.1	9.2	0.0646 µg/L	0.0646 ppb	14:21:58
1	Co 228.616†	-156.5	7.5	0.1027 µg/L	0.1027 ppb	14:21:58
1	Cr 267.716†	189.0	31.2	0.2660 µg/L	0.2660 ppb	14:21:58
1	Cu 324.752†	2836.6	52.9	0.2281 µg/L	0.2281 ppb	14:21:38
1	Mn 257.610†	229.9	18.4	0.0251 µg/L	0.0251 ppb	14:21:58
1	Mo 202.031†	-37.9	-19.3	-0.6214 µg/L	-0.6214 ppb	14:21:58
1	Ni 231.604†	-62.4	18.7	0.2394 µg/L	0.2394 ppb	14:21:58
1	P 214.914†	-7.9	5.6	1.3416 µg/L	1.3416 ppb	14:21:58
1	Pb 220.353†	75.2	1.9	0.1127 µg/L	0.1127 ppb	14:21:58
1	S 181.975 Axial†	187.3	86.9	72.598 µg/L	72.598 ppb	14:21:58
1	Sb 206.836†	64.7	-7.2	-0.9571 µg/L	-0.9571 ppb	14:21:58
1	Se 196.026†	9.4	-3.0	-1.23 µg/L	-1.23 ppb	14:21:58
1	SiO2†	1708.1	32.9	3.5599 µg/L	3.5599 ppb	14:21:58
1	Si 251.611†	962.0	93.9	1.5321 µg/L	1.5321 ppb	14:21:38
1	Sn 189.927†	6.4	6.8	0.4739 µg/L	0.4739 ppb	14:21:58
1	Ti 334.940†	676.1	-69.7	-0.0719 µg/L	-0.0719 ppb	14:21:38
1	Tl 190.801†	-113.8	-2.9	-0.3862 µg/L	-0.3862 ppb	14:21:58
1	U 409.014†	-147.5	65.2	4.1850 µg/L	4.1850 ppb	14:21:38
1	V 292.402†	430.3	123.8	0.6607 µg/L	0.6607 ppb	14:21:38
1	Zn 213.857†	564.3	45.4	0.2822 µg/L	0.2822 ppb	14:21:58
2	Sc RADIAL	143887.0	143887.0	97.2 %		14:20:50
2	Al 396.153Radial†	-68.9	-9.6	-1.9010 µg/L	-1.9010 ppb	14:21:10
2	Ca 317.933Radial†	620.8	31.7	1.9375 µg/L	1.9375 ppb	14:21:10
2	Fe 238.204 Radial†	144.4	11.8	0.7979 µg/L	0.7979 ppb	14:21:10
2	K 766.490 Radial†	1734.4	235.2	95.181 µg/L	95.181 ppb	14:20:50
2	Mg 279.077 IEC†	168.1	-9.7	-4.0140 µg/L	-4.0140 ppb	14:21:10
2	Na 589.592 Radial†	1575.9	302.9	45.394 µg/L	45.394 ppb	14:20:50
2	Sr 421.552†	-215.9	55.9	0.1257 µg/L	0.1257 ppb	14:20:50
2	Sc 361.383	1715937.9	1715937.9	98.021 %		14:22:00
2	Y 371.029	1033197.3	1033197.3	97.991 %		14:22:00
2	Ag 328.068†	3483.6	-190.9	-0.7730 µg/L	-0.7730 ppb	14:22:02
2	As 188.979†	-10.1	6.8	2.2703 µg/L	2.2703 ppb	14:22:23
2	B 249.677†	3342.4	127.0	2.0787 µg/L	2.0787 ppb	14:22:23
2	Ba 233.527†	-141.7	9.9	0.0436 µg/L	0.0436 ppb	14:22:23
2	Be 313.107†	-721.4	108.7	0.0320 µg/L	0.0320 ppb	14:22:02
2	Cd 226.502†	-106.9	-6.9	-0.0482 µg/L	-0.0482 ppb	14:22:23
2	Co 228.616†	-164.3	-0.4	-0.0059 µg/L	-0.0059 ppb	14:22:23
2	Cr 267.716†	162.0	3.7	0.0324 µg/L	0.0324 ppb	14:22:23
2	Cu 324.752†	2820.4	37.0	0.1563 µg/L	0.1563 ppb	14:22:02
2	Mn 257.610†	248.2	37.1	0.0503 µg/L	0.0503 ppb	14:22:23
2	Mo 202.031†	-30.0	-11.3	-0.3626 µg/L	-0.3626 ppb	14:22:23
2	Ni 231.604†	-79.4	1.3	0.0160 µg/L	0.0160 ppb	14:22:23
2	P 214.914†	6.9	20.6	4.9563 µg/L	4.9563 ppb	14:22:23
2	Pb 220.353†	84.7	11.5	0.7150 µg/L	0.7150 ppb	14:22:23

2	S 181.975 Axial†	179.2	78.7	65.748 µg/L	65.748 ppb	14:22:23
2	Sb 206.836†	75.2	3.5	0.4571 µg/L	0.4571 ppb	14:22:23
2	Se 196.026†	13.9	1.6	0.640 µg/L	0.640 ppb	14:22:23
2	SiO2†	1667.6	-8.0	-0.8655 µg/L	-0.8655 ppb	14:22:23
2	Si 251.611†	803.7	-67.4	-1.0979 µg/L	-1.0979 ppb	14:22:02
2	Sn 189.927†	12.2	12.7	0.8820 µg/L	0.8820 ppb	14:22:23
2	Ti 334.940†	900.5	159.4	0.1621 µg/L	0.1621 ppb	14:22:02
2	Tl 190.801†	-119.5	-8.7	-1.1791 µg/L	-1.1791 ppb	14:22:23
2	U 409.014†	-228.2	-17.2	-1.0985 µg/L	-1.0985 ppb	14:22:02
2	V 292.402†	301.8	-7.1	-0.0428 µg/L	-0.0428 ppb	14:22:02
2	Zn 213.857†	571.9	53.4	0.3335 µg/L	0.3335 ppb	14:22:23
3	Sc RADIAL	144751.4	144751.4	97.7 %		14:21:12
3	Al 396.153Radial†	-54.0	6.0	1.1997 µg/L	1.1997 ppb	14:21:32
3	Ca 317.933Radial†	585.7	-8.1	-0.4928 µg/L	-0.4928 ppb	14:21:32
3	Fe 238.204 Radial†	144.3	10.7	0.7279 µg/L	0.7279 ppb	14:21:32
3	K 766.490 Radial†	1531.6	17.1	6.9206 µg/L	6.9206 ppb	14:21:12
3	Mg 279.077 IEC†	185.4	6.9	2.8433 µg/L	2.8433 ppb	14:21:32
3	Na 589.592 Radial†	1581.6	299.0	44.888 µg/L	44.888 ppb	14:21:12
3	Sr 421.552†	-235.1	37.6	0.0845 µg/L	0.0845 ppb	14:21:12
3	Sc 361.383	1718417.4	1718417.4	98.163 %		14:22:25
3	Y 371.029	1035088.4	1035088.4	98.170 %		14:22:25
3	Ag 328.068†	3950.4	279.5	1.1426 µg/L	1.1426 ppb	14:22:27
3	As 188.979†	-22.4	-5.7	-1.9235 µg/L	-1.9235 ppb	14:22:47
3	B 249.677†	3210.2	-12.6	-0.2053 µg/L	-0.2053 ppb	14:22:47
3	Ba 233.527†	-148.5	3.1	0.0142 µg/L	0.0142 ppb	14:22:47
3	Be 313.107†	-740.0	90.8	0.0283 µg/L	0.0283 ppb	14:22:27
3	Cd 226.502†	-96.0	4.3	0.0302 µg/L	0.0302 ppb	14:22:47
3	Co 228.616†	-181.8	-18.0	-0.2468 µg/L	-0.2468 ppb	14:22:47
3	Cr 267.716†	152.7	-6.0	-0.0543 µg/L	-0.0543 ppb	14:22:47
3	Cu 324.752†	2848.9	61.9	0.2663 µg/L	0.2663 ppb	14:22:27
3	Mn 257.610†	242.9	31.3	0.0422 µg/L	0.0422 ppb	14:22:47
3	Mo 202.031†	-23.7	-4.8	-0.1543 µg/L	-0.1543 ppb	14:22:47
3	Ni 231.604†	-68.6	12.4	0.1585 µg/L	0.1585 ppb	14:22:47
3	P 214.914†	5.3	19.0	4.5499 µg/L	4.5499 ppb	14:22:47
3	Pb 220.353†	62.0	-11.6	-0.7230 µg/L	-0.7230 ppb	14:22:47
3	S 181.975 Axial†	175.5	74.6	62.331 µg/L	62.331 ppb	14:22:47
3	Sb 206.836†	83.4	11.8	1.5437 µg/L	1.5437 ppb	14:22:47
3	Se 196.026†	19.5	7.3	2.95 µg/L	2.95 ppb	14:22:47
3	SiO2†	1706.9	29.6	3.1921 µg/L	3.1921 ppb	14:22:47
3	Si 251.611†	746.6	-126.8	-2.0639 µg/L	-2.0639 ppb	14:22:27
3	Sn 189.927†	5.4	5.8	0.4020 µg/L	0.4020 ppb	14:22:47
3	Ti 334.940†	748.2	2.9	0.0010 µg/L	0.0010 ppb	14:22:27
3	Tl 190.801†	-110.9	0.3	0.0450 µg/L	0.0450 ppb	14:22:47
3	U 409.014†	-147.7	65.2	4.1900 µg/L	4.1900 ppb	14:22:27
3	V 292.402†	441.4	134.7	0.7221 µg/L	0.7221 ppb	14:22:27
3	Zn 213.857†	542.0	22.1	0.1370 µg/L	0.1370 ppb	14:22:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1716907.4	98.077 %	0.0757			0.08%
Sc RADIAL	144510.6	97.6 %	0.37			0.38%
Y 371.029	1034007.6	98.068 %	0.0924			0.09%
Ag 328.068†	57.5	0.2407 µg/L	0.96267	0.2407 ppb	0.96267	400.01%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.8	0.5802 µg/L	2.23683	0.5802 ppb	2.23683	385.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.1	-1.0305 µg/L	2.95716	-1.0305 ppb	2.95716	286.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	59.3	0.9708 µg/L	1.14355	0.9708 ppb	1.14355	117.80%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.1	0.0624 µg/L	0.05987	0.0624 ppb	0.05987	95.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	45.3	0.0142 µg/L	0.02771	0.0142 ppb	0.02771	195.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	18.6	1.1370 µg/L	1.41146	1.1370 ppb	1.41146	124.14%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.2	0.0155 µg/L	0.05784	0.0155 ppb	0.05784	372.33%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.7	-0.0500 µg/L	0.17888	-0.0500 ppb	0.17888	357.88%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	9.6 0.0814 µg/L	0.16570 0.0814 ppb	0.16570 203.61%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	50.6 0.2169 µg/L	0.05585 0.2169 ppb	0.05585 25.75%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	12.4 0.8438 µg/L	0.14437 0.8438 ppb	0.14437 17.11%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	163.5 66.182 µg/L	51.3259 66.182 ppb	51.3259 77.55%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-5.3 -2.1793 µg/L	4.40198 -2.1793 ppb	4.40198 201.99%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	29.0 0.0392 µg/L	0.01285 0.0392 ppb	0.01285 32.77%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-11.8 -0.3794 µg/L	0.23401 -0.3794 ppb	0.23401 61.68%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	277.2 41.561 µg/L	6.2058 41.561 ppb	6.2058 14.93%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	10.8 0.1380 µg/L	0.11308 0.1380 ppb	0.11308 81.96%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	15.0 3.6159 µg/L	1.98010 3.6159 ppb	1.98010 54.76%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	0.6 0.0349 µg/L	0.72218 0.0349 ppb	0.72218 >999.9%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	80.0 66.892 µg/L	5.2282 66.892 ppb	5.2282 7.82%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	2.7 0.3479 µg/L	1.25400 0.3479 ppb	1.25400 360.45%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	1.9 0.788 µg/L	2.0914 0.788 ppb	2.0914 265.42%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	18.2 1.9621 µg/L	2.45573 1.9621 ppb	2.45573 125.16%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	-33.5 -0.5432 µg/L	1.86107 -0.5432 ppb	1.86107 342.59%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	8.5 0.5860 µg/L	0.25886 0.5860 ppb	0.25886 44.17%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	43.3 0.0974 µg/L	0.02460 0.0974 ppb	0.02460 25.27%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	30.9 0.0304 µg/L	0.11972 0.0304 ppb	0.11972 393.44%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-3.8 -0.5068 µg/L	0.62094 -0.5068 ppb	0.62094 122.53%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	37.7 2.4255 µg/L	3.05187 2.4255 ppb	3.05187 125.83%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	83.8 0.4467 µg/L	0.42499 0.4467 ppb	0.42499 95.15%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	40.3 0.2509 µg/L	0.10192 0.2509 ppb	0.10192 40.62%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 41
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/31/2010 14:37:57
 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	146552.6	146552.6	99.0 %		14:38:31
1	Al 396.153Radial†	24837.2	25158.2	4994.0 µg/L	4994.0 ppb	14:38:31
1	Ca 317.933Radial†	82922.6	83182.5	5086.9 µg/L	5086.9 ppb	14:38:31
1	Fe 238.204 Radial†	73355.6	73985.9	5014.8 µg/L	5014.8 ppb	14:38:31
1	K 766.490 Radial†	13797.5	12392.0	5011.0 µg/L	5011.0 ppb	14:38:31
1	Mg 279.077 IEC†	12609.6	12558.7	5187.0 µg/L	5187.0 ppb	14:38:31
1	Na 589.592 Radial†	67942.1	67333.6	10105 µg/L	10105 ppb	14:38:31
1	Sr 421.552†	219200.0	221770.4	498.75 µg/L	498.75 ppb	14:38:29
1	Sc 361.383	1735315.5	1735315.5	99.128 %		14:38:58
1	Y 371.029	1032468.5	1032468.5	97.922 %		14:38:58
1	Ag 328.068†	125423.6	122781.5	502.24 µg/L	502.24 ppb	14:38:58
1	As 188.979†	1461.4	1491.4	506.79 µg/L	506.79 ppb	14:39:18
1	B 249.677†	33559.3	30571.5	498.67 µg/L	498.67 ppb	14:38:58
1	Ba 233.527†	112516.1	113659.9	501.81 µg/L	501.81 ppb	14:38:58
1	Be 313.107†	1660014.2	1675454.9	499.01 µg/L	499.01 ppb	14:38:58
1	Cd 226.502†	71562.4	72293.8	506.14 µg/L	506.14 ppb	14:38:58
1	Co 228.616†	36415.3	36902.6	505.73 µg/L	505.73 ppb	14:38:58
1	Cr 267.716†	57925.8	58273.6	501.68 µg/L	501.68 ppb	14:38:58
1	Cu 324.752†	118758.6	116962.5	498.54 µg/L	498.54 ppb	14:38:58
1	Mn 257.610†	367964.3	370983.6	501.14 µg/L	501.14 ppb	14:38:58
1	Mo 202.031†	15433.8	15588.9	502.75 µg/L	502.75 ppb	14:39:18
1	Ni 231.604†	38925.4	39350.0	503.76 µg/L	503.76 ppb	14:38:58
1	P 214.914†	10406.2	10511.3	2513.2 µg/L	2513.2 ppb	14:39:18
1	Pb 220.353†	8205.1	8202.5	509.62 µg/L	509.62 ppb	14:39:18
1	S 181.975 Axial†	1506.4	1415.5	1187.4 µg/L	1187.4 ppb	14:39:18
1	Sb 206.836†	3864.3	3825.0	502.18 µg/L	502.18 ppb	14:39:18
1	Se 196.026†	1239.5	1237.9	504 µg/L	504 ppb	14:39:18
1	SiO2†	51775.1	50521.1	5424.8 µg/L	5424.8 ppb	14:38:58
1	Si 251.611†	156405.6	156893.4	2542.5 µg/L	2542.5 ppb	14:38:58
1	Sn 189.927†	7216.3	7280.0	505.81 µg/L	505.81 ppb	14:39:18
1	Ti 334.940†	488260.5	491794.3	496.90 µg/L	496.90 ppb	14:38:58
1	Tl 190.801†	3571.8	3716.4	511.80 µg/L	511.80 ppb	14:39:18
1	U 409.014†	7296.6	7576.3	512.57 µg/L	512.57 ppb	14:38:58
1	V 292.402†	92583.0	93082.1	505.18 µg/L	505.18 ppb	14:38:58
1	Zn 213.857†	80350.8	80527.3	499.54 µg/L	499.54 ppb	14:38:58
2	Sc RADIAL	149278.9	149278.9	101 %		14:38:35
2	Al 396.153Radial†	25167.7	25027.7	4968.0 µg/L	4968.0 ppb	14:38:35
2	Ca 317.933Radial†	84112.7	82832.9	5065.5 µg/L	5065.5 ppb	14:38:35
2	Fe 238.204 Radial†	74632.7	73899.1	5008.9 µg/L	5008.9 ppb	14:38:35
2	K 766.490 Radial†	14175.1	12511.9	5059.6 µg/L	5059.6 ppb	14:38:35
2	Mg 279.077 IEC†	12763.5	12478.7	5154.0 µg/L	5154.0 ppb	14:38:35
2	Na 589.592 Radial†	68906.4	67036.4	10061 µg/L	10061 ppb	14:38:35
2	Sr 421.552†	219239.7	217764.7	489.74 µg/L	489.74 ppb	14:38:33
2	Sc 361.383	1748656.9	1748656.9	99.891 %		14:39:21
2	Y 371.029	1040748.5	1040748.5	98.707 %		14:39:21
2	Ag 328.068†	126415.2	122808.9	502.31 µg/L	502.31 ppb	14:39:21
2	As 188.979†	1477.5	1496.3	508.42 µg/L	508.42 ppb	14:39:41
2	B 249.677†	33841.9	30596.1	499.07 µg/L	499.07 ppb	14:39:21
2	Ba 233.527†	113320.9	113599.5	501.54 µg/L	501.54 ppb	14:39:21
2	Be 313.107†	1673242.6	1675921.4	499.14 µg/L	499.14 ppb	14:39:21
2	Cd 226.502†	72076.1	72257.2	505.88 µg/L	505.88 ppb	14:39:21
2	Co 228.616†	36637.9	36845.2	504.94 µg/L	504.94 ppb	14:39:21
2	Cr 267.716†	58329.1	58231.5	501.33 µg/L	501.33 ppb	14:39:21
2	Cu 324.752†	119863.0	117154.1	499.33 µg/L	499.33 ppb	14:39:21
2	Mn 257.610†	370834.3	371024.7	501.20 µg/L	501.20 ppb	14:39:21
2	Mo 202.031†	15532.2	15568.6	502.09 µg/L	502.09 ppb	14:39:41
2	Ni 231.604†	39314.7	39440.1	504.91 µg/L	504.91 ppb	14:39:21
2	P 214.914†	10528.2	10553.4	2523.3 µg/L	2523.3 ppb	14:39:41
2	Pb 220.353†	8266.6	8200.9	509.53 µg/L	509.53 ppb	14:39:41

2	S 181.975 Axial†	1489.6	1387.0	1163.6 µg/L	1163.6 ppb	14:39:41
2	Sb 206.836†	3876.9	3807.9	499.93 µg/L	499.93 ppb	14:39:41
2	Se 196.026†	1265.2	1254.0	510 µg/L	510 ppb	14:39:41
2	SiO2†	52213.1	50561.1	5429.1 µg/L	5429.1 ppb	14:39:21
2	Si 251.611†	157327.3	156612.4	2538.0 µg/L	2538.0 ppb	14:39:21
2	Sn 189.927†	7262.8	7271.0	505.19 µg/L	505.19 ppb	14:39:41
2	Ti 334.940†	491866.2	491646.1	496.76 µg/L	496.76 ppb	14:39:21
2	Tl 190.801†	3609.7	3726.8	513.21 µg/L	513.21 ppb	14:39:41
2	U 409.014†	7063.9	7287.2	494.09 µg/L	494.09 ppb	14:39:21
2	V 292.402†	93040.3	92827.3	503.80 µg/L	503.80 ppb	14:39:21
2	Zn 213.857†	81183.8	80742.8	500.88 µg/L	500.88 ppb	14:39:21
3	Sc RADIAL	146878.8	146878.8	99.2 %		14:38:39
3	Al 396.153Radial†	24909.2	25175.1	4997.4 µg/L	4997.4 ppb	14:38:39
3	Ca 317.933Radial†	82803.2	82876.2	5068.1 µg/L	5068.1 ppb	14:38:39
3	Fe 238.204 Radial†	73554.7	74022.0	5017.3 µg/L	5017.3 ppb	14:38:39
3	K 766.490 Radial†	13913.6	12478.1	5045.8 µg/L	5045.8 ppb	14:38:39
3	Mg 279.077 IEC†	12605.1	12525.9	5173.5 µg/L	5173.5 ppb	14:38:39
3	Na 589.592 Radial†	68101.9	67342.2	10107 µg/L	10107 ppb	14:38:39
3	Sr 421.552†	219002.2	221079.2	497.20 µg/L	497.20 ppb	14:38:37
3	Sc 361.383	1749441.8	1749441.8	99.935 %		14:39:44
3	Y 371.029	1040392.7	1040392.7	98.673 %		14:39:44
3	Ag 328.068†	126318.7	122655.6	501.69 µg/L	501.69 ppb	14:39:44
3	As 188.979†	1481.1	1499.2	509.40 µg/L	509.40 ppb	14:40:04
3	B 249.677†	33785.0	30524.0	497.89 µg/L	497.89 ppb	14:39:44
3	Ba 233.527†	113245.9	113473.7	500.99 µg/L	500.99 ppb	14:39:44
3	Be 313.107†	1675202.2	1677130.7	499.50 µg/L	499.50 ppb	14:39:44
3	Cd 226.502†	71838.3	71987.0	503.99 µg/L	503.99 ppb	14:39:44
3	Co 228.616†	36744.7	36935.6	506.18 µg/L	506.18 ppb	14:39:44
3	Cr 267.716†	58273.9	58150.0	500.63 µg/L	500.63 ppb	14:39:44
3	Cu 324.752†	119900.9	117138.2	499.26 µg/L	499.26 ppb	14:39:44
3	Mn 257.610†	370998.6	371022.5	501.19 µg/L	501.19 ppb	14:39:44
3	Mo 202.031†	15551.4	15580.8	502.49 µg/L	502.49 ppb	14:40:04
3	Ni 231.604†	39319.8	39427.5	504.75 µg/L	504.75 ppb	14:39:44
3	P 214.914†	10540.9	10561.4	2525.2 µg/L	2525.2 ppb	14:40:04
3	Pb 220.353†	8251.0	8181.5	508.34 µg/L	508.34 ppb	14:40:04
3	S 181.975 Axial†	1470.2	1367.0	1146.8 µg/L	1146.8 ppb	14:40:04
3	Sb 206.836†	3904.1	3833.4	503.28 µg/L	503.28 ppb	14:40:04
3	Se 196.026†	1269.7	1257.9	512 µg/L	512 ppb	14:40:04
3	SiO2†	52143.2	50467.7	5419.0 µg/L	5419.0 ppb	14:39:44
3	Si 251.611†	157619.5	156834.1	2541.6 µg/L	2541.6 ppb	14:39:44
3	Sn 189.927†	7285.8	7290.8	506.55 µg/L	506.55 ppb	14:40:04
3	Ti 334.940†	491909.8	491468.8	496.58 µg/L	496.58 ppb	14:39:44
3	Tl 190.801†	3629.3	3744.9	515.66 µg/L	515.66 ppb	14:40:04
3	U 409.014†	6976.2	7196.3	488.31 µg/L	488.31 ppb	14:39:44
3	V 292.402†	93089.5	92834.8	503.84 µg/L	503.84 ppb	14:39:44
3	Zn 213.857†	80993.4	80515.8	499.46 µg/L	499.46 ppb	14:39:44

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1744471.4	99.651 %	0.4535			0.46%
Sc RADIAL	147570.1	99.7 %	1.01			1.01%
Y 371.029	1037869.9	98.434 %	0.4440			0.45%
Ag 328.068†	122748.7	502.08 µg/L	0.343	502.08 ppb	0.343	0.07%
QC value within limits for Ag 328.068 Recovery = 100.42%						
Al 396.153Radial†	25120.3	4986.5 µg/L	16.07	4986.5 ppb	16.07	0.32%
QC value within limits for Al 396.153Radial Recovery = 99.73%						
As 188.979†	1495.6	508.20 µg/L	1.318	508.20 ppb	1.318	0.26%
QC value within limits for As 188.979 Recovery = 101.64%						
B 249.677†	30563.9	498.54 µg/L	0.602	498.54 ppb	0.602	0.12%
QC value within limits for B 249.677 Recovery = 99.71%						
Ba 233.527†	113577.7	501.45 µg/L	0.420	501.45 ppb	0.420	0.08%
QC value within limits for Ba 233.527 Recovery = 100.29%						
Be 313.107†	1676169.0	499.22 µg/L	0.254	499.22 ppb	0.254	0.05%
QC value within limits for Be 313.107 Recovery = 99.84%						
Ca 317.933Radial†	82963.9	5073.5 µg/L	11.65	5073.5 ppb	11.65	0.23%
QC value within limits for Ca 317.933Radial Recovery = 101.47%						
Cd 226.502†	72179.3	505.34 µg/L	1.174	505.34 ppb	1.174	0.23%
QC value within limits for Cd 226.502 Recovery = 101.07%						
Co 228.616†	36894.5	505.61 µg/L	0.626	505.61 ppb	0.626	0.12%

QC value within limits for Co 228.616 Recovery = 101.12%							
Cr 267.716†	58218.4	501.21 µg/L	0.532	501.21 ppb	0.532	0.11%	
QC value within limits for Cr 267.716 Recovery = 100.24%							
Cu 324.752†	117084.9	499.04 µg/L	0.441	499.04 ppb	0.441	0.09%	
QC value within limits for Cu 324.752 Recovery = 99.81%							
Fe 238.204 Radial†	73969.0	5013.7 µg/L	4.28	5013.7 ppb	4.28	0.09%	
QC value within limits for Fe 238.204 Radial Recovery = 100.27%							
K 766.490 Radial†	12460.7	5038.8 µg/L	25.04	5038.8 ppb	25.04	0.50%	
QC value within limits for K 766.490 Radial Recovery = 100.78%							
Mg 279.077 IEC†	12521.1	5171.5 µg/L	16.58	5171.5 ppb	16.58	0.32%	
QC value within limits for Mg 279.077 IEC Recovery = 103.43%							
Mn 257.610†	371010.3	501.18 µg/L	0.032	501.18 ppb	0.032	0.01%	
QC value within limits for Mn 257.610 Recovery = 100.24%							
Mo 202.031†	15579.4	502.44 µg/L	0.330	502.44 ppb	0.330	0.07%	
QC value within limits for Mo 202.031 Recovery = 100.49%							
Na 589.592 Radial†	67237.4	10091 µg/L	26.2	10091 ppb	26.2	0.26%	
QC value within limits for Na 589.592 Radial Recovery = 100.91%							
Ni 231.604†	39405.9	504.47 µg/L	0.624	504.47 ppb	0.624	0.12%	
QC value within limits for Ni 231.604 Recovery = 100.89%							
P 214.914†	10542.0	2520.6 µg/L	6.45	2520.6 ppb	6.45	0.26%	
QC value within limits for P 214.914 Recovery = 100.82%							
Pb 220.353†	8194.9	509.17 µg/L	0.716	509.17 ppb	0.716	0.14%	
QC value within limits for Pb 220.353 Recovery = 101.83%							
S 181.975 Axial†	1389.8	1165.9 µg/L	20.38	1165.9 ppb	20.38	1.75%	
QC value greater than the upper limit for S 181.975 Axial Recovery = 116.59%							
Sb 206.836†	3822.1	501.80 µg/L	1.707	501.80 ppb	1.707	0.34%	
QC value within limits for Sb 206.836 Recovery = 100.36%							
Se 196.026†	1249.9	509 µg/L	4.3	509 ppb	4.3	0.85%	
QC value within limits for Se 196.026 Recovery = 101.73%							
SiO2†	50516.6	5424.3 µg/L	5.07	5424.3 ppb	5.07	0.09%	
QC value within limits for SiO2 Recovery = 101.44%							
Si 251.611†	156780.0	2540.7 µg/L	2.40	2540.7 ppb	2.40	0.09%	
QC value within limits for Si 251.611 Recovery = 101.63%							
Sn 189.927†	7280.6	505.85 µg/L	0.684	505.85 ppb	0.684	0.14%	
QC value within limits for Sn 189.927 Recovery = 101.17%							
Sr 421.552†	220204.8	495.23 µg/L	4.816	495.23 ppb	4.816	0.97%	
QC value within limits for Sr 421.552 Recovery = 99.05%							
Ti 334.940†	491636.4	496.74 µg/L	0.160	496.74 ppb	0.160	0.03%	
QC value within limits for Ti 334.940 Recovery = 99.35%							
Tl 190.801†	3729.4	513.56 µg/L	1.951	513.56 ppb	1.951	0.38%	
QC value within limits for Tl 190.801 Recovery = 102.71%							
U 409.014†	7353.3	498.32 µg/L	12.671	498.32 ppb	12.671	2.54%	
QC value within limits for U 409.014 Recovery = 99.66%							
V 292.402†	92914.7	504.27 µg/L	0.789	504.27 ppb	0.789	0.16%	
QC value within limits for V 292.402 Recovery = 100.85%							
Zn 213.857†	80595.3	499.96 µg/L	0.797	499.96 ppb	0.797	0.16%	
QC value within limits for Zn 213.857 Recovery = 99.99%							
QC Failed. Continue with analysis.							

Sequence No.: 42

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 14:40:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146625.0	146625.0	99.0 %			14:40:41
1	Al 396.153Radial†	-33.7	27.2	5.4478 µg/L		5.4478 ppb	14:41:01
1	Ca 317.933Radial†	658.4	57.8	3.5323 µg/L		3.5323 ppb	14:41:01
1	Fe 238.204 Radial†	133.4	-2.2	-0.1477 µg/L		-0.1477 ppb	14:41:01
1	K 766.490 Radial†	1722.0	189.4	76.621 µg/L		76.621 ppb	14:40:41
1	Mg 279.077 IEC†	182.5	1.6	0.6504 µg/L		0.6504 ppb	14:41:01
1	Na 589.592 Radial†	1655.9	353.4	52.986 µg/L		52.986 ppb	14:40:41
1	Sr 421.552†	-122.4	154.5	0.3474 µg/L		0.3474 ppb	14:40:41
1	Sc 361.383	1737639.8	1737639.8	99.261 %			14:41:49
1	Y 371.029	1045805.6	1045805.6	99.187 %			14:41:49
1	Ag 328.068†	3834.1	117.8	0.4728 µg/L		0.4728 ppb	14:41:51
1	As 188.979†	-17.1	-0.1	-0.0446 µg/L		-0.0446 ppb	14:42:11
1	B 249.677†	3315.0	56.9	0.9316 µg/L		0.9316 ppb	14:42:11
1	Ba 233.527†	-135.4	18.1	0.0796 µg/L		0.0796 ppb	14:42:11
1	Be 313.107†	-899.8	-61.9	-0.0198 µg/L		-0.0198 ppb	14:41:51
1	Cd 226.502†	-138.0	-36.9	-0.2584 µg/L		-0.2584 ppb	14:42:11
1	Co 228.616†	-183.2	-17.4	-0.2389 µg/L		-0.2389 ppb	14:42:11
1	Cr 267.716†	175.0	14.7	0.1305 µg/L		0.1305 ppb	14:42:11
1	Cu 324.752†	2805.1	-14.4	-0.0650 µg/L		-0.0650 ppb	14:41:51
1	Mn 257.610†	245.0	30.8	0.0415 µg/L		0.0415 ppb	14:42:11
1	Mo 202.031†	-35.0	-15.9	-0.5127 µg/L		-0.5127 ppb	14:42:11
1	Ni 231.604†	-66.4	15.4	0.1971 µg/L		0.1971 ppb	14:42:11
1	P 214.914†	-21.7	-8.2	-1.9600 µg/L		-1.9600 ppb	14:42:11
1	Pb 220.353†	85.9	11.8	0.7312 µg/L		0.7312 ppb	14:42:11
1	S 181.975 Axial†	219.6	117.1	97.848 µg/L		97.848 ppb	14:42:11
1	Sb 206.836†	85.7	13.1	1.7116 µg/L		1.7116 ppb	14:42:11
1	Se 196.026†	20.3	7.8	3.17 µg/L		3.17 ppb	14:42:11
1	SiO2†	1720.6	24.1	2.6141 µg/L		2.6141 ppb	14:42:11
1	Si 251.611†	979.6	99.5	1.6240 µg/L		1.6240 ppb	14:41:51
1	Sn 189.927†	3.6	3.9	0.2733 µg/L		0.2733 ppb	14:42:11
1	Ti 334.940†	833.3	80.2	0.0830 µg/L		0.0830 ppb	14:41:51
1	Tl 190.801†	-116.5	-4.1	-0.5561 µg/L		-0.5561 ppb	14:42:11
1	U 409.014†	-286.2	-72.7	-4.6132 µg/L		-4.6132 ppb	14:41:51
1	V 292.402†	355.1	42.8	0.2210 µg/L		0.2210 ppb	14:41:51
1	Zn 213.857†	563.2	37.3	0.2320 µg/L		0.2320 ppb	14:42:11
2	Sc RADIAL	147307.8	147307.8	99.5 %			14:41:03
2	Al 396.153Radial†	-47.0	14.0	2.8274 µg/L		2.8274 ppb	14:41:23
2	Ca 317.933Radial†	643.0	39.2	2.3941 µg/L		2.3941 ppb	14:41:23
2	Fe 238.204 Radial†	127.0	-9.2	-0.6233 µg/L		-0.6233 ppb	14:41:23
2	K 766.490 Radial†	1629.1	87.9	35.550 µg/L		35.550 ppb	14:41:03
2	Mg 279.077 IEC†	182.3	0.5	0.2102 µg/L		0.2102 ppb	14:41:23
2	Na 589.592 Radial†	1643.6	333.2	49.999 µg/L		49.999 ppb	14:41:03
2	Sr 421.552†	-201.8	75.2	0.1692 µg/L		0.1692 ppb	14:41:03
2	Sc 361.383	1743854.3	1743854.3	99.616 %			14:42:13
2	Y 371.029	1049296.5	1049296.5	99.518 %			14:42:13
2	Ag 328.068†	3841.4	111.3	0.4380 µg/L		0.4380 ppb	14:42:15
2	As 188.979†	-16.7	0.3	0.1034 µg/L		0.1034 ppb	14:42:36
2	B 249.677†	3339.8	69.8	1.1433 µg/L		1.1433 ppb	14:42:36
2	Ba 233.527†	-119.1	34.9	0.1536 µg/L		0.1536 ppb	14:42:36
2	Be 313.107†	-929.8	-88.8	-0.0286 µg/L		-0.0286 ppb	14:42:15
2	Cd 226.502†	-111.3	-9.6	-0.0670 µg/L		-0.0670 ppb	14:42:36
2	Co 228.616†	-169.9	-3.4	-0.0467 µg/L		-0.0467 ppb	14:42:36
2	Cr 267.716†	181.0	20.1	0.1787 µg/L		0.1787 ppb	14:42:36
2	Cu 324.752†	2697.1	-132.8	-0.5705 µg/L		-0.5705 ppb	14:42:15
2	Mn 257.610†	247.5	32.4	0.0438 µg/L		0.0438 ppb	14:42:36
2	Mo 202.031†	-39.3	-20.0	-0.6454 µg/L		-0.6454 ppb	14:42:36
2	Ni 231.604†	-90.1	-8.2	-0.1048 µg/L		-0.1048 ppb	14:42:36
2	P 214.914†	-12.6	0.9	0.2378 µg/L		0.2378 ppb	14:42:36
2	Pb 220.353†	88.1	13.6	0.8496 µg/L		0.8496 ppb	14:42:36

2	S 181.975 Axial†	208.5	105.1	87.850 µg/L	87.850 ppb	14:42:36
2	Sb 206.836†	80.5	7.6	0.9826 µg/L	0.9826 ppb	14:42:36
2	Se 196.026†	19.0	6.4	2.60 µg/L	2.60 ppb	14:42:36
2	SiO2†	1707.5	4.8	0.5336 µg/L	0.5336 ppb	14:42:36
2	Si 251.611†	839.7	-44.4	-0.7143 µg/L	-0.7143 ppb	14:42:15
2	Sn 189.927†	2.3	2.6	0.1791 µg/L	0.1791 ppb	14:42:36
2	Ti 334.940†	1034.0	278.7	0.2849 µg/L	0.2849 ppb	14:42:15
2	Tl 190.801†	-120.3	-7.5	-1.0228 µg/L	-1.0228 ppb	14:42:36
2	U 409.014†	-327.5	-113.2	-7.2160 µg/L	-7.2160 ppb	14:42:15
2	V 292.402†	270.0	-43.9	-0.2461 µg/L	-0.2461 ppb	14:42:15
2	Zn 213.857†	551.2	23.3	0.1468 µg/L	0.1468 ppb	14:42:36
3	Sc RADIAL	145130.7	145130.7	98.0 %		14:41:25
3	Al 396.153Radial†	-64.3	-4.4	-0.8657 µg/L	-0.8657 ppb	14:41:45
3	Ca 317.933Radial†	646.3	52.2	3.1923 µg/L	3.1923 ppb	14:41:45
3	Fe 238.204 Radial†	137.2	3.1	0.2086 µg/L	0.2086 ppb	14:41:45
3	K 766.490 Radial†	1611.1	94.1	38.078 µg/L	38.078 ppb	14:41:25
3	Mg 279.077 IEC†	174.3	-4.9	-2.0076 µg/L	-2.0076 ppb	14:41:45
3	Na 589.592 Radial†	1613.1	326.9	49.049 µg/L	49.049 ppb	14:41:25
3	Sr 421.552†	-129.3	146.2	0.3288 µg/L	0.3288 ppb	14:41:25
3	Sc 361.383	1754619.1	1754619.1	100.23 %		14:42:38
3	Y 371.029	1056348.6	1056348.6	100.19 %		14:42:38
3	Ag 328.068†	3598.5	-154.7	-0.6352 µg/L	-0.6352 ppb	14:42:40
3	As 188.979†	-15.5	1.6	0.5517 µg/L	0.5517 ppb	14:43:00
3	B 249.677†	3329.5	39.0	0.6379 µg/L	0.6379 ppb	14:43:00
3	Ba 233.527†	-140.9	13.8	0.0613 µg/L	0.0613 ppb	14:43:00
3	Be 313.107†	-997.8	-150.8	-0.0490 µg/L	-0.0490 ppb	14:42:40
3	Cd 226.502†	-102.0	0.3	0.0023 µg/L	0.0023 ppb	14:43:00
3	Co 228.616†	-173.3	-5.7	-0.0785 µg/L	-0.0785 ppb	14:43:00
3	Cr 267.716†	203.8	41.8	0.3708 µg/L	0.3708 ppb	14:43:00
3	Cu 324.752†	2851.7	4.9	0.0095 µg/L	0.0095 ppb	14:42:40
3	Mn 257.610†	249.2	32.5	0.0440 µg/L	0.0440 ppb	14:43:00
3	Mo 202.031†	-25.0	-5.6	-0.1807 µg/L	-0.1807 ppb	14:43:00
3	Ni 231.604†	-89.3	-6.8	-0.0871 µg/L	-0.0871 ppb	14:43:00
3	P 214.914†	-3.1	10.5	2.5364 µg/L	2.5364 ppb	14:43:00
3	Pb 220.353†	133.2	58.1	3.6085 µg/L	3.6085 ppb	14:43:00
3	S 181.975 Axial†	208.3	103.6	86.609 µg/L	86.609 ppb	14:43:00
3	Sb 206.836†	74.7	1.3	0.1705 µg/L	0.1705 ppb	14:43:00
3	Se 196.026†	11.0	-1.6	-0.680 µg/L	-0.680 ppb	14:43:00
3	SiO2†	1701.2	-12.0	-1.2974 µg/L	-1.2974 ppb	14:43:00
3	Si 251.611†	788.4	-100.7	-1.6402 µg/L	-1.6402 ppb	14:42:40
3	Sn 189.927†	7.7	7.9	0.5495 µg/L	0.5495 ppb	14:43:00
3	Ti 334.940†	631.9	-128.8	-0.1247 µg/L	-0.1247 ppb	14:42:40
3	Tl 190.801†	-112.4	1.0	0.1415 µg/L	0.1415 ppb	14:43:00
3	U 409.014†	-427.0	-210.4	-13.359 µg/L	-13.359 ppb	14:42:40
3	V 292.402†	411.0	95.1	0.5001 µg/L	0.5001 ppb	14:42:40
3	Zn 213.857†	565.5	34.1	0.2136 µg/L	0.2136 ppb	14:43:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745371.1	99.703 %		0.4907			0.49%
Sc RADIAL	146354.5	98.8 %		0.75			0.76%
Y 371.029	1050483.6	99.630 %		0.5094			0.51%
Ag 328.068†	24.8	0.0919 µg/L		0.62991	0.0919 ppb	0.62991	685.77%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	12.3	2.4698 µg/L		3.17188	2.4698 ppb	3.17188	128.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	0.6	0.2035 µg/L		0.31052	0.2035 ppb	0.31052	152.58%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	55.2	0.9043 µg/L		0.25378	0.9043 ppb	0.25378	28.06%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	22.3	0.0982 µg/L		0.04886	0.0982 ppb	0.04886	49.76%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-100.5	-0.0325 µg/L		0.01494	-0.0325 ppb	0.01494	46.04%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	49.7	3.0396 µg/L		0.58425	3.0396 ppb	0.58425	19.22%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	-15.4	-0.1077 µg/L		0.13502	-0.1077 ppb	0.13502	125.34%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-8.9	-0.1214 µg/L		0.10299	-0.1214 ppb	0.10299	84.87%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	25.5	0.2267 µg/L	0.12715	0.2267 ppb	0.12715	56.10%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-47.4	-0.2087 µg/L	0.31559	-0.2087 ppb	0.31559	151.24%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.8	-0.1874 µg/L	0.41735	-0.1874 ppb	0.41735	222.65%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	123.8	50.083 µg/L	23.0175	50.083 ppb	23.0175	45.96%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.9	-0.3823 µg/L	1.42460	-0.3823 ppb	1.42460	372.60%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	31.9	0.0431 µg/L	0.00138	0.0431 ppb	0.00138	3.19%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-13.9	-0.4463 µg/L	0.23938	-0.4463 ppb	0.23938	53.64%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	337.8	50.678 µg/L	2.0544	50.678 ppb	2.0544	4.05%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	0.1	0.0018 µg/L	0.16945	0.0018 ppb	0.16945	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	1.1	0.2714 µg/L	2.24838	0.2714 ppb	2.24838	828.46%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	27.8	1.7298 µg/L	1.62806	1.7298 ppb	1.62806	94.12%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	108.6	90.769 µg/L	6.1617	90.769 ppb	6.1617	6.79%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	7.4	0.9549 µg/L	0.77094	0.9549 ppb	0.77094	80.74%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.2	1.70 µg/L	2.079	1.70 ppb	2.079	122.43%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	5.6	0.6168 µg/L	1.95705	0.6168 ppb	1.95705	317.31%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-15.2	-0.2435 µg/L	1.68224	-0.2435 ppb	1.68224	690.90%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	4.8	0.3340 µg/L	0.19248	0.3340 ppb	0.19248	57.63%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	125.3	0.2818 µg/L	0.09799	0.2818 ppb	0.09799	34.77%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	76.7	0.0811 µg/L	0.20485	0.0811 ppb	0.20485	252.68%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-3.6	-0.4792 µg/L	0.58596	-0.4792 ppb	0.58596	122.29%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-132.1	-8.3961 µg/L	4.49078	-8.3961 ppb	4.49078	53.49%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	31.3	0.1584 µg/L	0.37702	0.1584 ppb	0.37702	238.09%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	31.5	0.1975 µg/L	0.04484	0.1975 ppb	0.04484	22.71%	
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: 3/31/2010 14:55:18

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	148956.6	148956.6	101 %		14:55:52
1	Al 396.153Radial†	25026.6	24941.5	4950.8 µg/L	4950.8 ppb	14:55:52
1	Ca 317.933Radial†	83036.5	81943.6	5011.1 µg/L	5011.1 ppb	14:55:52
1	Fe 238.204 Radial†	73894.8	73325.7	4970.1 µg/L	4970.1 ppb	14:55:52
1	K 766.490 Radial†	13964.5	12333.0	4987.2 µg/L	4987.2 ppb	14:55:52
1	Mg 279.077 IEC†	12725.8	12468.6	5149.9 µg/L	5149.9 ppb	14:55:52
1	Na 589.592 Radial†	67790.8	66075.2	9916.4 µg/L	9916.4 ppb	14:55:52
1	Sr 421.552†	218196.7	217198.4	488.47 µg/L	488.47 ppb	14:55:50
1	Sc 361.383	1754745.2	1754745.2	100.24 %		14:56:20
1	Y 371.029	1043486.0	1043486.0	98.967 %		14:56:20
1	Ag 328.068†	127032.4	122985.5	503.05 µg/L	503.05 ppb	14:56:20
1	As 188.979†	1488.9	1502.5	510.47 µg/L	510.47 ppb	14:56:40
1	B 249.677†	33924.1	30560.6	498.49 µg/L	498.49 ppb	14:56:20
1	Ba 233.527†	113716.2	113600.3	501.55 µg/L	501.55 ppb	14:56:20
1	Be 313.107†	1684182.2	1681023.1	500.67 µg/L	500.67 ppb	14:56:20
1	Cd 226.502†	72229.7	72160.2	505.21 µg/L	505.21 ppb	14:56:20
1	Co 228.616†	36764.1	36843.9	504.92 µg/L	504.92 ppb	14:56:20
1	Cr 267.716†	58494.5	58193.9	501.00 µg/L	501.00 ppb	14:56:20
1	Cu 324.752†	120597.2	117470.2	500.68 µg/L	500.68 ppb	14:56:20
1	Mn 257.610†	372455.7	371354.1	501.64 µg/L	501.64 ppb	14:56:20
1	Mo 202.031†	15571.6	15553.9	501.62 µg/L	501.62 ppb	14:56:40
1	Ni 231.604†	39599.1	39587.2	506.79 µg/L	506.79 ppb	14:56:20
1	P 214.914†	10491.0	10479.7	2505.6 µg/L	2505.6 ppb	14:56:40
1	Pb 220.353†	8251.9	8157.5	506.84 µg/L	506.84 ppb	14:56:40
1	S 181.975 Axial†	1344.8	1237.4	1038.5 µg/L	1038.5 ppb	14:56:40
1	Sb 206.836†	3898.7	3816.2	501.02 µg/L	501.02 ppb	14:56:40
1	Se 196.026†	1260.0	1244.4	506 µg/L	506 ppb	14:56:40
1	SiO2†	52531.0	50696.9	5443.8 µg/L	5443.8 ppb	14:56:20
1	Si 251.611†	158206.2	156942.8	2543.4 µg/L	2543.4 ppb	14:56:20
1	Sn 189.927†	7257.8	7240.8	503.10 µg/L	503.10 ppb	14:56:40
1	Ti 334.940†	494996.4	493060.4	498.18 µg/L	498.18 ppb	14:56:20
1	Tl 190.801†	3602.8	3707.4	510.60 µg/L	510.60 ppb	14:56:40
1	U 409.014†	7213.8	7412.2	502.12 µg/L	502.12 ppb	14:56:20
1	V 292.402†	93589.3	93051.8	505.00 µg/L	505.00 ppb	14:56:20
1	Zn 213.857†	81410.7	80687.1	500.53 µg/L	500.53 ppb	14:56:20
2	Sc RADIAL	148134.6	148134.6	100 %		14:55:56
2	Al 396.153Radial†	24777.2	24830.2	4928.6 µg/L	4928.6 ppb	14:55:56
2	Ca 317.933Radial†	82974.6	82339.7	5035.3 µg/L	5035.3 ppb	14:55:56
2	Fe 238.204 Radial†	73691.7	73530.3	4983.9 µg/L	4983.9 ppb	14:55:56
2	K 766.490 Radial†	13841.6	12287.2	4968.7 µg/L	4968.7 ppb	14:55:56
2	Mg 279.077 IEC†	12638.9	12452.0	5143.0 µg/L	5143.0 ppb	14:55:56
2	Na 589.592 Radial†	67789.8	66448.2	9972.4 µg/L	9972.4 ppb	14:55:56
2	Sr 421.552†	219825.6	220030.3	494.84 µg/L	494.84 ppb	14:55:54
2	Sc 361.383	1758390.2	1758390.2	100.45 %		14:56:43
2	Y 371.029	1045739.3	1045739.3	99.180 %		14:56:43
2	Ag 328.068†	126921.6	122612.6	501.52 µg/L	501.52 ppb	14:56:43
2	As 188.979†	1489.4	1499.9	509.61 µg/L	509.61 ppb	14:57:03
2	B 249.677†	33993.9	30559.9	498.49 µg/L	498.49 ppb	14:56:43
2	Ba 233.527†	113590.8	113240.3	499.96 µg/L	499.96 ppb	14:56:43
2	Be 313.107†	1684921.5	1678276.2	499.84 µg/L	499.84 ppb	14:56:43
2	Cd 226.502†	72291.7	72072.5	504.59 µg/L	504.59 ppb	14:56:43
2	Co 228.616†	36736.1	36740.0	503.50 µg/L	503.50 ppb	14:56:43
2	Cr 267.716†	58564.6	58142.7	500.57 µg/L	500.57 ppb	14:56:43
2	Cu 324.752†	120238.8	116864.0	498.09 µg/L	498.09 ppb	14:56:43
2	Mn 257.610†	372078.1	370208.0	500.09 µg/L	500.09 ppb	14:56:43
2	Mo 202.031†	15638.3	15588.2	502.72 µg/L	502.72 ppb	14:57:03
2	Ni 231.604†	39415.1	39322.2	503.40 µg/L	503.40 ppb	14:56:43
2	P 214.914†	10571.8	10538.4	2519.7 µg/L	2519.7 ppb	14:57:03
2	Pb 220.353†	8296.5	8184.8	508.55 µg/L	508.55 ppb	14:57:03

2	S 181.975 Axial†	1364.9	1254.6	1052.9 µg/L	1052.9 ppb	14:57:03
2	Sb 206.836†	3930.2	3839.6	504.10 µg/L	504.10 ppb	14:57:03
2	Se 196.026†	1265.0	1246.8	507 µg/L	507 ppb	14:57:03
2	SiO2†	52319.9	50378.1	5409.4 µg/L	5409.4 ppb	14:56:43
2	Si 251.611†	157841.8	156252.8	2532.1 µg/L	2532.1 ppb	14:56:43
2	Sn 189.927†	7297.1	7264.9	504.76 µg/L	504.76 ppb	14:57:03
2	Ti 334.940†	494522.1	491564.6	496.68 µg/L	496.68 ppb	14:56:43
2	Tl 190.801†	3625.4	3722.5	512.63 µg/L	512.63 ppb	14:57:03
2	U 409.014†	6899.0	7083.9	481.23 µg/L	481.23 ppb	14:56:43
2	V 292.402†	93799.5	93067.5	505.08 µg/L	505.08 ppb	14:56:43
2	Zn 213.857†	81249.4	80358.1	498.49 µg/L	498.49 ppb	14:56:43
3	Sc RADIAL	146623.9	146623.9	99.0 %		14:56:00
3	Al 396.153Radial†	24819.4	25128.0	4988.0 µg/L	4988.0 ppb	14:56:00
3	Ca 317.933Radial†	82667.5	82884.2	5068.6 µg/L	5068.6 ppb	14:56:00
3	Fe 238.204 Radial†	73659.8	74257.1	5033.2 µg/L	5033.2 ppb	14:56:00
3	K 766.490 Radial†	13726.0	12313.0	4979.0 µg/L	4979.0 ppb	14:56:00
3	Mg 279.077 IEC†	12544.9	12487.2	5157.5 µg/L	5157.5 ppb	14:56:00
3	Na 589.592 Radial†	67517.1	66871.1	10036 µg/L	10036 ppb	14:56:00
3	Sr 421.552†	220782.2	223260.8	502.10 µg/L	502.10 ppb	14:55:58
3	Sc 361.383	1772976.0	1772976.0	101.28 %		14:57:06
3	Y 371.029	1054401.5	1054401.5	100.00 %		14:57:06
3	Ag 328.068†	128078.9	122715.7	501.95 µg/L	501.95 ppb	14:57:06
3	As 188.979†	1502.1	1500.2	509.73 µg/L	509.73 ppb	14:57:26
3	B 249.677†	34334.6	30617.9	499.43 µg/L	499.43 ppb	14:57:06
3	Ba 233.527†	114804.2	113508.0	501.14 µg/L	501.14 ppb	14:57:06
3	Be 313.107†	1703935.9	1683250.6	501.33 µg/L	501.33 ppb	14:57:06
3	Cd 226.502†	73309.1	72484.9	507.47 µg/L	507.47 ppb	14:57:06
3	Co 228.616†	37244.6	36941.2	506.25 µg/L	506.25 ppb	14:57:06
3	Cr 267.716†	59125.6	58217.0	501.20 µg/L	501.20 ppb	14:57:06
3	Cu 324.752†	121545.4	117169.3	499.41 µg/L	499.41 ppb	14:57:06
3	Mn 257.610†	375860.0	370894.7	501.02 µg/L	501.02 ppb	14:57:06
3	Mo 202.031†	15736.1	15556.7	501.71 µg/L	501.71 ppb	14:57:26
3	Ni 231.604†	39628.2	39209.8	501.96 µg/L	501.96 ppb	14:57:06
3	P 214.914†	10666.7	10545.6	2521.4 µg/L	2521.4 ppb	14:57:26
3	Pb 220.353†	8390.9	8210.1	510.10 µg/L	510.10 ppb	14:57:26
3	S 181.975 Axial†	1379.5	1257.9	1055.6 µg/L	1055.6 ppb	14:57:26
3	Sb 206.836†	3964.5	3841.2	504.28 µg/L	504.28 ppb	14:57:26
3	Se 196.026†	1281.0	1252.2	510 µg/L	510 ppb	14:57:26
3	SiO2†	52980.8	50602.1	5433.6 µg/L	5433.6 ppb	14:57:06
3	Si 251.611†	159531.3	156628.2	2538.2 µg/L	2538.2 ppb	14:57:06
3	Sn 189.927†	7355.2	7262.5	504.60 µg/L	504.60 ppb	14:57:26
3	Ti 334.940†	499030.5	491965.8	497.08 µg/L	497.08 ppb	14:57:06
3	Tl 190.801†	3660.6	3727.5	513.31 µg/L	513.31 ppb	14:57:26
3	U 409.014†	7292.9	7416.4	502.34 µg/L	502.34 ppb	14:57:06
3	V 292.402†	94461.7	92953.2	504.47 µg/L	504.47 ppb	14:57:06
3	Zn 213.857†	82442.3	80870.5	501.70 µg/L	501.70 ppb	14:57:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1762037.1	100.65 %	0.551			0.55%
Sc RADIAL	147905.0	99.9 %	0.80			0.80%
Y 371.029	1047875.6	99.383 %	0.5466			0.55%
Ag 328.068†	122771.3	502.18 µg/L	0.789	502.18 ppb	0.789	0.16%
QC value within limits for Ag 328.068 Recovery = 100.44%						
Al 396.153Radial†	24966.6	4955.8 µg/L	30.04	4955.8 ppb	30.04	0.61%
QC value within limits for Al 396.153Radial Recovery = 99.12%						
As 188.979†	1500.8	509.94 µg/L	0.467	509.94 ppb	0.467	0.09%
QC value within limits for As 188.979 Recovery = 101.99%						
B 249.677†	30579.5	498.80 µg/L	0.541	498.80 ppb	0.541	0.11%
QC value within limits for B 249.677 Recovery = 99.76%						
Ba 233.527†	113449.5	500.88 µg/L	0.825	500.88 ppb	0.825	0.16%
QC value within limits for Ba 233.527 Recovery = 100.18%						
Be 313.107†	1680849.9	500.61 µg/L	0.745	500.61 ppb	0.745	0.15%
QC value within limits for Be 313.107 Recovery = 100.12%						
Ca 317.933Radial†	82389.2	5038.3 µg/L	28.88	5038.3 ppb	28.88	0.57%
QC value within limits for Ca 317.933Radial Recovery = 100.77%						
Cd 226.502†	72239.2	505.76 µg/L	1.518	505.76 ppb	1.518	0.30%
QC value within limits for Cd 226.502 Recovery = 101.15%						
Co 228.616†	36841.7	504.89 µg/L	1.378	504.89 ppb	1.378	0.27%

QC value within limits for Co 228.616 Recovery = 100.98%							
Cr 267.716†	58184.5	500.92 µg/L	0.319	500.92 ppb	0.319	0.06%	
QC value within limits for Cr 267.716 Recovery = 100.18%							
Cu 324.752†	117167.8	499.39 µg/L	1.296	499.39 ppb	1.296	0.26%	
QC value within limits for Cu 324.752 Recovery = 99.88%							
Fe 238.204 Radial†	73704.4	4995.7 µg/L	33.18	4995.7 ppb	33.18	0.66%	
QC value within limits for Fe 238.204 Radial Recovery = 99.91%							
K 766.490 Radial†	12311.1	4978.3 µg/L	9.30	4978.3 ppb	9.30	0.19%	
QC value within limits for K 766.490 Radial Recovery = 99.57%							
Mg 279.077 IEC†	12469.3	5150.1 µg/L	7.23	5150.1 ppb	7.23	0.14%	
QC value within limits for Mg 279.077 IEC Recovery = 103.00%							
Mn 257.610†	370819.0	500.92 µg/L	0.779	500.92 ppb	0.779	0.16%	
QC value within limits for Mn 257.610 Recovery = 100.18%							
Mo 202.031†	15566.2	502.02 µg/L	0.613	502.02 ppb	0.613	0.12%	
QC value within limits for Mo 202.031 Recovery = 100.40%							
Na 589.592 Radial†	66464.8	9974.9 µg/L	59.79	9974.9 ppb	59.79	0.60%	
QC value within limits for Na 589.592 Radial Recovery = 99.75%							
Ni 231.604†	39373.1	504.05 µg/L	2.481	504.05 ppb	2.481	0.49%	
QC value within limits for Ni 231.604 Recovery = 100.81%							
P 214.914†	10521.2	2515.6 µg/L	8.68	2515.6 ppb	8.68	0.34%	
QC value within limits for P 214.914 Recovery = 100.62%							
Pb 220.353†	8184.1	508.50 µg/L	1.629	508.50 ppb	1.629	0.32%	
QC value within limits for Pb 220.353 Recovery = 101.70%							
S 181.975 Axial†	1250.0	1049.0 µg/L	9.19	1049.0 ppb	9.19	0.88%	
QC value within limits for S 181.975 Axial Recovery = 104.90%							
Sb 206.836†	3832.3	503.13 µg/L	1.834	503.13 ppb	1.834	0.36%	
QC value within limits for Sb 206.836 Recovery = 100.63%							
Se 196.026†	1247.8	508 µg/L	1.6	508 ppb	1.6	0.32%	
QC value within limits for Se 196.026 Recovery = 101.55%							
SiO2†	50559.0	5428.9 µg/L	17.68	5428.9 ppb	17.68	0.33%	
QC value within limits for SiO2 Recovery = 101.52%							
Si 251.611†	156607.9	2537.9 µg/L	5.63	2537.9 ppb	5.63	0.22%	
QC value within limits for Si 251.611 Recovery = 101.52%							
Sn 189.927†	7256.1	504.15 µg/L	0.917	504.15 ppb	0.917	0.18%	
QC value within limits for Sn 189.927 Recovery = 100.83%							
Sr 421.552†	220163.2	495.14 µg/L	6.822	495.14 ppb	6.822	1.38%	
QC value within limits for Sr 421.552 Recovery = 99.03%							
Ti 334.940†	492196.9	497.31 µg/L	0.779	497.31 ppb	0.779	0.16%	
QC value within limits for Ti 334.940 Recovery = 99.46%							
Tl 190.801†	3719.1	512.18 µg/L	1.408	512.18 ppb	1.408	0.27%	
QC value within limits for Tl 190.801 Recovery = 102.44%							
U 409.014†	7304.2	495.23 µg/L	12.130	495.23 ppb	12.130	2.45%	
QC value within limits for U 409.014 Recovery = 99.05%							
V 292.402†	93024.2	504.85 µg/L	0.332	504.85 ppb	0.332	0.07%	
QC value within limits for V 292.402 Recovery = 100.97%							
Zn 213.857†	80638.6	500.24 µg/L	1.623	500.24 ppb	1.623	0.32%	
QC value within limits for Zn 213.857 Recovery = 100.05%							
All analyte(s) passed QC.							

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 14:57:35

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	147457.4	147457.4	99.6 %		14:58:04
1	Al 396.153Radial†	-54.6	6.4	1.3002 µg/L	1.3002 ppb	14:58:24
1	Ca 317.933Radial†	654.3	49.9	3.0522 µg/L	3.0522 ppb	14:58:24
1	Fe 238.204 Radial†	142.1	5.8	0.3951 µg/L	0.3951 ppb	14:58:24
1	K 766.490 Radial†	1668.4	125.7	50.861 µg/L	50.861 ppb	14:58:04
1	Mg 279.077 IEC†	170.6	-11.4	-4.7047 µg/L	-4.7047 ppb	14:58:24
1	Na 589.592 Radial†	1455.8	142.9	21.416 µg/L	21.416 ppb	14:58:04
1	Sr 421.552†	-307.6	-30.9	-0.0694 µg/L	-0.0694 ppb	14:58:04
1	Sc 361.383	1741933.9	1741933.9	99.506 %		14:59:26
1	Y 371.029	1047764.2	1047764.2	99.372 %		14:59:26
1	Ag 328.068†	3742.5	16.2	0.0498 µg/L	0.0498 ppb	14:59:28
1	As 188.979†	-9.9	7.1	2.3881 µg/L	2.3881 ppb	14:59:48
1	B 249.677†	3324.7	58.4	0.9553 µg/L	0.9553 ppb	14:59:48
1	Ba 233.527†	-131.5	22.3	0.0986 µg/L	0.0986 ppb	14:59:48
1	Be 313.107†	-543.0	299.0	0.0836 µg/L	0.0836 ppb	14:59:28
1	Cd 226.502†	-112.9	-11.3	-0.0792 µg/L	-0.0792 ppb	14:59:48
1	Co 228.616†	-164.1	2.3	0.0315 µg/L	0.0315 ppb	14:59:48
1	Cr 267.716†	185.1	24.5	0.2253 µg/L	0.2253 ppb	14:59:48
1	Cu 324.752†	2891.6	65.7	0.2642 µg/L	0.2642 ppb	14:59:28
1	Mn 257.610†	287.3	72.6	0.0983 µg/L	0.0983 ppb	14:59:48
1	Mo 202.031†	-31.7	-12.5	-0.4015 µg/L	-0.4015 ppb	14:59:48
1	Ni 231.604†	-72.5	9.4	0.1206 µg/L	0.1206 ppb	14:59:48
1	P 214.914†	-23.9	-10.4	-2.4880 µg/L	-2.4880 ppb	14:59:48
1	Pb 220.353†	88.8	14.4	0.9046 µg/L	0.9046 ppb	14:59:48
1	S 181.975 Axial†	125.9	22.4	18.708 µg/L	18.708 ppb	14:59:48
1	Sb 206.836†	88.2	15.4	2.0077 µg/L	2.0077 ppb	14:59:48
1	Se 196.026†	15.6	3.1	1.23 µg/L	1.23 ppb	14:59:48
1	SiO2†	1696.6	-4.2	-0.4556 µg/L	-0.4556 ppb	14:59:48
1	Si 251.611†	873.3	-9.7	-0.1574 µg/L	-0.1574 ppb	14:59:28
1	Sn 189.927†	11.9	12.2	0.8460 µg/L	0.8460 ppb	14:59:48
1	Ti 334.940†	962.8	208.3	0.2185 µg/L	0.2185 ppb	14:59:28
1	Tl 190.801†	-116.6	-4.0	-0.5392 µg/L	-0.5392 ppb	14:59:48
1	U 409.014†	-494.6	-281.4	-17.878 µg/L	-17.878 ppb	14:59:28
1	V 292.402†	411.6	98.7	0.5128 µg/L	0.5128 ppb	14:59:28
1	Zn 213.857†	594.5	67.4	0.4203 µg/L	0.4203 ppb	14:59:48
2	Sc RADIAL	146805.5	146805.5	99.1 %		14:58:26
2	Al 396.153Radial†	-43.0	17.9	3.5778 µg/L	3.5778 ppb	14:58:46
2	Ca 317.933Radial†	628.5	26.8	1.6370 µg/L	1.6370 ppb	14:58:46
2	Fe 238.204 Radial†	135.1	-0.6	-0.0403 µg/L	-0.0403 ppb	14:58:46
2	K 766.490 Radial†	1555.9	19.6	7.9375 µg/L	7.9375 ppb	14:58:26
2	Mg 279.077 IEC†	183.8	2.6	1.0857 µg/L	1.0857 ppb	14:58:46
2	Na 589.592 Radial†	1489.2	183.2	27.501 µg/L	27.501 ppb	14:58:26
2	Sr 421.552†	-181.7	94.8	0.2133 µg/L	0.2133 ppb	14:58:26
2	Sc 361.383	1752775.4	1752775.4	100.13 %		14:59:50
2	Y 371.029	1053392.0	1053392.0	99.906 %		14:59:50
2	Ag 328.068†	3686.3	-63.2	-0.2575 µg/L	-0.2575 ppb	14:59:52
2	As 188.979†	-19.7	-2.6	-0.8669 µg/L	-0.8669 ppb	15:00:13
2	B 249.677†	3316.2	29.2	0.4789 µg/L	0.4789 ppb	15:00:13
2	Ba 233.527†	-145.8	8.8	0.0387 µg/L	0.0387 ppb	15:00:13
2	Be 313.107†	-808.1	37.6	0.0112 µg/L	0.0112 ppb	14:59:52
2	Cd 226.502†	-116.9	-14.6	-0.1022 µg/L	-0.1022 ppb	15:00:13
2	Co 228.616†	-178.0	-10.6	-0.1447 µg/L	-0.1447 ppb	15:00:13
2	Cr 267.716†	164.3	2.5	0.0211 µg/L	0.0211 ppb	15:00:13
2	Cu 324.752†	2743.0	-100.7	-0.4280 µg/L	-0.4280 ppb	14:59:52
2	Mn 257.610†	283.9	67.5	0.0911 µg/L	0.0911 ppb	15:00:13
2	Mo 202.031†	-23.9	-4.5	-0.1460 µg/L	-0.1460 ppb	15:00:13
2	Ni 231.604†	-92.7	-10.3	-0.1316 µg/L	-0.1316 ppb	15:00:13
2	P 214.914†	-18.5	-4.9	-1.1639 µg/L	-1.1639 ppb	15:00:13
2	Pb 220.353†	79.4	4.5	0.2772 µg/L	0.2772 ppb	15:00:13

2	S 181.975 Axial†	130.0	25.7	21.473 µg/L	21.473 ppb	15:00:13
2	Sb 206.836†	76.2	2.9	0.3732 µg/L	0.3732 ppb	15:00:13
2	Se 196.026†	27.1	14.5	5.86 µg/L	5.86 ppb	15:00:13
2	SiO2†	1727.6	16.2	1.7413 µg/L	1.7413 ppb	15:00:13
2	Si 251.611†	895.7	7.2	0.1144 µg/L	0.1144 ppb	14:59:52
2	Sn 189.927†	11.0	11.3	0.7822 µg/L	0.7822 ppb	15:00:13
2	Ti 334.940†	832.1	71.8	0.0725 µg/L	0.0725 ppb	14:59:52
2	Tl 190.801†	-117.9	-4.6	-0.6175 µg/L	-0.6175 ppb	15:00:13
2	U 409.014†	-213.5	2.4	0.1402 µg/L	0.1402 ppb	14:59:52
2	V 292.402†	276.7	-38.6	-0.2083 µg/L	-0.2083 ppb	14:59:52
2	Zn 213.857†	559.5	28.8	0.1812 µg/L	0.1812 ppb	15:00:13
3	Sc RADIAL	144722.7	144722.7	97.7 %		14:58:48
3	Al 396.153Radial†	-42.0	18.3	3.6527 µg/L	3.6527 ppb	14:59:08
3	Ca 317.933Radial†	628.9	36.3	2.2198 µg/L	2.2198 ppb	14:59:08
3	Fe 238.204 Radial†	148.0	14.6	0.9877 µg/L	0.9877 ppb	14:59:08
3	K 766.490 Radial†	1559.9	46.4	18.769 µg/L	18.769 ppb	14:58:48
3	Mg 279.077 IEC†	185.0	6.5	2.6931 µg/L	2.6931 ppb	14:59:08
3	Na 589.592 Radial†	1392.8	106.2	15.926 µg/L	15.926 ppb	14:58:48
3	Sr 421.552†	-205.0	68.3	0.1536 µg/L	0.1536 ppb	14:58:48
3	Sc 361.383	1746197.0	1746197.0	99.750 %		15:00:15
3	Y 371.029	1049574.6	1049574.6	99.544 %		15:00:15
3	Ag 328.068†	3568.4	-167.5	-0.6913 µg/L	-0.6913 ppb	15:00:17
3	As 188.979†	-20.1	-3.1	-1.0260 µg/L	-1.0260 ppb	15:00:37
3	B 249.677†	3316.9	42.4	0.6944 µg/L	0.6944 ppb	15:00:37
3	Ba 233.527†	-130.4	23.8	0.1047 µg/L	0.1047 ppb	15:00:37
3	Be 313.107†	-670.3	172.7	0.0484 µg/L	0.0484 ppb	15:00:17
3	Cd 226.502†	-77.3	24.6	0.1726 µg/L	0.1726 ppb	15:00:37
3	Co 228.616†	-182.4	-15.7	-0.2148 µg/L	-0.2148 ppb	15:00:37
3	Cr 267.716†	191.6	30.6	0.2708 µg/L	0.2708 ppb	15:00:37
3	Cu 324.752†	2978.9	146.1	0.6127 µg/L	0.6127 ppb	15:00:17
3	Mn 257.610†	387.8	172.7	0.2332 µg/L	0.2332 ppb	15:00:37
3	Mo 202.031†	-21.0	-1.7	-0.0546 µg/L	-0.0546 ppb	15:00:37
3	Ni 231.604†	-63.2	19.0	0.2427 µg/L	0.2427 ppb	15:00:37
3	P 214.914†	-10.3	3.3	0.7939 µg/L	0.7939 ppb	15:00:37
3	Pb 220.353†	96.0	21.4	1.3350 µg/L	1.3350 ppb	15:00:37
3	S 181.975 Axial†	134.2	30.3	25.358 µg/L	25.358 ppb	15:00:37
3	Sb 206.836†	77.9	4.9	0.6401 µg/L	0.6401 ppb	15:00:37
3	Se 196.026†	16.9	4.3	1.74 µg/L	1.74 ppb	15:00:37
3	SiO2†	1694.6	-10.4	-1.1195 µg/L	-1.1195 ppb	15:00:37
3	Si 251.611†	899.1	14.0	0.2275 µg/L	0.2275 ppb	15:00:17
3	Sn 189.927†	1.7	2.0	0.1381 µg/L	0.1381 ppb	15:00:37
3	Ti 334.940†	982.6	225.8	0.2323 µg/L	0.2323 ppb	15:00:17
3	Tl 190.801†	-112.9	0.1	0.0096 µg/L	0.0096 ppb	15:00:37
3	U 409.014†	-370.3	-155.7	-9.9161 µg/L	-9.9161 ppb	15:00:17
3	V 292.402†	277.2	-37.1	-0.2051 µg/L	-0.2051 ppb	15:00:17
3	Zn 213.857†	578.2	49.6	0.3079 µg/L	0.3079 ppb	15:00:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1746968.8	99.794 %	0.3120			0.31%
Sc RADIAL	146328.5	98.8 %	0.96			0.98%
Y 371.029	1050243.6	99.608 %	0.2725			0.27%
Ag 328.068†	-71.5	-0.2997 µg/L	0.37231	-0.2997 ppb	0.37231	124.25%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.2	2.8435 µg/L	1.33711	2.8435 ppb	1.33711	47.02%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.5	0.1651 µg/L	1.92687	0.1651 ppb	1.92687	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	43.3	0.7095 µg/L	0.23854	0.7095 ppb	0.23854	33.62%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	18.3	0.0807 µg/L	0.03646	0.0807 ppb	0.03646	45.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	169.8	0.0478 µg/L	0.03620	0.0478 ppb	0.03620	75.79%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	37.7	2.3030 µg/L	0.71126	2.3030 ppb	0.71126	30.88%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-0.4	-0.0029 µg/L	0.15245	-0.0029 ppb	0.15245	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-8.0	-0.1093 µg/L	0.12687	-0.1093 ppb	0.12687	116.04%

Cr	267.716†	QC value within limits for Co 228.616 Recovery = Not calculated	19.2	0.1724 µg/L	0.13295	0.1724 ppb	0.13295	77.11%
Cu	324.752†	QC value within limits for Cr 267.716 Recovery = Not calculated	37.0	0.1496 µg/L	0.52974	0.1496 ppb	0.52974	354.04%
Fe	238.204 Radial†	QC value within limits for Cu 324.752 Recovery = Not calculated	6.6	0.4475 µg/L	0.51600	0.4475 ppb	0.51600	115.31%
K	766.490 Radial†	QC value within limits for Fe 238.204 Radial Recovery = Not calculated	63.9	25.856 µg/L	22.3220	25.856 ppb	22.3220	86.33%
Mg	279.077 IEC†	QC value within limits for K 766.490 Radial Recovery = Not calculated	-0.7	-0.3087 µg/L	3.89102	-0.3087 ppb	3.89102	>999.9%
Mn	257.610†	QC value within limits for Mg 279.077 IEC Recovery = Not calculated	104.2	0.1409 µg/L	0.08005	0.1409 ppb	0.08005	56.82%
Mo	202.031†	QC value within limits for Mn 257.610 Recovery = Not calculated	-6.2	-0.2007 µg/L	0.17980	-0.2007 ppb	0.17980	89.58%
Na	589.592 Radial†	QC value within limits for Mo 202.031 Recovery = Not calculated	144.1	21.614 µg/L	5.7900	21.614 ppb	5.7900	26.79%
Ni	231.604†	QC value within limits for Na 589.592 Radial Recovery = Not calculated	6.0	0.0772 µg/L	0.19084	0.0772 ppb	0.19084	247.15%
P	214.914†	QC value within limits for Ni 231.604 Recovery = Not calculated	-4.0	-0.9527 µg/L	1.65115	-0.9527 ppb	1.65115	173.32%
Pb	220.353†	QC value within limits for P 214.914 Recovery = Not calculated	13.4	0.8389 µg/L	0.53199	0.8389 ppb	0.53199	63.41%
S	181.975 Axial†	QC value within limits for Pb 220.353 Recovery = Not calculated	26.1	21.847 µg/L	3.3407	21.847 ppb	3.3407	15.29%
Sb	206.836†	QC value within limits for S 181.975 Axial Recovery = Not calculated	7.7	1.0070 µg/L	0.87684	1.0070 ppb	0.87684	87.07%
Se	196.026†	QC value within limits for Sb 206.836 Recovery = Not calculated	7.3	2.94 µg/L	2.542	2.94 ppb	2.542	86.30%
SiO2†		QC value within limits for Se 196.026 Recovery = Not calculated	0.5	0.0554 µg/L	1.49728	0.0554 ppb	1.49728	>999.9%
Si	251.611†	QC value within limits for SiO2 Recovery = Not calculated	3.9	0.0615 µg/L	0.19785	0.0615 ppb	0.19785	321.70%
Sn	189.927†	QC value within limits for Si 251.611 Recovery = Not calculated	8.5	0.5888 µg/L	0.39158	0.5888 ppb	0.39158	66.51%
Sr	421.552†	QC value within limits for Sn 189.927 Recovery = Not calculated	44.1	0.0992 µg/L	0.14902	0.0992 ppb	0.14902	150.25%
Ti	334.940†	QC value within limits for Sr 421.552 Recovery = Not calculated	168.6	0.1744 µg/L	0.08852	0.1744 ppb	0.08852	50.75%
Tl	190.801†	QC value within limits for Ti 334.940 Recovery = Not calculated	-2.8	-0.3823 µg/L	0.34172	-0.3823 ppb	0.34172	89.37%
U	409.014†	QC value within limits for Tl 190.801 Recovery = Not calculated	-144.9	-9.2178 µg/L	9.02920	-9.2178 ppb	9.02920	97.95%
V	292.402†	QC value within limits for U 409.014 Recovery = Not calculated	7.6	0.0332 µg/L	0.41542	0.0332 ppb	0.41542	>999.9%
Zn	213.857†	QC value within limits for V 292.402 Recovery = Not calculated	48.6	0.3031 µg/L	0.11960	0.3031 ppb	0.11960	39.46%
		QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 18

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 15:17:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149152.4	149152.4	101 %		15:17:55
1	Al 396.153Radial†	25322.1	25202.1	5003.1 µg/L	5003.1 ppb	15:17:55
1	Ca 317.933Radial†	83719.3	82513.1	5045.9 µg/L	5045.9 ppb	15:17:55
1	Fe 238.204 Radial†	74626.6	73955.8	5012.8 µg/L	5012.8 ppb	15:17:55
1	K 766.490 Radial†	14213.3	12561.8	5079.8 µg/L	5079.8 ppb	15:17:55
1	Mg 279.077 IEC†	12644.3	12371.1	5109.4 µg/L	5109.4 ppb	15:17:55
1	Na 589.592 Radial†	68269.2	66461.7	9974.4 µg/L	9974.4 ppb	15:17:55
1	Sr 421.552†	223475.6	222154.8	499.61 µg/L	499.61 ppb	15:17:53
1	Sc 361.383	1764213.6	1764213.6	100.78 %		15:18:08
1	Y 371.029	1049703.4	1049703.4	99.556 %		15:18:08
1	Ag 328.068†	127285.7	122556.7	501.32 µg/L	501.32 ppb	15:18:08
1	As 188.979†	1460.7	1466.5	498.42 µg/L	498.42 ppb	15:18:28
1	B 249.677†	33861.7	30317.0	494.50 µg/L	494.50 ppb	15:18:08
1	Ba 233.527†	114185.6	113457.2	500.91 µg/L	500.91 ppb	15:18:08
1	Be 313.107†	1688423.0	1676213.7	499.24 µg/L	499.24 ppb	15:18:08
1	Cd 226.502†	72521.7	72063.1	504.52 µg/L	504.52 ppb	15:18:08
1	Co 228.616†	37015.7	36896.6	505.64 µg/L	505.64 ppb	15:18:08
1	Cr 267.716†	58668.9	58053.7	499.79 µg/L	499.79 ppb	15:18:08
1	Cu 324.752†	121201.9	117424.5	500.49 µg/L	500.49 ppb	15:18:08
1	Mn 257.610†	374155.9	371047.0	501.23 µg/L	501.23 ppb	15:18:08
1	Mo 202.031†	15441.2	15341.2	494.77 µg/L	494.77 ppb	15:18:28
1	Ni 231.604†	39491.4	39268.3	502.71 µg/L	502.71 ppb	15:18:08
1	P 214.914†	10382.3	10315.7	2466.3 µg/L	2466.3 ppb	15:18:28
1	Pb 220.353†	8152.8	8014.9	497.99 µg/L	497.99 ppb	15:18:28
1	S 181.975 Axial†	1306.9	1192.6	1001.0 µg/L	1001.0 ppb	15:18:28
1	Sb 206.836†	3864.2	3761.1	493.70 µg/L	493.70 ppb	15:18:28
1	Se 196.026†	1241.3	1219.1	496 µg/L	496 ppb	15:18:28
1	SiO2†	52743.4	50626.4	5436.5 µg/L	5436.5 ppb	15:18:08
1	Si 251.611†	158865.6	156750.0	2540.4 µg/L	2540.4 ppb	15:18:08
1	Sn 189.927†	7177.1	7121.9	494.86 µg/L	494.86 ppb	15:18:28
1	Ti 334.940†	496787.6	492187.4	497.30 µg/L	497.30 ppb	15:18:08
1	Tl 190.801†	3580.5	3666.1	504.97 µg/L	504.97 ppb	15:18:28
1	U 409.014†	7356.3	7515.0	508.62 µg/L	508.62 ppb	15:18:08
1	V 292.402†	93991.2	92949.5	504.38 µg/L	504.38 ppb	15:18:08
1	Zn 213.857†	81735.0	80573.0	499.83 µg/L	499.83 ppb	15:18:08
2	Sc RADIAL	147749.6	147749.6	99.8 %		15:17:59
2	Al 396.153Radial†	25252.2	25370.8	5036.5 µg/L	5036.5 ppb	15:17:59
2	Ca 317.933Radial†	83296.8	82878.8	5068.3 µg/L	5068.3 ppb	15:17:59
2	Fe 238.204 Radial†	74201.0	74232.6	5031.5 µg/L	5031.5 ppb	15:17:59
2	K 766.490 Radial†	13965.1	12447.0	5033.3 µg/L	5033.3 ppb	15:17:59
2	Mg 279.077 IEC†	12708.7	12554.8	5185.3 µg/L	5185.3 ppb	15:17:59
2	Na 589.592 Radial†	68058.0	66893.6	10039 µg/L	10039 ppb	15:17:59
2	Sr 421.552†	221523.5	222304.8	499.95 µg/L	499.95 ppb	15:17:57
2	Sc 361.383	1750518.4	1750518.4	99.997 %		15:18:31
2	Y 371.029	1041575.3	1041575.3	98.785 %		15:18:31
2	Ag 328.068†	127150.0	123409.1	504.79 µg/L	504.79 ppb	15:18:31
2	As 188.979†	1460.4	1477.6	502.16 µg/L	502.16 ppb	15:18:51
2	B 249.677†	33757.7	30475.9	497.11 µg/L	497.11 ppb	15:18:31
2	Ba 233.527†	113741.2	113899.2	502.87 µg/L	502.87 ppb	15:18:31
2	Be 313.107†	1678754.3	1679651.9	500.26 µg/L	500.26 ppb	15:18:31
2	Cd 226.502†	72049.1	72153.6	505.16 µg/L	505.16 ppb	15:18:31
2	Co 228.616†	36666.6	36834.9	504.80 µg/L	504.80 ppb	15:18:31
2	Cr 267.716†	58322.1	58162.3	500.72 µg/L	500.72 ppb	15:18:31
2	Cu 324.752†	120394.0	117557.5	501.06 µg/L	501.06 ppb	15:18:31
2	Mn 257.610†	372345.0	372140.6	502.70 µg/L	502.70 ppb	15:18:31
2	Mo 202.031†	15475.2	15495.1	499.73 µg/L	499.73 ppb	15:18:51
2	Ni 231.604†	39374.2	39457.7	505.14 µg/L	505.14 ppb	15:18:31
2	P 214.914†	10428.2	10442.1	2496.6 µg/L	2496.6 ppb	15:18:51
2	Pb 220.353†	8208.3	8133.7	505.37 µg/L	505.37 ppb	15:18:51

2	S 181.975 Axial†	1321.2	1217.1	1021.5 µg/L	1021.5 ppb	15:18:51
2	Sb 206.836†	3883.8	3810.7	500.26 µg/L	500.26 ppb	15:18:51
2	Se 196.026†	1257.4	1244.8	507 µg/L	507 ppb	15:18:51
2	SiO2†	52264.8	50557.2	5428.8 µg/L	5428.8 ppb	15:18:31
2	Si 251.611†	157872.5	156990.1	2544.2 µg/L	2544.2 ppb	15:18:31
2	Sn 189.927†	7206.2	7206.7	500.74 µg/L	500.74 ppb	15:18:51
2	Ti 334.940†	494562.6	493818.9	498.95 µg/L	498.95 ppb	15:18:31
2	Tl 190.801†	3591.5	3704.8	510.27 µg/L	510.27 ppb	15:18:51
2	U 409.014†	7293.4	7509.2	508.38 µg/L	508.38 ppb	15:18:31
2	V 292.402†	93651.4	93339.4	506.52 µg/L	506.52 ppb	15:18:31
2	Zn 213.857†	81219.3	80691.8	500.56 µg/L	500.56 ppb	15:18:31
3	Sc RADIAL	148774.6	148774.6	100 %		15:18:04
3	Al 396.153Radial†	25384.7	25328.3	5027.9 µg/L	5027.9 ppb	15:18:04
3	Ca 317.933Radial†	84078.9	83082.1	5080.7 µg/L	5080.7 ppb	15:18:04
3	Fe 238.204 Radial†	74776.3	74293.0	5035.6 µg/L	5035.6 ppb	15:18:04
3	K 766.490 Radial†	14009.6	12394.9	5012.2 µg/L	5012.2 ppb	15:18:04
3	Mg 279.077 IEC†	12807.7	12565.6	5189.8 µg/L	5189.8 ppb	15:18:04
3	Na 589.592 Radial†	68589.4	66952.6	10048 µg/L	10048 ppb	15:18:04
3	Sr 421.552†	222082.9	221332.1	497.76 µg/L	497.76 ppb	15:18:02
3	Sc 361.383	1722860.1	1722860.1	98.417 %		15:18:54
3	Y 371.029	1025202.5	1025202.5	97.233 %		15:18:54
3	Ag 328.068†	124646.5	122906.7	502.71 µg/L	502.71 ppb	15:18:54
3	As 188.979†	1444.6	1485.0	504.61 µg/L	504.61 ppb	15:19:15
3	B 249.677†	33079.7	30329.0	494.71 µg/L	494.71 ppb	15:18:54
3	Ba 233.527†	111377.2	113323.2	500.32 µg/L	500.32 ppb	15:18:54
3	Be 313.107†	1642519.0	1669784.9	497.32 µg/L	497.32 ppb	15:18:54
3	Cd 226.502†	70277.9	71510.5	500.65 µg/L	500.65 ppb	15:18:54
3	Co 228.616†	35835.8	36579.4	501.30 µg/L	501.30 ppb	15:18:54
3	Cr 267.716†	57169.8	57927.8	498.71 µg/L	498.71 ppb	15:18:54
3	Cu 324.752†	118066.2	117125.0	499.22 µg/L	499.22 ppb	15:18:54
3	Mn 257.610†	364397.6	370043.1	499.87 µg/L	499.87 ppb	15:18:54
3	Mo 202.031†	15327.9	15593.9	502.91 µg/L	502.91 ppb	15:19:15
3	Ni 231.604†	38619.3	39322.8	503.41 µg/L	503.41 ppb	15:18:54
3	P 214.914†	10308.4	10487.8	2507.6 µg/L	2507.6 ppb	15:19:15
3	Pb 220.353†	8094.6	8150.0	506.39 µg/L	506.39 ppb	15:19:15
3	S 181.975 Axial†	1302.1	1218.8	1023.0 µg/L	1023.0 ppb	15:19:15
3	Sb 206.836†	3825.8	3814.1	500.79 µg/L	500.79 ppb	15:19:15
3	Se 196.026†	1224.3	1231.4	501 µg/L	501 ppb	15:19:15
3	SiO2†	51268.9	50384.4	5410.1 µg/L	5410.1 ppb	15:18:54
3	Si 251.611†	154336.3	155931.5	2526.9 µg/L	2526.9 ppb	15:18:54
3	Sn 189.927†	7124.8	7239.7	503.02 µg/L	503.02 ppb	15:19:15
3	Ti 334.940†	485307.4	492354.7	497.47 µg/L	497.47 ppb	15:18:54
3	Tl 190.801†	3544.1	3714.3	511.54 µg/L	511.54 ppb	15:19:15
3	U 409.014†	7014.6	7343.1	497.64 µg/L	497.64 ppb	15:18:54
3	V 292.402†	91694.8	92854.8	503.94 µg/L	503.94 ppb	15:18:54
3	Zn 213.857†	79308.4	80054.0	496.58 µg/L	496.58 ppb	15:18:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745864.1	99.731 %	1.2034			1.21%
Sc RADIAL	148558.9	100 %	0.5			0.49%
Y 371.029	1038827.0	98.525 %	1.1836			1.20%
Ag 328.068†	122957.5	502.94 µg/L	1.744	502.94 ppb	1.744	0.35%
QC value within limits for Ag 328.068 Recovery = 100.59%						
Al 396.153Radial†	25300.4	5022.5 µg/L	17.34	5022.5 ppb	17.34	0.35%
QC value within limits for Al 396.153Radial Recovery = 100.45%						
As 188.979†	1476.4	501.73 µg/L	3.118	501.73 ppb	3.118	0.62%
QC value within limits for As 188.979 Recovery = 100.35%						
B 249.677†	30374.0	495.44 µg/L	1.446	495.44 ppb	1.446	0.29%
QC value within limits for B 249.677 Recovery = 99.09%						
Ba 233.527†	113559.9	501.37 µg/L	1.330	501.37 ppb	1.330	0.27%
QC value within limits for Ba 233.527 Recovery = 100.27%						
Be 313.107†	1675216.8	498.94 µg/L	1.493	498.94 ppb	1.493	0.30%
QC value within limits for Be 313.107 Recovery = 99.79%						
Ca 317.933Radial†	82824.7	5065.0 µg/L	17.63	5065.0 ppb	17.63	0.35%
QC value within limits for Ca 317.933Radial Recovery = 101.30%						
Cd 226.502†	71909.1	503.44 µg/L	2.439	503.44 ppb	2.439	0.48%
QC value within limits for Cd 226.502 Recovery = 100.69%						
Co 228.616†	36770.3	503.91 µg/L	2.304	503.91 ppb	2.304	0.46%

QC value within limits for Co 228.616 Recovery = 100.78%							
Cr 267.716†	58048.0	499.74 µg/L	1.007	499.74 ppb	1.007	0.20%	
QC value within limits for Cr 267.716 Recovery = 99.95%							
Cu 324.752†	117369.0	500.26 µg/L	0.946	500.26 ppb	0.946	0.19%	
QC value within limits for Cu 324.752 Recovery = 100.05%							
Fe 238.204 Radial†	74160.5	5026.6 µg/L	12.19	5026.6 ppb	12.19	0.24%	
QC value within limits for Fe 238.204 Radial Recovery = 100.53%							
K 766.490 Radial†	12467.9	5041.7 µg/L	34.58	5041.7 ppb	34.58	0.69%	
QC value within limits for K 766.490 Radial Recovery = 100.83%							
Mg 279.077 IEC†	12497.1	5161.5 µg/L	45.16	5161.5 ppb	45.16	0.88%	
QC value within limits for Mg 279.077 IEC Recovery = 103.23%							
Mn 257.610†	371076.9	501.27 µg/L	1.418	501.27 ppb	1.418	0.28%	
QC value within limits for Mn 257.610 Recovery = 100.25%							
Mo 202.031†	15476.7	499.14 µg/L	4.103	499.14 ppb	4.103	0.82%	
QC value within limits for Mo 202.031 Recovery = 99.83%							
Na 589.592 Radial†	66769.3	10021 µg/L	40.3	10021 ppb	40.3	0.40%	
QC value within limits for Na 589.592 Radial Recovery = 100.21%							
Ni 231.604†	39349.6	503.75 µg/L	1.248	503.75 ppb	1.248	0.25%	
QC value within limits for Ni 231.604 Recovery = 100.75%							
P 214.914†	10415.2	2490.1 µg/L	21.39	2490.1 ppb	21.39	0.86%	
QC value within limits for P 214.914 Recovery = 99.61%							
Pb 220.353†	8099.5	503.25 µg/L	4.582	503.25 ppb	4.582	0.91%	
QC value within limits for Pb 220.353 Recovery = 100.65%							
S 181.975 Axial†	1209.5	1015.2 µg/L	12.30	1015.2 ppb	12.30	1.21%	
QC value within limits for S 181.975 Axial Recovery = 101.52%							
Sb 206.836†	3795.3	498.25 µg/L	3.954	498.25 ppb	3.954	0.79%	
QC value within limits for Sb 206.836 Recovery = 99.65%							
Se 196.026†	1231.8	501 µg/L	5.2	501 ppb	5.2	1.04%	
QC value within limits for Se 196.026 Recovery = 100.26%							
SiO2†	50522.7	5425.2 µg/L	13.60	5425.2 ppb	13.60	0.25%	
QC value within limits for SiO2 Recovery = 101.45%							
Si 251.611†	156557.2	2537.2 µg/L	9.08	2537.2 ppb	9.08	0.36%	
QC value within limits for Si 251.611 Recovery = 101.49%							
Sn 189.927†	7189.4	499.54 µg/L	4.212	499.54 ppb	4.212	0.84%	
QC value within limits for Sn 189.927 Recovery = 99.91%							
Sr 421.552†	221930.5	499.11 µg/L	1.178	499.11 ppb	1.178	0.24%	
QC value within limits for Sr 421.552 Recovery = 99.82%							
Ti 334.940†	492787.0	497.91 µg/L	0.905	497.91 ppb	0.905	0.18%	
QC value within limits for Ti 334.940 Recovery = 99.58%							
Tl 190.801†	3695.1	508.93 µg/L	3.482	508.93 ppb	3.482	0.68%	
QC value within limits for Tl 190.801 Recovery = 101.79%							
U 409.014†	7455.8	504.88 µg/L	6.272	504.88 ppb	6.272	1.24%	
QC value within limits for U 409.014 Recovery = 100.98%							
V 292.402†	93047.9	504.95 µg/L	1.379	504.95 ppb	1.379	0.27%	
QC value within limits for V 292.402 Recovery = 100.99%							
Zn 213.857†	80439.6	498.99 µg/L	2.117	498.99 ppb	2.117	0.42%	
QC value within limits for Zn 213.857 Recovery = 99.80%							

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 15:19:23

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	145434.1	145434.1	98.2 %		15:19:53
1	Al 396.153Radial†	-52.0	8.3	1.6753 µg/L	1.6753 ppb	15:20:13
1	Ca 317.933Radial†	644.8	49.3	3.0146 µg/L	3.0146 ppb	15:20:13
1	Fe 238.204 Radial†	180.8	47.2	3.2015 µg/L	3.2015 ppb	15:20:13
1	K 766.490 Radial†	1673.7	154.4	62.488 µg/L	62.488 ppb	15:19:53
1	Mg 279.077 IEC†	176.8	-2.8	-1.1463 µg/L	-1.1463 ppb	15:20:13
1	Na 589.592 Radial†	1293.3	-2.1	-0.3729 µg/L	-0.3729 ppb	15:19:53
1	Sr 421.552†	-308.1	-35.6	-0.0801 µg/L	-0.0801 ppb	15:19:53
1	Sc 361.383	1732971.1	1732971.1	98.994 %		15:21:15
1	Y 371.029	1042948.2	1042948.2	98.916 %		15:21:15
1	Ag 328.068†	3699.3	-8.0	-0.0140 µg/L	-0.0140 ppb	15:21:17
1	As 188.979†	-12.6	4.4	1.4761 µg/L	1.4761 ppb	15:21:37
1	B 249.677†	3264.2	14.6	0.2390 µg/L	0.2390 ppb	15:21:37
1	Ba 233.527†	-153.9	-1.0	-0.0042 µg/L	-0.0042 ppb	15:21:37
1	Be 313.107†	-684.8	152.9	0.0487 µg/L	0.0487 ppb	15:21:17
1	Cd 226.502†	-98.9	2.2	0.0153 µg/L	0.0153 ppb	15:21:37
1	Co 228.616†	-177.8	-12.4	-0.1706 µg/L	-0.1706 ppb	15:21:37
1	Cr 267.716†	203.4	44.0	0.3706 µg/L	0.3706 ppb	15:21:37
1	Cu 324.752†	2809.0	-2.8	-0.0029 µg/L	-0.0029 ppb	15:21:17
1	Mn 257.610†	329.5	116.7	0.1578 µg/L	0.1578 ppb	15:21:37
1	Mo 202.031†	-29.7	-10.6	-0.3408 µg/L	-0.3408 ppb	15:21:37
1	Ni 231.604†	-82.7	-1.3	-0.0161 µg/L	-0.0161 ppb	15:21:37
1	P 214.914†	-1.5	12.1	2.9162 µg/L	2.9162 ppb	15:21:37
1	Pb 220.353†	81.4	7.4	0.4479 µg/L	0.4479 ppb	15:21:37
1	S 181.975 Axial†	105.8	2.7	2.2474 µg/L	2.2474 ppb	15:21:37
1	Sb 206.836†	56.0	-16.7	-2.1916 µg/L	-2.1916 ppb	15:21:37
1	Se 196.026†	12.2	-0.3	-0.110 µg/L	-0.110 ppb	15:21:37
1	SiO2†	1695.1	3.1	0.3355 µg/L	0.3355 ppb	15:21:37
1	Si 251.611†	814.9	-64.2	-1.0425 µg/L	-1.0425 ppb	15:21:37
1	Sn 189.927†	6.2	6.6	0.4553 µg/L	0.4553 ppb	15:21:37
1	Ti 334.940†	961.8	212.3	0.2105 µg/L	0.2105 ppb	15:21:17
1	Tl 190.801†	-106.0	6.1	0.8374 µg/L	0.8374 ppb	15:21:37
1	U 409.014†	-51.1	164.0	10.466 µg/L	10.466 ppb	15:21:17
1	V 292.402†	399.5	88.6	0.4791 µg/L	0.4791 ppb	15:21:17
1	Zn 213.857†	560.4	36.0	0.2249 µg/L	0.2249 ppb	15:21:37
2	Sc RADIAL	145968.6	145968.6	98.6 %		15:20:15
2	Al 396.153Radial†	-64.9	-4.6	-0.9294 µg/L	-0.9294 ppb	15:20:35
2	Ca 317.933Radial†	618.1	19.8	1.2135 µg/L	1.2135 ppb	15:20:35
2	Fe 238.204 Radial†	183.6	49.4	3.3472 µg/L	3.3472 ppb	15:20:35
2	K 766.490 Radial†	1408.8	-120.6	-48.799 µg/L	-48.799 ppb	15:20:15
2	Mg 279.077 IEC†	162.8	-17.6	-7.2624 µg/L	-7.2624 ppb	15:20:35
2	Na 589.592 Radial†	1395.2	96.4	14.516 µg/L	14.516 ppb	15:20:15
2	Sr 421.552†	-159.0	116.8	0.2627 µg/L	0.2627 ppb	15:20:15
2	Sc 361.383	1755879.5	1755879.5	100.30 %		15:21:39
2	Y 371.029	1056309.7	1056309.7	100.18 %		15:21:39
2	Ag 328.068†	3563.9	-191.7	-0.7852 µg/L	-0.7852 ppb	15:21:41
2	As 188.979†	-16.9	0.2	0.0853 µg/L	0.0853 ppb	15:22:01
2	B 249.677†	3260.9	-31.8	-0.5206 µg/L	-0.5206 ppb	15:22:01
2	Ba 233.527†	-152.6	2.3	0.0104 µg/L	0.0104 ppb	15:22:01
2	Be 313.107†	-557.3	289.0	0.0815 µg/L	0.0815 ppb	15:21:41
2	Cd 226.502†	-112.1	-9.6	-0.0677 µg/L	-0.0677 ppb	15:22:01
2	Co 228.616†	-158.7	8.9	0.1217 µg/L	0.1217 ppb	15:22:01
2	Cr 267.716†	222.8	60.5	0.5335 µg/L	0.5335 ppb	15:22:01
2	Cu 324.752†	2769.6	-79.1	-0.3480 µg/L	-0.3480 ppb	15:21:41
2	Mn 257.610†	358.3	141.1	0.1910 µg/L	0.1910 ppb	15:22:01
2	Mo 202.031†	-12.6	6.8	0.2190 µg/L	0.2190 ppb	15:22:01
2	Ni 231.604†	-83.1	-0.5	-0.0068 µg/L	-0.0068 ppb	15:22:01
2	P 214.914†	-8.6	5.0	1.2201 µg/L	1.2201 ppb	15:22:01
2	Pb 220.353†	72.1	-2.9	-0.1689 µg/L	-0.1689 ppb	15:22:01

2	S 181.975 Axial†	115.0	10.5	8.7807 µg/L	8.7807 ppb	15:22:01
2	Sb 206.836†	103.5	30.0	3.9284 µg/L	3.9284 ppb	15:22:01
2	Se 196.026†	17.8	5.2	2.09 µg/L	2.09 ppb	15:22:01
2	SiO2†	1689.4	-24.9	-2.7103 µg/L	-2.7103 ppb	15:22:01
2	Si 251.611†	876.2	-13.8	-0.2352 µg/L	-0.2352 ppb	15:22:01
2	Sn 189.927†	17.2	17.5	1.2110 µg/L	1.2110 ppb	15:22:01
2	Ti 334.940†	838.5	76.7	0.0842 µg/L	0.0842 ppb	15:21:41
2	Tl 190.801†	-114.0	-0.5	-0.0596 µg/L	-0.0596 ppb	15:22:01
2	U 409.014†	-454.1	-237.1	-15.049 µg/L	-15.049 ppb	15:21:41
2	V 292.402†	438.7	122.4	0.6494 µg/L	0.6494 ppb	15:21:41
2	Zn 213.857†	588.3	56.5	0.3531 µg/L	0.3531 ppb	15:22:01
3	Sc RADIAL	145775.5	145775.5	98.4 %		15:20:37
3	Al 396.153Radial†	-63.5	-3.3	-0.6908 µg/L	-0.6908 ppb	15:20:57
3	Ca 317.933Radial†	630.2	33.0	2.0159 µg/L	2.0159 ppb	15:20:57
3	Fe 238.204 Radial†	167.7	33.5	2.2689 µg/L	2.2689 ppb	15:20:57
3	K 766.490 Radial†	1545.9	20.7	8.3567 µg/L	8.3567 ppb	15:20:37
3	Mg 279.077 IEC†	184.8	5.0	2.0607 µg/L	2.0607 ppb	15:20:57
3	Na 589.592 Radial†	1345.0	47.2	7.0865 µg/L	7.0865 ppb	15:20:37
3	Sr 421.552†	-178.5	96.7	0.2176 µg/L	0.2176 ppb	15:20:37
3	Sc 361.383	1764719.0	1764719.0	100.81 %		15:22:03
3	Y 371.029	1060285.6	1060285.6	100.56 %		15:22:03
3	Ag 328.068†	3746.0	-28.9	-0.1196 µg/L	-0.1196 ppb	15:22:06
3	As 188.979†	-19.0	-1.7	-0.5584 µg/L	-0.5584 ppb	15:22:26
3	B 249.677†	3306.1	-3.2	-0.0534 µg/L	-0.0534 ppb	15:22:26
3	Ba 233.527†	-118.6	36.8	0.1629 µg/L	0.1629 ppb	15:22:26
3	Be 313.107†	-431.5	416.6	0.1213 µg/L	0.1213 ppb	15:22:06
3	Cd 226.502†	-70.6	32.2	0.2251 µg/L	0.2251 ppb	15:22:26
3	Co 228.616†	-163.7	4.7	0.0651 µg/L	0.0651 ppb	15:22:26
3	Cr 267.716†	235.1	71.7	0.6245 µg/L	0.6245 ppb	15:22:26
3	Cu 324.752†	2760.5	-101.9	-0.4401 µg/L	-0.4401 ppb	15:22:06
3	Mn 257.610†	566.3	345.7	0.4671 µg/L	0.4671 ppb	15:22:26
3	Mo 202.031†	6.4	25.7	0.8293 µg/L	0.8293 ppb	15:22:26
3	Ni 231.604†	-67.3	15.5	0.1987 µg/L	0.1987 ppb	15:22:26
3	P 214.914†	5.4	18.9	4.5471 µg/L	4.5471 ppb	15:22:26
3	Pb 220.353†	72.9	-2.5	-0.1432 µg/L	-0.1432 ppb	15:22:26
3	S 181.975 Axial†	110.5	5.4	4.5014 µg/L	4.5014 ppb	15:22:26
3	Sb 206.836†	79.1	5.3	0.6981 µg/L	0.6981 ppb	15:22:26
3	Se 196.026†	26.9	14.1	5.70 µg/L	5.70 ppb	15:22:26
3	SiO2†	1738.7	15.5	1.6291 µg/L	1.6291 ppb	15:22:26
3	Si 251.611†	941.5	46.7	0.7404 µg/L	0.7404 ppb	15:22:26
3	Sn 189.927†	16.6	16.8	1.1626 µg/L	1.1626 ppb	15:22:26
3	Ti 334.940†	1036.5	268.9	0.2754 µg/L	0.2754 ppb	15:22:06
3	Tl 190.801†	-111.1	3.0	0.4164 µg/L	0.4164 ppb	15:22:26
3	U 409.014†	-358.9	-140.4	-8.8947 µg/L	-8.8947 ppb	15:22:06
3	V 292.402†	445.2	126.7	0.6830 µg/L	0.6830 ppb	15:22:06
3	Zn 213.857†	624.2	89.1	0.5562 µg/L	0.5562 ppb	15:22:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751189.9	100.04 %	0.936			0.94%
Sc RADIAL	145726.1	98.4 %	0.18			0.19%
Y 371.029	1053181.2	99.886 %	0.8614			0.86%
Ag 328.068†	-76.2	-0.3063 µg/L	0.41812	-0.3063 ppb	0.41812	136.52%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.1	0.0184 µg/L	1.43991	0.0184 ppb	1.43991	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	0.3343 µg/L	1.03986	0.3343 ppb	1.03986	311.05%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-6.8	-0.1116 µg/L	0.38311	-0.1116 ppb	0.38311	343.14%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	12.7	0.0564 µg/L	0.09252	0.0564 ppb	0.09252	164.13%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	286.2	0.0838 µg/L	0.03638	0.0838 ppb	0.03638	43.40%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	34.0	2.0813 µg/L	0.90233	2.0813 ppb	0.90233	43.35%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.3	0.0576 µg/L	0.15090	0.0576 ppb	0.15090	262.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.4	0.0054 µg/L	0.15500	0.0054 ppb	0.15500	>999.9%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	58.7	0.5096 µg/L	0.12862	0.5096 ppb	0.12862	25.24%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-61.3	-0.2637 µg/L	0.23043	-0.2637 ppb	0.23043	87.40%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	43.4	2.9392 µg/L	0.58503	2.9392 ppb	0.58503	19.90%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	18.2	7.3488 µg/L	55.65028	7.3488 ppb	55.65028	757.27%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-5.1	-2.1160 µg/L	4.73660	-2.1160 ppb	4.73660	223.85%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	201.2	0.2719 µg/L	0.16978	0.2719 ppb	0.16978	62.43%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	7.3	0.2359 µg/L	0.58522	0.2359 ppb	0.58522	248.13%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	47.2	7.0765 µg/L	7.44438	7.0765 ppb	7.44438	105.20%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	4.6	0.0586 µg/L	0.12142	0.0586 ppb	0.12142	207.30%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	12.0	2.8945 µg/L	1.66360	2.8945 ppb	1.66360	57.48%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	0.7	0.0452 µg/L	0.34891	0.0452 ppb	0.34891	771.37%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	6.2	5.1765 µg/L	3.31853	5.1765 ppb	3.31853	64.11%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	6.2	0.8116 µg/L	3.06157	0.8116 ppb	3.06157	377.20%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	6.3	2.56 µg/L	2.935	2.56 ppb	2.935	114.61%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	-2.1	-0.2486 µg/L	2.22791	-0.2486 ppb	2.22791	896.32%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	-10.4	-0.1791 µg/L	0.89276	-0.1791 ppb	0.89276	498.43%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	13.6	0.9430 µg/L	0.42300	0.9430 ppb	0.42300	44.86%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	59.3	0.1334 µg/L	0.18628	0.1334 ppb	0.18628	139.65%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	186.0	0.1900 µg/L	0.09722	0.1900 ppb	0.09722	51.16%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.9	0.3981 µg/L	0.44881	0.3981 ppb	0.44881	112.75%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-71.2	-4.4927 µg/L	13.31492	-4.4927 ppb	13.31492	296.37%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	112.6	0.6038 µg/L	0.10932	0.6038 ppb	0.10932	18.10%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	60.5	0.3781 µg/L	0.16704	0.3781 ppb	0.16704	44.18%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 15:37:07

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	149744.5	149744.5	101 %		15:37:41
1	Al 396.153Radial†	25371.9	25152.0	4992.9 µg/L	4992.9 ppb	15:37:41
1	Ca 317.933Radial†	84663.8	83118.4	5082.9 µg/L	5082.9 ppb	15:37:41
1	Fe 238.204 Radial†	75478.2	74505.0	5050.0 µg/L	5050.0 ppb	15:37:41
1	K 766.490 Radial†	14275.6	12567.6	5082.1 µg/L	5082.1 ppb	15:37:41
1	Mg 279.077 IEC†	12822.0	12497.2	5161.6 µg/L	5161.6 ppb	15:37:41
1	Na 589.592 Radial†	69007.7	66924.0	10044 µg/L	10044 ppb	15:37:41
1	Sr 421.552†	220122.7	217961.7	490.18 µg/L	490.18 ppb	15:37:39
1	Sc 361.383	1764788.2	1764788.2	100.81 %		15:37:54
1	Y 371.029	1049243.2	1049243.2	99.513 %		15:37:54
1	Ag 328.068†	127698.8	122925.4	502.80 µg/L	502.80 ppb	15:37:54
1	As 188.979†	1472.2	1477.4	502.12 µg/L	502.12 ppb	15:38:14
1	B 249.677†	34014.1	30457.3	496.80 µg/L	496.80 ppb	15:37:54
1	Ba 233.527†	114507.2	113739.3	502.16 µg/L	502.16 ppb	15:37:54
1	Be 313.107†	1693274.2	1680480.3	500.50 µg/L	500.50 ppb	15:37:54
1	Cd 226.502†	73029.5	72543.5	507.88 µg/L	507.88 ppb	15:37:54
1	Co 228.616†	37085.6	36954.1	506.43 µg/L	506.43 ppb	15:37:54
1	Cr 267.716†	58943.5	58307.2	501.99 µg/L	501.99 ppb	15:37:54
1	Cu 324.752†	121283.5	117466.3	500.66 µg/L	500.66 ppb	15:37:54
1	Mn 257.610†	375913.0	372669.1	503.42 µg/L	503.42 ppb	15:37:54
1	Mo 202.031†	15629.7	15523.2	500.63 µg/L	500.63 ppb	15:38:14
1	Ni 231.604†	39775.2	39537.1	506.15 µg/L	506.15 ppb	15:37:54
1	P 214.914†	10583.2	10511.6	2513.2 µg/L	2513.2 ppb	15:38:14
1	Pb 220.353†	8275.0	8133.6	505.37 µg/L	505.37 ppb	15:38:14
1	Sb 181.975 Axial†	1329.3	1214.4	1019.3 µg/L	1019.3 ppb	15:38:14
1	Sb 206.836†	3912.9	3808.2	499.93 µg/L	499.93 ppb	15:38:14
1	Se 196.026†	1272.5	1249.7	509 µg/L	509 ppb	15:38:14
1	SiO2†	52845.4	50710.5	5445.3 µg/L	5445.3 ppb	15:37:54
1	Si 251.611†	159504.4	157332.3	2549.7 µg/L	2549.7 ppb	15:37:54
1	Sn 189.927†	7280.9	7222.6	501.84 µg/L	501.84 ppb	15:38:14
1	Ti 334.940†	499040.3	494261.4	499.41 µg/L	499.41 ppb	15:37:54
1	Tl 190.801†	3622.3	3706.4	510.48 µg/L	510.48 ppb	15:38:14
1	U 409.014†	7050.7	7209.6	489.28 µg/L	489.28 ppb	15:37:54
1	V 292.402†	94307.0	93232.4	505.95 µg/L	505.95 ppb	15:37:54
1	Zn 213.857†	81970.7	80780.4	501.10 µg/L	501.10 ppb	15:37:54
2	Sc RADIAL	146972.5	146972.5	99.2 %		15:37:45
2	Al 396.153Radial†	24757.4	25006.1	4963.8 µg/L	4963.8 ppb	15:37:45
2	Ca 317.933Radial†	82684.1	82702.9	5057.5 µg/L	5057.5 ppb	15:37:45
2	Fe 238.204 Radial†	73702.3	74123.4	5024.1 µg/L	5024.1 ppb	15:37:45
2	K 766.490 Radial†	13809.4	12364.1	4999.8 µg/L	4999.8 ppb	15:37:45
2	Mg 279.077 IEC†	12538.1	12450.2	5142.2 µg/L	5142.2 ppb	15:37:45
2	Na 589.592 Radial†	67446.8	66638.4	10001 µg/L	10001 ppb	15:37:45
2	Sr 421.552†	222986.6	224952.9	505.91 µg/L	505.91 ppb	15:37:43
2	Sc 361.383	1762241.4	1762241.4	100.67 %		15:38:17
2	Y 371.029	1048050.2	1048050.2	99.400 %		15:38:17
2	Ag 328.068†	127815.2	123224.1	504.01 µg/L	504.01 ppb	15:38:17
2	As 188.979†	1474.2	1481.6	503.49 µg/L	503.49 ppb	15:38:37
2	B 249.677†	34174.1	30665.0	500.19 µg/L	500.19 ppb	15:38:17
2	Ba 233.527†	114350.4	113747.8	502.20 µg/L	502.20 ppb	15:38:17
2	Be 313.107†	1690015.5	1679670.7	500.26 µg/L	500.26 ppb	15:38:17
2	Cd 226.502†	72972.1	72591.1	508.22 µg/L	508.22 ppb	15:38:17
2	Co 228.616†	37162.7	37083.8	508.21 µg/L	508.21 ppb	15:38:17
2	Cr 267.716†	58859.1	58307.9	501.99 µg/L	501.99 ppb	15:38:17
2	Cu 324.752†	121248.0	117604.9	501.25 µg/L	501.25 ppb	15:38:17
2	Mn 257.610†	375273.3	372572.5	503.29 µg/L	503.29 ppb	15:38:17
2	Mo 202.031†	15605.9	15522.0	500.59 µg/L	500.59 ppb	15:38:37
2	Ni 231.604†	39957.5	39775.2	509.20 µg/L	509.20 ppb	15:38:17
2	P 214.914†	10579.3	10522.9	2515.9 µg/L	2515.9 ppb	15:38:37
2	Pb 220.353†	8288.5	8158.8	506.92 µg/L	506.92 ppb	15:38:37

2	S 181.975 Axial†	1337.6	1224.5	1027.7 µg/L	1027.7 ppb	15:38:37
2	Sb 206.836†	3907.7	3808.6	499.98 µg/L	499.98 ppb	15:38:37
2	Se 196.026†	1271.3	1250.3	509 µg/L	509 ppb	15:38:37
2	SiO2†	52812.5	50753.6	5450.0 µg/L	5450.0 ppb	15:38:17
2	Si 251.611†	159503.9	157560.5	2553.4 µg/L	2553.4 ppb	15:38:17
2	Sn 189.927†	7267.2	7219.4	501.62 µg/L	501.62 ppb	15:38:37
2	Ti 334.940†	497771.3	493716.3	498.85 µg/L	498.85 ppb	15:38:17
2	Tl 190.801†	3616.8	3706.0	510.41 µg/L	510.41 ppb	15:38:37
2	U 409.014†	7131.6	7300.0	495.01 µg/L	495.01 ppb	15:38:17
2	V 292.402†	94084.1	93146.2	505.49 µg/L	505.49 ppb	15:38:17
2	Zn 213.857†	82085.5	81011.9	502.53 µg/L	502.53 ppb	15:38:17
3	Sc RADIAL	147926.6	147926.6	99.9 %		15:37:49
3	Al 396.153Radial†	25047.6	25135.7	4989.5 µg/L	4989.5 ppb	15:37:49
3	Ca 317.933Radial†	83666.8	83149.3	5084.8 µg/L	5084.8 ppb	15:37:49
3	Fe 238.204 Radial†	74461.4	74404.4	5043.2 µg/L	5043.2 ppb	15:37:49
3	K 766.490 Radial†	14005.2	12470.4	5042.8 µg/L	5042.8 ppb	15:37:49
3	Mg 279.077 IEC†	12606.9	12437.7	5137.1 µg/L	5137.1 ppb	15:37:49
3	Na 589.592 Radial†	68328.2	67082.5	10068 µg/L	10068 ppb	15:37:49
3	Sr 421.552†	222164.2	222680.6	500.80 µg/L	500.80 ppb	15:37:47
3	Sc 361.383	1742016.8	1742016.8	99.511 %		15:38:40
3	Y 371.029	1036351.8	1036351.8	98.290 %		15:38:40
3	Ag 328.068†	126680.2	123557.6	505.39 µg/L	505.39 ppb	15:38:40
3	As 188.979†	1445.9	1470.1	499.69 µg/L	499.69 ppb	15:39:00
3	B 249.677†	33787.4	30670.5	500.27 µg/L	500.27 ppb	15:38:40
3	Ba 233.527†	113077.2	113787.0	502.37 µg/L	502.37 ppb	15:38:40
3	Be 313.107†	1675692.5	1684768.3	501.78 µg/L	501.78 ppb	15:38:40
3	Cd 226.502†	71986.6	72442.4	507.18 µg/L	507.18 ppb	15:38:40
3	Co 228.616†	36862.2	37210.4	509.94 µg/L	509.94 ppb	15:38:40
3	Cr 267.716†	58358.9	58484.0	503.50 µg/L	503.50 ppb	15:38:40
3	Cu 324.752†	120097.6	117847.2	502.29 µg/L	502.29 ppb	15:38:40
3	Mn 257.610†	372109.0	373720.8	504.84 µg/L	504.84 ppb	15:38:40
3	Mo 202.031†	15513.8	15609.4	503.41 µg/L	503.41 ppb	15:39:00
3	Ni 231.604†	39321.3	39596.8	506.92 µg/L	506.92 ppb	15:38:40
3	P 214.914†	10468.9	10533.9	2518.6 µg/L	2518.6 ppb	15:39:00
3	Pb 220.353†	8206.8	8172.3	507.77 µg/L	507.77 ppb	15:39:00
3	S 181.975 Axial†	1314.0	1216.3	1020.8 µg/L	1020.8 ppb	15:39:00
3	Sb 206.836†	3866.7	3812.5	500.52 µg/L	500.52 ppb	15:39:00
3	Se 196.026†	1263.0	1256.7	511 µg/L	511 ppb	15:39:00
3	SiO2†	52218.3	50765.6	5451.2 µg/L	5451.2 ppb	15:38:40
3	Si 251.611†	157734.1	157621.6	2554.4 µg/L	2554.4 ppb	15:38:40
3	Sn 189.927†	7215.1	7250.9	503.80 µg/L	503.80 ppb	15:39:00
3	Ti 334.940†	493522.4	495187.3	500.34 µg/L	500.34 ppb	15:38:40
3	Tl 190.801†	3579.8	3710.6	511.05 µg/L	511.05 ppb	15:39:00
3	U 409.014†	7113.1	7363.6	499.19 µg/L	499.19 ppb	15:38:40
3	V 292.402†	93406.6	93550.5	507.69 µg/L	507.69 ppb	15:38:40
3	Zn 213.857†	81310.9	81180.3	503.60 µg/L	503.60 ppb	15:38:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756348.8	100.33 %	0.713			0.71%
Sc RADIAL	148214.5	100 %	1.0			0.95%
Y 371.029	1044548.4	99.067 %	0.6756			0.68%
Ag 328.068†	123235.7	504.07 µg/L	1.294	504.07 ppb	1.294	0.26%
QC value within limits for Ag 328.068 Recovery = 100.81%						
Al 396.153Radial†	25097.9	4982.0 µg/L	15.91	4982.0 ppb	15.91	0.32%
QC value within limits for Al 396.153Radial Recovery = 99.64%						
As 188.979†	1476.4	501.77 µg/L	1.924	501.77 ppb	1.924	0.38%
QC value within limits for As 188.979 Recovery = 100.35%						
B 249.677†	30597.6	499.09 µg/L	1.984	499.09 ppb	1.984	0.40%
QC value within limits for B 249.677 Recovery = 99.82%						
Ba 233.527†	113758.1	502.24 µg/L	0.113	502.24 ppb	0.113	0.02%
QC value within limits for Ba 233.527 Recovery = 100.45%						
Be 313.107†	1681639.7	500.85 µg/L	0.817	500.85 ppb	0.817	0.16%
QC value within limits for Be 313.107 Recovery = 100.17%						
Ca 317.933Radial†	82990.2	5075.1 µg/L	15.25	5075.1 ppb	15.25	0.30%
QC value within limits for Ca 317.933Radial Recovery = 101.50%						
Cd 226.502†	72525.6	507.76 µg/L	0.533	507.76 ppb	0.533	0.11%
QC value within limits for Cd 226.502 Recovery = 101.55%						
Co 228.616†	37082.8	508.19 µg/L	1.756	508.19 ppb	1.756	0.35%

QC value within limits for Co 228.616 Recovery = 101.64%							
Cr 267.716†	58366.4	502.49 µg/L	0.875	502.49 ppb	0.875	0.17%	
QC value within limits for Cr 267.716 Recovery = 100.50%							
Cu 324.752†	117639.5	501.40 µg/L	0.824	501.40 ppb	0.824	0.16%	
QC value within limits for Cu 324.752 Recovery = 100.28%							
Fe 238.204 Radial†	74344.3	5039.1 µg/L	13.40	5039.1 ppb	13.40	0.27%	
QC value within limits for Fe 238.204 Radial Recovery = 100.78%							
K 766.490 Radial†	12467.4	5041.5 µg/L	41.18	5041.5 ppb	41.18	0.82%	
QC value within limits for K 766.490 Radial Recovery = 100.83%							
Mg 279.077 IEC†	12461.7	5147.0 µg/L	12.89	5147.0 ppb	12.89	0.25%	
QC value within limits for Mg 279.077 IEC Recovery = 102.94%							
Mn 257.610†	372987.5	503.85 µg/L	0.861	503.85 ppb	0.861	0.17%	
QC value within limits for Mn 257.610 Recovery = 100.77%							
Mo 202.031†	15551.5	501.55 µg/L	1.615	501.55 ppb	1.615	0.32%	
QC value within limits for Mo 202.031 Recovery = 100.31%							
Na 589.592 Radial†	66881.7	10037 µg/L	33.8	10037 ppb	33.8	0.34%	
QC value within limits for Na 589.592 Radial Recovery = 100.37%							
Ni 231.604†	39636.4	507.42 µg/L	1.586	507.42 ppb	1.586	0.31%	
QC value within limits for Ni 231.604 Recovery = 101.48%							
P 214.914†	10522.8	2515.9 µg/L	2.67	2515.9 ppb	2.67	0.11%	
QC value within limits for P 214.914 Recovery = 100.64%							
Pb 220.353†	8154.9	506.69 µg/L	1.216	506.69 ppb	1.216	0.24%	
QC value within limits for Pb 220.353 Recovery = 101.34%							
S 181.975 Axial†	1218.4	1022.6 µg/L	4.50	1022.6 ppb	4.50	0.44%	
QC value within limits for S 181.975 Axial Recovery = 102.26%							
Sb 206.836†	3809.8	500.14 µg/L	0.328	500.14 ppb	0.328	0.07%	
QC value within limits for Sb 206.836 Recovery = 100.03%							
Se 196.026†	1252.2	510 µg/L	1.6	510 ppb	1.6	0.31%	
QC value within limits for Se 196.026 Recovery = 101.91%							
SiO2†	50743.2	5448.8 µg/L	3.08	5448.8 ppb	3.08	0.06%	
QC value within limits for SiO2 Recovery = 101.89%							
Si 251.611†	157504.8	2552.5 µg/L	2.46	2552.5 ppb	2.46	0.10%	
QC value within limits for Si 251.611 Recovery = 102.10%							
Sn 189.927†	7230.9	502.42 µg/L	1.202	502.42 ppb	1.202	0.24%	
QC value within limits for Sn 189.927 Recovery = 100.48%							
Sr 421.552†	221865.1	498.96 µg/L	8.021	498.96 ppb	8.021	1.61%	
QC value within limits for Sr 421.552 Recovery = 99.79%							
Ti 334.940†	494388.4	499.53 µg/L	0.752	499.53 ppb	0.752	0.15%	
QC value within limits for Ti 334.940 Recovery = 99.91%							
Tl 190.801†	3707.7	510.65 µg/L	0.352	510.65 ppb	0.352	0.07%	
QC value within limits for Tl 190.801 Recovery = 102.13%							
U 409.014†	7291.1	494.49 µg/L	4.977	494.49 ppb	4.977	1.01%	
QC value within limits for U 409.014 Recovery = 98.90%							
V 292.402†	93309.7	506.38 µg/L	1.161	506.38 ppb	1.161	0.23%	
QC value within limits for V 292.402 Recovery = 101.28%							
Zn 213.857†	80990.8	502.41 µg/L	1.252	502.41 ppb	1.252	0.25%	
QC value within limits for Zn 213.857 Recovery = 100.48%							
All analyte(s) passed QC.							

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

Autosampler Location: 8
 Date Collected: 3/31/2010 15:39:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146888.0	146888.0	99.2 %		15:39:37
1	Al 396.153Radial†	-87.4	-26.9	-5.3823 µg/L	-5.3823 ppb	15:39:57
1	Ca 317.933Radial†	628.1	26.0	1.5884 µg/L	1.5884 ppb	15:39:57
1	Fe 238.204 Radial†	190.1	54.8	3.7125 µg/L	3.7125 ppb	15:39:57
1	K 766.490 Radial†	1681.0	144.9	58.634 µg/L	58.634 ppb	15:39:37
1	Mg 279.077 IEC†	183.3	2.0	0.8433 µg/L	0.8433 ppb	15:39:57
1	Na 589.592 Radial†	1379.4	71.6	10.698 µg/L	10.698 ppb	15:39:37
1	Sr 421.552†	-149.8	127.1	0.2859 µg/L	0.2859 ppb	15:39:37
1	Sc 361.383	1755193.0	1755193.0	100.26 %		15:40:58
1	Y 371.029	1055089.6	1055089.6	100.07 %		15:40:58
1	Ag 328.068†	3898.3	143.2	0.5691 µg/L	0.5691 ppb	15:41:00
1	As 188.979†	-16.4	0.7	0.2448 µg/L	0.2448 ppb	15:41:21
1	B 249.677†	3350.9	59.3	0.9712 µg/L	0.9712 ppb	15:41:21
1	Ba 233.527†	-129.5	25.3	0.1119 µg/L	0.1119 ppb	15:41:21
1	Be 313.107†	-982.3	-135.0	-0.0433 µg/L	-0.0433 ppb	15:41:00
1	Cd 226.502†	-101.9	0.5	0.0030 µg/L	0.0030 ppb	15:41:21
1	Co 228.616†	-190.1	-22.5	-0.3076 µg/L	-0.3076 ppb	15:41:21
1	Cr 267.716†	183.7	21.6	0.1943 µg/L	0.1943 ppb	15:41:21
1	Cu 324.752†	2704.1	-143.3	-0.6169 µg/L	-0.6169 ppb	15:41:00
1	Mn 257.610†	325.7	108.7	0.1469 µg/L	0.1469 ppb	15:41:21
1	Mo 202.031†	-6.7	12.7	0.4087 µg/L	0.4087 ppb	15:41:21
1	Ni 231.604†	-89.4	-6.8	-0.0876 µg/L	-0.0876 ppb	15:41:21
1	P 214.914†	-3.0	10.6	2.5480 µg/L	2.5480 ppb	15:41:21
1	Pb 220.353†	73.6	-1.4	-0.0771 µg/L	-0.0771 ppb	15:41:21
1	S 181.975 Axial†	109.3	4.9	4.0657 µg/L	4.0657 ppb	15:41:21
1	Sb 206.836†	74.5	1.1	0.1477 µg/L	0.1477 ppb	15:41:21
1	Se 196.026†	18.4	5.7	2.32 µg/L	2.32 ppb	15:41:21
1	SiO2†	1719.0	5.2	0.5487 µg/L	0.5487 ppb	15:41:21
1	Si 251.611†	974.8	84.9	1.3751 µg/L	1.3751 ppb	15:41:00
1	Sn 189.927†	-0.4	-0.1	-0.0055 µg/L	-0.0055 ppb	15:41:21
1	Ti 334.940†	850.8	89.3	0.0945 µg/L	0.0945 ppb	15:41:00
1	Tl 190.801†	-124.8	-11.2	-1.5196 µg/L	-1.5196 ppb	15:41:21
1	U 409.014†	-377.5	-160.9	-10.222 µg/L	-10.222 ppb	15:41:00
1	V 292.402†	367.7	51.7	0.2747 µg/L	0.2747 ppb	15:41:00
1	Zn 213.857†	578.2	46.6	0.2923 µg/L	0.2923 ppb	15:41:21
2	Sc RADIAL	149281.4	149281.4	101 %		15:39:59
2	Al 396.153Radial†	-23.0	38.5	7.6859 µg/L	7.6859 ppb	15:40:19
2	Ca 317.933Radial†	628.0	15.7	0.9620 µg/L	0.9620 ppb	15:40:19
2	Fe 238.204 Radial†	178.7	40.4	2.7360 µg/L	2.7360 ppb	15:40:19
2	K 766.490 Radial†	1541.5	-20.6	-8.3462 µg/L	-8.3462 ppb	15:39:59
2	Mg 279.077 IEC†	160.4	-23.7	-9.7765 µg/L	-9.7765 ppb	15:40:19
2	Na 589.592 Radial†	1292.1	-37.3	-5.5950 µg/L	-5.5950 ppb	15:39:59
2	Sr 421.552†	-347.0	-66.1	-0.1487 µg/L	-0.1487 ppb	15:39:59
2	Sc 361.383	1760347.6	1760347.6	100.56 %		15:41:23
2	Y 371.029	1058079.0	1058079.0	100.35 %		15:41:23
2	Ag 328.068†	4034.9	267.6	1.0875 µg/L	1.0875 ppb	15:41:25
2	As 188.979†	-16.1	1.1	0.3660 µg/L	0.3660 ppb	15:41:45
2	B 249.677†	3366.1	64.6	1.0569 µg/L	1.0569 ppb	15:41:45
2	Ba 233.527†	-146.7	8.6	0.0379 µg/L	0.0379 ppb	15:41:45
2	Be 313.107†	-1016.0	-165.7	-0.0487 µg/L	-0.0487 ppb	15:41:25
2	Cd 226.502†	-129.1	-26.2	-0.1841 µg/L	-0.1841 ppb	15:41:45
2	Co 228.616†	-163.7	4.3	0.0592 µg/L	0.0592 ppb	15:41:45
2	Cr 267.716†	198.0	35.4	0.3032 µg/L	0.3032 ppb	15:41:45
2	Cu 324.752†	2805.0	-50.8	-0.2140 µg/L	-0.2140 ppb	15:41:25
2	Mn 257.610†	313.1	95.3	0.1291 µg/L	0.1291 ppb	15:41:45
2	Mo 202.031†	-26.9	-7.4	-0.2381 µg/L	-0.2381 ppb	15:41:45
2	Ni 231.604†	-92.8	-10.0	-0.1283 µg/L	-0.1283 ppb	15:41:45
2	P 214.914†	-9.4	4.3	1.0335 µg/L	1.0335 ppb	15:41:45
2	Pb 220.353†	87.0	11.7	0.7210 µg/L	0.7210 ppb	15:41:45

2	S 181.975 Axial†	101.9	-2.9	-2.3857 µg/L	-2.3857 ppb	15:41:45
2	Sb 206.836†	78.6	4.9	0.6391 µg/L	0.6391 ppb	15:41:45
2	Se 196.026†	17.6	4.9	2.00 µg/L	2.00 ppb	15:41:45
2	SiO2†	1761.8	42.8	4.6208 µg/L	4.6208 ppb	15:41:45
2	Si 251.611†	929.6	37.1	0.6092 µg/L	0.6092 ppb	15:41:25
2	Sn 189.927†	-4.9	-4.6	-0.3171 µg/L	-0.3171 ppb	15:41:45
2	Ti 334.940†	1047.9	282.8	0.2859 µg/L	0.2859 ppb	15:41:25
2	Tl 190.801†	-109.0	4.9	0.6638 µg/L	0.6638 ppb	15:41:45
2	U 409.014†	-181.9	34.7	2.2263 µg/L	2.2263 ppb	15:41:25
2	V 292.402†	376.9	59.8	0.3200 µg/L	0.3200 ppb	15:41:25
2	Zn 213.857†	603.6	70.2	0.4399 µg/L	0.4399 ppb	15:41:45
3	Sc RADIAL	147689.0	147689.0	99.7 %		15:40:21
3	Al 396.153Radial†	-42.7	18.4	3.6581 µg/L	3.6581 ppb	15:40:41
3	Ca 317.933Radial†	638.0	32.5	1.9881 µg/L	1.9881 ppb	15:40:41
3	Fe 238.204 Radial†	170.4	34.0	2.3020 µg/L	2.3020 ppb	15:40:41
3	K 766.490 Radial†	1621.4	76.0	30.759 µg/L	30.759 ppb	15:40:21
3	Mg 279.077 IEC†	195.3	13.1	5.4087 µg/L	5.4087 ppb	15:40:41
3	Na 589.592 Radial†	1259.2	-56.5	-8.5081 µg/L	-8.5081 ppb	15:40:21
3	Sr 421.552†	-286.9	-9.6	-0.0215 µg/L	-0.0215 ppb	15:40:21
3	Sc 361.383	1789848.9	1789848.9	102.24 %		15:41:47
3	Y 371.029	1076318.4	1076318.4	102.08 %		15:41:47
3	Ag 328.068†	3914.4	83.7	0.3450 µg/L	0.3450 ppb	15:41:49
3	As 188.979†	-13.4	4.1	1.3647 µg/L	1.3647 ppb	15:42:09
3	B 249.677†	3369.9	13.2	0.2148 µg/L	0.2148 ppb	15:42:09
3	Ba 233.527†	-95.2	61.4	0.2707 µg/L	0.2707 ppb	15:42:09
3	Be 313.107†	-455.0	399.7	0.1211 µg/L	0.1211 ppb	15:41:49
3	Cd 226.502†	-34.0	68.9	0.4824 µg/L	0.4824 ppb	15:42:09
3	Co 228.616†	-158.9	11.7	0.1611 µg/L	0.1611 ppb	15:42:09
3	Cr 267.716†	229.4	62.8	0.5350 µg/L	0.5350 ppb	15:42:09
3	Cu 324.752†	2913.0	8.8	0.0437 µg/L	0.0437 ppb	15:41:49
3	Mn 257.610†	620.8	391.1	0.5283 µg/L	0.5283 ppb	15:42:09
3	Mo 202.031†	-9.6	9.9	0.3204 µg/L	0.3204 ppb	15:42:09
3	Ni 231.604†	-55.2	28.3	0.3628 µg/L	0.3628 ppb	15:42:09
3	P 214.914†	-9.2	4.6	1.0970 µg/L	1.0970 ppb	15:42:09
3	Pb 220.353†	76.5	0.0	-0.0038 µg/L	-0.0038 ppb	15:42:09
3	S 181.975 Axial†	103.9	-2.5	-2.1112 µg/L	-2.1112 ppb	15:42:09
3	Sb 206.836†	82.7	7.7	1.0058 µg/L	1.0058 ppb	15:42:09
3	Se 196.026†	12.1	-0.7	-0.281 µg/L	-0.281 ppb	15:42:09
3	SiO2†	1758.6	10.8	1.1474 µg/L	1.1474 ppb	15:42:09
3	Si 251.611†	904.3	-2.9	-0.0533 µg/L	-0.0533 ppb	15:41:49
3	Sn 189.927†	5.6	5.8	0.4023 µg/L	0.4023 ppb	15:42:09
3	Ti 334.940†	997.4	216.2	0.2153 µg/L	0.2153 ppb	15:41:49
3	Tl 190.801†	-110.7	5.0	0.6765 µg/L	0.6765 ppb	15:42:09
3	U 409.014†	-107.9	110.1	6.9982 µg/L	6.9982 ppb	15:41:49
3	V 292.402†	297.8	-23.7	-0.1170 µg/L	-0.1170 ppb	15:41:49
3	Zn 213.857†	647.1	102.8	0.6405 µg/L	0.6405 ppb	15:42:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1768463.2	101.02 %	1.068			1.06%
Sc RADIAL	147952.8	99.9 %	0.82			0.82%
Y 371.029	1063162.3	100.83 %	1.090			1.08%
Ag 328.068†	164.8	0.6672 µg/L	0.38086	0.6672 ppb	0.38086	57.08%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.0	1.9872 µg/L	6.69239	1.9872 ppb	6.69239	336.77%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.0	0.6585 µg/L	0.61461	0.6585 ppb	0.61461	93.33%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	45.7	0.7476 µg/L	0.46342	0.7476 ppb	0.46342	61.98%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	31.7	0.1402 µg/L	0.11895	0.1402 ppb	0.11895	84.86%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	33.0	0.0097 µg/L	0.09652	0.0097 ppb	0.09652	993.88%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	24.7	1.5128 µg/L	0.51723	1.5128 ppb	0.51723	34.19%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	14.4	0.1004 µg/L	0.34380	0.1004 ppb	0.34380	342.30%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-2.1	-0.0291 µg/L	0.24652	-0.0291 ppb	0.24652	846.90%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	39.9	0.3442 µg/L	0.17397 0.3442 ppb 0.17397 50.55%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-61.8	-0.2624 µg/L	0.33297 -0.2624 ppb 0.33297 126.89%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	43.0	2.9168 µg/L	0.72241 2.9168 ppb 0.72241 24.77%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	66.8	27.015 µg/L	33.6465 27.015 ppb 33.6465 124.55%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-2.9	-1.1748 µg/L	7.79114 -1.1748 ppb 7.79114 663.18%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	198.4	0.2681 µg/L	0.22553 0.2681 ppb 0.22553 84.11%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	5.1	0.1637 µg/L	0.35074 0.1637 ppb 0.35074 214.29%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-7.4	-1.1350 µg/L	10.35072 -1.1350 ppb 10.35072 911.94%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	3.8	0.0489 µg/L	0.27253 0.0489 ppb 0.27253 556.84%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	6.5	1.5595 µg/L	0.85663 1.5595 ppb 0.85663 54.93%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	3.4	0.2134 µg/L	0.44113 0.2134 ppb 0.44113 206.72%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.2	-0.1438 µg/L	3.64808 -0.1438 ppb 3.64808 >999.9%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	4.6	0.5975 µg/L	0.43055 0.5975 ppb 0.43055 72.06%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.3	1.34 µg/L	1.416 1.34 ppb 1.416 105.39%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	19.6	2.1056 µg/L	2.19869 2.1056 ppb 2.19869 104.42%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	39.7	0.6437 µg/L	0.71485 0.6437 ppb 0.71485 111.06%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	0.4	0.0266 µg/L	0.36077 0.0266 ppb 0.36077 >999.9%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	17.2	0.0386 µg/L	0.22344 0.0386 ppb 0.22344 579.42%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	196.1	0.1986 µg/L	0.09680 0.1986 ppb 0.09680 48.75%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-0.5	-0.0598 µg/L	1.26426 -0.0598 ppb 1.26426 >999.9%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-5.4	-0.3326 µg/L	8.89089 -0.3326 ppb 8.89089 >999.9%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	29.3	0.1592 µg/L	0.24032 0.1592 ppb 0.24032 150.94%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	73.2	0.4575 µg/L	0.17477 0.4575 ppb 0.17477 38.20%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: 1202062393|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 323

Date Collected: 3/31/2010 15:42:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062393|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146391.3	146391.3	98.9 %		15:42:49
1	Al 396.153Radial†	-43.6	17.2	3.4538 µg/L	3.4538 ppb	15:43:09
1	Ca 317.933Radial†	752.3	153.7	9.4016 µg/L	9.4016 ppb	15:43:09
1	Fe 238.204 Radial†	575.4	445.2	30.173 µg/L	30.173 ppb	15:43:09
1	K 766.490 Radial†	1597.0	65.7	26.600 µg/L	26.600 ppb	15:42:49
1	Mg 279.077 IEC†	197.1	16.6	6.8022 µg/L	6.8022 ppb	15:43:09
1	Na 589.592 Radial†	1353.0	49.7	7.4330 µg/L	7.4330 ppb	15:42:49
1	Sr 421.552†	-171.8	104.3	0.2345 µg/L	0.2345 ppb	15:42:49
1	Sc 361.383	1767931.8	1767931.8	100.99 %		15:44:11
1	Y 371.029	1060515.8	1060515.8	100.58 %		15:44:11
1	Ag 328.068†	3900.4	117.3	0.4761 µg/L	0.4761 ppb	15:44:13
1	As 188.979†	-17.0	0.3	0.1019 µg/L	0.1019 ppb	15:44:33
1	B 249.677†	3381.4	65.4	1.0711 µg/L	1.0711 ppb	15:44:33
1	Ba 233.527†	-137.8	18.0	0.0788 µg/L	0.0788 ppb	15:44:33
1	Be 313.107†	-779.5	72.8	0.0221 µg/L	0.0221 ppb	15:44:13
1	Cd 226.502†	-138.4	-34.9	-0.2473 µg/L	-0.2473 ppb	15:44:33
1	Co 228.616†	-180.2	-11.3	-0.1565 µg/L	-0.1565 ppb	15:44:33
1	Cr 267.716†	176.8	13.5	0.1164 µg/L	0.1164 ppb	15:44:33
1	Cu 324.752†	2913.0	44.1	0.1929 µg/L	0.1929 ppb	15:44:13
1	Mn 257.610†	838.9	614.6	0.8303 µg/L	0.8303 ppb	15:44:33
1	Mo 202.031†	-36.8	-17.1	-0.5491 µg/L	-0.5491 ppb	15:44:33
1	Ni 231.604†	-77.6	5.5	0.0699 µg/L	0.0699 ppb	15:44:33
1	P 214.914†	14.6	28.0	6.7034 µg/L	6.7034 ppb	15:44:33
1	Pb 220.353†	92.2	16.5	1.0160 µg/L	1.0160 ppb	15:44:33
1	S 181.975 Axial†	124.8	19.4	16.169 µg/L	16.169 ppb	15:44:33
1	Sb 206.836†	81.1	7.1	0.9219 µg/L	0.9219 ppb	15:44:33
1	Se 196.026†	18.9	6.1	2.50 µg/L	2.50 ppb	15:44:33
1	SiO2†	2248.5	517.2	55.771 µg/L	55.771 ppb	15:44:33
1	Si 251.611†	2254.7	1345.2	21.895 µg/L	21.895 ppb	15:44:13
1	Sn 189.927†	-4.4	-4.1	-0.2826 µg/L	-0.2826 ppb	15:44:33
1	Ti 334.940†	1173.9	403.1	0.4069 µg/L	0.4069 ppb	15:44:13
1	Tl 190.801†	-118.1	-3.7	-0.4929 µg/L	-0.4929 ppb	15:44:33
1	U 409.014†	-195.0	22.5	1.4375 µg/L	1.4375 ppb	15:44:13
1	V 292.402†	337.2	18.9	0.0936 µg/L	0.0936 ppb	15:44:13
1	Zn 213.857†	5932.4	5344.1	33.414 µg/L	33.414 ppb	15:44:33
2	Sc RADIAL	150661.3	150661.3	102 %		15:43:11
2	Al 396.153Radial†	-18.2	43.4	8.6735 µg/L	8.6735 ppb	15:43:32
2	Ca 317.933Radial†	745.7	125.8	7.6909 µg/L	7.6909 ppb	15:43:32
2	Fe 238.204 Radial†	596.5	449.5	30.465 µg/L	30.465 ppb	15:43:32
2	K 766.490 Radial†	1556.0	-20.3	-8.2378 µg/L	-8.2378 ppb	15:43:11
2	Mg 279.077 IEC†	175.3	-10.5	-4.3612 µg/L	-4.3612 ppb	15:43:32
2	Na 589.592 Radial†	1439.2	95.5	14.351 µg/L	14.351 ppb	15:43:11
2	Sr 421.552†	-56.7	222.4	0.5002 µg/L	0.5002 ppb	15:43:11
2	Sc 361.383	1801379.7	1801379.7	102.90 %		15:44:36
2	Y 371.029	1079058.0	1079058.0	102.34 %		15:44:36
2	Ag 328.068†	3806.2	-46.0	-0.1977 µg/L	-0.1977 ppb	15:44:38
2	As 188.979†	-17.3	0.3	0.1191 µg/L	0.1191 ppb	15:44:58
2	B 249.677†	3360.1	-17.5	-0.2860 µg/L	-0.2860 ppb	15:44:58
2	Ba 233.527†	-140.1	18.3	0.0801 µg/L	0.0801 ppb	15:44:58
2	Be 313.107†	-957.7	-86.0	-0.0288 µg/L	-0.0288 ppb	15:44:38
2	Cd 226.502†	-92.6	12.1	0.0820 µg/L	0.0820 ppb	15:44:58
2	Co 228.616†	-170.8	1.2	0.0143 µg/L	0.0143 ppb	15:44:58
2	Cr 267.716†	183.9	17.2	0.1570 µg/L	0.1570 ppb	15:44:58
2	Cu 324.752†	2895.5	-26.5	-0.1170 µg/L	-0.1170 ppb	15:44:38
2	Mn 257.610†	852.1	612.0	0.8271 µg/L	0.8271 ppb	15:44:58
2	Mo 202.031†	-34.0	-13.6	-0.4380 µg/L	-0.4380 ppb	15:44:58
2	Ni 231.604†	-55.1	28.8	0.3682 µg/L	0.3682 ppb	15:44:58
2	P 214.914†	14.3	27.5	6.5982 µg/L	6.5982 ppb	15:44:58
2	Pb 220.353†	83.1	6.0	0.3765 µg/L	0.3765 ppb	15:44:58

2	S 181.975 Axial†	115.2	7.7	6.4685 µg/L	6.4685 ppb	15:44:58
2	Sb 206.836†	78.0	2.5	0.3259 µg/L	0.3259 ppb	15:44:58
2	Se 196.026†	4.9	-7.8	-3.16 µg/L	-3.16 ppb	15:44:58
2	SiO2†	2190.5	419.5	45.228 µg/L	45.228 ppb	15:44:58
2	Si 251.611†	2391.6	1436.8	23.380 µg/L	23.380 ppb	15:44:38
2	Sn 189.927†	4.4	4.6	0.3180 µg/L	0.3180 ppb	15:44:58
2	Ti 334.940†	841.3	58.3	0.0638 µg/L	0.0638 ppb	15:44:38
2	Tl 190.801†	-112.6	3.8	0.5190 µg/L	0.5190 ppb	15:44:58
2	U 409.014†	-392.3	-165.6	-10.534 µg/L	-10.534 ppb	15:44:38
2	V 292.402†	351.9	27.0	0.1301 µg/L	0.1301 ppb	15:44:38
2	Zn 213.857†	5907.8	5211.2	32.581 µg/L	32.581 ppb	15:44:58
3	Sc RADIAL	149181.0	149181.0	101 %		15:43:34
3	Al 396.153Radial†	-13.0	48.4	9.6756 µg/L	9.6756 ppb	15:43:54
3	Ca 317.933Radial†	776.9	163.9	10.026 µg/L	10.026 ppb	15:43:54
3	Fe 238.204 Radial†	595.0	453.8	30.757 µg/L	30.757 ppb	15:43:54
3	K 766.490 Radial†	1656.1	94.2	38.115 µg/L	38.115 ppb	15:43:34
3	Mg 279.077 IEC†	183.4	-0.7	-0.3114 µg/L	-0.3114 ppb	15:43:54
3	Na 589.592 Radial†	1219.3	-108.7	-16.351 µg/L	-16.351 ppb	15:43:34
3	Sr 421.552†	-291.9	-11.7	-0.0264 µg/L	-0.0264 ppb	15:43:34
3	Sc 361.383	1776145.9	1776145.9	101.46 %		15:45:00
3	Y 371.029	1065034.3	1065034.3	101.01 %		15:45:00
3	Ag 328.068†	3944.2	142.6	0.5320 µg/L	0.5320 ppb	15:45:02
3	As 188.979†	-9.3	7.9	2.6683 µg/L	2.6683 ppb	15:45:22
3	B 249.677†	3366.4	35.1	0.5760 µg/L	0.5760 ppb	15:45:22
3	Ba 233.527†	-133.7	22.7	0.0994 µg/L	0.0994 ppb	15:45:22
3	Be 313.107†	-969.3	-110.6	-0.0433 µg/L	-0.0433 ppb	15:45:02
3	Cd 226.502†	-135.5	-31.4	-0.2230 µg/L	-0.2230 ppb	15:45:22
3	Co 228.616†	-194.9	-25.0	-0.3436 µg/L	-0.3436 ppb	15:45:22
3	Cr 267.716†	211.4	46.8	0.4308 µg/L	0.4308 ppb	15:45:22
3	Cu 324.752†	2945.9	63.2	0.2444 µg/L	0.2444 ppb	15:45:02
3	Mn 257.610†	833.1	605.0	0.8175 µg/L	0.8175 ppb	15:45:22
3	Mo 202.031†	-37.9	-18.0	-0.5784 µg/L	-0.5784 ppb	15:45:22
3	Ni 231.604†	-86.3	-2.8	-0.0360 µg/L	-0.0360 ppb	15:45:22
3	P 214.914†	-4.7	9.0	2.1539 µg/L	2.1539 ppb	15:45:22
3	Pb 220.353†	80.4	4.5	0.2999 µg/L	0.2999 ppb	15:45:22
3	S 181.975 Axial†	123.9	17.9	14.956 µg/L	14.956 ppb	15:45:22
3	Sb 206.836†	89.7	15.2	1.9804 µg/L	1.9804 ppb	15:45:22
3	Se 196.026†	17.6	4.8	1.93 µg/L	1.93 ppb	15:45:22
3	SiO2†	2200.6	459.7	49.560 µg/L	49.560 ppb	15:45:22
3	Si 251.611†	2303.6	1383.1	22.505 µg/L	22.505 ppb	15:45:02
3	Sn 189.927†	10.5	10.6	0.7372 µg/L	0.7372 ppb	15:45:22
3	Ti 334.940†	989.6	216.1	0.2328 µg/L	0.2328 ppb	15:45:02
3	Tl 190.801†	-127.3	-12.3	-1.6626 µg/L	-1.6626 ppb	15:45:22
3	U 409.014†	-763.4	-536.7	-34.164 µg/L	-34.164 ppb	15:45:02
3	V 292.402†	300.0	-19.3	-0.1342 µg/L	-0.1342 ppb	15:45:02
3	Zn 213.857†	5870.2	5255.6	32.861 µg/L	32.861 ppb	15:45:22

Mean Data: 1202062393|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1781819.2	101.78 %		0.996			0.98%
Sc RADIAL	148744.5	100 %		1.5			1.46%
Y 371.029	1068202.7	101.31 %		0.917			0.91%
Ag 328.068†	71.3	0.2701 µg/L		0.40610	0.2701 ppb	0.40610	150.34%
Al 396.153Radial†	36.3	7.2676 µg/L		3.34067	7.2676 ppb	3.34067	45.97%
As 188.979†	2.9	0.9631 µg/L		1.47678	0.9631 ppb	1.47678	153.33%
B 249.677†	27.7	0.4537 µg/L		0.68678	0.4537 ppb	0.68678	151.37%
Ba 233.527†	19.6	0.0861 µg/L		0.01156	0.0861 ppb	0.01156	13.42%
Be 313.107†	-41.3	-0.0167 µg/L		0.03434	-0.0167 ppb	0.03434	206.22%
Ca 317.933Radial†	147.8	9.0394 µg/L		1.20881	9.0394 ppb	1.20881	13.37%
Cd 226.502†	-18.0	-0.1295 µg/L		0.18351	-0.1295 ppb	0.18351	141.74%
Co 228.616†	-11.7	-0.1619 µg/L		0.17904	-0.1619 ppb	0.17904	110.57%
Cr 267.716†	25.8	0.2347 µg/L		0.17102	0.2347 ppb	0.17102	72.87%
Cu 324.752†	26.9	0.1068 µg/L		0.19549	0.1068 ppb	0.19549	183.03%
Fe 238.204 Radial†	449.5	30.465 µg/L		0.2918	30.465 ppb	0.2918	0.96%
K 766.490 Radial†	46.5	18.826 µg/L		24.1346	18.826 ppb	24.1346	128.20%
Mg 279.077 IEC†	1.8	0.7099 µg/L		5.65137	0.7099 ppb	5.65137	796.11%
Mn 257.610†	610.5	0.8250 µg/L		0.00664	0.8250 ppb	0.00664	0.81%
Mo 202.031†	-16.2	-0.5218 µg/L		0.07408	-0.5218 ppb	0.07408	14.20%
Na 589.592 Radial†	12.2	1.8110 µg/L		16.10479	1.8110 ppb	16.10479	889.26%

Ni 231.604†	10.5	0.1340 µg/L	0.20956	0.1340 ppb	0.20956	156.36%
P 214.914†	21.5	5.1518 µg/L	2.59678	5.1518 ppb	2.59678	50.41%
Pb 220.353†	9.0	0.5641 µg/L	0.39320	0.5641 ppb	0.39320	69.70%
S 181.975 Axial†	15.0	12.531 µg/L	5.2855	12.531 ppb	5.2855	42.18%
Sb 206.836†	8.3	1.0761 µg/L	0.83792	1.0761 ppb	0.83792	77.87%
Se 196.026†	1.0	0.420 µg/L	3.1160	0.420 ppb	3.1160	741.18%
SiO2†	465.4	50.186 µg/L	5.2993	50.186 ppb	5.2993	10.56%
Si 251.611†	1388.4	22.594 µg/L	0.7465	22.594 ppb	0.7465	3.30%
Sn 189.927†	3.7	0.2576 µg/L	0.51258	0.2576 ppb	0.51258	199.02%
Sr 421.552†	105.0	0.2361 µg/L	0.26329	0.2361 ppb	0.26329	111.51%
Ti 334.940†	225.8	0.2345 µg/L	0.17155	0.2345 ppb	0.17155	73.16%
Tl 190.801†	-4.1	-0.5455 µg/L	1.09174	-0.5455 ppb	1.09174	200.14%
U 409.014†	-226.6	-14.420 µg/L	18.1162	-14.420 ppb	18.1162	125.63%
V 292.402†	8.9	0.0298 µg/L	0.14322	0.0298 ppb	0.14322	480.06%
Zn 213.857†	5270.3	32.952 µg/L	0.4239	32.952 ppb	0.4239	1.29%

Sequence No.: 30

Sample ID: 1202062394|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 324

Date Collected: 3/31/2010 15:45:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062394|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151709.6	151709.6	102 %		15:46:02
1	Al 396.153Radial†	577935.9	564190.2	112490 µg/L	112490 ppb	15:46:02
1	Ca 317.933Radial†	1756357.3	1713790.3	104800 µg/L	104800 ppb	15:46:00
1	Fe 238.204 Radial†	3112659.9	3038160.9	205930 µg/L	205930 ppb	15:46:00
1	K 766.490 Radial†	114667.5	110378.3	44621 µg/L	44621 ppb	15:46:02
1	Mg 279.077 IEC†	102310.7	99683.7	40944 µg/L	40944 ppb	15:46:02
1	Na 589.592 Radial†	72467.1	69416.8	10383 µg/L	10383 ppb	15:46:02
1	Sr 421.552†	1078964.8	1053466.2	2368.6 µg/L	2368.6 ppb	15:46:00
1	Sc 361.383	1794163.2	1794163.2	102.49 %		15:46:18
1	Y 371.029	1162504.7	1162504.7	110.25 %		15:46:18
1	Ag 328.068†	78986.6	73322.7	306.00 µg/L	306.00 ppb	15:46:18
1	As 188.979†	3101.8	3043.6	1090.9 µg/L	1090.9 ppb	15:46:21
1	B 249.677†	102336.6	96567.4	1577.3 µg/L	1577.3 ppb	15:46:18
1	Ba 233.527†	452905.4	442056.4	1948.4 µg/L	1948.4 ppb	15:46:18
1	Be 313.107†	2697391.2	2632702.2	783.77 µg/L	783.77 ppb	15:46:16
1	Cd 226.502†	94212.3	92025.5	623.68 µg/L	623.68 ppb	15:46:18
1	Co 228.616†	72257.6	70669.2	959.49 µg/L	959.49 ppb	15:46:18
1	Cr 267.716†	300660.7	293194.5	2531.1 µg/L	2531.1 ppb	15:46:18
1	Cu 324.752†	456898.1	442957.4	1913.5 µg/L	1913.5 ppb	15:46:18
1	Mn 257.610†	4119841.9	4019533.3	5430.0 µg/L	5430.0 ppb	15:46:16
1	Mo 202.031†	16132.9	15760.3	517.15 µg/L	517.15 ppb	15:46:21
1	Ni 231.604†	114148.9	111457.9	1426.9 µg/L	1426.9 ppb	15:46:18
1	P 214.914†	37586.0	36686.4	8669.3 µg/L	8669.3 ppb	15:46:21
1	Pb 220.353†	14024.6	13609.1	852.97 µg/L	852.97 ppb	15:46:21
1	S 181.975 Axial†	4847.5	4625.6	3870.6 µg/L	3870.6 ppb	15:46:21
1	Sb 206.836†	10405.2	10079.2	1290.1 µg/L	1290.1 ppb	15:46:21
1	Se 196.026†	7175.3	6988.4	2900 µg/L	2900 ppb	15:46:21
1	SiO2†	650982.5	633457.5	68261 µg/L	68261 ppb	15:46:18
1	Si 251.611†	2000558.6	1951067.2	31729 µg/L	31729 ppb	15:46:18
1	Sn 189.927†	14723.9	14366.5	1017.2 µg/L	1017.2 ppb	15:46:21
1	Ti 334.940†	6725647.7	6561487.3	6637.0 µg/L	6637.0 ppb	15:46:16
1	Tl 190.801†	8417.7	8326.4	1215.5 µg/L	1215.5 ppb	15:46:21
1	U 409.014†	-6363.7	-5993.5	-316.21 µg/L	-316.21 ppb	15:46:18
1	V 292.402†	250590.4	244187.2	1295.7 µg/L	1295.7 ppb	15:46:18
1	Zn 213.857†	1016245.0	991025.0	6168.6 µg/L	6168.6 ppb	15:46:18
2	Sc RADIAL	153283.6	153283.6	104 %		15:46:06
2	Al 396.153Radial†	583775.5	564038.8	112460 µg/L	112460 ppb	15:46:06
2	Ca 317.933Radial†	1737869.6	1678325.0	102630 µg/L	102630 ppb	15:46:04
2	Fe 238.204 Radial†	3079265.9	2974700.0	201630 µg/L	201630 ppb	15:46:04
2	K 766.490 Radial†	116153.4	110664.5	44737 µg/L	44737 ppb	15:46:06
2	Mg 279.077 IEC†	103881.3	100175.5	41151 µg/L	41151 ppb	15:46:06
2	Na 589.592 Radial†	73588.0	69773.4	10436 µg/L	10436 ppb	15:46:06
2	Sr 421.552†	1068571.5	1032610.5	2321.7 µg/L	2321.7 ppb	15:46:04
2	Sc 361.383	1767154.4	1767154.4	100.95 %		15:46:26
2	Y 371.029	1145704.9	1145704.9	108.66 %		15:46:26
2	Ag 328.068†	78365.6	73885.5	308.31 µg/L	308.31 ppb	15:46:26
2	As 188.979†	3055.8	3044.2	1090.2 µg/L	1090.2 ppb	15:46:28
2	B 249.677†	100571.9	96345.4	1573.7 µg/L	1573.7 ppb	15:46:26
2	Ba 233.527†	446181.0	442149.1	1948.9 µg/L	1948.9 ppb	15:46:26
2	Be 313.107†	2697219.3	2672756.7	795.69 µg/L	795.69 ppb	15:46:24
2	Cd 226.502†	92698.2	91930.6	623.47 µg/L	623.47 ppb	15:46:26
2	Co 228.616†	71069.3	70569.6	958.36 µg/L	958.36 ppb	15:46:26
2	Cr 267.716†	295583.1	292648.2	2526.2 µg/L	2526.2 ppb	15:46:26
2	Cu 324.752†	450032.7	442969.8	1912.9 µg/L	1912.9 ppb	15:46:26
2	Mn 257.610†	4116067.0	4077230.9	5507.9 µg/L	5507.9 ppb	15:46:24
2	Mo 202.031†	16176.3	16043.9	526.12 µg/L	526.12 ppb	15:46:28
2	Ni 231.604†	112268.7	111297.6	1424.8 µg/L	1424.8 ppb	15:46:26
2	P 214.914†	37932.4	37590.1	8889.1 µg/L	8889.1 ppb	15:46:28
2	Pb 220.353†	14163.8	13956.1	874.76 µg/L	874.76 ppb	15:46:28

2	S 181.975 Axial†	4892.4	4742.3	3968.3 µg/L	3968.3 ppb	15:46:28
2	Sb 206.836†	10418.9	10247.9	1312.5 µg/L	1312.5 ppb	15:46:28
2	Se 196.026†	7302.1	7221.0	3000 µg/L	3000 ppb	15:46:28
2	SiO2†	641533.9	633805.3	68298 µg/L	68298 ppb	15:46:26
2	Si 251.611†	1968801.2	1949441.1	31703 µg/L	31703 ppb	15:46:26
2	Sn 189.927†	14794.9	14656.3	1037.7 µg/L	1037.7 ppb	15:46:28
2	Ti 334.940†	6724097.5	6660247.7	6736.9 µg/L	6736.9 ppb	15:46:24
2	Tl 190.801†	8523.4	8556.6	1248.0 µg/L	1248.0 ppb	15:46:28
2	U 409.014†	-6540.1	-6263.1	-331.98 µg/L	-331.98 ppb	15:46:26
2	V 292.402†	246795.7	244165.1	1296.0 µg/L	1296.0 ppb	15:46:26
2	Zn 213.857†	1000643.1	990724.3	6167.2 µg/L	6167.2 ppb	15:46:26
3	Sc RADIAL	154632.8	154632.8	104 %		15:46:11
3	Al 396.153Radial†	587223.2	562419.8	112140 µg/L	112140 ppb	15:46:11
3	Ca 317.933Radial†	1748994.2	1674329.7	102390 µg/L	102390 ppb	15:46:09
3	Fe 238.204 Radial†	3100643.0	2969216.4	201260 µg/L	201260 ppb	15:46:09
3	K 766.490 Radial†	116591.8	110105.2	44511 µg/L	44511 ppb	15:46:11
3	Mg 279.077 IEC†	104505.4	99897.6	41036 µg/L	41036 ppb	15:46:11
3	Na 589.592 Radial†	73762.1	69319.8	10368 µg/L	10368 ppb	15:46:11
3	Sr 421.552†	1075007.9	1029767.2	2315.3 µg/L	2315.3 ppb	15:46:09
3	Sc 361.383	1796063.3	1796063.3	102.60 %		15:46:34
3	Y 371.029	1163572.5	1163572.5	110.36 %		15:46:34
3	Ag 328.068†	79547.2	73787.6	307.95 µg/L	307.95 ppb	15:46:34
3	As 188.979†	3164.3	3101.3	1109.3 µg/L	1109.3 ppb	15:46:36
3	B 249.677†	102780.0	96894.0	1582.7 µg/L	1582.7 ppb	15:46:34
3	Ba 233.527†	454418.3	443063.5	1952.9 µg/L	1952.9 ppb	15:46:34
3	Be 313.107†	2760689.0	2691612.5	801.31 µg/L	801.31 ppb	15:46:32
3	Cd 226.502†	94855.6	92555.3	627.88 µg/L	627.88 ppb	15:46:34
3	Co 228.616†	72559.9	70889.3	962.76 µg/L	962.76 ppb	15:46:34
3	Cr 267.716†	301342.5	293548.7	2534.0 µg/L	2534.0 ppb	15:46:34
3	Cu 324.752†	457760.0	443325.8	1914.3 µg/L	1914.3 ppb	15:46:34
3	Mn 257.610†	4212125.2	4105226.8	5545.8 µg/L	5545.8 ppb	15:46:32
3	Mo 202.031†	16346.3	15951.6	523.13 µg/L	523.13 ppb	15:46:36
3	Ni 231.604†	114695.6	111872.9	1432.2 µg/L	1432.2 ppb	15:46:34
3	P 214.914†	38284.7	37328.7	8826.5 µg/L	8826.5 ppb	15:46:36
3	Pb 220.353†	14371.7	13932.9	873.34 µg/L	873.34 ppb	15:46:36
3	S 181.975 Axial†	5052.5	4820.3	4033.4 µg/L	4033.4 ppb	15:46:36
3	Sb 206.836†	10480.7	10142.0	1298.4 µg/L	1298.4 ppb	15:46:36
3	Se 196.026†	7347.1	7148.4	2970 µg/L	2970 ppb	15:46:36
3	SiO2†	653306.8	635051.0	68432 µg/L	68432 ppb	15:46:34
3	Si 251.611†	2006204.8	1954505.4	31785 µg/L	31785 ppb	15:46:34
3	Sn 189.927†	14943.8	14565.6	1031.5 µg/L	1031.5 ppb	15:46:36
3	Ti 334.940†	6864997.3	6690365.2	6767.3 µg/L	6767.3 ppb	15:46:32
3	Tl 190.801†	8655.3	8549.3	1247.4 µg/L	1247.4 ppb	15:46:36
3	U 409.014†	-6497.1	-6116.9	-322.25 µg/L	-322.25 ppb	15:46:34
3	V 292.402†	251218.7	244541.0	1298.0 µg/L	1298.0 ppb	15:46:34
3	Zn 213.857†	1020647.7	994267.3	6189.4 µg/L	6189.4 ppb	15:46:34

Mean Data: 1202062394|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1785793.7	102.01 %	0.924			0.91%
Sc RADIAL	153208.7	103 %	1.0			0.95%
Y 371.029	1157260.7	109.76 %	0.950			0.87%
Ag 328.068†	73665.3	307.42 µg/L	1.244	307.42 ppb	1.244	0.40%
Al 396.153Radial†	563549.6	112370 µg/L	195.8	112370 ppb	195.8	0.17%
As 188.979†	3063.0	1096.8 µg/L	10.81	1096.8 ppb	10.81	0.99%
B 249.677†	96602.3	1577.9 µg/L	4.51	1577.9 ppb	4.51	0.29%
Ba 233.527†	442423.0	1950.1 µg/L	2.48	1950.1 ppb	2.48	0.13%
Be 313.107†	2665690.4	793.59 µg/L	8.956	793.59 ppb	8.956	1.13%
Ca 317.933Radial†	1688815.0	103280 µg/L	1328.3	103280 ppb	1328.3	1.29%
Cd 226.502†	92170.5	625.01 µg/L	2.492	625.01 ppb	2.492	0.40%
Co 228.616†	70709.4	960.20 µg/L	2.285	960.20 ppb	2.285	0.24%
Cr 267.716†	293130.5	2530.4 µg/L	3.91	2530.4 ppb	3.91	0.15%
Cu 324.752†	443084.4	1913.6 µg/L	0.74	1913.6 ppb	0.74	0.04%
Fe 238.204 Radial†	2994025.8	202940 µg/L	2597.4	202940 ppb	2597.4	1.28%
K 766.490 Radial†	110382.7	44623 µg/L	113.1	44623 ppb	113.1	0.25%
Mg 279.077 IEC†	99919.0	41044 µg/L	103.6	41044 ppb	103.6	0.25%
Mn 257.610†	4067330.3	5494.5 µg/L	59.06	5494.5 ppb	59.06	1.07%
Mo 202.031†	15918.6	522.13 µg/L	4.569	522.13 ppb	4.569	0.87%
Na 589.592 Radial†	69503.3	10396 µg/L	35.8	10396 ppb	35.8	0.34%

Ni 231.604†	111542.8	1428.0 µg/L	3.80	1428.0 ppb	3.80	0.27%
P 214.914†	37201.7	8794.9 µg/L	113.24	8794.9 ppb	113.24	1.29%
Pb 220.353†	13832.7	867.02 µg/L	12.195	867.02 ppb	12.195	1.41%
S 181.975 Axial†	4729.4	3957.4 µg/L	81.97	3957.4 ppb	81.97	2.07%
Sb 206.836†	10156.4	1300.3 µg/L	11.32	1300.3 ppb	11.32	0.87%
Se 196.026†	7119.3	2950 µg/L	47.4	2950 ppb	47.4	1.60%
SiO2†	634104.6	68330 µg/L	90.2	68330 ppb	90.2	0.13%
Si 251.611†	1951671.2	31739 µg/L	42.1	31739 ppb	42.1	0.13%
Sn 189.927†	14529.5	1028.8 µg/L	10.47	1028.8 ppb	10.47	1.02%
Sr 421.552†	1038614.6	2335.2 µg/L	29.09	2335.2 ppb	29.09	1.25%
Ti 334.940†	6637366.7	6713.7 µg/L	68.17	6713.7 ppb	68.17	1.02%
Tl 190.801†	8477.4	1236.9 µg/L	18.56	1236.9 ppb	18.56	1.50%
U 409.014†	-6124.5	-323.48 µg/L	7.957	-323.48 ppb	7.957	2.46%
Concentration less than lower limit for U 409.014.						
V 292.402†	244297.8	1296.6 µg/L	1.27	1296.6 ppb	1.27	0.10%
Zn 213.857†	992005.5	6175.0 µg/L	12.42	6175.0 ppb	12.42	0.20%

Sequence No.: 31

Sample ID: 248511001|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 325

Date Collected: 3/31/2010 15:46:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511001|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152183.1	152183.1	103 %		15:47:17
1	Al 396.153Radial†	186816.6	181847.4	36266 µg/L	36266 ppb	15:47:17
1	Ca 317.933Radial†	368764.1	358227.1	21907 µg/L	21907 ppb	15:47:17
1	Fe 238.204 Radial†	991202.9	964375.8	65366 µg/L	65366 ppb	15:47:15
1	K 766.490 Radial†	25422.8	23188.4	9371.6 µg/L	9371.6 ppb	15:47:17
1	Mg 279.077 IEC†	21526.0	20763.6	8506.6 µg/L	8506.6 ppb	15:47:17
1	Na 589.592 Radial†	4612.7	3169.4	467.53 µg/L	467.53 ppb	15:47:17
1	Sr 421.552†	125212.7	122119.2	274.49 µg/L	274.49 ppb	15:47:17
1	Sc 361.383	1808455.8	1808455.8	103.31 %		15:47:30
1	Y 371.029	1194379.3	1194379.3	113.28 %		15:47:30
1	Ag 328.068†	3720.9	-143.0	-1.8362 µg/L	-1.8362 ppb	15:47:30
1	As 188.979†	-0.5	16.6	20.814 µg/L	20.814 ppb	15:47:50
1	B 249.677†	6782.8	3282.9	53.679 µg/L	53.679 ppb	15:47:30
1	Ba 233.527†	96950.1	94001.5	413.89 µg/L	413.89 ppb	15:47:30
1	Be 313.107†	24428.8	24491.6	7.2210 µg/L	7.2210 ppb	15:47:30
1	Cd 226.502†	1148.2	1213.6	1.6502 µg/L	1.6502 ppb	15:47:50
1	Co 228.616†	1084.7	1217.2	13.679 µg/L	13.679 ppb	15:47:50
1	Cr 267.716†	7479.0	7078.1	62.556 µg/L	62.556 ppb	15:47:50
1	Cu 324.752†	10891.8	7702.9	42.295 µg/L	42.295 ppb	15:47:30
1	Mn 257.610†	2386204.5	2309614.7	3120.8 µg/L	3120.8 ppb	15:47:30
1	Mo 202.031†	-24.6	-4.4	2.6234 µg/L	2.6234 ppb	15:47:50
1	Ni 231.604†	3707.7	3671.3	47.000 µg/L	47.000 ppb	15:47:50
1	P 214.914†	5736.0	5566.0	1298.6 µg/L	1298.6 ppb	15:47:50
1	Pb 220.353†	1100.3	990.3	64.407 µg/L	64.407 ppb	15:47:50
1	S 181.975 Axial†	1260.5	1116.0	932.81 µg/L	932.81 ppb	15:47:50
1	Sb 206.836†	84.3	8.4	-0.7538 µg/L	-0.7538 ppb	15:47:50
1	Se 196.026†	-51.7	-62.6	-2.93 µg/L	-2.93 ppb	15:47:50
1	SiO2†	252748.0	242949.2	26191 µg/L	26191 ppb	15:47:30
1	Si 251.611†	776384.0	750647.4	12213 µg/L	12213 ppb	15:47:30
1	Sn 189.927†	19.0	18.7	8.3436 µg/L	8.3436 ppb	15:47:50
1	Ti 334.940†	2136028.8	2066903.0	2091.1 µg/L	2091.1 ppb	15:47:30
1	Tl 190.801†	-358.2	-233.6	-2.1821 µg/L	-2.1821 ppb	15:47:50
1	U 409.014†	-4055.0	-3709.6	-225.58 µg/L	-225.58 ppb	15:47:30
1	V 292.402†	14533.0	13752.9	64.919 µg/L	64.919 ppb	15:47:50
1	Zn 213.857†	120658.6	116266.6	721.16 µg/L	721.16 ppb	15:47:30
2	Sc RADIAL	154005.4	154005.4	104 %		15:47:21
2	Al 396.153Radial†	188442.4	181259.7	36149 µg/L	36149 ppb	15:47:21
2	Ca 317.933Radial†	372411.4	357488.3	21861 µg/L	21861 ppb	15:47:21
2	Fe 238.204 Radial†	981615.9	943744.5	63968 µg/L	63968 ppb	15:47:19
2	K 766.490 Radial†	25669.0	23132.4	9348.9 µg/L	9348.9 ppb	15:47:21
2	Mg 279.077 IEC†	21660.7	20645.2	8458.9 µg/L	8458.9 ppb	15:47:21
2	Na 589.592 Radial†	4538.5	3045.0	448.86 µg/L	448.86 ppb	15:47:21
2	Sr 421.552†	126230.8	121656.5	273.45 µg/L	273.45 ppb	15:47:21
2	Sc 361.383	1808700.5	1808700.5	103.32 %		15:47:53
2	Y 371.029	1194069.9	1194069.9	113.25 %		15:47:53
2	Ag 328.068†	3897.9	27.7	-1.1451 µg/L	-1.1451 ppb	15:47:53
2	As 188.979†	10.4	27.2	24.041 µg/L	24.041 ppb	15:48:13
2	B 249.677†	6871.8	3368.1	55.075 µg/L	55.075 ppb	15:47:53
2	Ba 233.527†	97529.5	94549.6	416.32 µg/L	416.32 ppb	15:47:53
2	Be 313.107†	24317.3	24380.5	7.1861 µg/L	7.1861 ppb	15:47:53
2	Cd 226.502†	1145.9	1211.2	1.7806 µg/L	1.7806 ppb	15:48:13
2	Co 228.616†	1081.5	1213.9	13.709 µg/L	13.709 ppb	15:48:13
2	Cr 267.716†	7527.1	7123.6	62.901 µg/L	62.901 ppb	15:48:13
2	Cu 324.752†	10912.1	7721.2	42.163 µg/L	42.163 ppb	15:47:53
2	Mn 257.610†	2396935.4	2319688.2	3134.4 µg/L	3134.4 ppb	15:47:53
2	Mo 202.031†	-42.4	-21.6	2.0129 µg/L	2.0129 ppb	15:48:13
2	Ni 231.604†	3735.4	3697.6	47.337 µg/L	47.337 ppb	15:48:13
2	P 214.914†	5746.5	5575.5	1301.8 µg/L	1301.8 ppb	15:48:13
2	Pb 220.353†	1063.1	954.1	62.218 µg/L	62.218 ppb	15:48:13

2	S 181.975 Axial†	1266.7	1121.8	937.65 µg/L	937.65 ppb	15:48:13
2	Sb 206.836†	91.9	15.7	0.2048 µg/L	0.2048 ppb	15:48:13
2	Se 196.026†	-25.9	-37.6	6.71 µg/L	6.71 ppb	15:48:13
2	SiO2†	253737.0	243873.3	26291 µg/L	26291 ppb	15:47:53
2	Si 251.611†	779688.4	753743.9	12263 µg/L	12263 ppb	15:47:53
2	Sn 189.927†	2.0	2.2	7.2228 µg/L	7.2228 ppb	15:48:13
2	Ti 334.940†	2142474.5	2072861.8	2097.1 µg/L	2097.1 ppb	15:47:53
2	Tl 190.801†	-354.0	-229.4	-1.5249 µg/L	-1.5249 ppb	15:48:13
2	U 409.014†	-4153.1	-3804.0	-231.18 µg/L	-231.18 ppb	15:47:53
2	V 292.402†	14575.3	13791.9	65.262 µg/L	65.262 ppb	15:48:13
2	Zn 213.857†	121150.9	116727.3	724.19 µg/L	724.19 ppb	15:47:53
3	Sc RADIAL	152176.6	152176.6	103 %		15:47:25
3	Al 396.153Radial†	186172.9	181228.8	36143 µg/L	36143 ppb	15:47:25
3	Ca 317.933Radial†	366893.0	356421.8	21796 µg/L	21796 ppb	15:47:25
3	Fe 238.204 Radial†	984648.4	958039.0	64936 µg/L	64936 ppb	15:47:23
3	K 766.490 Radial†	25371.9	23140.0	9352.0 µg/L	9352.0 ppb	15:47:25
3	Mg 279.077 IEC†	21405.5	20647.2	8458.9 µg/L	8458.9 ppb	15:47:25
3	Na 589.592 Radial†	4598.2	3155.6	465.47 µg/L	465.47 ppb	15:47:25
3	Sr 421.552†	124766.0	121689.8	273.53 µg/L	273.53 ppb	15:47:25
3	Sc 361.383	1791440.1	1791440.1	102.33 %		15:48:15
3	Y 371.029	1184639.2	1184639.2	112.35 %		15:48:15
3	Ag 328.068†	3589.5	-237.2	-2.2166 µg/L	-2.2166 ppb	15:48:15
3	As 188.979†	8.9	25.8	23.804 µg/L	23.804 ppb	15:48:35
3	B 249.677†	6744.0	3307.4	54.080 µg/L	54.080 ppb	15:48:15
3	Ba 233.527†	96445.6	94399.9	415.65 µg/L	415.65 ppb	15:48:15
3	Be 313.107†	24055.7	24351.6	7.1765 µg/L	7.1765 ppb	15:48:15
3	Cd 226.502†	1167.7	1243.2	1.9033 µg/L	1.9033 ppb	15:48:35
3	Co 228.616†	1081.0	1223.5	13.790 µg/L	13.790 ppb	15:48:35
3	Cr 267.716†	7472.6	7140.6	63.083 µg/L	63.083 ppb	15:48:35
3	Cu 324.752†	10853.2	7765.3	42.489 µg/L	42.489 ppb	15:48:15
3	Mn 257.610†	2375485.5	2321079.6	3136.3 µg/L	3136.3 ppb	15:48:15
3	Mo 202.031†	-38.8	-18.5	2.1520 µg/L	2.1520 ppb	15:48:35
3	Ni 231.604†	3711.3	3708.9	47.481 µg/L	47.481 ppb	15:48:35
3	P 214.914†	5716.8	5600.0	1307.0 µg/L	1307.0 ppb	15:48:35
3	Pb 220.353†	1071.4	972.2	63.311 µg/L	63.311 ppb	15:48:35
3	S 181.975 Axial†	1270.3	1137.2	950.49 µg/L	950.49 ppb	15:48:35
3	Sb 206.836†	86.4	11.2	-0.4038 µg/L	-0.4038 ppb	15:48:35
3	Se 196.026†	-31.3	-43.2	4.80 µg/L	4.80 ppb	15:48:35
3	SiO2†	251369.2	243925.7	26296 µg/L	26296 ppb	15:48:15
3	Si 251.611†	772708.0	754193.6	12270 µg/L	12270 ppb	15:48:15
3	Sn 189.927†	5.9	6.0	7.5036 µg/L	7.5036 ppb	15:48:35
3	Ti 334.940†	2126475.2	2077206.7	2101.5 µg/L	2101.5 ppb	15:48:15
3	Tl 190.801†	-374.9	-253.2	-4.6946 µg/L	-4.6946 ppb	15:48:35
3	U 409.014†	-4165.4	-3854.8	-234.58 µg/L	-234.58 ppb	15:48:15
3	V 292.402†	14561.3	13914.1	65.810 µg/L	65.810 ppb	15:48:35
3	Zn 213.857†	119946.6	116680.3	723.80 µg/L	723.80 ppb	15:48:15

Mean Data: 248511001|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1802865.5	102.99 %	0.565			0.55%
Sc RADIAL	152788.3	103 %	0.7			0.69%
Y 371.029	1191029.4	112.96 %	0.525			0.46%
Ag 328.068†	-117.5	-1.7326 µg/L	0.54318	-1.7326 ppb	0.54318	31.35%
Al 396.153Radial†	181445.3	36186 µg/L	69.5	36186 ppb	69.5	0.19%
As 188.979†	23.2	22.886 µg/L	1.7987	22.886 ppb	1.7987	7.86%
B 249.677†	3319.4	54.278 µg/L	0.7187	54.278 ppb	0.7187	1.32%
Ba 233.527†	94317.0	415.29 µg/L	1.258	415.29 ppb	1.258	0.30%
Be 313.107†	24407.9	7.1945 µg/L	0.02340	7.1945 ppb	0.02340	0.33%
Ca 317.933Radial†	357379.0	21855 µg/L	55.5	21855 ppb	55.5	0.25%
Cd 226.502†	1222.7	1.7780 µg/L	0.12659	1.7780 ppb	0.12659	7.12%
Co 228.616†	1218.2	13.726 µg/L	0.0571	13.726 ppb	0.0571	0.42%
Cr 267.716†	7114.1	62.847 µg/L	0.2679	62.847 ppb	0.2679	0.43%
Cu 324.752†	7729.8	42.315 µg/L	0.1640	42.315 ppb	0.1640	0.39%
Fe 238.204 Radial†	955386.4	64757 µg/L	716.3	64757 ppb	716.3	1.11%
K 766.490 Radial†	23153.6	9357.5 µg/L	12.27	9357.5 ppb	12.27	0.13%
Mg 279.077 IEC†	20685.4	8474.8 µg/L	27.51	8474.8 ppb	27.51	0.32%
Mn 257.610†	2316794.2	3130.5 µg/L	8.46	3130.5 ppb	8.46	0.27%
Mo 202.031†	-14.9	2.2628 µg/L	0.31993	2.2628 ppb	0.31993	14.14%
Na 589.592 Radial†	3123.3	460.62 µg/L	10.235	460.62 ppb	10.235	2.22%

Ni 231.604†	3692.6	47.273 µg/L	0.2470	47.273 ppb	0.2470	0.52%
P 214.914†	5580.5	1302.5 µg/L	4.25	1302.5 ppb	4.25	0.33%
Pb 220.353†	972.2	63.312 µg/L	1.0947	63.312 ppb	1.0947	1.73%
S 181.975 Axial†	1125.0	940.32 µg/L	9.136	940.32 ppb	9.136	0.97%
Sb 206.836†	11.8	-0.3176 µg/L	0.48506	-0.3176 ppb	0.48506	152.72%
Se 196.026†	-47.8	2.86 µg/L	5.105	2.86 ppb	5.105	178.35%
SiO2†	243582.7	26259 µg/L	59.2	26259 ppb	59.2	0.23%
Si 251.611†	752861.6	12249 µg/L	31.4	12249 ppb	31.4	0.26%
Sn 189.927†	8.9	7.6900 µg/L	0.58320	7.6900 ppb	0.58320	7.58%
Sr 421.552†	121821.8	273.82 µg/L	0.580	273.82 ppb	0.580	0.21%
Ti 334.940†	2072323.8	2096.5 µg/L	5.24	2096.5 ppb	5.24	0.25%
Tl 190.801†	-238.7	-2.8005 µg/L	1.67292	-2.8005 ppb	1.67292	59.74%
U 409.014†	-3789.5	-230.45 µg/L	4.541	-230.45 ppb	4.541	1.97%
Concentration less than lower limit for U 409.014.						
V 292.402†	13819.6	65.330 µg/L	0.4492	65.330 ppb	0.4492	0.69%
Zn 213.857†	116558.1	723.05 µg/L	1.646	723.05 ppb	1.646	0.23%

Sequence No.: 32

Sample ID: 1202062395|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 326

Date Collected: 3/31/2010 15:48:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062395|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	155159.7	155159.7	105 %		15:49:15
1	Al 396.153Radial†	171407.7	163653.7	32638 µg/L	32638 ppb	15:49:15
1	Ca 317.933Radial†	328987.4	313380.2	19164 µg/L	19164 ppb	15:49:15
1	Fe 238.204 Radial†	904350.5	862980.2	58493 µg/L	58493 ppb	15:49:13
1	K 766.490 Radial†	22389.6	19819.0	8009.4 µg/L	8009.4 ppb	15:49:15
1	Mg 279.077 IEC†	17513.6	16532.4	6767.5 µg/L	6767.5 ppb	15:49:15
1	Na 589.592 Radial†	4042.4	2539.1	374.09 µg/L	374.09 ppb	15:49:15
1	Sr 421.552†	110018.6	105280.5	236.64 µg/L	236.64 ppb	15:49:15
1	Sc 361.383	1831006.4	1831006.4	104.59 %		15:49:28
1	Y 371.029	1209408.4	1209408.4	114.70 %		15:49:28
1	Ag 328.068†	3746.4	-163.0	-1.8257 µg/L	-1.8257 ppb	15:49:28
1	As 188.979†	8.7	25.4	22.276 µg/L	22.276 ppb	15:49:48
1	B 249.677†	6285.3	2726.4	44.573 µg/L	44.573 ppb	15:49:28
1	Ba 233.527†	85213.0	81624.2	359.37 µg/L	359.37 ppb	15:49:28
1	Be 313.107†	21105.8	21023.3	6.1844 µg/L	6.1844 ppb	15:49:28
1	Cd 226.502†	1068.7	1123.9	1.7451 µg/L	1.7451 ppb	15:49:48
1	Co 228.616†	1031.4	1153.3	13.110 µg/L	13.110 ppb	15:49:48
1	Cr 267.716†	8416.2	7884.9	69.369 µg/L	69.369 ppb	15:49:48
1	Cu 324.752†	9733.6	6465.7	35.979 µg/L	35.979 ppb	15:49:28
1	Mn 257.610†	2183163.3	2087044.9	2820.1 µg/L	2820.1 ppb	15:49:28
1	Mo 202.031†	-47.8	-26.3	1.6111 µg/L	1.6111 ppb	15:49:48
1	Ni 231.604†	3890.9	3802.3	48.677 µg/L	48.677 ppb	15:49:48
1	P 214.914†	4803.3	4605.9	1074.2 µg/L	1074.2 ppb	15:49:48
1	Pb 220.353†	1023.6	903.8	58.886 µg/L	58.886 ppb	15:49:48
1	S 181.975 Axial†	1035.1	885.4	740.09 µg/L	740.09 ppb	15:49:48
1	Sb 206.836†	82.1	5.2	-0.7695 µg/L	-0.7695 ppb	15:49:48
1	Se 196.026†	-38.1	-49.0	0.212 µg/L	0.212 ppb	15:49:48
1	SiO2†	246648.4	234104.3	25234 µg/L	25234 ppb	15:49:28
1	Si 251.611†	758388.9	724187.0	11781 µg/L	11781 ppb	15:49:28
1	Sn 189.927†	3481.5	3328.8	237.13 µg/L	237.13 ppb	15:49:48
1	Ti 334.940†	2027727.8	1937894.2	1960.6 µg/L	1960.6 ppb	15:49:28
1	Tl 190.801†	-341.8	-213.6	-1.6139 µg/L	-1.6139 ppb	15:49:48
1	U 409.014†	-4316.8	-3911.6	-239.39 µg/L	-239.39 ppb	15:49:28
1	V 292.402†	13212.1	12316.7	58.088 µg/L	58.088 ppb	15:49:48
1	Zn 213.857†	108572.3	103272.8	640.54 µg/L	640.54 ppb	15:49:28
2	Sc RADIAL	156348.5	156348.5	106 %		15:49:19
2	Al 396.153Radial†	171575.3	162568.5	32421 µg/L	32421 ppb	15:49:19
2	Ca 317.933Radial†	328873.0	310884.3	19011 µg/L	19011 ppb	15:49:19
2	Fe 238.204 Radial†	905243.4	857263.1	58106 µg/L	58106 ppb	15:49:17
2	K 766.490 Radial†	22542.4	19801.2	8002.3 µg/L	8002.3 ppb	15:49:19
2	Mg 279.077 IEC†	17622.4	16508.2	6757.9 µg/L	6757.9 ppb	15:49:19
2	Na 589.592 Radial†	4102.1	2566.3	378.18 µg/L	378.18 ppb	15:49:19
2	Sr 421.552†	110212.4	104665.6	235.26 µg/L	235.26 ppb	15:49:19
2	Sc 361.383	1825793.2	1825793.2	104.30 %		15:49:51
2	Y 371.029	1207671.9	1207671.9	114.54 %		15:49:51
2	Ag 328.068†	3812.6	-89.3	-1.5082 µg/L	-1.5082 ppb	15:49:51
2	As 188.979†	4.0	21.0	20.703 µg/L	20.703 ppb	15:50:11
2	B 249.677†	6461.1	2912.1	47.612 µg/L	47.612 ppb	15:49:51
2	Ba 233.527†	85599.1	82227.0	362.03 µg/L	362.03 ppb	15:49:51
2	Be 313.107†	21215.4	21186.0	6.2377 µg/L	6.2377 ppb	15:49:51
2	Cd 226.502†	1051.0	1109.9	1.6875 µg/L	1.6875 ppb	15:50:11
2	Co 228.616†	1042.8	1167.0	13.320 µg/L	13.320 ppb	15:50:11
2	Cr 267.716†	8383.3	7876.3	69.262 µg/L	69.262 ppb	15:50:11
2	Cu 324.752†	9848.6	6602.5	36.517 µg/L	36.517 ppb	15:49:51
2	Mn 257.610†	2197547.4	2106796.1	2846.8 µg/L	2846.8 ppb	15:49:51
2	Mo 202.031†	-39.0	-18.0	1.8632 µg/L	1.8632 ppb	15:50:11
2	Ni 231.604†	3839.5	3763.6	48.182 µg/L	48.182 ppb	15:50:11
2	P 214.914†	4811.5	4626.9	1079.4 µg/L	1079.4 ppb	15:50:11
2	Pb 220.353†	1009.1	892.7	58.210 µg/L	58.210 ppb	15:50:11

2	S 181.975 Axial†	1036.5	889.6	743.55 µg/L	743.55 ppb	15:50:11
2	Sb 206.836†	76.2	-0.1	-1.4617 µg/L	-1.4617 ppb	15:50:11
2	Se 196.026†	-35.7	-46.8	0.982 µg/L	0.982 ppb	15:50:11
2	SiO2†	248455.2	236510.0	25493 µg/L	25493 ppb	15:49:51
2	Si 251.611†	763999.4	731636.6	11902 µg/L	11902 ppb	15:49:51
2	Sn 189.927†	3476.3	3333.3	237.51 µg/L	237.51 ppb	15:50:11
2	Ti 334.940†	2042494.7	1957588.1	1980.5 µg/L	1980.5 ppb	15:49:51
2	Tl 190.801†	-338.1	-211.0	-0.9918 µg/L	-0.9918 ppb	15:50:11
2	U 409.014†	-4041.7	-3659.5	-223.09 µg/L	-223.09 ppb	15:49:51
2	V 292.402†	13193.6	12335.1	58.222 µg/L	58.222 ppb	15:50:11
2	Zn 213.857†	109416.7	104378.9	647.51 µg/L	647.51 ppb	15:49:51
3	Sc RADIAL	154364.4	154364.4	104 %		15:49:24
3	Al 396.153Radial†	170831.9	163944.1	32696 µg/L	32696 ppb	15:49:24
3	Ca 317.933Radial†	326452.3	312565.8	19114 µg/L	19114 ppb	15:49:24
3	Fe 238.204 Radial†	903629.1	866734.8	58748 µg/L	58748 ppb	15:49:22
3	K 766.490 Radial†	22272.1	19816.3	8008.3 µg/L	8008.3 ppb	15:49:24
3	Mg 279.077 IEC†	17392.7	16502.5	6755.0 µg/L	6755.0 ppb	15:49:24
3	Na 589.592 Radial†	3935.3	2456.2	361.66 µg/L	361.66 ppb	15:49:24
3	Sr 421.552†	109293.6	105125.9	236.29 µg/L	236.29 ppb	15:49:24
3	Sc 361.383	1807856.8	1807856.8	103.27 %		15:50:14
3	Y 371.029	1195404.2	1195404.2	113.37 %		15:50:14
3	Ag 328.068†	3964.0	93.5	-0.7824 µg/L	-0.7824 ppb	15:50:14
3	As 188.979†	3.9	20.9	20.830 µg/L	20.830 ppb	15:50:34
3	B 249.677†	6329.0	2845.6	46.525 µg/L	46.525 ppb	15:50:14
3	Ba 233.527†	84534.6	82010.5	361.07 µg/L	361.07 ppb	15:50:14
3	Be 313.107†	21098.3	21274.5	6.2603 µg/L	6.2603 ppb	15:50:14
3	Cd 226.502†	1071.0	1139.2	1.8260 µg/L	1.8260 ppb	15:50:34
3	Co 228.616†	1016.9	1151.8	13.078 µg/L	13.078 ppb	15:50:34
3	Cr 267.716†	8352.1	7925.9	69.723 µg/L	69.723 ppb	15:50:34
3	Cu 324.752†	9818.1	6666.7	36.873 µg/L	36.873 ppb	15:50:14
3	Mn 257.610†	2170913.7	2101910.7	2840.2 µg/L	2840.2 ppb	15:50:14
3	Mo 202.031†	-31.2	-10.8	2.1214 µg/L	2.1214 ppb	15:50:34
3	Ni 231.604†	3851.4	3811.7	48.797 µg/L	48.797 ppb	15:50:34
3	P 214.914†	4764.3	4626.9	1079.1 µg/L	1079.1 ppb	15:50:34
3	Pb 220.353†	994.5	888.1	57.925 µg/L	57.925 ppb	15:50:34
3	S 181.975 Axial†	1038.2	901.1	753.17 µg/L	753.17 ppb	15:50:34
3	Sb 206.836†	72.0	-3.5	-1.9097 µg/L	-1.9097 ppb	15:50:34
3	Se 196.026†	-30.5	-42.2	3.06 µg/L	3.06 ppb	15:50:34
3	SiO2†	245457.9	235971.1	25435 µg/L	25435 ppb	15:50:14
3	Si 251.611†	753432.8	728672.4	11854 µg/L	11854 ppb	15:50:14
3	Sn 189.927†	3462.8	3353.3	238.87 µg/L	238.87 ppb	15:50:34
3	Ti 334.940†	2015104.5	1950495.3	1973.4 µg/L	1973.4 ppb	15:50:14
3	Tl 190.801†	-355.0	-230.6	-3.7285 µg/L	-3.7285 ppb	15:50:34
3	U 409.014†	-4205.0	-3856.2	-235.76 µg/L	-235.76 ppb	15:50:14
3	V 292.402†	13187.1	12454.3	58.795 µg/L	58.795 ppb	15:50:34
3	Zn 213.857†	107880.0	103931.7	644.64 µg/L	644.64 ppb	15:50:14

Mean Data: 1202062395|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1821552.1	104.05 %	%	0.694			0.67%
Sc RADIAL	155290.9	105 %	%	0.7			0.64%
Y 371.029	1204161.5	114.21 %	%	0.724			0.63%
Ag 328.068†	-52.9	-1.3721 µg/L	µg/L	0.53479	-1.3721 ppb	0.53479	38.98%
Al 396.153Radial†	163388.8	32585 µg/L	µg/L	144.6	32585 ppb	144.6	0.44%
As 188.979†	22.4	21.270 µg/L	µg/L	0.8739	21.270 ppb	0.8739	4.11%
B 249.677†	2828.0	46.237 µg/L	µg/L	1.5399	46.237 ppb	1.5399	3.33%
Ba 233.527†	81953.9	360.82 µg/L	µg/L	1.349	360.82 ppb	1.349	0.37%
Be 313.107†	21161.3	6.2275 µg/L	µg/L	0.03894	6.2275 ppb	0.03894	0.63%
Ca 317.933Radial†	312276.8	19097 µg/L	µg/L	77.8	19097 ppb	77.8	0.41%
Cd 226.502†	1124.3	1.7529 µg/L	µg/L	0.06959	1.7529 ppb	0.06959	3.97%
Co 228.616†	1157.3	13.170 µg/L	µg/L	0.1317	13.170 ppb	0.1317	1.00%
Cr 267.716†	7895.7	69.451 µg/L	µg/L	0.2412	69.451 ppb	0.2412	0.35%
Cu 324.752†	6578.3	36.456 µg/L	µg/L	0.4498	36.456 ppb	0.4498	1.23%
Fe 238.204 Radial†	862326.0	58449 µg/L	µg/L	323.3	58449 ppb	323.3	0.55%
K 766.490 Radial†	19812.2	8006.7 µg/L	µg/L	3.83	8006.7 ppb	3.83	0.05%
Mg 279.077 IEC†	16514.3	6760.1 µg/L	µg/L	6.56	6760.1 ppb	6.56	0.10%
Mn 257.610†	2098583.9	2835.7 µg/L	µg/L	13.90	2835.7 ppb	13.90	0.49%
Mo 202.031†	-18.4	1.8652 µg/L	µg/L	0.25515	1.8652 ppb	0.25515	13.68%
Na 589.592 Radial†	2520.5	371.31 µg/L	µg/L	8.606	371.31 ppb	8.606	2.32%

Ni 231.604†	3792.5	48.552 µg/L	0.3258	48.552 ppb	0.3258	0.67%
P 214.914†	4619.9	1077.6 µg/L	2.92	1077.6 ppb	2.92	0.27%
Pb 220.353†	894.9	58.340 µg/L	0.4935	58.340 ppb	0.4935	0.85%
S 181.975 Axial†	892.0	745.60 µg/L	6.775	745.60 ppb	6.775	0.91%
Sb 206.836†	0.5	-1.3803 µg/L	0.57446	-1.3803 ppb	0.57446	41.62%
Se 196.026†	-46.0	1.42 µg/L	1.474	1.42 ppb	1.474	103.92%
SiO2†	235528.5	25388 µg/L	136.1	25388 ppb	136.1	0.54%
Si 251.611†	728165.3	11845 µg/L	61.0	11845 ppb	61.0	0.52%
Sn 189.927†	3338.5	237.84 µg/L	0.915	237.84 ppb	0.915	0.38%
Sr 421.552†	105024.0	236.06 µg/L	0.719	236.06 ppb	0.719	0.30%
Ti 334.940†	1948659.2	1971.5 µg/L	10.09	1971.5 ppb	10.09	0.51%
Tl 190.801†	-218.4	-2.1114 µg/L	1.43459	-2.1114 ppb	1.43459	67.94%
U 409.014†	-3809.1	-232.75 µg/L	8.556	-232.75 ppb	8.556	3.68%
Concentration less than lower limit for U 409.014.						
V 292.402†	12368.7	58.368 µg/L	0.3755	58.368 ppb	0.3755	0.64%
Zn 213.857†	103861.1	644.23 µg/L	3.502	644.23 ppb	3.502	0.54%

Sequence No.: 33

Sample ID: 1202062396|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 327

Date Collected: 3/31/2010 15:50:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062396|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	152181.8	152181.8	103 %		15:51:13
1	Al 396.153Radial†	337160.3	328145.6	65420 µg/L	65420 ppb	15:51:13
1	Ca 317.933Radial†	637568.4	619798.6	37902 µg/L	37902 ppb	15:51:13
1	Fe 238.204 Radial†	1211749.5	1178993.8	79913 µg/L	79913 ppb	15:51:11
1	K 766.490 Radial†	49094.9	46223.5	18683 µg/L	18683 ppb	15:51:13
1	Mg 279.077 IEC†	40576.4	39301.4	16151 µg/L	16151 ppb	15:51:13
1	Na 589.592 Radial†	39613.1	37227.7	5572.9 µg/L	5572.9 ppb	15:51:13
1	Sr 421.552†	416880.0	405936.2	912.70 µg/L	912.70 ppb	15:51:11
1	Sc 361.383	1803323.0	1803323.0	103.01 %		15:51:27
1	Y 371.029	1274355.9	1274355.9	120.86 %		15:51:27
1	Ag 328.068†	128569.7	121064.1	493.86 µg/L	493.86 ppb	15:51:27
1	As 188.979†	1579.0	1549.9	544.05 µg/L	544.05 ppb	15:51:29
1	B 249.677†	40356.7	35893.4	585.76 µg/L	585.76 ppb	15:51:27
1	Ba 233.527†	248757.7	241635.7	1065.5 µg/L	1065.5 ppb	15:51:27
1	Be 313.107†	1782908.0	1731600.5	515.66 µg/L	515.66 ppb	15:51:27
1	Cd 226.502†	75735.2	73622.0	507.60 µg/L	507.60 ppb	15:51:27
1	Co 228.616†	38392.8	37436.9	509.71 µg/L	509.71 ppb	15:51:29
1	Cr 267.716†	71791.8	69530.2	600.33 µg/L	600.33 ppb	15:51:27
1	Cu 324.752†	142286.4	135284.0	587.39 µg/L	587.39 ppb	15:51:27
1	Mn 257.610†	3391091.9	3291682.4	4447.6 µg/L	4447.6 ppb	15:51:27
1	Mo 202.031†	15377.8	14947.4	485.28 µg/L	485.28 ppb	15:51:29
1	Ni 231.604†	46175.1	44906.7	574.89 µg/L	574.89 ppb	15:51:29
1	P 214.914†	9779.9	9507.4	2245.5 µg/L	2245.5 ppb	15:51:29
1	Pb 220.353†	9638.4	9281.7	581.85 µg/L	581.85 ppb	15:51:29
1	S 181.975 Axial†	8207.7	7863.4	6576.7 µg/L	6576.7 ppb	15:51:29
1	Sb 206.836†	3406.2	3233.4	424.16 µg/L	424.16 ppb	15:51:29
1	Se 196.026†	1235.4	1186.7	509 µg/L	509 ppb	15:51:29
1	SiO2†	496127.6	479906.0	51696 µg/L	51696 ppb	15:51:27
1	Si 251.611†	1529672.6	1484040.5	24126 µg/L	24126 ppb	15:51:27
1	Sn 189.927†	27005.9	26216.2	1827.2 µg/L	1827.2 ppb	15:51:29
1	Ti 334.940†	3548598.9	3444039.0	3483.7 µg/L	3483.7 ppb	15:51:27
1	Tl 190.801†	3193.6	3213.4	484.48 µg/L	484.48 ppb	15:51:29
1	U 409.014†	3662.3	3770.8	286.38 µg/L	286.38 ppb	15:51:27
1	V 292.402†	116680.8	112952.8	600.97 µg/L	600.97 ppb	15:51:27
1	Zn 213.857†	231832.4	224520.9	1393.6 µg/L	1393.6 ppb	15:51:27
2	Sc RADIAL	152381.5	152381.5	103 %		15:51:17
2	Al 396.153Radial†	339831.1	330311.1	65852 µg/L	65852 ppb	15:51:17
2	Ca 317.933Radial†	642524.0	623801.4	38147 µg/L	38147 ppb	15:51:17
2	Fe 238.204 Radial†	1194932.1	1161105.2	78700 µg/L	78700 ppb	15:51:15
2	K 766.490 Radial†	49483.3	46538.4	18810 µg/L	18810 ppb	15:51:17
2	Mg 279.077 IEC†	40842.1	39507.9	16237 µg/L	16237 ppb	15:51:17
2	Na 589.592 Radial†	39778.1	37337.5	5589.3 µg/L	5589.3 ppb	15:51:17
2	Sr 421.552†	413276.2	401902.3	903.63 µg/L	903.63 ppb	15:51:15
2	Sc 361.383	1793206.1	1793206.1	102.44 %		15:51:33
2	Y 371.029	1267136.6	1267136.6	120.18 %		15:51:33
2	Ag 328.068†	127971.7	121184.4	494.36 µg/L	494.36 ppb	15:51:33
2	As 188.979†	1518.9	1499.9	526.99 µg/L	526.99 ppb	15:51:35
2	B 249.677†	40299.0	36058.1	588.47 µg/L	588.47 ppb	15:51:33
2	Ba 233.527†	247235.9	241512.4	1064.9 µg/L	1064.9 ppb	15:51:33
2	Be 313.107†	1766688.6	1725531.2	513.85 µg/L	513.85 ppb	15:51:33
2	Cd 226.502†	74871.1	73193.2	504.72 µg/L	504.72 ppb	15:51:33
2	Co 228.616†	37887.3	37153.7	505.89 µg/L	505.89 ppb	15:51:35
2	Cr 267.716†	71135.6	69282.8	598.15 µg/L	598.15 ppb	15:51:33
2	Cu 324.752†	141132.6	134937.0	585.75 µg/L	585.75 ppb	15:51:33
2	Mn 257.610†	3363976.9	3283784.1	4437.0 µg/L	4437.0 ppb	15:51:33
2	Mo 202.031†	15114.8	14774.8	479.67 µg/L	479.67 ppb	15:51:35
2	Ni 231.604†	45278.2	44284.0	566.92 µg/L	566.92 ppb	15:51:35
2	P 214.914†	9595.2	9380.7	2215.9 µg/L	2215.9 ppb	15:51:35
2	Pb 220.353†	9350.8	9053.6	567.76 µg/L	567.76 ppb	15:51:35

2	S 181.975 Axial†	8063.1	7767.2	6496.2 µg/L	6496.2 ppb	15:51:35
2	Sb 206.836†	3311.1	3159.2	414.37 µg/L	414.37 ppb	15:51:35
2	Se 196.026†	1223.3	1181.6	506 µg/L	506 ppb	15:51:35
2	SiO2†	491410.2	478018.0	51493 µg/L	51493 ppb	15:51:33
2	Si 251.611†	1515079.5	1478172.0	24031 µg/L	24031 ppb	15:51:33
2	Sn 189.927†	26540.1	25909.4	1805.9 µg/L	1805.9 ppb	15:51:35
2	Ti 334.940†	3522606.3	3438098.9	3477.7 µg/L	3477.7 ppb	15:51:33
2	Tl 190.801†	3161.6	3199.6	482.53 µg/L	482.53 ppb	15:51:35
2	U 409.014†	3853.7	3977.7	299.74 µg/L	299.74 ppb	15:51:33
2	V 292.402†	115963.5	112891.6	600.72 µg/L	600.72 ppb	15:51:33
2	Zn 213.857†	230154.2	224152.3	1391.5 µg/L	1391.5 ppb	15:51:33
3	Sc RADIAL	154065.3	154065.3	104 %		15:51:21
3	Al 396.153Radial†	341178.9	327997.4	65390 µg/L	65390 ppb	15:51:21
3	Ca 317.933Radial†	645631.2	619963.8	37913 µg/L	37913 ppb	15:51:21
3	Fe 238.204 Radial†	1195244.8	1148714.6	77861 µg/L	77861 ppb	15:51:19
3	K 766.490 Radial†	49802.7	46319.9	18722 µg/L	18722 ppb	15:51:21
3	Mg 279.077 IEC†	41032.8	39257.3	16134 µg/L	16134 ppb	15:51:21
3	Na 589.592 Radial†	39986.2	37115.1	5556.0 µg/L	5556.0 ppb	15:51:21
3	Sr 421.552†	412814.7	397069.5	892.76 µg/L	892.76 ppb	15:51:19
3	Sc 361.383	1777742.8	1777742.8	101.55 %		15:51:39
3	Y 371.029	1256532.0	1256532.0	119.17 %		15:51:39
3	Ag 328.068†	127077.8	121390.8	495.19 µg/L	495.19 ppb	15:51:39
3	As 188.979†	1542.4	1536.0	538.90 µg/L	538.90 ppb	15:51:41
3	B 249.677†	39817.9	35926.5	586.29 µg/L	586.29 ppb	15:51:39
3	Ba 233.527†	245101.7	241510.2	1064.9 µg/L	1064.9 ppb	15:51:39
3	Be 313.107†	1753866.3	1727906.7	514.56 µg/L	514.56 ppb	15:51:39
3	Cd 226.502†	74221.1	73188.9	504.78 µg/L	504.78 ppb	15:51:39
3	Co 228.616†	37935.5	37522.9	510.99 µg/L	510.99 ppb	15:51:41
3	Cr 267.716†	70581.3	69341.1	598.62 µg/L	598.62 ppb	15:51:39
3	Cu 324.752†	140316.7	135331.9	587.31 µg/L	587.31 ppb	15:51:39
3	Mn 257.610†	3335909.8	3284711.2	4438.2 µg/L	4438.2 ppb	15:51:39
3	Mo 202.031†	15167.1	14954.7	485.43 µg/L	485.43 ppb	15:51:41
3	Ni 231.604†	45432.9	44820.8	573.79 µg/L	573.79 ppb	15:51:41
3	P 214.914†	9701.0	9566.3	2261.0 µg/L	2261.0 ppb	15:51:41
3	Pb 220.353†	9371.7	9153.7	573.97 µg/L	573.97 ppb	15:51:41
3	S 181.975 Axial†	8101.3	7873.3	6585.0 µg/L	6585.0 ppb	15:51:41
3	Sb 206.836†	3358.3	3233.7	424.26 µg/L	424.26 ppb	15:51:41
3	Se 196.026†	1272.4	1240.4	530 µg/L	530 ppb	15:51:41
3	SiO2†	487652.4	478490.4	51543 µg/L	51543 ppb	15:51:39
3	Si 251.611†	1503168.4	1479308.2	24049 µg/L	24049 ppb	15:51:39
3	Sn 189.927†	26628.5	26221.8	1827.6 µg/L	1827.6 ppb	15:51:41
3	Ti 334.940†	3497951.1	3443732.9	3483.4 µg/L	3483.4 ppb	15:51:39
3	Tl 190.801†	3211.7	3275.8	492.90 µg/L	492.90 ppb	15:51:41
3	U 409.014†	3923.1	4078.7	306.27 µg/L	306.27 ppb	15:51:39
3	V 292.402†	114661.1	112593.8	599.27 µg/L	599.27 ppb	15:51:39
3	Zn 213.857†	227719.3	223709.0	1388.8 µg/L	1388.8 ppb	15:51:39

Mean Data: 1202062396|961532|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1791424.0	102.33	%	0.736				0.72%
Sc RADIAL	152876.2	103	%	0.7				0.68%
Y 371.029	1266008.2	120.07	%	0.850				0.71%
Ag 328.068†	121213.1	494.47	µg/L	0.675	494.47	ppb	0.675	0.14%
Al 396.153Radial†	328818.0	65554	µg/L	258.4	65554	ppb	258.4	0.39%
As 188.979†	1528.6	536.65	µg/L	8.749	536.65	ppb	8.749	1.63%
B 249.677†	35959.3	586.84	µg/L	1.434	586.84	ppb	1.434	0.24%
Ba 233.527†	241552.8	1065.1	µg/L	0.31	1065.1	ppb	0.31	0.03%
Be 313.107†	1728346.1	514.69	µg/L	0.908	514.69	ppb	0.908	0.18%
Ca 317.933Radial†	621187.9	37987	µg/L	138.5	37987	ppb	138.5	0.36%
Cd 226.502†	73334.7	505.70	µg/L	1.645	505.70	ppb	1.645	0.33%
Co 228.616†	37371.2	508.87	µg/L	2.653	508.87	ppb	2.653	0.52%
Cr 267.716†	69384.7	599.03	µg/L	1.149	599.03	ppb	1.149	0.19%
Cu 324.752†	135184.3	586.82	µg/L	0.925	586.82	ppb	0.925	0.16%
Fe 238.204 Radial†	1162937.8	78825	µg/L	1031.8	78825	ppb	1031.8	1.31%
K 766.490 Radial†	46360.6	18739	µg/L	65.2	18739	ppb	65.2	0.35%
Mg 279.077 IEC†	39355.5	16174	µg/L	55.0	16174	ppb	55.0	0.34%
Mn 257.610†	3286725.9	4440.9	µg/L	5.83	4440.9	ppb	5.83	0.13%
Mo 202.031†	14892.3	483.46	µg/L	3.283	483.46	ppb	3.283	0.68%
Na 589.592 Radial†	37226.8	5572.7	µg/L	16.66	5572.7	ppb	16.66	0.30%

Ni 231.604†	44670.5	571.87 µg/L	4.320	571.87 ppb	4.320	0.76%
P 214.914†	9484.8	2240.8 µg/L	22.92	2240.8 ppb	22.92	1.02%
Pb 220.353†	9163.0	574.53 µg/L	7.060	574.53 ppb	7.060	1.23%
S 181.975 Axial†	7834.6	6552.6 µg/L	49.02	6552.6 ppb	49.02	0.75%
Sb 206.836†	3208.8	420.93 µg/L	5.681	420.93 ppb	5.681	1.35%
Se 196.026†	1202.9	515 µg/L	12.9	515 ppb	12.9	2.51%
SiO2†	478804.8	51577 µg/L	105.7	51577 ppb	105.7	0.21%
Si 251.611†	1480506.9	24069 µg/L	50.6	24069 ppb	50.6	0.21%
Sn 189.927†	26115.8	1820.2 µg/L	12.39	1820.2 ppb	12.39	0.68%
Sr 421.552†	401636.0	903.03 µg/L	9.985	903.03 ppb	9.985	1.11%
Ti 334.940†	3441956.9	3481.6 µg/L	3.39	3481.6 ppb	3.39	0.10%
Tl 190.801†	3229.6	486.63 µg/L	5.510	486.63 ppb	5.510	1.13%
U 409.014†	3942.4	297.46 µg/L	10.141	297.46 ppb	10.141	3.41%
V 292.402†	112812.7	600.32 µg/L	0.916	600.32 ppb	0.916	0.15%
Zn 213.857†	224127.4	1391.3 µg/L	2.43	1391.3 ppb	2.43	0.17%

Sequence No.: 34

Sample ID: 1202062398|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 328

Date Collected: 3/31/2010 15:51:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062398|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151935.1	151935.1	103 %		15:52:20
1	Al 396.153Radial†	330764.2	322444.2	64284 µg/L	64284 ppb	15:52:20
1	Ca 317.933Radial†	653816.2	636641.9	38932 µg/L	38932 ppb	15:52:20
1	Fe 238.204 Radial†	1620592.4	1579391.1	107050 µg/L	107050 ppb	15:52:18
1	K 766.490 Radial†	51019.4	48176.9	19474 µg/L	19474 ppb	15:52:20
1	Mg 279.077 IEC†	43128.2	41852.6	17179 µg/L	17179 ppb	15:52:20
1	Na 589.592 Radial†	38927.1	36621.7	5481.2 µg/L	5481.2 ppb	15:52:20
1	Sr 421.552†	407272.3	397230.4	893.12 µg/L	893.12 ppb	15:52:18
1	Sc 361.383	1780120.4	1780120.4	101.69 %		15:52:48
1	Y 371.029	1241706.6	1241706.6	117.77 %		15:52:48
1	Ag 328.068†	121609.9	115846.5	472.25 µg/L	472.25 ppb	15:52:48
1	As 188.979†	1468.5	1461.2	519.81 µg/L	519.81 ppb	15:52:50
1	B 249.677†	38264.0	34346.0	560.50 µg/L	560.50 ppb	15:52:48
1	Ba 233.527†	258434.6	254299.5	1121.0 µg/L	1121.0 ppb	15:52:48
1	Be 313.107†	1676971.9	1649981.9	491.35 µg/L	491.35 ppb	15:52:48
1	Cd 226.502†	71555.3	70469.7	482.64 µg/L	482.64 ppb	15:52:48
1	Co 228.616†	36378.0	35941.3	487.86 µg/L	487.86 ppb	15:52:50
1	Cr 267.716†	64006.3	62782.3	542.97 µg/L	542.97 ppb	15:52:48
1	Cu 324.752†	134069.4	129003.8	564.66 µg/L	564.66 ppb	15:52:48
1	Mn 257.610†	3926777.3	3861383.9	5217.4 µg/L	5217.4 ppb	15:52:48
1	Mo 202.031†	14352.8	14133.9	460.16 µg/L	460.16 ppb	15:52:50
1	Ni 231.604†	41919.8	41306.3	528.80 µg/L	528.80 ppb	15:52:50
1	P 214.914†	10660.4	10497.0	2453.2 µg/L	2453.2 ppb	15:52:50
1	Pb 220.353†	9643.6	9408.7	589.98 µg/L	589.98 ppb	15:52:50
1	S 181.975 Axial†	7820.6	7586.6	6345.1 µg/L	6345.1 ppb	15:52:50
1	Sb 206.836†	3096.5	2971.8	387.60 µg/L	387.60 ppb	15:52:50
1	Se 196.026†	1080.2	1049.7	463 µg/L	463 ppb	15:52:50
1	SiO2†	481507.7	471806.3	50843 µg/L	50843 ppb	15:52:48
1	Si 251.611†	1483662.9	1458149.5	23714 µg/L	23714 ppb	15:52:48
1	Sn 189.927†	6877.0	6763.1	483.28 µg/L	483.28 ppb	15:52:50
1	Ti 334.940†	4454110.3	4379420.9	4430.0 µg/L	4430.0 ppb	15:52:48
1	Tl 190.801†	2898.7	2963.8	462.13 µg/L	462.13 ppb	15:52:50
1	U 409.014†	3233.3	3395.2	261.00 µg/L	261.00 ppb	15:52:48
1	V 292.402†	113822.9	111618.7	589.55 µg/L	589.55 ppb	15:52:48
1	Zn 213.857†	305473.5	299873.1	1862.7 µg/L	1862.7 ppb	15:52:48
2	Sc RADIAL	151498.9	151498.9	102 %		15:52:24
2	Al 396.153Radial†	331681.4	324268.9	64648 µg/L	64648 ppb	15:52:24
2	Ca 317.933Radial†	657007.1	641595.7	39235 µg/L	39235 ppb	15:52:24
2	Fe 238.204 Radial†	1587634.5	1551723.7	105180 µg/L	105180 ppb	15:52:22
2	K 766.490 Radial†	51293.6	48588.0	19640 µg/L	19640 ppb	15:52:24
2	Mg 279.077 IEC†	43209.1	42052.8	17263 µg/L	17263 ppb	15:52:24
2	Na 589.592 Radial†	38882.1	36686.9	5490.9 µg/L	5490.9 ppb	15:52:24
2	Sr 421.552†	399728.6	390999.6	879.10 µg/L	879.10 ppb	15:52:22
2	Sc 361.383	1783201.6	1783201.6	101.86 %		15:52:54
2	Y 371.029	1243338.0	1243338.0	117.92 %		15:52:54
2	Ag 328.068†	121591.5	115621.8	471.32 µg/L	471.32 ppb	15:52:54
2	As 188.979†	1473.7	1463.9	520.28 µg/L	520.28 ppb	15:52:56
2	B 249.677†	38366.4	34381.6	561.06 µg/L	561.06 ppb	15:52:54
2	Ba 233.527†	257969.7	253404.0	1117.0 µg/L	1117.0 ppb	15:52:54
2	Be 313.107†	1675361.4	1645551.4	490.02 µg/L	490.02 ppb	15:52:54
2	Cd 226.502†	71375.4	70171.6	480.75 µg/L	480.75 ppb	15:52:54
2	Co 228.616†	36940.8	36432.1	494.67 µg/L	494.67 ppb	15:52:56
2	Cr 267.716†	64010.3	62677.5	542.01 µg/L	542.01 ppb	15:52:54
2	Cu 324.752†	133921.2	128630.5	562.80 µg/L	562.80 ppb	15:52:54
2	Mn 257.610†	3922648.1	3850657.9	5202.9 µg/L	5202.9 ppb	15:52:54
2	Mo 202.031†	14483.8	14238.2	463.44 µg/L	463.44 ppb	15:52:56
2	Ni 231.604†	42434.1	41740.0	534.35 µg/L	534.35 ppb	15:52:56
2	P 214.914†	10937.8	10751.3	2515.5 µg/L	2515.5 ppb	15:52:56
2	Pb 220.353†	9633.3	9382.2	588.42 µg/L	588.42 ppb	15:52:56

2	S 181.975 Axial†	7957.5	7707.7	6446.4 µg/L	6446.4 ppb	15:52:56
2	Sb 206.836†	3115.4	2985.2	389.42 µg/L	389.42 ppb	15:52:56
2	Se 196.026†	1163.9	1130.1	495 µg/L	495 ppb	15:52:56
2	SiO2†	481525.1	471005.2	50757 µg/L	50757 ppb	15:52:54
2	Si 251.611†	1484637.3	1456585.0	23689 µg/L	23689 ppb	15:52:54
2	Sn 189.927†	6916.3	6790.1	485.11 µg/L	485.11 ppb	15:52:56
2	Ti 334.940†	4449591.3	4367416.1	4417.9 µg/L	4417.9 ppb	15:52:54
2	Tl 190.801†	2960.3	3019.3	469.47 µg/L	469.47 ppb	15:52:56
2	U 409.014†	3119.6	3278.1	253.79 µg/L	253.79 ppb	15:52:54
2	V 292.402†	113680.2	111285.2	588.00 µg/L	588.00 ppb	15:52:54
2	Zn 213.857†	304837.4	298729.6	1855.8 µg/L	1855.8 ppb	15:52:54
3	Sc RADIAL	149847.6	149847.6	101 %		15:52:29
3	Al 396.153Radial†	327003.0	323218.4	64439 µg/L	64439 ppb	15:52:29
3	Ca 317.933Radial†	643985.6	635804.5	38881 µg/L	38881 ppb	15:52:29
3	Fe 238.204 Radial†	1585990.7	1567201.2	106230 µg/L	106230 ppb	15:52:26
3	K 766.490 Radial†	50301.6	48160.3	19467 µg/L	19467 ppb	15:52:29
3	Mg 279.077 IEC†	42280.7	41600.7	17076 µg/L	17076 ppb	15:52:29
3	Na 589.592 Radial†	38478.8	36707.3	5494.1 µg/L	5494.1 ppb	15:52:29
3	Sr 421.552†	399587.0	395165.6	888.47 µg/L	888.47 ppb	15:52:26
3	Sc 361.383	1785338.7	1785338.7	101.99 %		15:53:00
3	Y 371.029	1244701.0	1244701.0	118.05 %		15:53:00
3	Ag 328.068†	121928.2	115809.1	472.08 µg/L	472.08 ppb	15:53:00
3	As 188.979†	1438.9	1428.0	508.51 µg/L	508.51 ppb	15:53:02
3	B 249.677†	38181.8	34155.5	557.38 µg/L	557.38 ppb	15:53:00
3	Ba 233.527†	259256.4	254362.5	1121.3 µg/L	1121.3 ppb	15:53:00
3	Be 313.107†	1680934.0	1649046.6	491.06 µg/L	491.06 ppb	15:53:00
3	Cd 226.502†	71464.3	70174.9	480.66 µg/L	480.66 ppb	15:53:00
3	Co 228.616†	36422.1	35880.0	487.06 µg/L	487.06 ppb	15:53:02
3	Cr 267.716†	64170.0	62758.9	542.76 µg/L	542.76 ppb	15:53:00
3	Cu 324.752†	134138.4	128686.1	563.17 µg/L	563.17 ppb	15:53:00
3	Mn 257.610†	3936262.9	3859397.8	5214.7 µg/L	5214.7 ppb	15:53:00
3	Mo 202.031†	14333.4	14073.7	458.18 µg/L	458.18 ppb	15:53:02
3	Ni 231.604†	41930.9	41196.7	527.40 µg/L	527.40 ppb	15:53:02
3	P 214.914†	10750.9	10555.2	2467.7 µg/L	2467.7 ppb	15:53:02
3	Pb 220.353†	9561.8	9300.8	583.34 µg/L	583.34 ppb	15:53:02
3	S 181.975 Axial†	7814.2	7557.9	6321.1 µg/L	6321.1 ppb	15:53:02
3	Sb 206.836†	3170.1	3035.1	395.86 µg/L	395.86 ppb	15:53:02
3	Se 196.026†	1152.3	1117.3	490 µg/L	490 ppb	15:53:02
3	SiO2†	482600.9	471494.2	50810 µg/L	50810 ppb	15:53:00
3	Si 251.611†	1487891.3	1458030.9	23712 µg/L	23712 ppb	15:53:00
3	Sn 189.927†	6811.4	6679.0	477.44 µg/L	477.44 ppb	15:53:02
3	Ti 334.940†	4461439.8	4373805.1	4424.4 µg/L	4424.4 ppb	15:53:00
3	Tl 190.801†	2890.0	2946.9	459.79 µg/L	459.79 ppb	15:53:02
3	U 409.014†	2968.8	3126.6	244.06 µg/L	244.06 ppb	15:53:00
3	V 292.402†	114125.9	111588.6	589.44 µg/L	589.44 ppb	15:53:00
3	Zn 213.857†	306670.5	300168.8	1864.7 µg/L	1864.7 ppb	15:53:00

Mean Data: 1202062398|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1782886.9	101.85 %	0.150			0.15%
Sc RADIAL	151093.9	102 %	0.7			0.73%
Y 371.029	1243248.5	117.91 %	0.142			0.12%
Ag 328.068†	115759.2	471.88 µg/L	0.496	471.88 ppb	0.496	0.11%
Al 396.153Radial†	323310.5	64457 µg/L	182.6	64457 ppb	182.6	0.28%
As 188.979†	1451.1	516.20 µg/L	6.667	516.20 ppb	6.667	1.29%
B 249.677†	34294.4	559.65 µg/L	1.980	559.65 ppb	1.980	0.35%
Ba 233.527†	254022.0	1119.8 µg/L	2.35	1119.8 ppb	2.35	0.21%
Be 313.107†	1648193.3	490.81 µg/L	0.696	490.81 ppb	0.696	0.14%
Ca 317.933Radial†	638014.0	39016 µg/L	191.4	39016 ppb	191.4	0.49%
Cd 226.502†	70272.1	481.35 µg/L	1.117	481.35 ppb	1.117	0.23%
Co 228.616†	36084.5	489.86 µg/L	4.183	489.86 ppb	4.183	0.85%
Cr 267.716†	62739.6	542.58 µg/L	0.504	542.58 ppb	0.504	0.09%
Cu 324.752†	128773.5	563.54 µg/L	0.984	563.54 ppb	0.984	0.17%
Fe 238.204 Radial†	1566105.3	106150 µg/L	939.9	106150 ppb	939.9	0.89%
K 766.490 Radial†	48308.4	19527 µg/L	98.0	19527 ppb	98.0	0.50%
Mg 279.077 IEC†	41835.4	17172 µg/L	93.9	17172 ppb	93.9	0.55%
Mn 257.610†	3857146.5	5211.7 µg/L	7.71	5211.7 ppb	7.71	0.15%
Mo 202.031†	14148.6	460.60 µg/L	2.658	460.60 ppb	2.658	0.58%
Na 589.592 Radial†	36672.0	5488.7 µg/L	6.69	5488.7 ppb	6.69	0.12%

Ni 231.604†	41414.3	530.18 µg/L	3.678	530.18 ppb	3.678	0.69%
P 214.914†	10601.2	2478.8 µg/L	32.62	2478.8 ppb	32.62	1.32%
Pb 220.353†	9363.9	587.25 µg/L	3.475	587.25 ppb	3.475	0.59%
S 181.975 Axial†	7617.4	6370.9 µg/L	66.50	6370.9 ppb	66.50	1.04%
Sb 206.836†	2997.4	390.96 µg/L	4.340	390.96 ppb	4.340	1.11%
Se 196.026†	1099.0	482 µg/L	17.2	482 ppb	17.2	3.57%
SiO2†	471435.2	50803 µg/L	43.6	50803 ppb	43.6	0.09%
Si 251.611†	1457588.5	23705 µg/L	14.2	23705 ppb	14.2	0.06%
Sn 189.927†	6744.1	481.94 µg/L	4.006	481.94 ppb	4.006	0.83%
Sr 421.552†	394465.2	886.90 µg/L	7.140	886.90 ppb	7.140	0.81%
Ti 334.940†	4373547.4	4424.1 µg/L	6.07	4424.1 ppb	6.07	0.14%
Tl 190.801†	2976.7	463.79 µg/L	5.049	463.79 ppb	5.049	1.09%
U 409.014†	3266.7	252.95 µg/L	8.498	252.95 ppb	8.498	3.36%
V 292.402†	111497.5	589.00 µg/L	0.868	589.00 ppb	0.868	0.15%
Zn 213.857†	299590.5	1861.1 µg/L	4.70	1861.1 ppb	4.70	0.25%

Sequence No.: 35

Sample ID: 1202062397|961532|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 329

Date Collected: 3/31/2010 15:53:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202062397|961532|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	154133.5	154133.5	104 %		15:53:39
1	Al 396.153Radial†	37396.7	35990.5	7177.6 µg/L	7177.6 ppb	15:53:41
1	Ca 317.933Radial†	75029.4	71478.0	4371.1 µg/L	4371.1 ppb	15:53:41
1	Fe 238.204 Radial†	195863.5	188040.8	12746 µg/L	12746 ppb	15:53:39
1	K 766.490 Radial†	6333.1	4534.8	1832.7 µg/L	1832.7 ppb	15:53:41
1	Mg 279.077 IEC†	4564.7	4202.8	1722.2 µg/L	1722.2 ppb	15:53:41
1	Na 589.592 Radial†	1843.9	452.5	66.307 µg/L	66.307 ppb	15:53:41
1	Sr 421.552†	24822.7	24126.7	54.230 µg/L	54.230 ppb	15:53:41
1	Sc 361.383	1800004.2	1800004.2	102.82 %		15:53:53
1	Y 371.029	1097833.3	1097833.3	104.12 %		15:53:53
1	Ag 328.068†	3929.7	76.9	0.0575 µg/L	0.0575 ppb	15:53:55
1	As 188.979†	-14.4	3.1	4.0115 µg/L	4.0115 ppb	15:54:15
1	B 249.677†	4081.7	686.8	11.230 µg/L	11.230 ppb	15:53:55
1	Ba 233.527†	19040.4	18671.9	82.215 µg/L	82.215 ppb	15:53:55
1	Be 313.107†	4095.9	4828.1	1.4222 µg/L	1.4222 ppb	15:53:55
1	Cd 226.502†	141.8	240.1	0.3457 µg/L	0.3457 ppb	15:54:15
1	Co 228.616†	78.6	243.6	2.7553 µg/L	2.7553 ppb	15:54:15
1	Cr 267.716†	1640.4	1433.8	12.661 µg/L	12.661 ppb	15:54:15
1	Cu 324.752†	4422.2	1460.5	8.0685 µg/L	8.0685 ppb	15:53:55
1	Mn 257.610†	469245.0	456142.9	616.34 µg/L	616.34 ppb	15:53:53
1	Mo 202.031†	-26.7	-6.6	0.3267 µg/L	0.3267 ppb	15:54:15
1	Ni 231.604†	631.6	696.5	8.9168 µg/L	8.9168 ppb	15:54:15
1	P 214.914†	1107.9	1091.1	254.62 µg/L	254.62 ppb	15:54:15
1	Pb 220.353†	252.9	171.2	11.200 µg/L	11.200 ppb	15:54:15
1	S 181.975 Axial†	340.6	227.1	189.82 µg/L	189.82 ppb	15:54:15
1	Sb 206.836†	82.2	6.8	0.5114 µg/L	0.5114 ppb	15:54:15
1	Se 196.026†	0.5	-12.1	-0.517 µg/L	-0.517 ppb	15:54:15
1	SiO2†	50411.7	47318.1	5101.1 µg/L	5101.1 ppb	15:53:55
1	Si 251.611†	150918.8	145887.0	2373.5 µg/L	2373.5 ppb	15:53:55
1	Sn 189.927†	-6.7	-6.2	0.9180 µg/L	0.9180 ppb	15:54:15
1	Ti 334.940†	406636.4	394710.3	399.32 µg/L	399.32 ppb	15:53:53
1	Tl 190.801†	-169.9	-52.0	-1.3644 µg/L	-1.3644 ppb	15:54:15
1	U 409.014†	-1045.5	-801.2	-48.871 µg/L	-48.871 ppb	15:53:55
1	V 292.402†	3130.3	2729.3	12.918 µg/L	12.918 ppb	15:53:55
1	Zn 213.857†	24157.8	22964.3	142.45 µg/L	142.45 ppb	15:53:55
2	Sc RADIAL	154549.7	154549.7	104 %		15:53:43
2	Al 396.153Radial†	36824.2	35345.2	7048.9 µg/L	7048.9 ppb	15:53:45
2	Ca 317.933Radial†	73197.5	69528.6	4251.9 µg/L	4251.9 ppb	15:53:45
2	Fe 238.204 Radial†	194624.9	186347.3	12631 µg/L	12631 ppb	15:53:43
2	K 766.490 Radial†	6194.4	4385.5	1772.3 µg/L	1772.3 ppb	15:53:45
2	Mg 279.077 IEC†	4399.5	4032.7	1652.2 µg/L	1652.2 ppb	15:53:45
2	Na 589.592 Radial†	1877.4	479.9	70.475 µg/L	70.475 ppb	15:53:45
2	Sr 421.552†	24478.0	23732.2	53.344 µg/L	53.344 ppb	15:53:45
2	Sc 361.383	1799440.1	1799440.1	102.79 %		15:54:17
2	Y 371.029	1096778.1	1096778.1	104.02 %		15:54:17
2	Ag 328.068†	3951.8	99.6	0.1475 µg/L	0.1475 ppb	15:54:19
2	As 188.979†	-5.2	12.0	6.9730 µg/L	6.9730 ppb	15:54:40
2	B 249.677†	4100.2	706.0	11.546 µg/L	11.546 ppb	15:54:19
2	Ba 233.527†	18788.3	18432.6	81.161 µg/L	81.161 ppb	15:54:19
2	Be 313.107†	3831.8	4572.4	1.3439 µg/L	1.3439 ppb	15:54:19
2	Cd 226.502†	139.8	238.2	0.3448 µg/L	0.3448 ppb	15:54:40
2	Co 228.616†	57.1	222.7	2.4732 µg/L	2.4732 ppb	15:54:40
2	Cr 267.716†	1599.6	1394.6	12.325 µg/L	12.325 ppb	15:54:40
2	Cu 324.752†	4266.2	1310.0	7.4047 µg/L	7.4047 ppb	15:54:19
2	Mn 257.610†	470035.6	457055.0	617.58 µg/L	617.58 ppb	15:54:17
2	Mo 202.031†	-33.3	-13.1	0.1139 µg/L	0.1139 ppb	15:54:40
2	Ni 231.604†	666.4	730.6	9.3532 µg/L	9.3532 ppb	15:54:40
2	P 214.914†	1086.2	1070.3	249.71 µg/L	249.71 ppb	15:54:40
2	Pb 220.353†	281.0	198.6	12.900 µg/L	12.900 ppb	15:54:40

2	S 181.975 Axial†	347.8	234.1	195.71 µg/L	195.71 ppb	15:54:40
2	Sb 206.836†	94.1	18.3	2.0298 µg/L	2.0298 ppb	15:54:40
2	Se 196.026†	6.9	-5.9	1.93 µg/L	1.93 ppb	15:54:40
2	SiO2†	49558.2	46503.2	5013.2 µg/L	5013.2 ppb	15:54:19
2	Si 251.611†	148258.7	143345.1	2332.1 µg/L	2332.1 ppb	15:54:19
2	Sn 189.927†	8.3	8.4	1.9301 µg/L	1.9301 ppb	15:54:40
2	Ti 334.940†	407676.7	395846.3	400.48 µg/L	400.48 ppb	15:54:17
2	Tl 190.801†	-154.1	-36.7	0.7328 µg/L	0.7328 ppb	15:54:40
2	U 409.014†	-1156.7	-909.7	-55.730 µg/L	-55.730 ppb	15:54:19
2	V 292.402†	3185.6	2784.1	13.215 µg/L	13.215 ppb	15:54:19
2	Zn 213.857†	23745.9	22571.0	140.00 µg/L	140.00 ppb	15:54:19
3	Sc RADIAL	153339.3	153339.3	104 %		15:53:47
3	Al 396.153Radial†	36819.8	35619.4	7103.6 µg/L	7103.6 ppb	15:53:49
3	Ca 317.933Radial†	73745.4	70611.3	4318.1 µg/L	4318.1 ppb	15:53:49
3	Fe 238.204 Radial†	195404.3	188572.1	12782 µg/L	12782 ppb	15:53:47
3	K 766.490 Radial†	6279.6	4514.7	1824.6 µg/L	1824.6 ppb	15:53:49
3	Mg 279.077 IEC†	4417.8	4083.7	1673.1 µg/L	1673.1 ppb	15:53:49
3	Na 589.592 Radial†	1867.8	484.8	71.168 µg/L	71.168 ppb	15:53:49
3	Sr 421.552†	24458.0	23898.1	53.716 µg/L	53.716 ppb	15:53:49
3	Sc 361.383	1779233.8	1779233.8	101.64 %		15:54:42
3	Y 371.029	1085596.3	1085596.3	102.96 %		15:54:42
3	Ag 328.068†	3958.6	150.0	0.3603 µg/L	0.3603 ppb	15:54:44
3	As 188.979†	-6.2	11.0	6.6569 µg/L	6.6569 ppb	15:55:04
3	B 249.677†	3930.5	584.3	9.5535 µg/L	9.5535 ppb	15:54:44
3	Ba 233.527†	18525.7	18381.7	80.934 µg/L	80.934 ppb	15:54:44
3	Be 313.107†	3601.2	4387.9	1.2932 µg/L	1.2932 ppb	15:54:44
3	Cd 226.502†	130.5	230.5	0.2751 µg/L	0.2751 ppb	15:55:04
3	Co 228.616†	81.3	247.1	2.7995 µg/L	2.7995 ppb	15:55:04
3	Cr 267.716†	1560.6	1373.9	12.141 µg/L	12.141 ppb	15:55:04
3	Cu 324.752†	4208.0	1299.9	7.3957 µg/L	7.3957 ppb	15:54:44
3	Mn 257.610†	466310.6	458583.1	619.64 µg/L	619.64 ppb	15:54:42
3	Mo 202.031†	-31.0	-11.2	0.1813 µg/L	0.1813 ppb	15:55:04
3	Ni 231.604†	621.7	694.0	8.8845 µg/L	8.8845 ppb	15:55:04
3	P 214.914†	1068.9	1065.3	248.40 µg/L	248.40 ppb	15:55:04
3	Pb 220.353†	286.3	206.9	13.401 µg/L	13.401 ppb	15:55:04
3	S 181.975 Axial†	310.2	201.0	167.98 µg/L	167.98 ppb	15:55:04
3	Sb 206.836†	96.6	21.8	2.4910 µg/L	2.4910 ppb	15:55:04
3	Se 196.026†	-1.4	-14.0	-1.28 µg/L	-1.28 ppb	15:55:04
3	SiO2†	49258.8	46756.1	5040.5 µg/L	5040.5 ppb	15:54:44
3	Si 251.611†	147557.2	144293.0	2347.6 µg/L	2347.6 ppb	15:54:44
3	Sn 189.927†	-5.4	-5.1	1.0021 µg/L	1.0021 ppb	15:55:04
3	Ti 334.940†	403741.4	396478.5	401.11 µg/L	401.11 ppb	15:54:42
3	Tl 190.801†	-153.9	-38.2	0.5278 µg/L	0.5278 ppb	15:55:04
3	U 409.014†	-922.2	-691.8	-41.901 µg/L	-41.901 ppb	15:54:44
3	V 292.402†	3077.0	2712.4	12.823 µg/L	12.823 ppb	15:54:44
3	Zn 213.857†	23357.0	22450.7	139.24 µg/L	139.24 ppb	15:54:44

Mean Data: 1202062397|961532|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1792892.7	102.42 %	%	0.676			0.66%
Sc RADIAL	154007.5	104 %	%	0.4			0.40%
Y 371.029	1093402.6	103.70 %	%	0.643			0.62%
Ag 328.068†	108.8	0.1884 µg/L	µg/L	0.15550	0.1884 ppb	0.15550	82.52%
Al 396.153Radial†	35651.7	7110.1 µg/L	µg/L	64.59	7110.1 ppb	64.59	0.91%
As 188.979†	8.7	5.8805 µg/L	µg/L	1.62624	5.8805 ppb	1.62624	27.65%
B 249.677†	659.0	10.776 µg/L	µg/L	1.0709	10.776 ppb	1.0709	9.94%
Ba 233.527†	18495.4	81.437 µg/L	µg/L	0.6836	81.437 ppb	0.6836	0.84%
Be 313.107†	4596.1	1.3531 µg/L	µg/L	0.06498	1.3531 ppb	0.06498	4.80%
Ca 317.933Radial†	70539.3	4313.7 µg/L	µg/L	59.73	4313.7 ppb	59.73	1.38%
Cd 226.502†	236.3	0.3219 µg/L	µg/L	0.04050	0.3219 ppb	0.04050	12.58%
Co 228.616†	237.8	2.6760 µg/L	µg/L	0.17702	2.6760 ppb	0.17702	6.62%
Cr 267.716†	1400.8	12.376 µg/L	µg/L	0.2637	12.376 ppb	0.2637	2.13%
Cu 324.752†	1356.8	7.6230 µg/L	µg/L	0.38585	7.6230 ppb	0.38585	5.06%
Fe 238.204 Radial†	187653.4	12719 µg/L	µg/L	78.8	12719 ppb	78.8	0.62%
K 766.490 Radial†	4478.4	1809.9 µg/L	µg/L	32.76	1809.9 ppb	32.76	1.81%
Mg 279.077 IEC†	4106.4	1682.5 µg/L	µg/L	35.97	1682.5 ppb	35.97	2.14%
Mn 257.610†	457260.3	617.86 µg/L	µg/L	1.667	617.86 ppb	1.667	0.27%
Mo 202.031†	-10.3	0.2073 µg/L	µg/L	0.10880	0.2073 ppb	0.10880	52.48%
Na 589.592 Radial†	472.4	69.317 µg/L	µg/L	2.6298	69.317 ppb	2.6298	3.79%

Ni 231.604†	707.0	9.0515 µg/L	0.26178	9.0515 ppb	0.26178	2.89%
P 214.914†	1075.6	250.91 µg/L	3.281	250.91 ppb	3.281	1.31%
Pb 220.353†	192.2	12.500 µg/L	1.1536	12.500 ppb	1.1536	9.23%
S 181.975 Axial†	220.7	184.50 µg/L	14.611	184.50 ppb	14.611	7.92%
Sb 206.836†	15.6	1.6774 µg/L	1.03574	1.6774 ppb	1.03574	61.75%
Se 196.026†	-10.7	0.044 µg/L	1.6755	0.044 ppb	1.6755	>999.9%
SiO2†	46859.1	5051.6 µg/L	44.97	5051.6 ppb	44.97	0.89%
Si 251.611†	144508.4	2351.1 µg/L	20.90	2351.1 ppb	20.90	0.89%
Sn 189.927†	-1.0	1.2834 µg/L	0.56162	1.2834 ppb	0.56162	43.76%
Sr 421.552†	23919.0	53.763 µg/L	0.4450	53.763 ppb	0.4450	0.83%
Ti 334.940†	395678.4	400.30 µg/L	0.907	400.30 ppb	0.907	0.23%
Tl 190.801†	-42.3	-0.0346 µg/L	1.15621	-0.0346 ppb	1.15621	>999.9%
U 409.014†	-800.9	-48.834 µg/L	6.9145	-48.834 ppb	6.9145	14.16%
V 292.402†	2742.0	12.985 µg/L	0.2041	12.985 ppb	0.2041	1.57%
Zn 213.857†	22662.0	140.56 µg/L	1.679	140.56 ppb	1.679	1.19%

Sequence No.: 36

Sample ID: 248511002|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 330

Date Collected: 3/31/2010 15:55:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511002|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149002.7	149002.7	101 %		15:55:43
1	Al 396.153Radial†	225757.2	224428.3	44758 µg/L	44758 ppb	15:55:41
1	Ca 317.933Radial†	356891.3	354086.6	21653 µg/L	21653 ppb	15:55:43
1	Fe 238.204 Radial†	1123483.1	1116428.5	75672 µg/L	75672 ppb	15:55:41
1	K 766.490 Radial†	20138.2	18464.4	7457.8 µg/L	7457.8 ppb	15:55:43
1	Mg 279.077 IEC†	23555.9	23228.1	9514.1 µg/L	9514.1 ppb	15:55:43
1	Na 589.592 Radial†	5081.7	3731.3	553.60 µg/L	553.60 ppb	15:55:43
1	Sr 421.552†	74429.7	74249.5	166.83 µg/L	166.83 ppb	15:55:43
1	Sc 361.383	1749276.7	1749276.7	99.926 %		15:55:56
1	Y 371.029	1153129.5	1153129.5	109.37 %		15:55:56
1	Ag 328.068†	4076.2	334.4	0.5133 µg/L	0.5133 ppb	15:55:56
1	As 188.979†	-9.1	8.0	20.729 µg/L	20.729 ppb	15:56:16
1	B 249.677†	5054.0	1774.9	28.959 µg/L	28.959 ppb	15:55:56
1	Ba 233.527†	135128.0	135382.6	596.32 µg/L	596.32 ppb	15:55:56
1	Be 313.107†	23198.6	24060.4	7.0826 µg/L	7.0826 ppb	15:55:56
1	Cd 226.502†	1111.9	1214.8	0.5855 µg/L	0.5855 ppb	15:56:16
1	Co 228.616†	1805.5	1974.0	23.696 µg/L	23.696 ppb	15:56:16
1	Cr 267.716†	13186.2	13034.4	114.32 µg/L	114.32 ppb	15:56:16
1	Cu 324.752†	15066.8	12237.6	63.070 µg/L	63.070 ppb	15:55:56
1	Mn 257.610†	2074447.0	2075769.0	2804.7 µg/L	2804.7 ppb	15:55:56
1	Mo 202.031†	51.5	70.9	5.4877 µg/L	5.4877 ppb	15:56:16
1	Ni 231.604†	5264.4	5350.6	68.498 µg/L	68.498 ppb	15:56:16
1	P 214.914†	4635.4	4652.4	1074.0 µg/L	1074.0 ppb	15:56:16
1	Pb 220.353†	1893.6	1820.2	117.24 µg/L	117.24 ppb	15:56:16
1	S 181.975 Axial†	1553.9	1450.8	1212.7 µg/L	1212.7 ppb	15:56:16
1	Sb 206.836†	92.9	19.8	-0.1362 µg/L	-0.1362 ppb	15:56:16
1	Se 196.026†	-51.5	-64.2	0.003 µg/L	0.003 ppb	15:56:16
1	SiO2†	467988.2	466625.9	50304 µg/L	50304 ppb	15:55:56
1	Si 251.611†	1439054.7	1439234.3	23415 µg/L	23415 ppb	15:55:56
1	Sn 189.927†	-10.0	-9.7	9.4741 µg/L	9.4741 ppb	15:56:16
1	Ti 334.940†	2972949.1	2974394.1	3009.1 µg/L	3009.1 ppb	15:55:56
1	Tl 190.801†	-429.8	-316.9	-4.8689 µg/L	-4.8689 ppb	15:56:16
1	U 409.014†	-4444.2	-4231.9	-261.22 µg/L	-261.22 ppb	15:55:56
1	V 292.402†	20758.1	20458.5	99.115 µg/L	99.115 ppb	15:55:56
1	Zn 213.857†	65227.8	64746.1	398.43 µg/L	398.43 ppb	15:55:56
2	Sc RADIAL	148574.7	148574.7	100 %		15:55:47
2	Al 396.153Radial†	225168.6	224488.1	44770 µg/L	44770 ppb	15:55:45
2	Ca 317.933Radial†	356290.3	354509.4	21679 µg/L	21679 ppb	15:55:47
2	Fe 238.204 Radial†	1115663.7	1111851.7	75362 µg/L	75362 ppb	15:55:45
2	K 766.490 Radial†	20225.7	18609.3	7516.4 µg/L	7516.4 ppb	15:55:47
2	Mg 279.077 IEC†	23451.4	23191.4	9499.2 µg/L	9499.2 ppb	15:55:47
2	Na 589.592 Radial†	5145.0	3809.0	565.20 µg/L	565.20 ppb	15:55:47
2	Sr 421.552†	74359.3	74392.5	167.15 µg/L	167.15 ppb	15:55:47
2	Sc 361.383	1776844.7	1776844.7	101.50 %		15:56:19
2	Y 371.029	1171506.0	1171506.0	111.11 %		15:56:19
2	Ag 328.068†	3867.3	65.3	-0.5743 µg/L	-0.5743 ppb	15:56:19
2	As 188.979†	-6.2	11.0	21.659 µg/L	21.659 ppb	15:56:39
2	B 249.677†	5133.0	1774.3	28.951 µg/L	28.951 ppb	15:56:19
2	Ba 233.527†	137306.4	135430.7	596.54 µg/L	596.54 ppb	15:56:19
2	Be 313.107†	23548.7	24045.2	7.0752 µg/L	7.0752 ppb	15:56:19
2	Cd 226.502†	1116.1	1201.7	0.5259 µg/L	0.5259 ppb	15:56:39
2	Co 228.616†	1810.5	1950.9	23.395 µg/L	23.395 ppb	15:56:39
2	Cr 267.716†	13286.1	12928.1	113.40 µg/L	113.40 ppb	15:56:39
2	Cu 324.752†	15519.8	12450.0	63.919 µg/L	63.919 ppb	15:56:19
2	Mn 257.610†	2110997.8	2079570.1	2809.8 µg/L	2809.8 ppb	15:56:19
2	Mo 202.031†	37.7	56.5	5.0141 µg/L	5.0141 ppb	15:56:39
2	Ni 231.604†	5287.4	5291.5	67.742 µg/L	67.742 ppb	15:56:39
2	P 214.914†	4671.6	4616.1	1065.5 µg/L	1065.5 ppb	15:56:39
2	Pb 220.353†	1929.5	1826.2	117.63 µg/L	117.63 ppb	15:56:39

2	S 181.975 Axial†	1550.8	1423.7	1190.0 µg/L	1190.0 ppb	15:56:39
2	Sb 206.836†	82.5	8.1	-1.6593 µg/L	-1.6593 ppb	15:56:39
2	Se 196.026†	-57.1	-68.9	-2.03 µg/L	-2.03 ppb	15:56:39
2	SiO2†	476688.2	467931.0	50445 µg/L	50445 ppb	15:56:19
2	Si 251.611†	1466727.4	1444154.1	23496 µg/L	23496 ppb	15:56:19
2	Sn 189.927†	-17.0	-16.5	9.0087 µg/L	9.0087 ppb	15:56:39
2	Ti 334.940†	3019901.9	2974492.7	3009.2 µg/L	3009.2 ppb	15:56:19
2	Tl 190.801†	-414.4	-295.0	-1.8820 µg/L	-1.8820 ppb	15:56:39
2	U 409.014†	-4661.8	-4377.2	-270.31 µg/L	-270.31 ppb	15:56:19
2	V 292.402†	21261.6	20632.2	100.06 µg/L	100.06 ppb	15:56:19
2	Zn 213.857†	66595.2	65080.5	400.56 µg/L	400.56 ppb	15:56:19
3	Sc RADIAL	149771.0	149771.0	101 %		15:55:51
3	Al 396.153Radial†	224479.0	222013.5	44276 µg/L	44276 ppb	15:55:49
3	Ca 317.933Radial†	359184.2	354534.1	21681 µg/L	21681 ppb	15:55:51
3	Fe 238.204 Radial†	1113384.5	1100715.5	74607 µg/L	74607 ppb	15:55:49
3	K 766.490 Radial†	20446.7	18666.8	7539.8 µg/L	7539.8 ppb	15:55:51
3	Mg 279.077 IEC†	23651.1	23202.1	9504.3 µg/L	9504.3 ppb	15:55:51
3	Na 589.592 Radial†	5024.4	3648.9	541.14 µg/L	541.14 ppb	15:55:51
3	Sr 421.552†	74872.5	74307.9	166.96 µg/L	166.96 ppb	15:55:51
3	Sc 361.383	1770449.6	1770449.6	101.14 %		15:56:42
3	Y 371.029	1167596.4	1167596.4	110.74 %		15:56:42
3	Ag 328.068†	3847.6	59.6	-0.6145 µg/L	-0.6145 ppb	15:56:42
3	As 188.979†	-5.5	11.7	21.703 µg/L	21.703 ppb	15:57:02
3	B 249.677†	5028.8	1689.5	27.563 µg/L	27.563 ppb	15:56:42
3	Ba 233.527†	137843.7	136450.6	601.05 µg/L	601.05 ppb	15:56:42
3	Be 313.107†	23458.5	24039.8	7.0690 µg/L	7.0690 ppb	15:56:42
3	Cd 226.502†	1104.1	1193.8	0.5502 µg/L	0.5502 ppb	15:57:02
3	Co 228.616†	1782.0	1929.2	23.142 µg/L	23.142 ppb	15:57:02
3	Cr 267.716†	13199.0	12889.3	113.04 µg/L	113.04 ppb	15:57:02
3	Cu 324.752†	15386.9	12373.9	63.473 µg/L	63.473 ppb	15:56:42
3	Mn 257.610†	2115553.2	2091586.8	2826.1 µg/L	2826.1 ppb	15:56:42
3	Mo 202.031†	45.7	64.5	5.2420 µg/L	5.2420 ppb	15:57:02
3	Ni 231.604†	5318.4	5341.0	68.376 µg/L	68.376 ppb	15:57:02
3	P 214.914†	4643.4	4604.8	1063.3 µg/L	1063.3 ppb	15:57:02
3	Pb 220.353†	1916.1	1819.8	117.26 µg/L	117.26 ppb	15:57:02
3	S 181.975 Axial†	1534.6	1413.2	1181.2 µg/L	1181.2 ppb	15:57:02
3	Sb 206.836†	92.2	18.0	-0.3352 µg/L	-0.3352 ppb	15:57:02
3	Se 196.026†	-56.1	-68.0	-1.97 µg/L	-1.97 ppb	15:57:02
3	SiO2†	478087.3	471010.8	50777 µg/L	50777 ppb	15:56:42
3	Si 251.611†	1469293.2	1451910.8	23622 µg/L	23622 ppb	15:56:42
3	Sn 189.927†	12.1	12.2	11.061 µg/L	11.061 ppb	15:57:02
3	Ti 334.940†	3028073.8	2993319.8	3028.2 µg/L	3028.2 ppb	15:56:42
3	Tl 190.801†	-427.2	-309.2	-3.5734 µg/L	-3.5734 ppb	15:57:02
3	U 409.014†	-4886.6	-4616.2	-285.23 µg/L	-285.23 ppb	15:56:42
3	V 292.402†	21205.1	20652.0	100.22 µg/L	100.22 ppb	15:56:42
3	Zn 213.857†	66481.0	65204.6	401.41 µg/L	401.41 ppb	15:56:42

Mean Data: 248511002|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1765523.6	100.85 %	0.824			0.82%
Sc RADIAL	149116.1	101 %	0.4			0.41%
Y 371.029	1164077.3	110.40 %	0.918			0.83%
Ag 328.068†	153.1	-0.2252 µg/L	0.63982	-0.2252 ppb	0.63982	284.14%
Al 396.153Radial†	223643.3	44601 µg/L	281.5	44601 ppb	281.5	0.63%
As 188.979†	10.2	21.364 µg/L	0.5503	21.364 ppb	0.5503	2.58%
B 249.677†	1746.2	28.491 µg/L	0.8035	28.491 ppb	0.8035	2.82%
Ba 233.527†	135754.6	597.97 µg/L	2.668	597.97 ppb	2.668	0.45%
Be 313.107†	24048.5	7.0756 µg/L	0.00678	7.0756 ppb	0.00678	0.10%
Ca 317.933Radial†	354376.7	21671 µg/L	15.4	21671 ppb	15.4	0.07%
Cd 226.502†	1203.5	0.5539 µg/L	0.02999	0.5539 ppb	0.02999	5.41%
Co 228.616†	1951.4	23.411 µg/L	0.2773	23.411 ppb	0.2773	1.18%
Cr 267.716†	12950.6	113.59 µg/L	0.657	113.59 ppb	0.657	0.58%
Cu 324.752†	12353.9	63.487 µg/L	0.4246	63.487 ppb	0.4246	0.67%
Fe 238.204 Radial†	1109665.2	75214 µg/L	547.8	75214 ppb	547.8	0.73%
K 766.490 Radial†	18580.2	7504.7 µg/L	42.24	7504.7 ppb	42.24	0.56%
Mg 279.077 IEC†	23207.2	9505.9 µg/L	7.58	9505.9 ppb	7.58	0.08%
Mn 257.610†	2082308.7	2813.5 µg/L	11.16	2813.5 ppb	11.16	0.40%
Mo 202.031†	64.0	5.2479 µg/L	0.23688	5.2479 ppb	0.23688	4.51%
Na 589.592 Radial†	3729.7	553.31 µg/L	12.034	553.31 ppb	12.034	2.17%

Ni 231.604†	5327.7	68.205 µg/L	0.4058	68.205 ppb	0.4058	0.60%
P 214.914†	4624.5	1067.6 µg/L	5.68	1067.6 ppb	5.68	0.53%
Pb 220.353†	1822.1	117.38 µg/L	0.216	117.38 ppb	0.216	0.18%
S 181.975 Axial†	1429.2	1194.6 µg/L	16.25	1194.6 ppb	16.25	1.36%
Sb 206.836†	15.3	-0.7102 µg/L	0.82794	-0.7102 ppb	0.82794	116.57%
Se 196.026†	-67.0	-1.33 µg/L	1.157	-1.33 ppb	1.157	86.84%
SiO2†	468522.6	50509 µg/L	242.7	50509 ppb	242.7	0.48%
Si 251.611†	1445099.8	23511 µg/L	104.0	23511 ppb	104.0	0.44%
Sn 189.927†	-4.6	9.8478 µg/L	1.07571	9.8478 ppb	1.07571	10.92%
Sr 421.552†	74316.6	166.98 µg/L	0.162	166.98 ppb	0.162	0.10%
Ti 334.940†	2980735.6	3015.5 µg/L	11.03	3015.5 ppb	11.03	0.37%
Tl 190.801†	-307.0	-3.4414 µg/L	1.49781	-3.4414 ppb	1.49781	43.52%
U 409.014†	-4408.4	-272.25 µg/L	12.123	-272.25 ppb	12.123	4.45%
Concentration less than lower limit for U 409.014.						
V 292.402†	20580.9	99.800 µg/L	0.5986	99.800 ppb	0.5986	0.60%
Zn 213.857†	65010.4	400.14 µg/L	1.535	400.14 ppb	1.535	0.38%

Sequence No.: 37

Sample ID: 248511003|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 331

Date Collected: 3/31/2010 15:57:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511003|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151522.3	151522.3	102 %		15:57:41
1	Al 396.153Radial†	291534.4	284982.7	56834 µg/L	56834 ppb	15:57:39
1	Ca 317.933Radial†	185290.6	180480.3	11037 µg/L	11037 ppb	15:57:41
1	Fe 238.204 Radial†	1457343.8	1424149.6	96530 µg/L	96530 ppb	15:57:39
1	K 766.490 Radial†	19150.1	17166.0	6931.5 µg/L	6931.5 ppb	15:57:41
1	Mg 279.077 IEC†	26087.3	25312.8	10356 µg/L	10356 ppb	15:57:41
1	Na 589.592 Radial†	6143.8	4685.4	697.31 µg/L	697.31 ppb	15:57:41
1	Sr 421.552†	50261.5	49399.5	111.02 µg/L	111.02 ppb	15:57:41
1	Sc 361.383	1785273.3	1785273.3	101.98 %		15:57:54
1	Y 371.029	1310659.9	1310659.9	124.31 %		15:57:54
1	Ag 328.068†	3459.7	-352.4	-1.7736 µg/L	-1.7736 ppb	15:57:56
1	As 188.979†	8.9	25.9	31.358 µg/L	31.358 ppb	15:58:16
1	B 249.677†	4329.5	962.5	15.656 µg/L	15.656 ppb	15:57:56
1	Ba 233.527†	88485.5	86920.1	382.28 µg/L	382.28 ppb	15:57:56
1	Be 313.107†	32401.7	32616.6	9.5872 µg/L	9.5872 ppb	15:57:56
1	Cd 226.502†	1365.6	1441.2	-0.0221 µg/L	-0.0221 ppb	15:58:16
1	Co 228.616†	1948.9	2078.2	23.824 µg/L	23.824 ppb	15:58:16
1	Cr 267.716†	13159.4	12742.1	112.89 µg/L	112.89 ppb	15:58:16
1	Cu 324.752†	8401.2	5397.6	36.951 µg/L	36.951 ppb	15:57:56
1	Mn 257.610†	1342863.7	1316546.9	1778.6 µg/L	1778.6 ppb	15:57:54
1	Mo 202.031†	-14.2	5.5	4.2285 µg/L	4.2285 ppb	15:58:16
1	Ni 231.604†	5405.1	5382.4	68.905 µg/L	68.905 ppb	15:58:16
1	P 214.914†	2182.5	2153.7	463.43 µg/L	463.43 ppb	15:58:16
1	Pb 220.353†	972.9	879.2	60.064 µg/L	60.064 ppb	15:58:16
1	S 181.975 Axial†	559.6	444.6	371.61 µg/L	371.61 ppb	15:58:16
1	Sb 206.836†	74.3	-0.4	-3.0739 µg/L	-3.0739 ppb	15:58:16
1	Se 196.026†	-56.9	-68.4	5.39 µg/L	5.39 ppb	15:58:16
1	SiO2†	540676.8	528458.6	56970 µg/L	56970 ppb	15:57:56
1	Si 251.611†	1677686.2	1644190.3	26750 µg/L	26750 ppb	15:57:54
1	Sn 189.927†	45.5	44.9	15.573 µg/L	15.573 ppb	15:58:16
1	Ti 334.940†	3726567.6	3653376.5	3695.7 µg/L	3695.7 ppb	15:57:54
1	Tl 190.801†	-454.8	-332.7	-2.6329 µg/L	-2.6329 ppb	15:58:16
1	U 409.014†	-6814.3	-6466.2	-414.11 µg/L	-414.11 ppb	15:57:56
1	V 292.402†	24942.6	24142.8	115.88 µg/L	115.88 ppb	15:57:56
1	Zn 213.857†	71270.8	69355.5	425.84 µg/L	425.84 ppb	15:57:56
2	Sc RADIAL	148445.3	148445.3	100 %		15:57:45
2	Al 396.153Radial†	290194.7	289552.0	57746 µg/L	57746 ppb	15:57:43
2	Ca 317.933Radial†	181493.7	180446.2	11035 µg/L	11035 ppb	15:57:45
2	Fe 238.204 Radial†	1458449.2	1454774.6	98605 µg/L	98605 ppb	15:57:43
2	K 766.490 Radial†	18762.3	17167.0	6931.8 µg/L	6931.8 ppb	15:57:45
2	Mg 279.077 IEC†	25380.5	25136.2	10281 µg/L	10281 ppb	15:57:45
2	Na 589.592 Radial†	5995.9	4662.3	693.84 µg/L	693.84 ppb	15:57:45
2	Sr 421.552†	49491.4	49649.5	111.58 µg/L	111.58 ppb	15:57:45
2	Sc 361.383	1764169.0	1764169.0	100.78 %		15:58:19
2	Y 371.029	1297582.0	1297582.0	123.07 %		15:58:19
2	Ag 328.068†	3356.7	-414.0	-2.0175 µg/L	-2.0175 ppb	15:58:21
2	As 188.979†	13.0	30.0	33.243 µg/L	33.243 ppb	15:58:41
2	B 249.677†	4156.5	841.6	13.676 µg/L	13.676 ppb	15:58:21
2	Ba 233.527†	87911.9	87388.9	384.33 µg/L	384.33 ppb	15:58:21
2	Be 313.107†	32569.5	33163.2	9.7514 µg/L	9.7514 ppb	15:58:21
2	Cd 226.502†	1360.2	1451.8	-0.1653 µg/L	-0.1653 ppb	15:58:41
2	Co 228.616†	1960.6	2112.7	24.190 µg/L	24.190 ppb	15:58:41
2	Cr 267.716†	13193.7	12930.5	114.58 µg/L	114.58 ppb	15:58:41
2	Cu 324.752†	8402.2	5497.1	37.679 µg/L	37.679 ppb	15:58:21
2	Mn 257.610†	1327791.0	1317342.4	1779.6 µg/L	1779.6 ppb	15:58:19
2	Mo 202.031†	18.2	37.4	5.3375 µg/L	5.3375 ppb	15:58:41
2	Ni 231.604†	5447.0	5487.3	70.248 µg/L	70.248 ppb	15:58:41
2	P 214.914†	2194.5	2191.2	471.19 µg/L	471.19 ppb	15:58:41
2	Pb 220.353†	977.5	895.1	61.050 µg/L	61.050 ppb	15:58:41

2	S 181.975 Axial†	551.5	443.0	370.32 µg/L	370.32 ppb	15:58:41
2	Sb 206.836†	66.7	-7.1	-3.9886 µg/L	-3.9886 ppb	15:58:41
2	Se 196.026†	-65.1	-77.2	2.54 µg/L	2.54 ppb	15:58:41
2	SiO2†	537639.5	531787.0	57329 µg/L	57329 ppb	15:58:21
2	Si 251.611†	1657337.7	1643678.3	26742 µg/L	26742 ppb	15:58:19
2	Sn 189.927†	30.1	30.1	14.580 µg/L	14.580 ppb	15:58:41
2	Ti 334.940†	3691318.7	3662112.8	3704.6 µg/L	3704.6 ppb	15:58:19
2	Tl 190.801†	-438.2	-321.6	-1.0221 µg/L	-1.0221 ppb	15:58:41
2	U 409.014†	-6656.7	-6389.8	-409.66 µg/L	-409.66 ppb	15:58:21
2	V 292.402†	24842.1	24335.7	116.71 µg/L	116.71 ppb	15:58:21
2	Zn 213.857†	70725.8	69650.7	427.48 µg/L	427.48 ppb	15:58:21
3	Sc RADIAL	149681.6	149681.6	101 %		15:57:49
3	Al 396.153Radial†	288730.6	285712.5	56980 µg/L	56980 ppb	15:57:47
3	Ca 317.933Radial†	182833.0	180275.8	11024 µg/L	11024 ppb	15:57:49
3	Fe 238.204 Radial†	1444235.6	1428695.4	96838 µg/L	96838 ppb	15:57:47
3	K 766.490 Radial†	19036.4	17283.6	6979.1 µg/L	6979.1 ppb	15:57:49
3	Mg 279.077 IEC†	25625.4	25169.3	10296 µg/L	10296 ppb	15:57:49
3	Na 589.592 Radial†	6071.9	4688.1	697.68 µg/L	697.68 ppb	15:57:49
3	Sr 421.552†	49858.9	49605.2	111.48 µg/L	111.48 ppb	15:57:49
3	Sc 361.383	1754280.6	1754280.6	100.21 %		15:58:44
3	Y 371.029	1290442.8	1290442.8	122.39 %		15:58:44
3	Ag 328.068†	3448.7	-303.4	-1.5839 µg/L	-1.5839 ppb	15:58:46
3	As 188.979†	14.6	31.7	33.399 µg/L	33.399 ppb	15:59:06
3	B 249.677†	4115.1	823.6	13.380 µg/L	13.380 ppb	15:58:46
3	Ba 233.527†	87254.9	87224.9	383.62 µg/L	383.62 ppb	15:58:46
3	Be 313.107†	32390.4	33166.6	9.7479 µg/L	9.7479 ppb	15:58:46
3	Cd 226.502†	1357.3	1456.6	0.0542 µg/L	0.0542 ppb	15:59:06
3	Co 228.616†	1962.2	2125.2	24.453 µg/L	24.453 ppb	15:59:06
3	Cr 267.716†	13198.8	13009.4	115.21 µg/L	115.21 ppb	15:59:06
3	Cu 324.752†	8513.2	5654.9	38.080 µg/L	38.080 ppb	15:58:46
3	Mn 257.610†	1321191.2	1318183.3	1780.8 µg/L	1780.8 ppb	15:58:44
3	Mo 202.031†	-3.8	15.6	4.5650 µg/L	4.5650 ppb	15:59:06
3	Ni 231.604†	5455.6	5526.3	70.748 µg/L	70.748 ppb	15:59:06
3	P 214.914†	2206.1	2215.1	477.95 µg/L	477.95 ppb	15:59:06
3	Pb 220.353†	982.5	905.6	61.726 µg/L	61.726 ppb	15:59:06
3	S 181.975 Axial†	555.8	450.4	376.50 µg/L	376.50 ppb	15:59:06
3	Sb 206.836†	87.3	13.9	-1.2397 µg/L	-1.2397 ppb	15:59:06
3	Se 196.026†	-79.6	-92.1	-4.11 µg/L	-4.11 ppb	15:59:06
3	SiO2†	534117.1	531279.2	57274 µg/L	57274 ppb	15:58:46
3	Si 251.611†	1649009.5	1644637.6	26757 µg/L	26757 ppb	15:58:44
3	Sn 189.927†	24.3	24.5	14.210 µg/L	14.210 ppb	15:59:06
3	Ti 334.940†	3676219.6	3667692.0	3710.2 µg/L	3710.2 ppb	15:58:44
3	Tl 190.801†	-429.3	-315.2	-0.1058 µg/L	-0.1058 ppb	15:59:06
3	U 409.014†	-6853.2	-6623.1	-424.13 µg/L	-424.13 ppb	15:58:46
3	V 292.402†	24607.3	24240.3	116.36 µg/L	116.36 ppb	15:58:46
3	Zn 213.857†	70303.3	69624.7	427.49 µg/L	427.49 ppb	15:58:46

Mean Data: 248511003|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1767907.6	100.99 %	0.904			0.90%
Sc RADIAL	149883.1	101 %	1.0			1.03%
Y 371.029	1299561.6	123.25 %	0.972			0.79%
Ag 328.068†	-356.6	-1.7917 µg/L	0.21736	-1.7917 ppb	0.21736	12.13%
Al 396.153Radial†	286749.1	57187 µg/L	489.5	57187 ppb	489.5	0.86%
As 188.979†	29.2	32.667 µg/L	1.1360	32.667 ppb	1.1360	3.48%
B 249.677†	875.9	14.237 µg/L	1.2374	14.237 ppb	1.2374	8.69%
Ba 233.527†	87178.0	383.41 µg/L	1.038	383.41 ppb	1.038	0.27%
Be 313.107†	32982.1	9.6955 µg/L	0.09383	9.6955 ppb	0.09383	0.97%
Ca 317.933Radial†	180400.8	11032 µg/L	6.7	11032 ppb	6.7	0.06%
Cd 226.502†	1449.9	-0.0444 µg/L	0.11146	-0.0444 ppb	0.11146	251.06%
Co 228.616†	2105.3	24.156 µg/L	0.3159	24.156 ppb	0.3159	1.31%
Cr 267.716†	12894.0	114.22 µg/L	1.200	114.22 ppb	1.200	1.05%
Cu 324.752†	5516.5	37.570 µg/L	0.5721	37.570 ppb	0.5721	1.52%
Fe 238.204 Radial†	1435873.2	97324 µg/L	1120.2	97324 ppb	1120.2	1.15%
K 766.490 Radial†	17205.5	6947.5 µg/L	27.39	6947.5 ppb	27.39	0.39%
Mg 279.077 IEC†	25206.1	10311 µg/L	39.4	10311 ppb	39.4	0.38%
Mn 257.610†	1317357.5	1779.7 µg/L	1.11	1779.7 ppb	1.11	0.06%
Mo 202.031†	19.5	4.7104 µg/L	0.56860	4.7104 ppb	0.56860	12.07%
Na 589.592 Radial†	4678.6	696.28 µg/L	2.116	696.28 ppb	2.116	0.30%

Ni 231.604†	5465.3	69.967 µg/L	0.9530	69.967 ppb	0.9530	1.36%
P 214.914†	2186.7	470.86 µg/L	7.267	470.86 ppb	7.267	1.54%
Pb 220.353†	893.3	60.947 µg/L	0.8357	60.947 ppb	0.8357	1.37%
S 181.975 Axial†	446.0	372.81 µg/L	3.259	372.81 ppb	3.259	0.87%
Sb 206.836†	2.1	-2.7674 µg/L	1.39982	-2.7674 ppb	1.39982	50.58%
Se 196.026†	-79.2	1.27 µg/L	4.874	1.27 ppb	4.874	382.40%
SiO2†	530508.3	57191 µg/L	193.3	57191 ppb	193.3	0.34%
Si 251.611†	1644168.8	26750 µg/L	7.8	26750 ppb	7.8	0.03%
Sn 189.927†	33.2	14.788 µg/L	0.7049	14.788 ppb	0.7049	4.77%
Sr 421.552†	49551.4	111.36 µg/L	0.300	111.36 ppb	0.300	0.27%
Ti 334.940†	3661060.4	3703.5 µg/L	7.30	3703.5 ppb	7.30	0.20%
Tl 190.801†	-323.2	-1.2536 µg/L	1.27936	-1.2536 ppb	1.27936	102.05%
U 409.014†	-6493.0	-415.97 µg/L	7.408	-415.97 ppb	7.408	1.78%
Concentration less than lower limit for U 409.014.						
V 292.402†	24239.6	116.32 µg/L	0.415	116.32 ppb	0.415	0.36%
Zn 213.857†	69543.6	426.93 µg/L	0.949	426.93 ppb	0.949	0.22%

Sequence No.: 38

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 15:59:13

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	143628.8	143628.8	97.0 %		15:59:47
1	Al 396.153Radial†	24573.9	25397.6	5041.6 µg/L	5041.6 ppb	15:59:47
1	Ca 317.933Radial†	80987.3	82892.9	5069.1 µg/L	5069.1 ppb	15:59:47
1	Fe 238.204 Radial†	72243.3	74347.9	5039.3 µg/L	5039.3 ppb	15:59:47
1	K 766.490 Radial†	13612.6	12485.2	5048.7 µg/L	5048.7 ppb	15:59:47
1	Mg 279.077 IEC†	12283.7	12482.0	5155.4 µg/L	5155.4 ppb	15:59:47
1	Na 589.592 Radial†	66333.7	67072.8	10066 µg/L	10066 ppb	15:59:47
1	Sr 421.552†	217385.2	224408.2	504.68 µg/L	504.68 ppb	15:59:45
1	Sc 361.383	1719283.0	1719283.0	98.213 %		16:00:00
1	Y 371.029	1022903.3	1022903.3	97.015 %		16:00:00
1	Ag 328.068†	125163.5	123696.6	505.94 µg/L	505.94 ppb	16:00:00
1	As 188.979†	1455.0	1498.6	509.24 µg/L	509.24 ppb	16:00:20
1	B 249.677†	33111.1	30430.9	496.36 µg/L	496.36 ppb	16:00:00
1	Ba 233.527†	111580.6	113765.8	502.28 µg/L	502.28 ppb	16:00:00
1	Be 313.107†	1651329.5	1682228.1	501.02 µg/L	501.02 ppb	16:00:00
1	Cd 226.502†	70793.6	72184.2	505.37 µg/L	505.37 ppb	16:00:00
1	Co 228.616†	36170.2	36995.7	507.00 µg/L	507.00 ppb	16:00:00
1	Cr 267.716†	57455.5	58339.7	502.26 µg/L	502.26 ppb	16:00:00
1	Cu 324.752†	118387.1	117701.4	501.66 µg/L	501.66 ppb	16:00:00
1	Mn 257.610†	366061.9	372508.1	503.20 µg/L	503.20 ppb	16:00:00
1	Mo 202.031†	15362.6	15661.5	505.09 µg/L	505.09 ppb	16:00:20
1	Ni 231.604†	38784.6	39572.8	506.61 µg/L	506.61 ppb	16:00:00
1	P 214.914†	10346.3	10548.2	2522.0 µg/L	2522.0 ppb	16:00:20
1	Pb 220.353†	8143.9	8217.3	510.57 µg/L	510.57 ppb	16:00:20
1	S 181.975 Axial†	1307.7	1227.3	1030.1 µg/L	1030.1 ppb	16:00:20
1	Sb 206.836†	3851.0	3847.9	505.20 µg/L	505.20 ppb	16:00:20
1	Se 196.026†	1254.8	1265.0	515 µg/L	515 ppb	16:00:20
1	SiO2†	51287.0	50511.2	5423.7 µg/L	5423.7 ppb	16:00:00
1	Si 251.611†	155247.8	157185.9	2547.3 µg/L	2547.3 ppb	16:00:00
1	Sn 189.927†	7126.4	7256.4	504.19 µg/L	504.19 ppb	16:00:20
1	Ti 334.940†	486916.0	495018.5	500.17 µg/L	500.17 ppb	16:00:00
1	Tl 190.801†	3551.0	3728.9	513.54 µg/L	513.54 ppb	16:00:20
1	U 409.014†	6944.7	7286.7	494.26 µg/L	494.26 ppb	16:00:00
1	V 292.402†	92114.7	93476.2	507.30 µg/L	507.30 ppb	16:00:00
1	Zn 213.857†	80014.3	80940.5	502.10 µg/L	502.10 ppb	16:00:00
2	Sc RADIAL	143703.2	143703.2	97.0 %		15:59:51
2	Al 396.153Radial†	24774.9	25591.6	5080.4 µg/L	5080.4 ppb	15:59:51
2	Ca 317.933Radial†	81169.9	83037.9	5078.0 µg/L	5078.0 ppb	15:59:51
2	Fe 238.204 Radial†	72315.9	74384.2	5041.8 µg/L	5041.8 ppb	15:59:51
2	K 766.490 Radial†	13795.6	12666.4	5122.1 µg/L	5122.1 ppb	15:59:51
2	Mg 279.077 IEC†	12276.0	12467.6	5149.5 µg/L	5149.5 ppb	15:59:51
2	Na 589.592 Radial†	66463.3	67171.0	10081 µg/L	10081 ppb	15:59:51
2	Sr 421.552†	219059.1	226017.2	508.30 µg/L	508.30 ppb	15:59:49
2	Sc 361.383	1724118.6	1724118.6	98.489 %		16:00:23
2	Y 371.029	1025083.8	1025083.8	97.221 %		16:00:23
2	Ag 328.068†	125544.3	123725.8	506.05 µg/L	506.05 ppb	16:00:23
2	As 188.979†	1441.6	1480.9	503.28 µg/L	503.28 ppb	16:00:43
2	B 249.677†	33158.2	30384.1	495.60 µg/L	495.60 ppb	16:00:23
2	Ba 233.527†	111759.4	113628.7	501.67 µg/L	501.67 ppb	16:00:23
2	Be 313.107†	1657411.4	1683687.6	501.46 µg/L	501.46 ppb	16:00:23
2	Cd 226.502†	70922.4	72112.8	504.87 µg/L	504.87 ppb	16:00:23
2	Co 228.616†	36255.4	36978.8	506.77 µg/L	506.77 ppb	16:00:23
2	Cr 267.716†	57563.2	58284.9	501.79 µg/L	501.79 ppb	16:00:23
2	Cu 324.752†	118692.1	117673.0	501.54 µg/L	501.54 ppb	16:00:23
2	Mn 257.610†	367231.6	372650.4	503.39 µg/L	503.39 ppb	16:00:23
2	Mo 202.031†	15380.3	15635.6	504.26 µg/L	504.26 ppb	16:00:43
2	Ni 231.604†	38611.5	39286.2	502.94 µg/L	502.94 ppb	16:00:23
2	P 214.914†	10357.8	10530.3	2517.7 µg/L	2517.7 ppb	16:00:43
2	Pb 220.353†	8166.8	8217.3	510.56 µg/L	510.56 ppb	16:00:43

2	S 181.975 Axial†	1304.7	1220.5	1024.4 µg/L	1024.4 ppb	16:00:43
2	Sb 206.836†	3855.7	3841.7	504.38 µg/L	504.38 ppb	16:00:43
2	Se 196.026†	1252.9	1259.6	513 µg/L	513 ppb	16:00:43
2	SiO2†	51604.0	50686.5	5442.6 µg/L	5442.6 ppb	16:00:23
2	Si 251.611†	155798.4	157301.6	2549.2 µg/L	2549.2 ppb	16:00:23
2	Sn 189.927†	7136.1	7245.9	503.46 µg/L	503.46 ppb	16:00:43
2	Ti 334.940†	487752.6	494477.5	499.62 µg/L	499.62 ppb	16:00:23
2	Tl 190.801†	3567.6	3735.5	514.44 µg/L	514.44 ppb	16:00:43
2	U 409.014†	6983.9	7306.7	495.51 µg/L	495.51 ppb	16:00:23
2	V 292.402†	92296.5	93397.7	506.87 µg/L	506.87 ppb	16:00:23
2	Zn 213.857†	80058.0	80756.3	500.98 µg/L	500.98 ppb	16:00:23
3	Sc RADIAL	146247.1	146247.1	98.8 %		15:59:55
3	Al 396.153Radial†	24921.8	25296.3	5021.5 µg/L	5021.5 ppb	15:59:55
3	Ca 317.933Radial†	82659.8	83091.5	5081.3 µg/L	5081.3 ppb	15:59:55
3	Fe 238.204 Radial†	73603.4	74391.7	5042.3 µg/L	5042.3 ppb	15:59:55
3	K 766.490 Radial†	13802.0	12425.7	5024.6 µg/L	5024.6 ppb	15:59:55
3	Mg 279.077 IEC†	12654.5	12630.8	5216.7 µg/L	5216.7 ppb	15:59:55
3	Na 589.592 Radial†	67399.9	66928.0	10044 µg/L	10044 ppb	15:59:55
3	Sr 421.552†	218364.3	221387.0	497.89 µg/L	497.89 ppb	15:59:53
3	Sc 361.383	1717345.5	1717345.5	98.102 %		16:00:46
3	Y 371.029	1021842.7	1021842.7	96.914 %		16:00:46
3	Ag 328.068†	124669.8	123337.1	504.48 µg/L	504.48 ppb	16:00:46
3	As 188.979†	1428.4	1473.1	500.70 µg/L	500.70 ppb	16:01:06
3	B 249.677†	33102.0	30459.6	496.83 µg/L	496.83 ppb	16:00:46
3	Ba 233.527†	111245.5	113552.4	501.34 µg/L	501.34 ppb	16:00:46
3	Be 313.107†	1649735.5	1682500.1	501.10 µg/L	501.10 ppb	16:00:46
3	Cd 226.502†	70790.7	72262.6	505.92 µg/L	505.92 ppb	16:00:46
3	Co 228.616†	36140.3	37006.7	507.15 µg/L	507.15 ppb	16:00:46
3	Cr 267.716†	57442.8	58392.6	502.72 µg/L	502.72 ppb	16:00:46
3	Cu 324.752†	118273.9	117722.1	501.75 µg/L	501.75 ppb	16:00:46
3	Mn 257.610†	365612.9	372470.9	503.15 µg/L	503.15 ppb	16:00:46
3	Mo 202.031†	15302.3	15617.7	503.68 µg/L	503.68 ppb	16:01:06
3	Ni 231.604†	38653.8	39484.0	505.47 µg/L	505.47 ppb	16:00:46
3	P 214.914†	10322.8	10536.2	2519.1 µg/L	2519.1 ppb	16:01:06
3	Pb 220.353†	8095.1	8176.9	508.06 µg/L	508.06 ppb	16:01:06
3	S 181.975 Axial†	1291.3	1212.1	1017.4 µg/L	1017.4 ppb	16:01:06
3	Sb 206.836†	3816.9	3817.5	501.19 µg/L	501.19 ppb	16:01:06
3	Se 196.026†	1232.0	1243.2	506 µg/L	506 ppb	16:01:06
3	SiO2†	51490.1	50777.1	5452.4 µg/L	5452.4 ppb	16:00:46
3	Si 251.611†	155094.1	157207.6	2547.6 µg/L	2547.6 ppb	16:00:46
3	Sn 189.927†	7115.6	7253.5	503.99 µg/L	503.99 ppb	16:01:06
3	Ti 334.940†	486569.8	495224.9	500.37 µg/L	500.37 ppb	16:00:46
3	Tl 190.801†	3563.4	3745.5	515.80 µg/L	515.80 ppb	16:01:06
3	U 409.014†	6911.6	7261.0	492.58 µg/L	492.58 ppb	16:00:46
3	V 292.402†	91882.9	93345.7	506.59 µg/L	506.59 ppb	16:00:46
3	Zn 213.857†	79840.3	80855.1	501.58 µg/L	501.58 ppb	16:00:46

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1720249.0	98.268 %	0.1993			0.20%
Sc RADIAL	144526.4	97.6 %	1.01			1.03%
Y 371.029	1023276.6	97.050 %	0.1567			0.16%
Ag 328.068†	123586.5	505.49 µg/L	0.879	505.49 ppb	0.879	0.17%
QC value within limits for Ag 328.068 Recovery = 101.10%						
Al 396.153Radial†	25428.5	5047.8 µg/L	29.92	5047.8 ppb	29.92	0.59%
QC value within limits for Al 396.153Radial Recovery = 100.96%						
As 188.979†	1484.2	504.40 µg/L	4.380	504.40 ppb	4.380	0.87%
QC value within limits for As 188.979 Recovery = 100.88%						
B 249.677†	30424.9	496.26 µg/L	0.623	496.26 ppb	0.623	0.13%
QC value within limits for B 249.677 Recovery = 99.25%						
Ba 233.527†	113649.0	501.76 µg/L	0.478	501.76 ppb	0.478	0.10%
QC value within limits for Ba 233.527 Recovery = 100.35%						
Be 313.107†	1682805.2	501.19 µg/L	0.231	501.19 ppb	0.231	0.05%
QC value within limits for Be 313.107 Recovery = 100.24%						
Ca 317.933Radial†	83007.4	5076.1 µg/L	6.28	5076.1 ppb	6.28	0.12%
QC value within limits for Ca 317.933Radial Recovery = 101.52%						
Cd 226.502†	72186.5	505.38 µg/L	0.525	505.38 ppb	0.525	0.10%
QC value within limits for Cd 226.502 Recovery = 101.08%						
Co 228.616†	36993.7	506.97 µg/L	0.192	506.97 ppb	0.192	0.04%

QC value within limits for Co 228.616 Recovery = 101.39%							
Cr 267.716†	58339.1	502.26 µg/L	0.464	502.26 ppb	0.464	0.09%	
QC value within limits for Cr 267.716 Recovery = 100.45%							
Cu 324.752†	117698.8	501.65 µg/L	0.104	501.65 ppb	0.104	0.02%	
QC value within limits for Cu 324.752 Recovery = 100.33%							
Fe 238.204 Radial†	74374.6	5041.2 µg/L	1.59	5041.2 ppb	1.59	0.03%	
QC value within limits for Fe 238.204 Radial Recovery = 100.82%							
K 766.490 Radial†	12525.8	5065.1 µg/L	50.75	5065.1 ppb	50.75	1.00%	
QC value within limits for K 766.490 Radial Recovery = 101.30%							
Mg 279.077 IEC†	12526.8	5173.9 µg/L	37.23	5173.9 ppb	37.23	0.72%	
QC value within limits for Mg 279.077 IEC Recovery = 103.48%							
Mn 257.610†	372543.1	503.25 µg/L	0.129	503.25 ppb	0.129	0.03%	
QC value within limits for Mn 257.610 Recovery = 100.65%							
Mo 202.031†	15638.3	504.34 µg/L	0.709	504.34 ppb	0.709	0.14%	
QC value within limits for Mo 202.031 Recovery = 100.87%							
Na 589.592 Radial†	67057.3	10064 µg/L	18.3	10064 ppb	18.3	0.18%	
QC value within limits for Na 589.592 Radial Recovery = 100.64%							
Ni 231.604†	39447.7	505.01 µg/L	1.878	505.01 ppb	1.878	0.37%	
QC value within limits for Ni 231.604 Recovery = 101.00%							
P 214.914†	10538.2	2519.6 µg/L	2.18	2519.6 ppb	2.18	0.09%	
QC value within limits for P 214.914 Recovery = 100.78%							
Pb 220.353†	8203.8	509.73 µg/L	1.446	509.73 ppb	1.446	0.28%	
QC value within limits for Pb 220.353 Recovery = 101.95%							
S 181.975 Axial†	1220.0	1024.0 µg/L	6.40	1024.0 ppb	6.40	0.62%	
QC value within limits for S 181.975 Axial Recovery = 102.40%							
Sb 206.836†	3835.7	503.59 µg/L	2.116	503.59 ppb	2.116	0.42%	
QC value within limits for Sb 206.836 Recovery = 100.72%							
Se 196.026†	1255.9	511 µg/L	4.6	511 ppb	4.6	0.90%	
QC value within limits for Se 196.026 Recovery = 102.21%							
SiO2†	50658.3	5439.6 µg/L	14.60	5439.6 ppb	14.60	0.27%	
QC value within limits for SiO2 Recovery = 101.72%							
Si 251.611†	157231.7	2548.0 µg/L	1.01	2548.0 ppb	1.01	0.04%	
QC value within limits for Si 251.611 Recovery = 101.92%							
Sn 189.927†	7251.9	503.88 µg/L	0.378	503.88 ppb	0.378	0.08%	
QC value within limits for Sn 189.927 Recovery = 100.78%							
Sr 421.552†	223937.5	503.62 µg/L	5.287	503.62 ppb	5.287	1.05%	
QC value within limits for Sr 421.552 Recovery = 100.72%							
Ti 334.940†	494907.0	500.05 µg/L	0.389	500.05 ppb	0.389	0.08%	
QC value within limits for Ti 334.940 Recovery = 100.01%							
Tl 190.801†	3736.6	514.60 µg/L	1.137	514.60 ppb	1.137	0.22%	
QC value within limits for Tl 190.801 Recovery = 102.92%							
U 409.014†	7284.8	494.12 µg/L	1.468	494.12 ppb	1.468	0.30%	
QC value within limits for U 409.014 Recovery = 98.82%							
V 292.402†	93406.5	506.92 µg/L	0.359	506.92 ppb	0.359	0.07%	
QC value within limits for V 292.402 Recovery = 101.38%							
Zn 213.857†	80850.6	501.55 µg/L	0.564	501.55 ppb	0.564	0.11%	
QC value within limits for Zn 213.857 Recovery = 100.31%							
All analyte(s) passed QC.							

Sequence No.: 39

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 16:01:14

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	146800.1	146800.1	99.1 %		16:01:43
1	Al 396.153Radial†	-56.8	4.0	0.7690 µg/L	0.7690 ppb	16:02:03
1	Ca 317.933Radial†	643.1	41.5	2.5362 µg/L	2.5362 ppb	16:02:03
1	Fe 238.204 Radial†	181.8	46.5	3.1538 µg/L	3.1538 ppb	16:02:03
1	K 766.490 Radial†	1601.4	65.6	26.564 µg/L	26.564 ppb	16:01:43
1	Mg 279.077 IEC†	155.0	-26.4	-10.859 µg/L	-10.859 ppb	16:02:03
1	Na 589.592 Radial†	1214.7	-93.7	-14.087 µg/L	-14.087 ppb	16:01:43
1	Sr 421.552†	-83.8	193.6	0.4353 µg/L	0.4353 ppb	16:01:43
1	Sc 361.383	1740383.9	1740383.9	99.418 %		16:02:51
1	Y 371.029	1046984.7	1046984.7	99.298 %		16:02:51
1	Ag 328.068†	3901.6	179.6	0.7147 µg/L	0.7147 ppb	16:02:53
1	As 188.979†	-17.7	-0.6	-0.2097 µg/L	-0.2097 ppb	16:03:13
1	B 249.677†	3320.4	57.0	0.9335 µg/L	0.9335 ppb	16:03:13
1	Ba 233.527†	-163.0	-9.5	-0.0420 µg/L	-0.0420 ppb	16:03:13
1	Be 313.107†	-724.7	115.7	0.0328 µg/L	0.0328 ppb	16:02:53
1	Cd 226.502†	-125.4	-24.0	-0.1681 µg/L	-0.1681 ppb	16:03:13
1	Co 228.616†	-180.5	-14.4	-0.1968 µg/L	-0.1968 ppb	16:03:13
1	Cr 267.716†	195.7	35.3	0.3087 µg/L	0.3087 ppb	16:03:13
1	Cu 324.752†	2777.1	-46.9	-0.2040 µg/L	-0.2040 ppb	16:02:53
1	Mn 257.610†	341.8	127.7	0.1730 µg/L	0.1730 ppb	16:03:13
1	Mo 202.031†	-4.3	15.1	0.4854 µg/L	0.4854 ppb	16:03:13
1	Ni 231.604†	-80.2	1.6	0.0206 µg/L	0.0206 ppb	16:03:13
1	P 214.914†	-6.7	6.8	1.6376 µg/L	1.6376 ppb	16:03:13
1	Pb 220.353†	112.5	38.4	2.3833 µg/L	2.3833 ppb	16:03:13
1	S 181.975 Axial†	104.8	1.2	1.0132 µg/L	1.0132 ppb	16:03:13
1	Sb 206.836†	70.2	-2.6	-0.3386 µg/L	-0.3386 ppb	16:03:13
1	Se 196.026†	30.8	18.4	7.46 µg/L	7.46 ppb	16:03:13
1	SiO2†	1755.2	56.2	6.0462 µg/L	6.0462 ppb	16:03:13
1	Si 251.611†	822.5	-60.1	-0.9849 µg/L	-0.9849 ppb	16:02:53
1	Sn 189.927†	1.9	2.2	0.1529 µg/L	0.1529 ppb	16:03:13
1	Ti 334.940†	860.7	106.5	0.1109 µg/L	0.1109 ppb	16:02:53
1	Tl 190.801†	-130.1	-17.7	-2.4016 µg/L	-2.4016 ppb	16:03:13
1	U 409.014†	-302.0	-88.2	-5.6298 µg/L	-5.6298 ppb	16:02:53
1	V 292.402†	255.7	-57.8	-0.3073 µg/L	-0.3073 ppb	16:02:53
1	Zn 213.857†	583.5	56.9	0.3556 µg/L	0.3556 ppb	16:03:13
2	Sc RADIAL	146007.9	146007.9	98.6 %		16:02:05
2	Al 396.153Radial†	-34.6	26.1	5.2087 µg/L	5.2087 ppb	16:02:25
2	Ca 317.933Radial†	629.0	30.8	1.8809 µg/L	1.8809 ppb	16:02:25
2	Fe 238.204 Radial†	195.1	61.0	4.1364 µg/L	4.1364 ppb	16:02:25
2	K 766.490 Radial†	1746.7	221.7	89.728 µg/L	89.728 ppb	16:02:05
2	Mg 279.077 IEC†	175.1	-5.1	-2.1200 µg/L	-2.1200 ppb	16:02:25
2	Na 589.592 Radial†	1364.2	64.6	9.6210 µg/L	9.6210 ppb	16:02:05
2	Sr 421.552†	-250.5	24.0	0.0540 µg/L	0.0540 ppb	16:02:05
2	Sc 361.383	1734256.8	1734256.8	99.068 %		16:03:15
2	Y 371.029	1043596.9	1043596.9	98.977 %		16:03:15
2	Ag 328.068†	3651.4	-59.1	-0.2312 µg/L	-0.2312 ppb	16:03:17
2	As 188.979†	-18.4	-1.4	-0.4824 µg/L	-0.4824 ppb	16:03:38
2	B 249.677†	3326.0	74.4	1.2186 µg/L	1.2186 ppb	16:03:38
2	Ba 233.527†	-166.4	-13.5	-0.0595 µg/L	-0.0595 ppb	16:03:38
2	Be 313.107†	-948.4	-112.7	-0.0329 µg/L	-0.0329 ppb	16:03:17
2	Cd 226.502†	-104.5	-3.3	-0.0239 µg/L	-0.0239 ppb	16:03:38
2	Co 228.616†	-171.2	-5.6	-0.0776 µg/L	-0.0776 ppb	16:03:38
2	Cr 267.716†	178.1	18.3	0.1559 µg/L	0.1559 ppb	16:03:38
2	Cu 324.752†	2912.8	99.9	0.4268 µg/L	0.4268 ppb	16:03:17
2	Mn 257.610†	322.2	109.2	0.1476 µg/L	0.1476 ppb	16:03:38
2	Mo 202.031†	-15.9	3.4	0.1085 µg/L	0.1085 ppb	16:03:38
2	Ni 231.604†	-102.3	-21.0	-0.2691 µg/L	-0.2691 ppb	16:03:38
2	P 214.914†	-4.3	9.3	2.2228 µg/L	2.2228 ppb	16:03:38
2	Pb 220.353†	48.1	-26.3	-1.6286 µg/L	-1.6286 ppb	16:03:38

2	S 181.975 Axial†	102.8	-0.4	-0.3186 µg/L	-0.3186 ppb	16:03:38
2	Sb 206.836†	73.2	0.7	0.0872 µg/L	0.0872 ppb	16:03:38
2	Se 196.026†	7.1	-5.4	-2.19 µg/L	-2.19 ppb	16:03:38
2	SiO2†	1759.0	66.3	7.1386 µg/L	7.1386 ppb	16:03:38
2	Si 251.611†	851.2	-28.2	-0.4625 µg/L	-0.4625 ppb	16:03:17
2	Sn 189.927†	6.1	6.5	0.4491 µg/L	0.4491 ppb	16:03:38
2	Ti 334.940†	856.9	105.7	0.1063 µg/L	0.1063 ppb	16:03:17
2	Tl 190.801†	-104.6	7.6	1.0399 µg/L	1.0399 ppb	16:03:38
2	U 409.014†	-180.9	33.0	2.1268 µg/L	2.1268 ppb	16:03:17
2	V 292.402†	392.9	81.7	0.4400 µg/L	0.4400 ppb	16:03:17
2	Zn 213.857†	597.0	72.5	0.4547 µg/L	0.4547 ppb	16:03:38
3	Sc RADIAL	146178.1	146178.1	98.7 %		16:02:27
3	Al 396.153Radial†	-32.2	28.7	5.6996 µg/L	5.6996 ppb	16:02:47
3	Ca 317.933Radial†	624.2	25.2	1.5391 µg/L	1.5391 ppb	16:02:47
3	Fe 238.204 Radial†	186.8	52.4	3.5504 µg/L	3.5504 ppb	16:02:47
3	K 766.490 Radial†	1625.9	97.3	39.386 µg/L	39.386 ppb	16:02:27
3	Mg 279.077 IEC†	172.8	-7.8	-3.1907 µg/L	-3.1907 ppb	16:02:47
3	Na 589.592 Radial†	1387.7	86.7	12.990 µg/L	12.990 ppb	16:02:27
3	Sr 421.552†	-150.1	126.0	0.2834 µg/L	0.2834 ppb	16:02:27
3	Sc 361.383	1734947.9	1734947.9	99.107 %		16:03:40
3	Y 371.029	1043322.8	1043322.8	98.951 %		16:03:40
3	Ag 328.068†	3933.8	224.4	0.9000 µg/L	0.9000 ppb	16:03:42
3	As 188.979†	-10.5	6.6	2.2052 µg/L	2.2052 ppb	16:04:02
3	B 249.677†	3313.1	60.1	0.9849 µg/L	0.9849 ppb	16:04:02
3	Ba 233.527†	-153.5	-0.4	-0.0015 µg/L	-0.0015 ppb	16:04:02
3	Be 313.107†	-816.7	20.6	0.0040 µg/L	0.0040 ppb	16:03:42
3	Cd 226.502†	-122.0	-20.9	-0.1470 µg/L	-0.1470 ppb	16:04:02
3	Co 228.616†	-175.8	-10.2	-0.1405 µg/L	-0.1405 ppb	16:04:02
3	Cr 267.716†	189.7	29.8	0.2626 µg/L	0.2626 ppb	16:04:02
3	Cu 324.752†	2801.7	-13.4	-0.0623 µg/L	-0.0623 ppb	16:03:42
3	Mn 257.610†	316.2	103.0	0.1393 µg/L	0.1393 ppb	16:04:02
3	Mo 202.031†	-8.5	10.8	0.3487 µg/L	0.3487 ppb	16:04:02
3	Ni 231.604†	-95.3	-13.9	-0.1774 µg/L	-0.1774 ppb	16:04:02
3	P 214.914†	-9.7	3.9	0.9183 µg/L	0.9183 ppb	16:04:02
3	Pb 220.353†	71.1	-3.0	-0.1810 µg/L	-0.1810 ppb	16:04:02
3	S 181.975 Axial†	101.7	-1.5	-1.2907 µg/L	-1.2907 ppb	16:04:02
3	Sb 206.836†	67.0	-5.6	-0.7345 µg/L	-0.7345 ppb	16:04:02
3	Se 196.026†	27.5	15.1	6.12 µg/L	6.12 ppb	16:04:02
3	SiO2†	1704.4	10.5	1.1306 µg/L	1.1306 ppb	16:04:02
3	Si 251.611†	937.8	59.0	0.9578 µg/L	0.9578 ppb	16:03:42
3	Sn 189.927†	-7.6	-7.4	-0.5138 µg/L	-0.5138 ppb	16:04:02
3	Ti 334.940†	737.8	-14.8	-0.0119 µg/L	-0.0119 ppb	16:03:42
3	Tl 190.801†	-101.3	11.0	1.5003 µg/L	1.5003 ppb	16:04:02
3	U 409.014†	-322.6	-109.9	-6.9811 µg/L	-6.9811 ppb	16:03:42
3	V 292.402†	347.8	35.9	0.1921 µg/L	0.1921 ppb	16:03:42
3	Zn 213.857†	588.0	63.2	0.3960 µg/L	0.3960 ppb	16:04:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1736529.5	99.198 %	0.1917			0.19%
Sc RADIAL	146328.7	98.8 %	0.28			0.28%
Y 371.029	1044634.8	99.076 %	0.1934			0.20%
Ag 328.068†	114.9	0.4612 µg/L	0.60670	0.4612 ppb	0.60670	131.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	19.6	3.8924 µg/L	2.71610	3.8924 ppb	2.71610	69.78%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.5	0.5044 µg/L	1.47923	0.5044 ppb	1.47923	293.29%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	63.9	1.0457 µg/L	0.15197	1.0457 ppb	0.15197	14.53%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-7.8	-0.0343 µg/L	0.02974	-0.0343 ppb	0.02974	86.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	7.9	0.0013 µg/L	0.03292	0.0013 ppb	0.03292	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	32.5	1.9854 µg/L	0.50670	1.9854 ppb	0.50670	25.52%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-16.1	-0.1130 µg/L	0.07787	-0.1130 ppb	0.07787	68.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-10.1	-0.1383 µg/L	0.05964	-0.1383 ppb	0.05964	43.12%

QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	27.8	0.2424 µg/L	0.07835	0.2424 ppb	0.07835	32.32%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	13.2	0.0535 µg/L	0.33097	0.0535 ppb	0.33097	618.70%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	53.3	3.6136 µg/L	0.49435	3.6136 ppb	0.49435	13.68%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	128.2	51.893 µg/L	33.3878	51.893 ppb	33.3878	64.34%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-13.1	-5.3900 µg/L	4.76673	-5.3900 ppb	4.76673	88.44%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	113.3	0.1533 µg/L	0.01754	0.1533 ppb	0.01754	11.45%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	9.7	0.3142 µg/L	0.19084	0.3142 ppb	0.19084	60.74%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	19.2	2.8413 µg/L	14.75646	2.8413 ppb	14.75646	519.35%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-11.1	-0.1420 µg/L	0.14808	-0.1420 ppb	0.14808	104.32%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	6.7	1.5929 µg/L	0.65341	1.5929 ppb	0.65341	41.02%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	3.0	0.1912 µg/L	2.03170	0.1912 ppb	2.03170	>999.9%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-0.2	-0.1987 µg/L	1.15659	-0.1987 ppb	1.15659	582.03%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-2.5	-0.3286 µg/L	0.41093	-0.3286 ppb	0.41093	125.05%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	9.4	3.80 µg/L	5.227	3.80 ppb	5.227	137.69%		
QC value within limits for Se 196.026 Recovery = Not calculated									
SiO2†		44.4	4.7718 µg/L	3.20034	4.7718 ppb	3.20034	67.07%		
QC value within limits for SiO2 Recovery = Not calculated									
Si	251.611†	-9.8	-0.1632 µg/L	1.00534	-0.1632 ppb	1.00534	616.15%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	0.4	0.0294 µg/L	0.49319	0.0294 ppb	0.49319	>999.9%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	114.5	0.2576 µg/L	0.19197	0.2576 ppb	0.19197	74.53%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	65.8	0.0684 µg/L	0.06960	0.0684 ppb	0.06960	101.72%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	0.3	0.0462 µg/L	2.13232	0.0462 ppb	2.13232	>999.9%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-55.0	-3.4947 µg/L	4.91506	-3.4947 ppb	4.91506	140.64%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	19.9	0.1082 µg/L	0.38064	0.1082 ppb	0.38064	351.64%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	64.2	0.4021 µg/L	0.04985	0.4021 ppb	0.04985	12.40%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
All analyte(s) passed QC.									

Sequence No.: 40

Autosampler Location: 332

Sample ID: 248511004|961532|1

Date Collected: 3/31/2010 16:04:09

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 248511004|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150882.3	150882.3	102 %		16:04:43
1	Al 396.153Radial†	278064.8	272971.3	54439 µg/L	54439 ppb	16:04:41
1	Ca 317.933Radial†	556241.7	545323.0	33348 µg/L	33348 ppb	16:04:41
1	Fe 238.204 Radial†	1053320.8	1033657.6	70062 µg/L	70062 ppb	16:04:41
1	K 766.490 Radial†	30456.5	28342.1	11451 µg/L	11451 ppb	16:04:43
1	Mg 279.077 IEC†	29135.0	28412.2	11657 µg/L	11657 ppb	16:04:43
1	Na 589.592 Radial†	4375.2	2975.1	436.50 µg/L	436.50 ppb	16:04:43
1	Sr 421.552†	99351.1	97787.5	219.68 µg/L	219.68 ppb	16:04:43
1	Sc 361.383	1743738.9	1743738.9	99.610 %		16:04:56
1	Y 371.029	1111142.3	1111142.3	105.38 %		16:04:56
1	Ag 328.068†	3636.8	-93.8	-1.6511 µg/L	-1.6511 ppb	16:04:56
1	As 188.979†	8.3	25.4	25.520 µg/L	25.520 ppb	16:05:16
1	B 249.677†	5750.7	2490.4	40.655 µg/L	40.655 ppb	16:04:56
1	Ba 233.527†	243125.5	244232.9	1076.6 µg/L	1076.6 ppb	16:04:56
1	Be 313.107†	21483.6	22412.5	6.6111 µg/L	6.6111 ppb	16:04:56
1	Cd 226.502†	991.8	1097.8	0.3623 µg/L	0.3623 ppb	16:05:16
1	Co 228.616†	2151.0	2326.6	29.294 µg/L	29.294 ppb	16:05:16
1	Cr 267.716†	15881.8	15782.5	137.40 µg/L	137.40 ppb	16:05:16
1	Cu 324.752†	13247.7	10459.4	54.810 µg/L	54.810 ppb	16:04:56
1	Mn 257.610†	2995869.7	3007396.1	4063.6 µg/L	4063.6 ppb	16:04:56
1	Mo 202.031†	-52.1	-32.9	1.9632 µg/L	1.9632 ppb	16:05:16
1	Ni 231.604†	6312.0	6419.1	82.177 µg/L	82.177 ppb	16:05:16
1	P 214.914†	10384.1	10438.4	2468.3 µg/L	2468.3 ppb	16:05:16
1	Pb 220.353†	1342.6	1273.0	83.716 µg/L	83.716 ppb	16:05:16
1	S 181.975 Axial†	2012.8	1916.5	1601.9 µg/L	1601.9 ppb	16:05:16
1	Sb 206.836†	70.6	-2.4	-3.4170 µg/L	-3.4170 ppb	16:05:16
1	Se 196.026†	-41.4	-54.1	2.18 µg/L	2.18 ppb	16:05:16
1	SiO2†	510129.3	510419.5	55025 µg/L	55025 ppb	16:04:56
1	Si 251.611†	1568026.4	1573285.1	25596 µg/L	25596 ppb	16:04:56
1	Sn 189.927†	-6.6	-6.3	8.7800 µg/L	8.7800 ppb	16:05:16
1	Ti 334.940†	2691398.6	2701188.4	2732.8 µg/L	2732.8 ppb	16:04:56
1	Tl 190.801†	-426.2	-314.7	-4.0575 µg/L	-4.0575 ppb	16:05:16
1	U 409.014†	-3438.3	-3236.1	-187.44 µg/L	-187.44 ppb	16:04:56
1	V 292.402†	22283.3	22055.7	108.63 µg/L	108.63 ppb	16:04:56
1	Zn 213.857†	40697.6	40327.0	246.05 µg/L	246.05 ppb	16:04:56
2	Sc RADIAL	150379.6	150379.6	102 %		16:04:47
2	Al 396.153Radial†	272667.9	268569.0	53561 µg/L	53561 ppb	16:04:45
2	Ca 317.933Radial†	544686.6	535769.0	32764 µg/L	32764 ppb	16:04:45
2	Fe 238.204 Radial†	1031076.6	1015208.3	68811 µg/L	68811 ppb	16:04:45
2	K 766.490 Radial†	30571.3	28555.1	11537 µg/L	11537 ppb	16:04:47
2	Mg 279.077 IEC†	29342.0	28711.6	11781 µg/L	11781 ppb	16:04:47
2	Na 589.592 Radial†	4355.6	2970.1	435.67 µg/L	435.67 ppb	16:04:47
2	Sr 421.552†	99904.3	98658.1	221.64 µg/L	221.64 ppb	16:04:47
2	Sc 361.383	1744115.7	1744115.7	99.631 %		16:05:19
2	Y 371.029	1112090.6	1112090.6	105.47 %		16:05:19
2	Ag 328.068†	4083.2	353.5	0.1775 µg/L	0.1775 ppb	16:05:19
2	As 188.979†	0.0	17.1	22.458 µg/L	22.458 ppb	16:05:39
2	B 249.677†	5656.7	2394.8	39.090 µg/L	39.090 ppb	16:05:19
2	Ba 233.527†	242872.8	243926.5	1075.2 µg/L	1075.2 ppb	16:05:19
2	Be 313.107†	21585.9	22510.5	6.6389 µg/L	6.6389 ppb	16:05:19
2	Cd 226.502†	998.3	1104.2	0.5381 µg/L	0.5381 ppb	16:05:39
2	Co 228.616†	2135.3	2310.4	29.136 µg/L	29.136 ppb	16:05:39
2	Cr 267.716†	15846.3	15743.4	137.02 µg/L	137.02 ppb	16:05:39
2	Cu 324.752†	13165.8	10374.3	54.266 µg/L	54.266 ppb	16:05:19
2	Mn 257.610†	2995105.5	3005979.4	4061.7 µg/L	4061.7 ppb	16:05:19
2	Mo 202.031†	-44.7	-25.5	2.1569 µg/L	2.1569 ppb	16:05:39
2	Ni 231.604†	6285.2	6390.7	81.814 µg/L	81.814 ppb	16:05:39
2	P 214.914†	10363.1	10415.1	2463.3 µg/L	2463.3 ppb	16:05:39
2	Pb 220.353†	1350.4	1280.6	84.177 µg/L	84.177 ppb	16:05:39

2	S 181.975 Axial†	1997.6	1900.8	1588.8 µg/L	1588.8 ppb	16:05:39
2	Sb 206.836†	89.8	16.9	-0.8615 µg/L	-0.8615 ppb	16:05:39
2	Se 196.026†	-32.3	-45.1	5.42 µg/L	5.42 ppb	16:05:39
2	SiO2†	509587.1	509764.7	54955 µg/L	54955 ppb	16:05:19
2	Si 251.611†	1566804.9	1571719.0	25571 µg/L	25571 ppb	16:05:19
2	Sn 189.927†	-15.3	-15.0	8.1742 µg/L	8.1742 ppb	16:05:39
2	Ti 334.940†	2691841.8	2701049.6	2732.6 µg/L	2732.6 ppb	16:05:19
2	Tl 190.801†	-421.0	-309.4	-3.3434 µg/L	-3.3434 ppb	16:05:39
2	U 409.014†	-3507.6	-3305.0	-191.56 µg/L	-191.56 ppb	16:05:19
2	V 292.402†	22349.6	22117.3	109.09 µg/L	109.09 ppb	16:05:19
2	Zn 213.857†	40795.6	40416.6	246.73 µg/L	246.73 ppb	16:05:19
3	Sc RADIAL	147364.3	147364.3	99.5 %		16:04:51
3	Al 396.153Radial†	275435.3	276844.1	55211 µg/L	55211 ppb	16:04:49
3	Ca 317.933Radial†	549867.7	551950.6	33753 µg/L	33753 ppb	16:04:49
3	Fe 238.204 Radial†	1041083.2	1046039.7	70901 µg/L	70901 ppb	16:04:49
3	K 766.490 Radial†	29667.5	28262.8	11419 µg/L	11419 ppb	16:04:51
3	Mg 279.077 IEC†	28146.1	28101.0	11528 µg/L	11528 ppb	16:04:51
3	Na 589.592 Radial†	4239.9	2941.6	431.50 µg/L	431.50 ppb	16:04:51
3	Sr 421.552†	96904.6	97656.8	219.38 µg/L	219.38 ppb	16:04:51
3	Sc 361.383	1767811.3	1767811.3	100.98 %		16:05:42
3	Y 371.029	1127049.2	1127049.2	106.89 %		16:05:42
3	Ag 328.068†	3899.2	116.4	-0.8166 µg/L	-0.8166 ppb	16:05:42
3	As 188.979†	21.3	38.2	29.981 µg/L	29.981 ppb	16:06:02
3	B 249.677†	5639.1	2301.3	37.561 µg/L	37.561 ppb	16:05:42
3	Ba 233.527†	245277.8	243040.6	1071.3 µg/L	1071.3 ppb	16:05:42
3	Be 313.107†	21836.3	22468.1	6.6268 µg/L	6.6268 ppb	16:05:42
3	Cd 226.502†	1022.3	1114.5	0.3907 µg/L	0.3907 ppb	16:06:02
3	Co 228.616†	2141.6	2287.9	28.714 µg/L	28.714 ppb	16:06:02
3	Cr 267.716†	15887.3	15570.8	135.61 µg/L	135.61 ppb	16:06:02
3	Cu 324.752†	13068.3	10100.5	53.402 µg/L	53.402 ppb	16:05:42
3	Mn 257.610†	3028936.1	2999185.3	4052.5 µg/L	4052.5 ppb	16:05:42
3	Mo 202.031†	-46.9	-27.1	2.1826 µg/L	2.1826 ppb	16:06:02
3	Ni 231.604†	6362.7	6383.0	81.714 µg/L	81.714 ppb	16:06:02
3	P 214.914†	10402.3	10314.4	2438.1 µg/L	2438.1 ppb	16:06:02
3	Pb 220.353†	1330.9	1243.1	81.879 µg/L	81.879 ppb	16:06:02
3	S 181.975 Axial†	2002.2	1878.5	1570.1 µg/L	1570.1 ppb	16:06:02
3	Sb 206.836†	69.1	-4.8	-3.7265 µg/L	-3.7265 ppb	16:06:02
3	Se 196.026†	-47.9	-60.0	0.078 µg/L	0.078 ppb	16:06:02
3	SiO2†	515530.2	508794.1	54850 µg/L	54850 ppb	16:05:42
3	Si 251.611†	1584532.2	1568194.3	25514 µg/L	25514 ppb	16:05:42
3	Sn 189.927†	-17.8	-17.4	7.9881 µg/L	7.9881 ppb	16:06:02
3	Ti 334.940†	2721436.7	2694141.1	2725.7 µg/L	2725.7 ppb	16:05:42
3	Tl 190.801†	-409.8	-292.6	-1.1642 µg/L	-1.1642 ppb	16:06:02
3	U 409.014†	-3525.8	-3275.8	-190.20 µg/L	-190.20 ppb	16:05:42
3	V 292.402†	22614.9	22079.4	108.66 µg/L	108.66 ppb	16:05:42
3	Zn 213.857†	41041.1	40110.8	244.62 µg/L	244.62 ppb	16:05:42

Mean Data: 248511004|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751888.6	100.08 %		0.788			0.79%
Sc RADIAL	149542.1	101 %		1.3			1.27%
Y 371.029	1116760.7	105.92 %		0.846			0.80%
Ag 328.068†	125.3	-0.7634 µg/L		0.91543	-0.7634 ppb	0.91543	119.92%
Al 396.153Radial†	272794.8	54404 µg/L		825.7	54404 ppb	825.7	1.52%
As 188.979†	26.9	25.987 µg/L		3.7831	25.987 ppb	3.7831	14.56%
B 249.677†	2395.5	39.102 µg/L		1.5473	39.102 ppb	1.5473	3.96%
Ba 233.527†	243733.3	1074.4 µg/L		2.74	1074.4 ppb	2.74	0.26%
Be 313.107†	22463.7	6.6256 µg/L		0.01397	6.6256 ppb	0.01397	0.21%
Ca 317.933Radial†	544347.5	33288 µg/L		497.5	33288 ppb	497.5	1.49%
Cd 226.502†	1105.5	0.4304 µg/L		0.09440	0.4304 ppb	0.09440	21.93%
Co 228.616†	2308.3	29.048 µg/L		0.2997	29.048 ppb	0.2997	1.03%
Cr 267.716†	15698.9	136.68 µg/L		0.942	136.68 ppb	0.942	0.69%
Cu 324.752†	10311.4	54.159 µg/L		0.7102	54.159 ppb	0.7102	1.31%
Fe 238.204 Radial†	1031635.2	69925 µg/L		1051.6	69925 ppb	1051.6	1.50%
K 766.490 Radial†	28386.7	11469 µg/L		61.4	11469 ppb	61.4	0.54%
Mg 279.077 IEC†	28408.3	11655 µg/L		126.8	11655 ppb	126.8	1.09%
Mn 257.610†	3004186.9	4059.3 µg/L		5.93	4059.3 ppb	5.93	0.15%
Mo 202.031†	-28.5	2.1009 µg/L		0.11996	2.1009 ppb	0.11996	5.71%
Na 589.592 Radial†	2962.3	434.56 µg/L		2.679	434.56 ppb	2.679	0.62%

Ni 231.604†	6397.6	81.902 µg/L	0.2432	81.902 ppb	0.2432	0.30%
P 214.914†	10389.3	2456.6 µg/L	16.16	2456.6 ppb	16.16	0.66%
Pb 220.353†	1265.6	83.257 µg/L	1.2160	83.257 ppb	1.2160	1.46%
S 181.975 Axial†	1898.6	1586.9 µg/L	15.98	1586.9 ppb	15.98	1.01%
Sb 206.836†	3.3	-2.6683 µg/L	1.57242	-2.6683 ppb	1.57242	58.93%
Se 196.026†	-53.1	2.56 µg/L	2.690	2.56 ppb	2.690	105.06%
SiO2†	509659.4	54944 µg/L	88.2	54944 ppb	88.2	0.16%
Si 251.611†	1571066.1	25560 µg/L	42.4	25560 ppb	42.4	0.17%
Sn 189.927†	-12.9	8.3141 µg/L	0.41409	8.3141 ppb	0.41409	4.98%
Sr 421.552†	98034.1	220.23 µg/L	1.228	220.23 ppb	1.228	0.56%
Ti 334.940†	2698793.0	2730.3 µg/L	4.06	2730.3 ppb	4.06	0.15%
Tl 190.801†	-305.5	-2.8550 µg/L	1.50718	-2.8550 ppb	1.50718	52.79%
U 409.014†	-3272.3	-189.73 µg/L	2.096	-189.73 ppb	2.096	1.10%
Concentration less than lower limit for U 409.014.						
V 292.402†	22084.1	108.79 µg/L	0.256	108.79 ppb	0.256	0.23%
Zn 213.857†	40284.8	245.80 µg/L	1.080	245.80 ppb	1.080	0.44%

Sequence No.: 41

Sample ID: 248511005|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 333

Date Collected: 3/31/2010 16:06:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511005|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148325.7	148325.7	100 %		16:06:43
1	Al 396.153Radial†	276085.3	275699.0	54983 µg/L	54983 ppb	16:06:41
1	Ca 317.933Radial†	475518.6	474140.4	28995 µg/L	28995 ppb	16:06:41
1	Fe 238.204 Radial†	1292994.7	1290761.6	87489 µg/L	87489 ppb	16:06:41
1	K 766.490 Radial†	26929.8	25336.3	10235 µg/L	10235 ppb	16:06:43
1	Mg 279.077 IEC†	29934.3	29703.0	12174 µg/L	12174 ppb	16:06:43
1	Na 589.592 Radial†	4334.1	3008.1	442.53 µg/L	442.53 ppb	16:06:43
1	Sr 421.552†	86359.5	86497.6	194.32 µg/L	194.32 ppb	16:06:43
1	Sc 361.383	1739670.4	1739670.4	99.377 %		16:06:55
1	Y 371.029	1122982.9	1122982.9	106.51 %		16:06:55
1	Ag 328.068†	3367.9	-355.8	-1.6780 µg/L	-1.6780 ppb	16:06:55
1	As 188.979†	19.0	36.3	32.274 µg/L	32.274 ppb	16:07:15
1	B 249.677†	5991.0	2745.7	44.846 µg/L	44.846 ppb	16:06:55
1	Ba 233.527†	124516.3	125451.2	552.39 µg/L	552.39 ppb	16:06:55
1	Be 313.107†	22192.3	23176.1	6.8281 µg/L	6.8281 ppb	16:06:55
1	Cd 226.502†	1215.0	1324.7	0.0965 µg/L	0.0965 ppb	16:07:15
1	Co 228.616†	1892.3	2071.3	24.358 µg/L	24.358 ppb	16:07:15
1	Cr 267.716†	6329.0	6207.1	56.070 µg/L	56.070 ppb	16:07:15
1	Cu 324.752†	9811.8	7033.0	42.774 µg/L	42.774 ppb	16:06:55
1	Mn 257.610†	1562566.7	1572143.9	2123.9 µg/L	2123.9 ppb	16:06:55
1	Mo 202.031†	-80.4	-61.6	1.7547 µg/L	1.7547 ppb	16:07:15
1	Ni 231.604†	2668.2	2767.2	35.425 µg/L	35.425 ppb	16:07:15
1	P 214.914†	6186.1	6238.4	1449.1 µg/L	1449.1 ppb	16:07:15
1	Pb 220.353†	1063.4	995.3	66.678 µg/L	66.678 ppb	16:07:15
1	S 181.975 Axial†	1465.1	1370.1	1145.2 µg/L	1145.2 ppb	16:07:15
1	Sb 206.836†	56.6	-16.3	-4.1495 µg/L	-4.1495 ppb	16:07:15
1	Se 196.026†	-66.1	-79.1	-1.91 µg/L	-1.91 ppb	16:07:15
1	SiO2†	411282.0	412150.4	44432 µg/L	44432 ppb	16:06:55
1	Si 251.611†	1264481.0	1271518.7	20687 µg/L	20687 ppb	16:06:55
1	Sn 189.927†	103.3	104.2	18.117 µg/L	18.117 ppb	16:07:15
1	Ti 334.940†	3175918.3	3195063.9	3232.3 µg/L	3232.3 ppb	16:06:55
1	Tl 190.801†	-405.8	-295.2	-1.0532 µg/L	-1.0532 ppb	16:07:15
1	U 409.014†	-3960.6	-3769.8	-235.45 µg/L	-235.45 ppb	16:06:55
1	V 292.402†	30551.6	30428.1	150.78 µg/L	150.78 ppb	16:06:55
1	Zn 213.857†	47948.7	47719.1	291.22 µg/L	291.22 ppb	16:06:55
2	Sc RADIAL	148595.4	148595.4	100 %		16:06:47
2	Al 396.153Radial†	271494.3	270623.4	53971 µg/L	53971 ppb	16:06:45
2	Ca 317.933Radial†	465007.1	462803.3	28302 µg/L	28302 ppb	16:06:45
2	Fe 238.204 Radial†	1264968.2	1260488.1	85437 µg/L	85437 ppb	16:06:45
2	K 766.490 Radial†	27009.9	25367.3	10248 µg/L	10248 ppb	16:06:47
2	Mg 279.077 IEC†	30338.5	30051.6	12320 µg/L	12320 ppb	16:06:47
2	Na 589.592 Radial†	4639.9	3305.0	487.09 µg/L	487.09 ppb	16:06:47
2	Sr 421.552†	87325.4	87303.7	196.14 µg/L	196.14 ppb	16:06:47
2	Sc 361.383	1762949.0	1762949.0	100.71 %		16:07:18
2	Y 371.029	1137001.0	1137001.0	107.84 %		16:07:18
2	Ag 328.068†	3681.5	-89.1	-0.5877 µg/L	-0.5877 ppb	16:07:18
2	As 188.979†	9.8	26.9	28.666 µg/L	28.666 ppb	16:07:38
2	B 249.677†	6075.4	2749.9	44.916 µg/L	44.916 ppb	16:07:18
2	Ba 233.527†	126724.5	125989.4	554.80 µg/L	554.80 ppb	16:07:18
2	Be 313.107†	22583.7	23269.8	6.8496 µg/L	6.8496 ppb	16:07:18
2	Cd 226.502†	1231.2	1324.7	0.3121 µg/L	0.3121 ppb	16:07:38
2	Co 228.616†	1876.2	2030.2	23.905 µg/L	23.905 ppb	16:07:38
2	Cr 267.716†	6323.2	6117.2	55.238 µg/L	55.238 ppb	16:07:38
2	Cu 324.752†	9681.6	6773.3	41.358 µg/L	41.358 ppb	16:07:18
2	Mn 257.610†	1588800.5	1577431.5	2131.1 µg/L	2131.1 ppb	16:07:18
2	Mo 202.031†	-73.8	-53.9	1.9233 µg/L	1.9233 ppb	16:07:38
2	Ni 231.604†	2664.9	2728.5	34.930 µg/L	34.930 ppb	16:07:38
2	P 214.914†	6125.2	6095.8	1416.1 µg/L	1416.1 ppb	16:07:38
2	Pb 220.353†	1040.0	957.9	64.390 µg/L	64.390 ppb	16:07:38

2	S 181.975 Axial†	1449.4	1335.1	1115.9 µg/L	1115.9 ppb	16:07:38
2	Sb 206.836†	89.7	15.8	0.0992 µg/L	0.0992 ppb	16:07:38
2	Se 196.026†	-49.3	-61.5	4.47 µg/L	4.47 ppb	16:07:38
2	SiO2†	418447.5	413800.9	44609 µg/L	44609 ppb	16:07:18
2	Si 251.611†	1287449.4	1277524.5	20785 µg/L	20785 ppb	16:07:18
2	Sn 189.927†	101.1	100.7	17.896 µg/L	17.896 ppb	16:07:38
2	Ti 334.940†	3224653.9	3201258.6	3238.6 µg/L	3238.6 ppb	16:07:18
2	Tl 190.801†	-420.5	-304.3	-2.2033 µg/L	-2.2033 ppb	16:07:38
2	U 409.014†	-4352.6	-4106.4	-256.34 µg/L	-256.34 ppb	16:07:18
2	V 292.402†	31129.2	30595.7	151.87 µg/L	151.87 ppb	16:07:18
2	Zn 213.857†	48941.2	48067.6	293.61 µg/L	293.61 ppb	16:07:18
3	Sc RADIAL	147488.7	147488.7	99.6 %		16:06:51
3	Al 396.153Radial†	274627.3	275799.2	55003 µg/L	55003 ppb	16:06:49
3	Ca 317.933Radial†	472477.5	473781.1	28973 µg/L	28973 ppb	16:06:49
3	Fe 238.204 Radial†	1287386.8	1292456.5	87603 µg/L	87603 ppb	16:06:49
3	K 766.490 Radial†	26545.0	25102.5	10140 µg/L	10140 ppb	16:06:51
3	Mg 279.077 IEC†	29692.2	29629.6	12144 µg/L	12144 ppb	16:06:51
3	Na 589.592 Radial†	4398.2	3096.9	455.95 µg/L	455.95 ppb	16:06:51
3	Sr 421.552†	85923.2	86548.8	194.43 µg/L	194.43 ppb	16:06:51
3	Sc 361.383	1772778.8	1772778.8	101.27 %		16:07:41
3	Y 371.029	1143979.0	1143979.0	108.50 %		16:07:41
3	Ag 328.068†	3519.5	-269.4	-1.3172 µg/L	-1.3172 ppb	16:07:41
3	As 188.979†	6.7	23.8	28.106 µg/L	28.106 ppb	16:08:01
3	B 249.677†	6244.5	2883.4	47.101 µg/L	47.101 ppb	16:07:41
3	Ba 233.527†	127856.4	126409.3	556.62 µg/L	556.62 ppb	16:07:41
3	Be 313.107†	22741.4	23301.2	6.8650 µg/L	6.8650 ppb	16:07:41
3	Cd 226.502†	1240.4	1327.0	0.1000 µg/L	0.1000 ppb	16:08:01
3	Co 228.616†	1909.1	2052.3	24.096 µg/L	24.096 ppb	16:08:01
3	Cr 267.716†	6379.9	6138.4	55.480 µg/L	55.480 ppb	16:08:01
3	Cu 324.752†	9893.8	6929.5	42.349 µg/L	42.349 ppb	16:07:41
3	Mn 257.610†	1602819.6	1582527.2	2138.0 µg/L	2138.0 ppb	16:07:41
3	Mo 202.031†	-66.5	-46.3	2.2519 µg/L	2.2519 ppb	16:08:01
3	Ni 231.604†	2691.0	2739.5	35.072 µg/L	35.072 ppb	16:08:01
3	P 214.914†	6188.7	6124.8	1421.8 µg/L	1421.8 ppb	16:08:01
3	Pb 220.353†	1079.9	991.5	66.467 µg/L	66.467 ppb	16:08:01
3	S 181.975 Axial†	1490.1	1367.3	1142.8 µg/L	1142.8 ppb	16:08:01
3	Sb 206.836†	59.1	-14.9	-3.9504 µg/L	-3.9504 ppb	16:08:01
3	Se 196.026†	-61.7	-73.6	0.357 µg/L	0.357 ppb	16:08:01
3	SiO2†	423670.3	416654.3	44917 µg/L	44917 ppb	16:07:41
3	Si 251.611†	1303169.8	1285959.4	20922 µg/L	20922 ppb	16:07:41
3	Sn 189.927†	102.1	101.1	17.958 µg/L	17.958 ppb	16:08:01
3	Ti 334.940†	3252962.7	3211458.0	3248.9 µg/L	3248.9 ppb	16:07:41
3	Tl 190.801†	-422.1	-303.6	-1.9799 µg/L	-1.9799 ppb	16:08:01
3	U 409.014†	-4055.6	-3789.2	-236.54 µg/L	-236.54 ppb	16:07:41
3	V 292.402†	31412.4	30703.9	152.23 µg/L	152.23 ppb	16:07:41
3	Zn 213.857†	49288.6	48141.2	293.86 µg/L	293.86 ppb	16:07:41

Mean Data: 248511005|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1758466.1	100.45 %	0.971			0.97%
Sc RADIAL	148136.6	100 %	0.4			0.39%
Y 371.029	1134654.3	107.61 %	1.014			0.94%
Ag 328.068†	-238.1	-1.1943 µg/L	0.55542	-1.1943 ppb	0.55542	46.51%
Al 396.153Radial†	274040.5	54652 µg/L	590.3	54652 ppb	590.3	1.08%
As 188.979†	29.0	29.682 µg/L	2.2620	29.682 ppb	2.2620	7.62%
B 249.677†	2793.0	45.621 µg/L	1.2823	45.621 ppb	1.2823	2.81%
Ba 233.527†	125950.0	554.60 µg/L	2.120	554.60 ppb	2.120	0.38%
Be 313.107†	23249.0	6.8476 µg/L	0.01852	6.8476 ppb	0.01852	0.27%
Ca 317.933Radial†	470241.6	28757 µg/L	394.1	28757 ppb	394.1	1.37%
Cd 226.502†	1325.5	0.1696 µg/L	0.12348	0.1696 ppb	0.12348	72.82%
Co 228.616†	2051.3	24.120 µg/L	0.2276	24.120 ppb	0.2276	0.94%
Cr 267.716†	6154.3	55.596 µg/L	0.4277	55.596 ppb	0.4277	0.77%
Cu 324.752†	6912.0	42.160 µg/L	0.7268	42.160 ppb	0.7268	1.72%
Fe 238.204 Radial†	1281235.4	86843 µg/L	1219.2	86843 ppb	1219.2	1.40%
K 766.490 Radial†	25268.7	10208 µg/L	58.7	10208 ppb	58.7	0.58%
Mg 279.077 IEC†	29794.7	12212 µg/L	94.0	12212 ppb	94.0	0.77%
Mn 257.610†	1577367.5	2131.0 µg/L	7.02	2131.0 ppb	7.02	0.33%
Mo 202.031†	-53.9	1.9766 µg/L	0.25286	1.9766 ppb	0.25286	12.79%
Na 589.592 Radial†	3136.7	461.86 µg/L	22.860	461.86 ppb	22.860	4.95%

Ni 231.604†	2745.1	35.142 µg/L	0.2553	35.142 ppb	0.2553	0.73%
P 214.914†	6153.0	1429.0 µg/L	17.66	1429.0 ppb	17.66	1.24%
Pb 220.353†	981.6	65.845 µg/L	1.2646	65.845 ppb	1.2646	1.92%
S 181.975 Axial†	1357.5	1134.6 µg/L	16.27	1134.6 ppb	16.27	1.43%
Sb 206.836†	-5.1	-2.6669 µg/L	2.39756	-2.6669 ppb	2.39756	89.90%
Se 196.026†	-71.4	0.975 µg/L	3.2355	0.975 ppb	3.2355	331.94%
SiO2†	414201.9	44653 µg/L	245.6	44653 ppb	245.6	0.55%
Si 251.611†	1278334.2	20798 µg/L	118.0	20798 ppb	118.0	0.57%
Sn 189.927†	102.0	17.990 µg/L	0.1137	17.990 ppb	0.1137	0.63%
Sr 421.552†	86783.3	194.96 µg/L	1.018	194.96 ppb	1.018	0.52%
Ti 334.940†	3202593.5	3239.9 µg/L	8.38	3239.9 ppb	8.38	0.26%
Tl 190.801†	-301.0	-1.7454 µg/L	0.60984	-1.7454 ppb	0.60984	34.94%
U 409.014†	-3888.5	-242.78 µg/L	11.755	-242.78 ppb	11.755	4.84%
Concentration less than lower limit for U 409.014.						
V 292.402†	30575.9	151.62 µg/L	0.756	151.62 ppb	0.756	0.50%
Zn 213.857†	47976.0	292.90 µg/L	1.458	292.90 ppb	1.458	0.50%

Sequence No.: 42

Sample ID: 248511006|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 334

Date Collected: 3/31/2010 16:08:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511006|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	147975.5	147975.5	99.9 %		16:08:41
1	Al 396.153Radial†	202610.1	202821.7	40449 µg/L	40449 ppb	16:08:39
1	Ca 317.933Radial†	426361.1	426070.2	26055 µg/L	26055 ppb	16:08:41
1	Fe 238.204 Radial†	1124949.3	1125647.0	76297 µg/L	76297 ppb	16:08:39
1	K 766.490 Radial†	23305.9	21773.4	8797.1 µg/L	8797.1 ppb	16:08:41
1	Mg 279.077 IEC†	23238.6	23073.1	9449.6 µg/L	9449.6 ppb	16:08:41
1	Na 589.592 Radial†	6185.5	4871.1	723.53 µg/L	723.53 ppb	16:08:41
1	Sr 421.552†	77279.7	77615.2	174.36 µg/L	174.36 ppb	16:08:41
1	Sc 361.383	1735902.8	1735902.8	99.162 %		16:09:08
1	Y 371.029	1169577.2	1169577.2	110.93 %		16:09:08
1	Ag 328.068†	4159.0	449.3	-0.1264 µg/L	-0.1264 ppb	16:09:10
1	As 188.979†	15.3	32.6	29.010 µg/L	29.010 ppb	16:09:30
1	B 249.677†	6317.1	3087.6	50.464 µg/L	50.464 ppb	16:09:10
1	Ba 233.527†	127165.7	128394.9	565.48 µg/L	565.48 ppb	16:09:10
1	Be 313.107†	25311.9	26370.5	7.7593 µg/L	7.7593 ppb	16:09:10
1	Cd 226.502†	1206.4	1318.7	1.2495 µg/L	1.2495 ppb	16:09:30
1	Co 228.616†	1450.8	1630.2	18.923 µg/L	18.923 ppb	16:09:30
1	Cr 267.716†	11995.7	11935.5	104.24 µg/L	104.24 ppb	16:09:30
1	Cu 324.752†	12995.0	10264.5	54.742 µg/L	54.742 ppb	16:09:10
1	Mn 257.610†	4003193.4	4036810.0	5454.9 µg/L	5454.9 ppb	16:09:08
1	Mo 202.031†	37.9	57.5	5.0765 µg/L	5.0765 ppb	16:09:30
1	Ni 231.604†	5517.9	5646.8	72.291 µg/L	72.291 ppb	16:09:30
1	P 214.914†	6811.9	6883.1	1608.1 µg/L	1608.1 ppb	16:09:30
1	Pb 220.353†	1439.3	1376.6	89.475 µg/L	89.475 ppb	16:09:30
1	S 181.975 Axial†	1822.0	1733.2	1448.7 µg/L	1448.7 ppb	16:09:30
1	Sb 206.836†	86.0	13.5	-0.7996 µg/L	-0.7996 ppb	16:09:30
1	Se 196.026†	-35.6	-48.5	6.52 µg/L	6.52 ppb	16:09:30
1	SiO2†	416925.4	418739.7	45142 µg/L	45142 ppb	16:09:10
1	Si 251.611†	1275845.5	1285740.8	20918 µg/L	20918 ppb	16:09:08
1	Sn 189.927†	210.4	212.4	24.764 µg/L	24.764 ppb	16:09:30
1	Ti 334.940†	2922590.2	2946531.0	2981.0 µg/L	2981.0 ppb	16:09:08
1	Tl 190.801†	-477.9	-368.8	-5.4574 µg/L	-5.4574 ppb	16:09:30
1	U 409.014†	-4982.6	-4809.1	-281.67 µg/L	-281.67 ppb	16:09:10
1	V 292.402†	17521.2	17354.3	82.381 µg/L	82.381 ppb	16:09:10
1	Zn 213.857†	104840.1	105196.0	650.98 µg/L	650.98 ppb	16:09:10
2	Sc RADIAL	148127.1	148127.1	100 %		16:08:45
2	Al 396.153Radial†	202983.4	202987.3	40482 µg/L	40482 ppb	16:08:43
2	Ca 317.933Radial†	429409.3	428680.7	26215 µg/L	26215 ppb	16:08:45
2	Fe 238.204 Radial†	1131845.1	1131388.3	76686 µg/L	76686 ppb	16:08:43
2	K 766.490 Radial†	23489.2	21932.8	8861.5 µg/L	8861.5 ppb	16:08:45
2	Mg 279.077 IEC†	23504.7	23315.3	9549.2 µg/L	9549.2 ppb	16:08:45
2	Na 589.592 Radial†	6192.6	4871.8	723.58 µg/L	723.58 ppb	16:08:45
2	Sr 421.552†	77736.4	77992.6	175.21 µg/L	175.21 ppb	16:08:45
2	Sc 361.383	1753033.1	1753033.1	100.14 %		16:09:33
2	Y 371.029	1182340.7	1182340.7	112.14 %		16:09:33
2	Ag 328.068†	3692.4	-57.6	-2.1345 µg/L	-2.1345 ppb	16:09:35
2	As 188.979†	13.7	30.8	28.496 µg/L	28.496 ppb	16:09:55
2	B 249.677†	6359.0	3067.3	50.133 µg/L	50.133 ppb	16:09:35
2	Ba 233.527†	128048.8	128023.6	563.84 µg/L	563.84 ppb	16:09:35
2	Be 313.107†	25632.4	26441.1	7.7897 µg/L	7.7897 ppb	16:09:35
2	Cd 226.502†	1193.9	1294.4	1.0377 µg/L	1.0377 ppb	16:09:55
2	Co 228.616†	1427.9	1593.1	18.392 µg/L	18.392 ppb	16:09:55
2	Cr 267.716†	12033.4	11855.0	103.53 µg/L	103.53 ppb	16:09:55
2	Cu 324.752†	13085.6	10226.9	54.667 µg/L	54.667 ppb	16:09:35
2	Mn 257.610†	4042615.3	4036727.6	5454.8 µg/L	5454.8 ppb	16:09:33
2	Mo 202.031†	46.6	65.9	5.3631 µg/L	5.3631 ppb	16:09:55
2	Ni 231.604†	5552.8	5627.3	72.040 µg/L	72.040 ppb	16:09:55
2	P 214.914†	6814.9	6818.9	1592.4 µg/L	1592.4 ppb	16:09:55
2	Pb 220.353†	1448.4	1371.6	89.134 µg/L	89.134 ppb	16:09:55

2	S 181.975 Axial†	1846.0	1739.3	1453.8 µg/L	1453.8 ppb	16:09:55
2	Sb 206.836†	74.7	1.4	-2.3711 µg/L	-2.3711 ppb	16:09:55
2	Se 196.026†	-34.9	-47.5	7.11 µg/L	7.11 ppb	16:09:55
2	SiO2†	420133.1	417834.4	45044 µg/L	45044 ppb	16:09:35
2	Si 251.611†	1291825.8	1289126.1	20973 µg/L	20973 ppb	16:09:33
2	Sn 189.927†	206.0	206.0	24.327 µg/L	24.327 ppb	16:09:55
2	Ti 334.940†	2955097.2	2950192.1	2984.7 µg/L	2984.7 ppb	16:09:33
2	Tl 190.801†	-489.1	-375.2	-6.2806 µg/L	-6.2806 ppb	16:09:55
2	U 409.014†	-4544.7	-4322.7	-250.75 µg/L	-250.75 ppb	16:09:35
2	V 292.402†	17816.3	17476.4	83.011 µg/L	83.011 ppb	16:09:35
2	Zn 213.857†	105818.9	105140.4	650.59 µg/L	650.59 ppb	16:09:35
3	Sc RADIAL	149735.4	149735.4	101 %		16:08:49
3	Al 396.153Radial†	203109.8	200932.8	40072 µg/L	40072 ppb	16:08:47
3	Ca 317.933Radial†	434218.2	428825.8	26224 µg/L	26224 ppb	16:08:49
3	Fe 238.204 Radial†	1133218.2	1120592.9	75954 µg/L	75954 ppb	16:08:47
3	K 766.490 Radial†	23912.0	22098.7	8928.8 µg/L	8928.8 ppb	16:08:49
3	Mg 279.077 IEC†	23718.7	23274.5	9533.0 µg/L	9533.0 ppb	16:08:49
3	Na 589.592 Radial†	6211.9	4824.5	716.41 µg/L	716.41 ppb	16:08:49
3	Sr 421.552†	78393.6	77807.8	174.79 µg/L	174.79 ppb	16:08:49
3	Sc 361.383	1748996.6	1748996.6	99.910 %		16:09:57
3	Y 371.029	1179137.8	1179137.8	111.83 %		16:09:57
3	Ag 328.068†	3879.1	137.7	-1.3694 µg/L	-1.3694 ppb	16:10:00
3	As 188.979†	9.3	26.5	26.896 µg/L	26.896 ppb	16:10:20
3	B 249.677†	6343.2	3066.1	50.110 µg/L	50.110 ppb	16:10:00
3	Ba 233.527†	128689.1	128959.5	567.98 µg/L	567.98 ppb	16:10:00
3	Be 313.107†	25547.7	26415.4	7.7761 µg/L	7.7761 ppb	16:10:00
3	Cd 226.502†	1210.0	1313.2	1.2472 µg/L	1.2472 ppb	16:10:20
3	Co 228.616†	1477.3	1645.8	19.157 µg/L	19.157 ppb	16:10:20
3	Cr 267.716†	12238.0	12087.5	105.52 µg/L	105.52 ppb	16:10:20
3	Cu 324.752†	13373.5	10545.3	55.897 µg/L	55.897 ppb	16:10:00
3	Mn 257.610†	4045689.1	4049121.0	5471.5 µg/L	5471.5 ppb	16:09:57
3	Mo 202.031†	2.4	21.8	3.9138 µg/L	3.9138 ppb	16:10:20
3	Ni 231.604†	5631.8	5719.2	73.217 µg/L	73.217 ppb	16:10:20
3	P 214.914†	6978.9	6998.8	1636.0 µg/L	1636.0 ppb	16:10:20
3	Pb 220.353†	1496.1	1422.6	92.308 µg/L	92.308 ppb	16:10:20
3	S 181.975 Axial†	1879.8	1777.3	1485.5 µg/L	1485.5 ppb	16:10:20
3	Sb 206.836†	76.5	3.4	-2.1508 µg/L	-2.1508 ppb	16:10:20
3	Se 196.026†	-46.2	-58.8	2.23 µg/L	2.23 ppb	16:10:20
3	SiO2†	421998.1	420669.3	45350 µg/L	45350 ppb	16:10:00
3	Si 251.611†	1289865.8	1290141.5	20990 µg/L	20990 ppb	16:09:57
3	Sn 189.927†	215.8	216.2	25.049 µg/L	25.049 ppb	16:10:20
3	Ti 334.940†	2951048.4	2952950.1	2987.5 µg/L	2987.5 ppb	16:09:57
3	Tl 190.801†	-490.4	-377.6	-6.5426 µg/L	-6.5426 ppb	16:10:20
3	U 409.014†	-4839.7	-4628.4	-269.94 µg/L	-269.94 ppb	16:10:00
3	V 292.402†	17779.2	17480.2	83.087 µg/L	83.087 ppb	16:10:00
3	Zn 213.857†	106200.1	105765.8	654.57 µg/L	654.57 ppb	16:10:00

Mean Data: 248511006|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745977.5	99.737 %	0.5116			0.51%
Sc RADIAL	148612.6	100 %	0.7			0.66%
Y 371.029	1177018.5	111.63 %	0.630			0.56%
Ag 328.068†	176.4	-1.2101 µg/L	1.01350	-1.2101 ppb	1.01350	83.75%
Al 396.153Radial†	202247.3	40334 µg/L	227.6	40334 ppb	227.6	0.56%
As 188.979†	29.9	28.134 µg/L	1.1026	28.134 ppb	1.1026	3.92%
B 249.677†	3073.7	50.236 µg/L	0.1981	50.236 ppb	0.1981	0.39%
Ba 233.527†	128459.3	565.77 µg/L	2.084	565.77 ppb	2.084	0.37%
Be 313.107†	26409.0	7.7750 µg/L	0.01521	7.7750 ppb	0.01521	0.20%
Ca 317.933Radial†	427858.9	26165 µg/L	94.8	26165 ppb	94.8	0.36%
Cd 226.502†	1308.8	1.1781 µg/L	0.12161	1.1781 ppb	0.12161	10.32%
Co 228.616†	1623.0	18.824 µg/L	0.3918	18.824 ppb	0.3918	2.08%
Cr 267.716†	11959.3	104.43 µg/L	1.008	104.43 ppb	1.008	0.97%
Cu 324.752†	10345.6	55.102 µg/L	0.6896	55.102 ppb	0.6896	1.25%
Fe 238.204 Radial†	1125876.1	76313 µg/L	366.1	76313 ppb	366.1	0.48%
K 766.490 Radial†	21935.0	8862.5 µg/L	65.85	8862.5 ppb	65.85	0.74%
Mg 279.077 IEC†	23221.0	9510.6 µg/L	53.42	9510.6 ppb	53.42	0.56%
Mn 257.610†	4040886.2	5460.4 µg/L	9.64	5460.4 ppb	9.64	0.18%
Mo 202.031†	48.4	4.7845 µg/L	0.76751	4.7845 ppb	0.76751	16.04%
Na 589.592 Radial†	4855.8	721.17 µg/L	4.122	721.17 ppb	4.122	0.57%

Ni 231.604†	5664.4	72.516 µg/L	0.6200	72.516 ppb	0.6200	0.85%
P 214.914†	6900.3	1612.2 µg/L	22.08	1612.2 ppb	22.08	1.37%
Pb 220.353†	1390.3	90.306 µg/L	1.7423	90.306 ppb	1.7423	1.93%
S 181.975 Axial†	1749.9	1462.7 µg/L	19.96	1462.7 ppb	19.96	1.36%
Sb 206.836†	6.1	-1.7738 µg/L	0.85091	-1.7738 ppb	0.85091	47.97%
Se 196.026†	-51.6	5.29 µg/L	2.664	5.29 ppb	2.664	50.41%
SiO2†	419081.1	45178 µg/L	156.1	45178 ppb	156.1	0.35%
Si 251.611†	1288336.1	20960 µg/L	37.5	20960 ppb	37.5	0.18%
Sn 189.927†	211.5	24.714 µg/L	0.3636	24.714 ppb	0.3636	1.47%
Sr 421.552†	77805.2	174.79 µg/L	0.424	174.79 ppb	0.424	0.24%
Ti 334.940†	2949891.1	2984.4 µg/L	3.25	2984.4 ppb	3.25	0.11%
Tl 190.801†	-373.8	-6.0935 µg/L	0.56629	-6.0935 ppb	0.56629	9.29%
U 409.014†	-4586.8	-267.45 µg/L	15.605	-267.45 ppb	15.605	5.83%
Concentration less than lower limit for U 409.014.						
V 292.402†	17437.0	82.826 µg/L	0.3875	82.826 ppb	0.3875	0.47%
Zn 213.857†	105367.4	652.05 µg/L	2.191	652.05 ppb	2.191	0.34%

Sequence No.: 43

Sample ID: 248511007|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 335

Date Collected: 3/31/2010 16:10:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511007|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149916.6	149916.6	101 %		16:10:59
1	Al 396.153Radial†	429556.1	424370.0	84633 µg/L	84633 ppb	16:10:59
1	Ca 317.933Radial†	244591.3	240996.2	14738 µg/L	14738 ppb	16:10:59
1	Fe 238.204 Radial†	1811067.3	1788807.1	121250 µg/L	121250 ppb	16:10:57
1	K 766.490 Radial†	33588.2	31628.1	12777 µg/L	12777 ppb	16:10:59
1	Mg 279.077 IEC†	42405.3	41704.5	17094 µg/L	17094 ppb	16:10:59
1	Na 589.592 Radial†	7870.0	6454.8	957.78 µg/L	957.78 ppb	16:10:59
1	Sr 421.552†	69798.6	69224.0	155.58 µg/L	155.58 ppb	16:10:59
1	Sc 361.383	1759313.0	1759313.0	100.50 %		16:11:12
1	Y 371.029	1174552.5	1174552.5	111.40 %		16:11:12
1	Ag 328.068†	3219.9	-541.0	-1.5134 µg/L	-1.5134 ppb	16:11:14
1	As 188.979†	14.2	31.2	38.512 µg/L	38.512 ppb	16:11:34
1	B 249.677†	5586.2	2275.6	37.116 µg/L	37.116 ppb	16:11:14
1	Ba 233.527†	112059.0	111656.8	491.15 µg/L	491.15 ppb	16:11:14
1	Be 313.107†	33938.8	34614.9	10.204 µg/L	10.204 ppb	16:11:14
1	Cd 226.502†	1758.9	1852.3	0.2510 µg/L	0.2510 ppb	16:11:34
1	Co 228.616†	2639.1	2793.1	32.430 µg/L	32.430 ppb	16:11:34
1	Cr 267.716†	10727.7	10512.9	94.469 µg/L	94.469 ppb	16:11:34
1	Cu 324.752†	9806.9	6917.9	47.258 µg/L	47.258 ppb	16:11:14
1	Mn 257.610†	1276681.9	1270124.0	1715.5 µg/L	1715.5 ppb	16:11:12
1	Mo 202.031†	-81.4	-61.7	3.1991 µg/L	3.1991 ppb	16:11:34
1	Ni 231.604†	4087.1	4149.0	53.116 µg/L	53.116 ppb	16:11:34
1	P 214.914†	3806.2	3800.9	847.87 µg/L	847.87 ppb	16:11:34
1	Pb 220.353†	1261.1	1180.0	80.813 µg/L	80.813 ppb	16:11:34
1	S 181.975 Axial†	673.1	565.6	472.71 µg/L	472.71 ppb	16:11:34
1	Sb 206.836†	70.0	-3.5	-3.5755 µg/L	-3.5755 ppb	16:11:34
1	Se 196.026†	-95.2	-107.3	-1.74 µg/L	-1.74 ppb	16:11:34
1	SiO2†	579447.2	574859.5	61972 µg/L	61972 ppb	16:11:14
1	Si 251.611†	1793947.7	1784148.9	29027 µg/L	29027 ppb	16:11:12
1	Sn 189.927†	-23.2	-22.8	14.072 µg/L	14.072 ppb	16:11:34
1	Ti 334.940†	4610428.8	4586767.3	4639.6 µg/L	4639.6 ppb	16:11:12
1	Tl 190.801†	-508.0	-392.2	-0.7140 µg/L	-0.7140 ppb	16:11:34
1	U 409.014†	-5591.0	-5347.6	-343.13 µg/L	-343.13 ppb	16:11:14
1	V 292.402†	42978.7	42450.2	210.38 µg/L	210.38 ppb	16:11:14
1	Zn 213.857†	65714.0	64857.5	396.17 µg/L	396.17 ppb	16:11:14
2	Sc RADIAL	150230.3	150230.3	101 %		16:11:03
2	Al 396.153Radial†	430603.8	424516.6	84662 µg/L	84662 ppb	16:11:03
2	Ca 317.933Radial†	245667.9	241552.9	14772 µg/L	14772 ppb	16:11:03
2	Fe 238.204 Radial†	1834925.2	1808587.9	122590 µg/L	122590 ppb	16:11:01
2	K 766.490 Radial†	33628.9	31598.9	12765 µg/L	12765 ppb	16:11:03
2	Mg 279.077 IEC†	42463.8	41674.7	17081 µg/L	17081 ppb	16:11:03
2	Na 589.592 Radial†	7807.4	6376.9	946.09 µg/L	946.09 ppb	16:11:03
2	Sr 421.552†	70251.3	69526.3	156.26 µg/L	156.26 ppb	16:11:03
2	Sc 361.383	1738375.8	1738375.8	99.303 %		16:11:37
2	Y 371.029	1161850.9	1161850.9	110.19 %		16:11:37
2	Ag 328.068†	3372.6	-348.6	-0.7373 µg/L	-0.7373 ppb	16:11:39
2	As 188.979†	26.0	43.3	42.859 µg/L	42.859 ppb	16:11:59
2	B 249.677†	5449.1	2204.5	35.949 µg/L	35.949 ppb	16:11:39
2	Ba 233.527†	110083.3	111010.2	488.28 µg/L	488.28 ppb	16:11:39
2	Be 313.107†	33544.7	34624.7	10.208 µg/L	10.208 ppb	16:11:39
2	Cd 226.502†	1756.1	1870.5	0.2381 µg/L	0.2381 ppb	16:11:59
2	Co 228.616†	2686.9	2872.9	33.450 µg/L	33.450 ppb	16:11:59
2	Cr 267.716†	10753.3	10667.2	95.842 µg/L	95.842 ppb	16:11:59
2	Cu 324.752†	9754.0	6982.1	47.730 µg/L	47.730 ppb	16:11:39
2	Mn 257.610†	1255850.2	1264446.2	1707.8 µg/L	1707.8 ppb	16:11:37
2	Mo 202.031†	-88.7	-69.9	2.9861 µg/L	2.9861 ppb	16:11:59
2	Ni 231.604†	4105.8	4216.9	53.984 µg/L	53.984 ppb	16:11:59
2	P 214.914†	3805.6	3845.9	857.75 µg/L	857.75 ppb	16:11:59
2	Pb 220.353†	1281.4	1215.5	82.958 µg/L	82.958 ppb	16:11:59

2	S 181.975 Axial†	677.9	578.5	483.50 µg/L	483.50 ppb	16:11:59
2	Sb 206.836†	75.3	2.6	-2.8120 µg/L	-2.8120 ppb	16:11:59
2	Se 196.026†	-87.0	-100.2	1.59 µg/L	1.59 ppb	16:11:59
2	SiO2†	569592.0	571879.5	61651 µg/L	61651 ppb	16:11:39
2	Si 251.611†	1763667.7	1775155.7	28881 µg/L	28881 ppb	16:11:37
2	Sn 189.927†	-40.5	-40.5	12.820 µg/L	12.820 ppb	16:11:59
2	Ti 334.940†	4549100.6	4580261.5	4633.0 µg/L	4633.0 ppb	16:11:37
2	Tl 190.801†	-501.3	-391.6	-0.7179 µg/L	-0.7179 ppb	16:11:59
2	U 409.014†	-5454.4	-5277.1	-339.00 µg/L	-339.00 ppb	16:11:39
2	V 292.402†	42475.4	42458.5	210.30 µg/L	210.30 ppb	16:11:39
2	Zn 213.857†	64490.7	64413.2	393.24 µg/L	393.24 ppb	16:11:39
3	Sc RADIAL	150281.3	150281.3	101 %		16:11:07
3	Al 396.153Radial†	429880.3	423659.6	84491 µg/L	84491 ppb	16:11:07
3	Ca 317.933Radial†	245132.8	240943.4	14734 µg/L	14734 ppb	16:11:07
3	Fe 238.204 Radial†	1828374.1	1801518.9	122110 µg/L	122110 ppb	16:11:05
3	K 766.490 Radial†	33753.0	31710.0	12810 µg/L	12810 ppb	16:11:07
3	Mg 279.077 IEC†	42528.1	41723.9	17102 µg/L	17102 ppb	16:11:07
3	Na 589.592 Radial†	7870.4	6436.4	954.98 µg/L	954.98 ppb	16:11:07
3	Sr 421.552†	70050.2	69304.7	155.76 µg/L	155.76 ppb	16:11:07
3	Sc 361.383	1771006.8	1771006.8	101.17 %		16:12:02
3	Y 371.029	1182708.4	1182708.4	112.17 %		16:12:02
3	Ag 328.068†	3434.4	-350.1	-0.7279 µg/L	-0.7279 ppb	16:12:04
3	As 188.979†	12.8	29.8	38.231 µg/L	38.231 ppb	16:12:24
3	B 249.677†	5650.7	2302.6	37.559 µg/L	37.559 ppb	16:12:04
3	Ba 233.527†	112410.1	111267.6	489.42 µg/L	489.42 ppb	16:12:04
3	Be 313.107†	34357.6	34805.9	10.266 µg/L	10.266 ppb	16:12:04
3	Cd 226.502†	1765.2	1847.0	0.1234 µg/L	0.1234 ppb	16:12:24
3	Co 228.616†	2661.2	2797.6	32.445 µg/L	32.445 ppb	16:12:24
3	Cr 267.716†	10742.4	10456.9	94.005 µg/L	94.005 ppb	16:12:24
3	Cu 324.752†	9873.4	6919.2	47.403 µg/L	47.403 ppb	16:12:04
3	Mn 257.610†	1277291.5	1262338.6	1705.0 µg/L	1705.0 ppb	16:12:02
3	Mo 202.031†	-96.3	-75.8	2.7775 µg/L	2.7775 ppb	16:12:24
3	Ni 231.604†	4146.9	4181.3	53.529 µg/L	53.529 ppb	16:12:24
3	P 214.914†	3830.1	3799.5	846.92 µg/L	846.92 ppb	16:12:24
3	Pb 220.353†	1236.2	1147.1	78.696 µg/L	78.696 ppb	16:12:24
3	S 181.975 Axial†	664.0	552.1	461.49 µg/L	461.49 ppb	16:12:24
3	Sb 206.836†	70.9	-3.1	-3.5264 µg/L	-3.5264 ppb	16:12:24
3	Se 196.026†	-76.1	-87.8	6.47 µg/L	6.47 ppb	16:12:24
3	SiO2†	582465.6	574036.0	61884 µg/L	61884 ppb	16:12:04
3	Si 251.611†	1793755.5	1772172.5	28832 µg/L	28832 ppb	16:12:02
3	Sn 189.927†	-36.0	-35.3	13.129 µg/L	13.129 ppb	16:12:24
3	Ti 334.940†	4618248.4	4564205.5	4616.7 µg/L	4616.7 ppb	16:12:02
3	Tl 190.801†	-498.5	-379.5	0.7563 µg/L	0.7563 ppb	16:12:24
3	U 409.014†	-5352.1	-5074.8	-326.05 µg/L	-326.05 ppb	16:12:04
3	V 292.402†	43196.6	42383.2	209.96 µg/L	209.96 ppb	16:12:04
3	Zn 213.857†	65741.1	64452.6	393.53 µg/L	393.53 ppb	16:12:04

Mean Data: 248511007|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1756231.9	100.32 %	0.944			0.94%
Sc RADIAL	150142.7	101 %	0.1			0.13%
Y 371.029	1173037.3	111.25 %	0.997			0.90%
Ag 328.068†	-413.2	-0.9929 µg/L	0.45078	-0.9929 ppb	0.45078	45.40%
Al 396.153Radial†	424182.1	84595 µg/L	91.4	84595 ppb	91.4	0.11%
As 188.979†	34.8	39.867 µg/L	2.5949	39.867 ppb	2.5949	6.51%
B 249.677†	2260.9	36.875 µg/L	0.8315	36.875 ppb	0.8315	2.25%
Ba 233.527†	111311.5	489.62 µg/L	1.445	489.62 ppb	1.445	0.30%
Be 313.107†	34681.8	10.226 µg/L	0.0347	10.226 ppb	0.0347	0.34%
Ca 317.933Radial†	241164.2	14748 µg/L	20.6	14748 ppb	20.6	0.14%
Cd 226.502†	1856.6	0.2042 µg/L	0.07025	0.2042 ppb	0.07025	34.41%
Co 228.616†	2821.2	32.775 µg/L	0.5848	32.775 ppb	0.5848	1.78%
Cr 267.716†	10545.7	94.772 µg/L	0.9554	94.772 ppb	0.9554	1.01%
Cu 324.752†	6939.7	47.464 µg/L	0.2418	47.464 ppb	0.2418	0.51%
Fe 238.204 Radial†	1799638.0	121980 µg/L	679.4	121980 ppb	679.4	0.56%
K 766.490 Radial†	31645.6	12784 µg/L	23.3	12784 ppb	23.3	0.18%
Mg 279.077 IEC†	41701.0	17092 µg/L	10.5	17092 ppb	10.5	0.06%
Mn 257.610†	1265636.2	1709.4 µg/L	5.44	1709.4 ppb	5.44	0.32%
Mo 202.031†	-69.1	2.9876 µg/L	0.21081	2.9876 ppb	0.21081	7.06%
Na 589.592 Radial†	6422.7	952.95 µg/L	6.105	952.95 ppb	6.105	0.64%

Ni 231.604†	4182.4	53.543 µg/L	0.4344	53.543 ppb	0.4344	0.81%
P 214.914†	3815.4	850.85 µg/L	5.998	850.85 ppb	5.998	0.70%
Pb 220.353†	1180.9	80.822 µg/L	2.1308	80.822 ppb	2.1308	2.64%
S 181.975 Axial†	565.4	472.57 µg/L	11.004	472.57 ppb	11.004	2.33%
Sb 206.836†	-1.3	-3.3046 µg/L	0.42731	-3.3046 ppb	0.42731	12.93%
Se 196.026†	-98.5	2.11 µg/L	4.126	2.11 ppb	4.126	195.63%
SiO2†	573591.7	61836 µg/L	165.9	61836 ppb	165.9	0.27%
Si 251.611†	1777159.0	28913 µg/L	101.4	28913 ppb	101.4	0.35%
Sn 189.927†	-32.9	13.341 µg/L	0.6523	13.341 ppb	0.6523	4.89%
Sr 421.552†	69351.7	155.87 µg/L	0.352	155.87 ppb	0.352	0.23%
Ti 334.940†	4577078.1	4629.8 µg/L	11.75	4629.8 ppb	11.75	0.25%
Tl 190.801†	-387.8	-0.2252 µg/L	0.85001	-0.2252 ppb	0.85001	377.47%
U 409.014†	-5233.2	-336.06 µg/L	8.910	-336.06 ppb	8.910	2.65%
Concentration less than lower limit for U 409.014.						
V 292.402†	42430.6	210.21 µg/L	0.224	210.21 ppb	0.224	0.11%
Zn 213.857†	64574.4	394.31 µg/L	1.614	394.31 ppb	1.614	0.41%

Sequence No.: 44
 Sample ID: 248511008|961532|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 336
 Date Collected: 3/31/2010 16:12:31
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511008|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149298.7	149298.7	101 %			16:13:03
1	Al 396.153Radial†	409397.8	406131.5	80995 µg/L		80995 ppb	16:13:03
1	Ca 317.933Radial†	362877.3	359320.7	21973 µg/L		21973 ppb	16:13:03
1	Fe 238.204 Radial†	1743662.5	1729353.5	117220 µg/L		117220 ppb	16:13:01
1	K 766.490 Radial†	36037.1	34194.5	13815 µg/L		13815 ppb	16:13:03
1	Mg 279.077 IEC†	41690.1	41168.5	16877 µg/L		16877 ppb	16:13:03
1	Na 589.592 Radial†	6712.4	5338.8	789.29 µg/L		789.29 ppb	16:13:03
1	Sr 421.552†	100755.1	100214.3	225.22 µg/L		225.22 ppb	16:13:03
1	Sc 361.383	1780801.9	1780801.9	101.73 %			16:13:16
1	Y 371.029	1184181.0	1184181.0	112.31 %			16:13:16
1	Ag 328.068†	3465.4	-338.2	-1.4982 µg/L		-1.4982 ppb	16:13:18
1	As 188.979†	17.6	34.4	40.356 µg/L		40.356 ppb	16:13:38
1	B 249.677†	5182.1	1811.3	29.306 µg/L		29.306 ppb	16:13:18
1	Ba 233.527†	208737.3	205348.5	904.51 µg/L		904.51 ppb	16:13:18
1	Be 313.107†	33527.6	33803.2	9.9565 µg/L		9.9565 ppb	16:13:18
1	Cd 226.502†	1742.9	1815.5	0.4640 µg/L		0.4640 ppb	16:13:38
1	Co 228.616†	7143.0	7188.9	93.282 µg/L		93.282 ppb	16:13:38
1	Cr 267.716†	31800.4	31099.1	271.08 µg/L		271.08 ppb	16:13:18
1	Cu 324.752†	14177.5	11096.5	64.441 µg/L		64.441 ppb	16:13:18
1	Mn 257.610†	2956804.1	2906397.8	3926.8 µg/L		3926.8 ppb	16:13:16
1	Mo 202.031†	-86.3	-65.5	2.9122 µg/L		2.9122 ppb	16:13:38
1	Ni 231.604†	11911.6	11791.7	150.96 µg/L		150.96 ppb	16:13:38
1	P 214.914†	5601.9	5520.4	1262.1 µg/L		1262.1 ppb	16:13:38
1	Pb 220.353†	1853.5	1747.2	115.55 µg/L		115.55 ppb	16:13:38
1	S 181.975 Axial†	1372.7	1245.2	1040.8 µg/L		1040.8 ppb	16:13:38
1	Sb 206.836†	95.5	20.7	-2.9907 µg/L		-2.9907 ppb	16:13:38
1	Se 196.026†	-69.2	-80.6	7.65 µg/L		7.65 ppb	16:13:38
1	SiO2†	597063.6	585219.5	63089 µg/L		63089 ppb	16:13:18
1	Si 251.611†	1860657.1	1828186.0	29744 µg/L		29744 ppb	16:13:16
1	Sn 189.927†	-50.4	-49.3	11.486 µg/L		11.486 ppb	16:13:38
1	Ti 334.940†	4443335.6	4367152.9	4417.5 µg/L		4417.5 ppb	16:13:16
1	Tl 190.801†	-547.8	-425.3	-2.0410 µg/L		-2.0410 ppb	16:13:38
1	U 409.014†	-5948.2	-5631.7	-345.93 µg/L		-345.93 ppb	16:13:18
1	V 292.402†	43261.1	42211.8	210.49 µg/L		210.49 ppb	16:13:18
1	Zn 213.857†	61029.7	59463.7	361.78 µg/L		361.78 ppb	16:13:18
2	Sc RADIAL	149122.8	149122.8	101 %			16:13:07
2	Al 396.153Radial†	408551.2	405769.9	80923 µg/L		80923 ppb	16:13:07
2	Ca 317.933Radial†	362749.7	359618.6	21992 µg/L		21992 ppb	16:13:07
2	Fe 238.204 Radial†	1723187.7	1711061.6	115980 µg/L		115980 ppb	16:13:05
2	K 766.490 Radial†	36180.8	34379.3	13890 µg/L		13890 ppb	16:13:07
2	Mg 279.077 IEC†	41685.9	41213.1	16896 µg/L		16896 ppb	16:13:07
2	Na 589.592 Radial†	6725.5	5359.7	792.35 µg/L		792.35 ppb	16:13:07
2	Sr 421.552†	101055.8	100630.8	226.16 µg/L		226.16 ppb	16:13:07
2	Sc 361.383	1765430.1	1765430.1	100.85 %			16:13:41
2	Y 371.029	1173608.5	1173608.5	111.31 %			16:13:41
2	Ag 328.068†	3287.8	-484.8	-2.0546 µg/L		-2.0546 ppb	16:13:43
2	As 188.979†	15.0	32.0	39.284 µg/L		39.284 ppb	16:14:03
2	B 249.677†	5127.7	1801.7	29.143 µg/L		29.143 ppb	16:13:43
2	Ba 233.527†	208554.4	206953.9	911.61 µg/L		911.61 ppb	16:13:43
2	Be 313.107†	33697.4	34258.5	10.093 µg/L		10.093 ppb	16:13:43
2	Cd 226.502†	1748.9	1836.4	0.7419 µg/L		0.7419 ppb	16:14:03
2	Co 228.616†	7220.2	7326.6	95.240 µg/L		95.240 ppb	16:14:03
2	Cr 267.716†	31814.4	31385.1	273.49 µg/L		273.49 ppb	16:13:43
2	Cu 324.752†	14443.4	11481.6	65.901 µg/L		65.901 ppb	16:13:43
2	Mn 257.610†	2943144.1	2918160.9	3942.7 µg/L		3942.7 ppb	16:13:41
2	Mo 202.031†	-67.2	-47.3	3.4501 µg/L		3.4501 ppb	16:14:03
2	Ni 231.604†	12001.2	11982.5	153.40 µg/L		153.40 ppb	16:14:03
2	P 214.914†	5658.2	5624.2	1287.8 µg/L		1287.8 ppb	16:14:03
2	Pb 220.353†	1871.6	1781.0	117.71 µg/L		117.71 ppb	16:14:03

2	S 181.975 Axial†	1390.2	1274.3	1065.1 µg/L	1065.1 ppb	16:14:03
2	Sb 206.836†	78.0	4.2	-5.1660 µg/L	-5.1660 ppb	16:14:03
2	Se 196.026†	-77.9	-89.8	3.51 µg/L	3.51 ppb	16:14:03
2	SiO2†	598380.6	591635.9	63781 µg/L	63781 ppb	16:13:43
2	Si 251.611†	1851662.9	1835193.5	29858 µg/L	29858 ppb	16:13:41
2	Sn 189.927†	-53.6	-52.9	11.313 µg/L	11.313 ppb	16:14:03
2	Ti 334.940†	4426793.4	4388781.8	4439.4 µg/L	4439.4 ppb	16:13:41
2	Tl 190.801†	-560.9	-443.0	-4.1653 µg/L	-4.1653 ppb	16:14:03
2	U 409.014†	-5841.6	-5576.8	-341.92 µg/L	-341.92 ppb	16:13:43
2	V 292.402†	43328.6	42649.0	212.96 µg/L	212.96 ppb	16:13:43
2	Zn 213.857†	60788.6	59747.0	363.68 µg/L	363.68 ppb	16:13:43
3	Sc RADIAL	150300.3	150300.3	101 %		16:13:11
3	Al 396.153Radial†	412539.5	406520.8	81073 µg/L	81073 ppb	16:13:11
3	Ca 317.933Radial†	366005.0	360003.7	22015 µg/L	22015 ppb	16:13:11
3	Fe 238.204 Radial†	1748693.3	1722784.5	116770 µg/L	116770 ppb	16:13:09
3	K 766.490 Radial†	36291.0	34206.4	13820 µg/L	13820 ppb	16:13:11
3	Mg 279.077 IEC†	42002.7	41201.0	16890 µg/L	16890 ppb	16:13:11
3	Na 589.592 Radial†	6860.0	5439.9	804.45 µg/L	804.45 ppb	16:13:11
3	Sr 421.552†	101794.9	100572.8	226.03 µg/L	226.03 ppb	16:13:11
3	Sc 361.383	1755398.6	1755398.6	100.28 %		16:14:06
3	Y 371.029	1168801.3	1168801.3	110.85 %		16:14:06
3	Ag 328.068†	3750.8	-4.4	-0.1073 µg/L	-0.1073 ppb	16:14:08
3	As 188.979†	1.7	18.8	35.084 µg/L	35.084 ppb	16:14:28
3	B 249.677†	5265.0	1967.7	31.859 µg/L	31.859 ppb	16:14:08
3	Ba 233.527†	210334.0	209910.3	924.64 µg/L	924.64 ppb	16:14:08
3	Be 313.107†	34270.7	35021.2	10.315 µg/L	10.315 ppb	16:14:08
3	Cd 226.502†	1759.2	1856.5	0.7998 µg/L	0.7998 ppb	16:14:28
3	Co 228.616†	7210.7	7358.1	95.643 µg/L	95.643 ppb	16:14:28
3	Cr 267.716†	32116.4	31866.6	277.68 µg/L	277.68 ppb	16:14:08
3	Cu 324.752†	14500.1	11619.9	66.590 µg/L	66.590 ppb	16:14:08
3	Mn 257.610†	2931846.3	2923571.7	3950.0 µg/L	3950.0 ppb	16:14:06
3	Mo 202.031†	-107.5	-87.9	2.1750 µg/L	2.1750 ppb	16:14:28
3	Ni 231.604†	12033.5	12082.8	154.68 µg/L	154.68 ppb	16:14:28
3	P 214.914†	5679.7	5677.7	1300.2 µg/L	1300.2 ppb	16:14:28
3	Pb 220.353†	1867.7	1787.8	118.13 µg/L	118.13 ppb	16:14:28
3	S 181.975 Axial†	1400.0	1291.9	1079.8 µg/L	1079.8 ppb	16:14:28
3	Sb 206.836†	100.4	26.9	-2.2750 µg/L	-2.2750 ppb	16:14:28
3	Se 196.026†	-80.5	-92.9	2.53 µg/L	2.53 ppb	16:14:28
3	SiO2†	602228.2	598863.6	64560 µg/L	64560 ppb	16:14:08
3	Si 251.611†	1844456.0	1838498.9	29911 µg/L	29911 ppb	16:14:06
3	Sn 189.927†	-45.0	-44.6	11.916 µg/L	11.916 ppb	16:14:28
3	Ti 334.940†	4409684.0	4396804.2	4447.5 µg/L	4447.5 ppb	16:14:06
3	Tl 190.801†	-561.5	-446.7	-4.5545 µg/L	-4.5545 ppb	16:14:28
3	U 409.014†	-6091.9	-5859.6	-359.87 µg/L	-359.87 ppb	16:14:08
3	V 292.402†	43656.0	43221.0	215.92 µg/L	215.92 ppb	16:14:08
3	Zn 213.857†	61376.5	60677.7	369.41 µg/L	369.41 ppb	16:14:08

Mean Data: 248511008|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1767210.2	100.95 %	%	0.731			0.72%
Sc RADIAL	149573.9	101 %	%	0.4			0.42%
Y 371.029	1175530.3	111.49 %	%	0.746			0.67%
Ag 328.068†	-275.8	-1.2200 µg/L	µg/L	1.00299	-1.2200 ppb	1.00299	82.21%
Al 396.153Radial†	406140.8	80997 µg/L	µg/L	74.9	80997 ppb	74.9	0.09%
As 188.979†	28.4	38.241 µg/L	µg/L	2.7861	38.241 ppb	2.7861	7.29%
B 249.677†	1860.2	30.103 µg/L	µg/L	1.5230	30.103 ppb	1.5230	5.06%
Ba 233.527†	207404.2	913.59 µg/L	µg/L	10.211	913.59 ppb	10.211	1.12%
Be 313.107†	34360.9	10.122 µg/L	µg/L	0.1808	10.122 ppb	0.1808	1.79%
Ca 317.933Radial†	359647.6	21993 µg/L	µg/L	20.9	21993 ppb	20.9	0.10%
Cd 226.502†	1836.1	0.6686 µg/L	µg/L	0.17950	0.6686 ppb	0.17950	26.85%
Co 228.616†	7291.2	94.722 µg/L	µg/L	1.2628	94.722 ppb	1.2628	1.33%
Cr 267.716†	31450.3	274.08 µg/L	µg/L	3.341	274.08 ppb	3.341	1.22%
Cu 324.752†	11399.3	65.644 µg/L	µg/L	1.0973	65.644 ppb	1.0973	1.67%
Fe 238.204 Radial†	1721066.5	116650 µg/L	µg/L	628.1	116650 ppb	628.1	0.54%
K 766.490 Radial†	34260.1	13842 µg/L	µg/L	41.9	13842 ppb	41.9	0.30%
Mg 279.077 IEC†	41194.2	16888 µg/L	µg/L	10.0	16888 ppb	10.0	0.06%
Mn 257.610†	2916043.5	3939.9 µg/L	µg/L	11.87	3939.9 ppb	11.87	0.30%
Mo 202.031†	-66.9	2.8458 µg/L	µg/L	0.64013	2.8458 ppb	0.64013	22.49%
Na 589.592 Radial†	5379.4	795.36 µg/L	µg/L	8.019	795.36 ppb	8.019	1.01%

Ni 231.604†	11952.3	153.01 µg/L	1.893	153.01 ppb	1.893	1.24%
P 214.914†	5607.4	1283.4 µg/L	19.41	1283.4 ppb	19.41	1.51%
Pb 220.353†	1772.0	117.13 µg/L	1.384	117.13 ppb	1.384	1.18%
S 181.975 Axial†	1270.5	1061.9 µg/L	19.73	1061.9 ppb	19.73	1.86%
Sb 206.836†	17.3	-3.4772 µg/L	1.50562	-3.4772 ppb	1.50562	43.30%
Se 196.026†	-87.8	4.56 µg/L	2.716	4.56 ppb	2.716	59.52%
SiO2†	591906.3	63810 µg/L	735.9	63810 ppb	735.9	1.15%
Si 251.611†	1833959.5	29837 µg/L	85.7	29837 ppb	85.7	0.29%
Sn 189.927†	-48.9	11.571 µg/L	0.3104	11.571 ppb	0.3104	2.68%
Sr 421.552†	100472.6	225.80 µg/L	0.507	225.80 ppb	0.507	0.22%
Ti 334.940†	4384246.3	4434.8 µg/L	15.52	4434.8 ppb	15.52	0.35%
Tl 190.801†	-438.3	-3.5869 µg/L	1.35292	-3.5869 ppb	1.35292	37.72%
U 409.014†	-5689.3	-349.24 µg/L	9.425	-349.24 ppb	9.425	2.70%
Concentration less than lower limit for U 409.014.						
V 292.402†	42693.9	213.12 µg/L	2.721	213.12 ppb	2.721	1.28%
Zn 213.857†	59962.8	364.96 µg/L	3.972	364.96 ppb	3.972	1.09%

Sequence No.: 45

Sample ID: 248511009|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 337

Date Collected: 3/31/2010 16:14:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511009|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	147248.3	147248.3	99.4 %		16:15:07
1	Al 396.153Radial†	278230.4	279873.0	55815 µg/L	55815 ppb	16:15:05
1	Ca 317.933Radial†	496786.7	499003.0	30515 µg/L	30515 ppb	16:15:05
1	Fe 238.204 Radial†	1391051.9	1398821.2	94813 µg/L	94813 ppb	16:15:05
1	K 766.490 Radial†	36332.9	34989.6	14141 µg/L	14141 ppb	16:15:07
1	Mg 279.077 IEC†	28015.7	27992.2	11462 µg/L	11462 ppb	16:15:07
1	Na 589.592 Radial†	4898.7	3607.5	529.06 µg/L	529.06 ppb	16:15:07
1	Sr 421.552†	95433.1	96253.6	216.25 µg/L	216.25 ppb	16:15:07
1	Sc 361.383	1744738.1	1744738.1	99.667 %		16:15:20
1	Y 371.029	1195846.6	1195846.6	113.42 %		16:15:20
1	Ag 328.068†	3707.1	-25.3	-1.0122 µg/L	-1.0122 ppb	16:15:20
1	As 188.979†	20.1	37.3	34.899 µg/L	34.899 ppb	16:15:40
1	B 249.677†	6748.7	3488.4	56.998 µg/L	56.998 ppb	16:15:20
1	Ba 233.527†	137029.9	137642.6	606.06 µg/L	606.06 ppb	16:15:20
1	Be 313.107†	27383.7	28319.9	8.3396 µg/L	8.3396 ppb	16:15:20
1	Cd 226.502†	1270.2	1376.6	-0.2917 µg/L	-0.2917 ppb	16:15:40
1	Co 228.616†	2008.2	2182.0	25.557 µg/L	25.557 ppb	16:15:40
1	Cr 267.716†	13973.2	13858.4	122.17 µg/L	122.17 ppb	16:15:40
1	Cu 324.752†	10304.0	7498.2	45.744 µg/L	45.744 ppb	16:15:20
1	Mn 257.610†	1814823.4	1820677.2	2459.8 µg/L	2459.8 ppb	16:15:20
1	Mo 202.031†	-28.7	-9.4	3.7006 µg/L	3.7006 ppb	16:15:40
1	Ni 231.604†	5628.3	5729.4	73.348 µg/L	73.348 ppb	16:15:40
1	P 214.914†	7716.0	7755.4	1808.2 µg/L	1808.2 ppb	16:15:40
1	Pb 220.353†	1076.1	1004.9	67.082 µg/L	67.082 ppb	16:15:40
1	S 181.975 Axial†	1044.3	943.6	788.68 µg/L	788.68 ppb	16:15:40
1	Sb 206.836†	57.4	-15.6	-5.1969 µg/L	-5.1969 ppb	16:15:40
1	Se 196.026†	-49.8	-62.5	7.26 µg/L	7.26 ppb	16:15:40
1	SiO2†	484009.8	483919.4	52169 µg/L	52169 ppb	16:15:20
1	Si 251.611†	1488091.2	1492181.0	24277 µg/L	24277 ppb	16:15:20
1	Sn 189.927†	-13.6	-13.3	9.8241 µg/L	9.8241 ppb	16:15:40
1	Ti 334.940†	3140470.6	3150215.0	3187.0 µg/L	3187.0 ppb	16:15:20
1	Tl 190.801†	-424.3	-312.5	-3.2562 µg/L	-3.2562 ppb	16:15:40
1	U 409.014†	-5012.9	-4814.0	-303.39 µg/L	-303.39 ppb	16:15:20
1	V 292.402†	24209.0	23975.0	115.74 µg/L	115.74 ppb	16:15:20
1	Zn 213.857†	60436.8	60108.9	367.62 µg/L	367.62 ppb	16:15:20
2	Sc RADIAL	145955.5	145955.5	98.6 %		16:15:11
2	Al 396.153Radial†	274635.3	278703.9	55582 µg/L	55582 ppb	16:15:09
2	Ca 317.933Radial†	487961.9	494474.9	30239 µg/L	30239 ppb	16:15:09
2	Fe 238.204 Radial†	1365687.1	1385477.8	93909 µg/L	93909 ppb	16:15:09
2	K 766.490 Radial†	36178.1	35156.2	14209 µg/L	14209 ppb	16:15:11
2	Mg 279.077 IEC†	27603.0	27823.0	11393 µg/L	11393 ppb	16:15:11
2	Na 589.592 Radial†	4736.6	3486.7	510.86 µg/L	510.86 ppb	16:15:11
2	Sr 421.552†	94942.8	96606.3	217.04 µg/L	217.04 ppb	16:15:11
2	Sc 361.383	1743419.6	1743419.6	99.591 %		16:15:43
2	Y 371.029	1194955.5	1194955.5	113.33 %		16:15:43
2	Ag 328.068†	3738.3	8.8	-0.8623 µg/L	-0.8623 ppb	16:15:43
2	As 188.979†	8.9	26.1	30.941 µg/L	30.941 ppb	16:16:03
2	B 249.677†	6521.6	3265.5	53.348 µg/L	53.348 ppb	16:15:43
2	Ba 233.527†	137243.6	137961.3	607.48 µg/L	607.48 ppb	16:15:43
2	Be 313.107†	27256.5	28213.0	8.3057 µg/L	8.3057 ppb	16:15:43
2	Cd 226.502†	1300.6	1408.0	0.0236 µg/L	0.0236 ppb	16:16:03
2	Co 228.616†	2025.4	2200.9	25.864 µg/L	25.864 ppb	16:16:03
2	Cr 267.716†	14068.9	13965.1	123.07 µg/L	123.07 ppb	16:16:03
2	Cu 324.752†	10290.6	7492.5	45.581 µg/L	45.581 ppb	16:15:43
2	Mn 257.610†	1819843.7	1827095.3	2468.5 µg/L	2468.5 ppb	16:15:43
2	Mo 202.031†	-55.4	-36.2	2.7988 µg/L	2.7988 ppb	16:16:03
2	Ni 231.604†	5644.3	5749.8	73.609 µg/L	73.609 ppb	16:16:03
2	P 214.914†	7742.3	7787.7	1816.5 µg/L	1816.5 ppb	16:16:03
2	Pb 220.353†	1051.2	980.7	65.612 µg/L	65.612 ppb	16:16:03

2	S 181.975 Axial†	1050.6	950.8	794.68 µg/L	794.68 ppb	16:16:03
2	Sb 206.836†	92.5	19.6	-0.5929 µg/L	-0.5929 ppb	16:16:03
2	Se 196.026†	-51.9	-64.7	6.08 µg/L	6.08 ppb	16:16:03
2	SiO2†	485575.3	485858.6	52378 µg/L	52378 ppb	16:15:43
2	Si 251.611†	1492858.3	1498096.8	24373 µg/L	24373 ppb	16:15:43
2	Sn 189.927†	0.4	0.7	10.828 µg/L	10.828 ppb	16:16:03
2	Ti 334.940†	3147569.4	3159726.1	3196.7 µg/L	3196.7 ppb	16:15:43
2	Tl 190.801†	-433.0	-321.6	-4.3688 µg/L	-4.3688 ppb	16:16:03
2	U 409.014†	-5115.7	-4921.1	-309.91 µg/L	-309.91 ppb	16:15:43
2	V 292.402†	24344.2	24129.1	116.64 µg/L	116.64 ppb	16:15:43
2	Zn 213.857†	60896.9	60616.8	370.89 µg/L	370.89 ppb	16:15:43
3	Sc RADIAL	148363.7	148363.7	100 %		16:15:16
3	Al 396.153Radial†	276914.1	276455.5	55134 µg/L	55134 ppb	16:15:14
3	Ca 317.933Radial†	492875.3	491342.9	30047 µg/L	30047 ppb	16:15:14
3	Fe 238.204 Radial†	1379411.1	1376684.8	93313 µg/L	93313 ppb	16:15:14
3	K 766.490 Radial†	36806.3	35187.4	14222 µg/L	14222 ppb	16:15:16
3	Mg 279.077 IEC†	28430.4	28194.2	11547 µg/L	11547 ppb	16:15:16
3	Na 589.592 Radial†	4825.4	3497.4	512.45 µg/L	512.45 ppb	16:15:16
3	Sr 421.552†	96521.4	96618.3	217.07 µg/L	217.07 ppb	16:15:16
3	Sc 361.383	1737681.6	1737681.6	99.264 %		16:16:06
3	Y 371.029	1192158.7	1192158.7	113.07 %		16:16:06
3	Ag 328.068†	3498.6	-220.3	-1.7868 µg/L	-1.7868 ppb	16:16:06
3	As 188.979†	16.8	34.0	33.469 µg/L	33.469 ppb	16:16:26
3	B 249.677†	6430.5	3195.3	52.199 µg/L	52.199 ppb	16:16:06
3	Ba 233.527†	136699.1	137867.7	607.07 µg/L	607.07 ppb	16:16:06
3	Be 313.107†	27073.1	28118.7	8.2762 µg/L	8.2762 ppb	16:16:06
3	Cd 226.502†	1296.5	1408.2	0.0879 µg/L	0.0879 ppb	16:16:26
3	Co 228.616†	2032.9	2215.1	26.090 µg/L	26.090 ppb	16:16:26
3	Cr 267.716†	14104.0	14047.1	123.75 µg/L	123.75 ppb	16:16:26
3	Cu 324.752†	10341.8	7578.3	45.859 µg/L	45.859 ppb	16:16:06
3	Mn 257.610†	1811008.2	1824228.2	2464.6 µg/L	2464.6 ppb	16:16:06
3	Mo 202.031†	-27.5	-8.4	3.6765 µg/L	3.6765 ppb	16:16:26
3	Ni 231.604†	5669.5	5793.9	74.173 µg/L	74.173 ppb	16:16:26
3	P 214.914†	7787.4	7858.8	1833.9 µg/L	1833.9 ppb	16:16:26
3	Pb 220.353†	1073.1	1006.3	67.188 µg/L	67.188 ppb	16:16:26
3	S 181.975 Axial†	1075.2	979.0	818.28 µg/L	818.28 ppb	16:16:26
3	Sb 206.836†	67.3	-5.4	-3.8620 µg/L	-3.8620 ppb	16:16:26
3	Se 196.026†	-55.1	-68.1	4.48 µg/L	4.48 ppb	16:16:26
3	SiO2†	482655.7	484527.4	52234 µg/L	52234 ppb	16:16:06
3	Si 251.611†	1485171.9	1495303.3	24328 µg/L	24328 ppb	16:16:06
3	Sn 189.927†	-9.9	-9.7	10.095 µg/L	10.095 ppb	16:16:26
3	Ti 334.940†	3132303.5	3154783.1	3191.7 µg/L	3191.7 ppb	16:16:06
3	Tl 190.801†	-428.6	-318.5	-4.0128 µg/L	-4.0128 ppb	16:16:26
3	U 409.014†	-5171.3	-4994.1	-314.47 µg/L	-314.47 ppb	16:16:06
3	V 292.402†	24217.6	24082.3	116.47 µg/L	116.47 ppb	16:16:06
3	Zn 213.857†	60539.8	60458.8	369.96 µg/L	369.96 ppb	16:16:06

Mean Data: 248511009|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1741946.4	99.507 %	0.2143			0.22%
Sc RADIAL	147189.2	99.4 %	0.81			0.82%
Y 371.029	1194320.3	113.27 %	0.182			0.16%
Ag 328.068†	-78.9	-1.2204 µg/L	0.49617	-1.2204 ppb	0.49617	40.65%
Al 396.153Radial†	278344.2	55511 µg/L	346.4	55511 ppb	346.4	0.62%
As 188.979†	32.5	33.103 µg/L	2.0041	33.103 ppb	2.0041	6.05%
B 249.677†	3316.4	54.182 µg/L	2.5060	54.182 ppb	2.5060	4.63%
Ba 233.527†	137823.9	606.87 µg/L	0.730	606.87 ppb	0.730	0.12%
Be 313.107†	28217.2	8.3072 µg/L	0.03172	8.3072 ppb	0.03172	0.38%
Ca 317.933Radial†	494940.2	30267 µg/L	235.5	30267 ppb	235.5	0.78%
Cd 226.502†	1397.6	-0.0601 µg/L	0.20313	-0.0601 ppb	0.20313	338.15%
Co 228.616†	2199.3	25.837 µg/L	0.2674	25.837 ppb	0.2674	1.03%
Cr 267.716†	13956.9	123.00 µg/L	0.792	123.00 ppb	0.792	0.64%
Cu 324.752†	7523.0	45.728 µg/L	0.1397	45.728 ppb	0.1397	0.31%
Fe 238.204 Radial†	1386994.6	94011 µg/L	755.5	94011 ppb	755.5	0.80%
K 766.490 Radial†	35111.1	14191 µg/L	43.1	14191 ppb	43.1	0.30%
Mg 279.077 IEC†	28003.1	11467 µg/L	76.9	11467 ppb	76.9	0.67%
Mn 257.610†	1824000.2	2464.3 µg/L	4.35	2464.3 ppb	4.35	0.18%
Mo 202.031†	-18.0	3.3920 µg/L	0.51382	3.3920 ppb	0.51382	15.15%
Na 589.592 Radial†	3530.5	517.45 µg/L	10.080	517.45 ppb	10.080	1.95%

Ni 231.604†	5757.7	73.710 µg/L	0.4218	73.710 ppb	0.4218	0.57%
P 214.914†	7800.6	1819.5 µg/L	13.10	1819.5 ppb	13.10	0.72%
Pb 220.353†	997.3	66.627 µg/L	0.8808	66.627 ppb	0.8808	1.32%
S 181.975 Axial†	957.8	800.54 µg/L	15.648	800.54 ppb	15.648	1.95%
Sb 206.836†	-0.5	-3.2173 µg/L	2.36875	-3.2173 ppb	2.36875	73.63%
Se 196.026†	-65.1	5.94 µg/L	1.396	5.94 ppb	1.396	23.49%
SiO2†	484768.5	52260 µg/L	106.9	52260 ppb	106.9	0.20%
Si 251.611†	1495193.7	24326 µg/L	48.2	24326 ppb	48.2	0.20%
Sn 189.927†	-7.4	10.249 µg/L	0.5195	10.249 ppb	0.5195	5.07%
Sr 421.552†	96492.7	216.79 µg/L	0.468	216.79 ppb	0.468	0.22%
Ti 334.940†	3154908.1	3191.8 µg/L	4.81	3191.8 ppb	4.81	0.15%
Tl 190.801†	-317.5	-3.8793 µg/L	0.56823	-3.8793 ppb	0.56823	14.65%
U 409.014†	-4909.7	-309.26 µg/L	5.565	-309.26 ppb	5.565	1.80%
Concentration less than lower limit for U 409.014.						
V 292.402†	24062.1	116.29 µg/L	0.479	116.29 ppb	0.479	0.41%
Zn 213.857†	60394.8	369.49 µg/L	1.686	369.49 ppb	1.686	0.46%

Sequence No.: 46

Sample ID: 248511010|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 338

Date Collected: 3/31/2010 16:16:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511010|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148077.4	148077.4	100.0 %		16:17:06
1	Al 396.153Radial†	191244.6	191315.9	38154 µg/L	38154 ppb	16:17:04
1	Ca 317.933Radial†	707563.0	706993.3	43235 µg/L	43235 ppb	16:17:04
1	Fe 238.204 Radial†	920684.2	920596.1	62399 µg/L	62399 ppb	16:17:04
1	K 766.490 Radial†	31016.0	29467.9	11908 µg/L	11908 ppb	16:17:06
1	Mg 279.077 IEC†	24011.0	23829.5	9773.4 µg/L	9773.4 ppb	16:17:06
1	Na 589.592 Radial†	3670.6	2351.8	342.51 µg/L	342.51 ppb	16:17:06
1	Sr 421.552†	133264.0	133549.2	300.03 µg/L	300.03 ppb	16:17:04
1	Sc 361.383	1756997.2	1756997.2	100.37 %		16:17:33
1	Y 371.029	1135979.3	1135979.3	107.74 %		16:17:33
1	Ag 328.068†	3663.0	-95.3	-1.9813 µg/L	-1.9813 ppb	16:17:33
1	As 188.979†	6.3	23.4	22.485 µg/L	22.485 ppb	16:17:53
1	B 249.677†	7692.8	4381.8	71.654 µg/L	71.654 ppb	16:17:33
1	Ba 233.527†	195045.4	194486.7	857.21 µg/L	857.21 ppb	16:17:33
1	Be 313.107†	17203.3	17985.0	5.2987 µg/L	5.2987 ppb	16:17:33
1	Cd 226.502†	912.0	1010.8	0.5425 µg/L	0.5425 ppb	16:17:53
1	Co 228.616†	1343.0	1505.3	18.217 µg/L	18.217 ppb	16:17:53
1	Cr 267.716†	8257.7	8065.9	70.860 µg/L	70.860 ppb	16:17:53
1	Cu 324.752†	12632.8	9746.3	50.623 µg/L	50.623 ppb	16:17:33
1	Mn 257.610†	2476864.4	2467592.9	3334.2 µg/L	3334.2 ppb	16:17:33
1	Mo 202.031†	-76.6	-57.0	0.8415 µg/L	0.8415 ppb	16:17:53
1	Ni 231.604†	3736.8	3805.4	48.717 µg/L	48.717 ppb	16:17:53
1	P 214.914†	9178.2	9158.3	2162.8 µg/L	2162.8 ppb	16:17:53
1	Pb 220.353†	1042.0	963.4	62.845 µg/L	62.845 ppb	16:17:53
1	S 181.975 Axial†	1310.7	1201.7	1004.4 µg/L	1004.4 ppb	16:17:53
1	Sb 206.836†	86.2	12.6	-0.3090 µg/L	-0.3090 ppb	16:17:53
1	Se 196.026†	-34.1	-46.5	2.61 µg/L	2.61 ppb	16:17:53
1	SiO2†	253128.8	250494.1	27004 µg/L	27004 ppb	16:17:33
1	Si 251.611†	778331.0	774598.1	12602 µg/L	12602 ppb	16:17:33
1	Sn 189.927†	-19.6	-19.2	5.5616 µg/L	5.5616 ppb	16:17:53
1	Ti 334.940†	2028638.4	2020462.4	2044.5 µg/L	2044.5 ppb	16:17:33
1	Tl 190.801†	-358.2	-243.7	-3.3822 µg/L	-3.3822 ppb	16:17:53
1	U 409.014†	-3157.2	-2930.0	-172.10 µg/L	-172.10 ppb	16:17:33
1	V 292.402†	17063.5	16686.1	81.037 µg/L	81.037 ppb	16:17:53
1	Zn 213.857†	49867.8	49155.5	301.58 µg/L	301.58 ppb	16:17:33
2	Sc RADIAL	148819.5	148819.5	100 %		16:17:10
2	Al 396.153Radial†	193081.9	192190.5	38329 µg/L	38329 ppb	16:17:08
2	Ca 317.933Radial†	715111.6	710976.0	43478 µg/L	43478 ppb	16:17:08
2	Fe 238.204 Radial†	930994.2	926263.9	62783 µg/L	62783 ppb	16:17:08
2	K 766.490 Radial†	31337.2	29632.8	11975 µg/L	11975 ppb	16:17:10
2	Mg 279.077 IEC†	24059.9	23758.5	9743.8 µg/L	9743.8 ppb	16:17:10
2	Na 589.592 Radial†	3765.9	2428.3	353.93 µg/L	353.93 ppb	16:17:10
2	Sr 421.552†	134417.4	134032.3	301.12 µg/L	301.12 ppb	16:17:08
2	Sc 361.383	1784421.0	1784421.0	101.93 %		16:17:56
2	Y 371.029	1152936.5	1152936.5	109.35 %		16:17:56
2	Ag 328.068†	3881.7	63.2	-1.3774 µg/L	-1.3774 ppb	16:17:56
2	As 188.979†	12.0	28.9	24.417 µg/L	24.417 ppb	16:18:16
2	B 249.677†	7879.3	4447.0	72.723 µg/L	72.723 ppb	16:17:56
2	Ba 233.527†	199285.1	195659.5	862.38 µg/L	862.38 ppb	16:17:56
2	Be 313.107†	17534.9	18047.0	5.3153 µg/L	5.3153 ppb	16:17:56
2	Cd 226.502†	911.3	996.1	0.3992 µg/L	0.3992 ppb	16:18:16
2	Co 228.616†	1339.2	1481.0	17.870 µg/L	17.870 ppb	16:18:16
2	Cr 267.716†	8227.4	7909.7	69.528 µg/L	69.528 ppb	16:18:16
2	Cu 324.752†	12940.6	9854.8	51.133 µg/L	51.133 ppb	16:17:56
2	Mn 257.610†	2529314.6	2481121.8	3352.5 µg/L	3352.5 ppb	16:17:56
2	Mo 202.031†	-76.6	-55.8	0.8945 µg/L	0.8945 ppb	16:18:16
2	Ni 231.604†	3774.4	3785.1	48.457 µg/L	48.457 ppb	16:18:16
2	P 214.914†	9172.9	9012.5	2127.6 µg/L	2127.6 ppb	16:18:16
2	Pb 220.353†	1024.1	929.9	60.786 µg/L	60.786 ppb	16:18:16

2	S 181.975 Axial†	1320.9	1191.6	996.00 µg/L	996.00 ppb	16:18:16
2	Sb 206.836†	58.3	-16.0	-4.0479 µg/L	-4.0479 ppb	16:18:16
2	Se 196.026†	-36.7	-48.6	1.89 µg/L	1.89 ppb	16:18:16
2	SiO2†	258196.6	251589.8	27123 µg/L	27123 ppb	16:17:56
2	Si 251.611†	793409.4	777472.4	12649 µg/L	12649 ppb	16:17:56
2	Sn 189.927†	-18.4	-17.8	5.6879 µg/L	5.6879 ppb	16:18:16
2	Ti 334.940†	2067766.9	2027785.6	2051.9 µg/L	2051.9 ppb	16:17:56
2	Tl 190.801†	-347.8	-228.0	-1.1427 µg/L	-1.1427 ppb	16:18:16
2	U 409.014†	-3304.6	-3026.3	-178.26 µg/L	-178.26 ppb	16:17:56
2	V 292.402†	17096.6	16457.3	79.755 µg/L	79.755 ppb	16:18:16
2	Zn 213.857†	51187.2	49686.2	304.86 µg/L	304.86 ppb	16:17:56
3	Sc RADIAL	148987.9	148987.9	101 %		16:17:14
3	Al 396.153Radial†	192794.3	191687.5	38229 µg/L	38229 ppb	16:17:12
3	Ca 317.933Radial†	712821.6	707895.5	43290 µg/L	43290 ppb	16:17:12
3	Fe 238.204 Radial†	928197.9	922437.2	62523 µg/L	62523 ppb	16:17:12
3	K 766.490 Radial†	31115.6	29377.3	11872 µg/L	11872 ppb	16:17:14
3	Mg 279.077 IEC†	24034.3	23705.9	9722.3 µg/L	9722.3 ppb	16:17:14
3	Na 589.592 Radial†	3741.6	2399.9	349.76 µg/L	349.76 ppb	16:17:14
3	Sr 421.552†	134151.5	133616.8	300.18 µg/L	300.18 ppb	16:17:12
3	Sc 361.383	1754170.2	1754170.2	100.21 %		16:18:19
3	Y 371.029	1133988.4	1133988.4	107.55 %		16:18:19
3	Ag 328.068†	3967.4	214.4	-0.7530 µg/L	-0.7530 ppb	16:18:19
3	As 188.979†	5.4	22.5	22.225 µg/L	22.225 ppb	16:18:39
3	B 249.677†	7837.5	4538.5	74.219 µg/L	74.219 ppb	16:18:19
3	Ba 233.527†	195797.5	195550.5	861.90 µg/L	861.90 ppb	16:18:19
3	Be 313.107†	17405.6	18214.5	5.3625 µg/L	5.3625 ppb	16:18:19
3	Cd 226.502†	917.6	1017.9	0.5792 µg/L	0.5792 ppb	16:18:39
3	Co 228.616†	1363.6	1527.9	18.526 µg/L	18.526 ppb	16:18:39
3	Cr 267.716†	8243.3	8064.9	70.863 µg/L	70.863 ppb	16:18:39
3	Cu 324.752†	12857.3	9990.6	51.665 µg/L	51.665 ppb	16:18:19
3	Mn 257.610†	2487765.6	2482448.9	3354.3 µg/L	3354.3 ppb	16:18:19
3	Mo 202.031†	-86.9	-67.4	0.5102 µg/L	0.5102 ppb	16:18:39
3	Ni 231.604†	3745.7	3820.4	48.908 µg/L	48.908 ppb	16:18:39
3	P 214.914†	9202.4	9197.2	2172.0 µg/L	2172.0 ppb	16:18:39
3	Pb 220.353†	1045.7	968.7	63.200 µg/L	63.200 ppb	16:18:39
3	S 181.975 Axial†	1334.2	1227.2	1025.8 µg/L	1025.8 ppb	16:18:39
3	Sb 206.836†	87.0	13.6	-0.1860 µg/L	-0.1860 ppb	16:18:39
3	Se 196.026†	-20.7	-33.2	8.04 µg/L	8.04 ppb	16:18:39
3	SiO2†	253780.3	251550.8	27118 µg/L	27118 ppb	16:18:19
3	Si 251.611†	780437.7	777950.3	12657 µg/L	12657 ppb	16:18:19
3	Sn 189.927†	-22.2	-21.9	5.4084 µg/L	5.4084 ppb	16:18:39
3	Ti 334.940†	2034672.2	2029741.3	2053.9 µg/L	2053.9 ppb	16:18:19
3	Tl 190.801†	-362.0	-248.0	-3.8241 µg/L	-3.8241 ppb	16:18:39
3	U 409.014†	-3385.4	-3162.8	-186.80 µg/L	-186.80 ppb	16:18:19
3	V 292.402†	17094.0	16743.9	81.311 µg/L	81.311 ppb	16:18:39
3	Zn 213.857†	50123.0	49490.1	303.66 µg/L	303.66 ppb	16:18:19

Mean Data: 248511010|961532|1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1765196.1	100.84	%	0.954			0.95%
Sc RADIAL	148628.3	100	%	0.3			0.33%
Y 371.029	1140968.1	108.21	%	0.988			0.91%
Ag 328.068†	60.8	-1.3706	µg/L	0.61420	-1.3706 ppb	0.61420	44.81%
Al 396.153Radial†	191731.3	38237	µg/L	87.5	38237 ppb	87.5	0.23%
As 188.979†	24.9	23.042	µg/L	1.1973	23.042 ppb	1.1973	5.20%
B 249.677†	4455.8	72.865	µg/L	1.2884	72.865 ppb	1.2884	1.77%
Ba 233.527†	195232.2	860.50	µg/L	2.856	860.50 ppb	2.856	0.33%
Be 313.107†	18082.2	5.3255	µg/L	0.03313	5.3255 ppb	0.03313	0.62%
Ca 317.933Radial†	708621.6	43334	µg/L	127.7	43334 ppb	127.7	0.29%
Cd 226.502†	1008.3	0.5069	µg/L	0.09512	0.5069 ppb	0.09512	18.76%
Co 228.616†	1504.7	18.204	µg/L	0.3283	18.204 ppb	0.3283	1.80%
Cr 267.716†	8013.5	70.417	µg/L	0.7697	70.417 ppb	0.7697	1.09%
Cu 324.752†	9863.9	51.141	µg/L	0.5215	51.141 ppb	0.5215	1.02%
Fe 238.204 Radial†	923099.1	62568	µg/L	196.0	62568 ppb	196.0	0.31%
K 766.490 Radial†	29492.6	11918	µg/L	52.4	11918 ppb	52.4	0.44%
Mg 279.077 IEC†	23764.6	9746.5	µg/L	25.65	9746.5 ppb	25.65	0.26%
Mn 257.610†	2477054.5	3347.0	µg/L	11.11	3347.0 ppb	11.11	0.33%
Mo 202.031†	-60.0	0.7488	µg/L	0.20827	0.7488 ppb	0.20827	27.82%
Na 589.592 Radial†	2393.3	348.73	µg/L	5.782	348.73 ppb	5.782	1.66%

Ni 231.604†	3803.6	48.694 µg/L	0.2263	48.694 ppb	0.2263	0.46%
P 214.914†	9122.6	2154.1 µg/L	23.45	2154.1 ppb	23.45	1.09%
Pb 220.353†	954.0	62.277 µg/L	1.3034	62.277 ppb	1.3034	2.09%
S 181.975 Axial†	1206.9	1008.7 µg/L	15.35	1008.7 ppb	15.35	1.52%
Sb 206.836†	3.4	-1.5143 µg/L	2.19503	-1.5143 ppb	2.19503	144.95%
Se 196.026†	-42.8	4.18 µg/L	3.363	4.18 ppb	3.363	80.40%
SiO2†	251211.6	27082 µg/L	67.0	27082 ppb	67.0	0.25%
Si 251.611†	776673.6	12636 µg/L	29.5	12636 ppb	29.5	0.23%
Sn 189.927†	-19.6	5.5526 µg/L	0.13995	5.5526 ppb	0.13995	2.52%
Sr 421.552†	133732.8	300.44 µg/L	0.587	300.44 ppb	0.587	0.20%
Ti 334.940†	2025996.4	2050.1 µg/L	4.96	2050.1 ppb	4.96	0.24%
Tl 190.801†	-239.9	-2.7830 µg/L	1.43758	-2.7830 ppb	1.43758	51.66%
U 409.014†	-3039.7	-179.05 µg/L	7.379	-179.05 ppb	7.379	4.12%
Concentration less than lower limit for U 409.014.						
V 292.402†	16629.1	80.701 µg/L	0.8310	80.701 ppb	0.8310	1.03%
Zn 213.857†	49443.9	303.37 µg/L	1.661	303.37 ppb	1.661	0.55%

Sequence No.: 47

Sample ID: 248511011|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 339

Date Collected: 3/31/2010 16:18:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511011|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	148103.6	148103.6	100 %			16:19:18
1	Al 396.153Radial†	329504.8	329525.2	65718 µg/L		65718 ppb	16:19:16
1	Ca 317.933Radial†	335638.4	334989.6	20486 µg/L		20486 ppb	16:19:18
1	Fe 238.204 Radial†	1427641.6	1427328.1	96745 µg/L		96745 ppb	16:19:16
1	K 766.490 Radial†	32970.9	31417.1	12695 µg/L		12695 ppb	16:19:18
1	Mg 279.077 IEC†	33068.8	32882.0	13477 µg/L		13477 ppb	16:19:18
1	Na 589.592 Radial†	4786.8	3467.2	509.27 µg/L		509.27 ppb	16:19:18
1	Sr 421.552†	83571.1	83838.9	188.40 µg/L		188.40 ppb	16:19:18
1	Sc 361.383	1762963.5	1762963.5	100.71 %			16:19:45
1	Y 371.029	1147698.1	1147698.1	108.85 %			16:19:45
1	Ag 328.068†	3580.3	-189.7	-0.7970 µg/L		-0.7970 ppb	16:19:47
1	As 188.979†	-7.4	9.8	26.029 µg/L		26.029 ppb	16:20:07
1	B 249.677†	5180.2	1861.0	30.336 µg/L		30.336 ppb	16:19:47
1	Ba 233.527†	155509.1	154570.6	680.74 µg/L		680.74 ppb	16:19:47
1	Be 313.107†	27217.8	27871.2	8.2227 µg/L		8.2227 ppb	16:19:47
1	Cd 226.502†	1475.2	1567.0	0.8346 µg/L		0.8346 ppb	16:20:07
1	Co 228.616†	2491.6	2641.3	31.818 µg/L		31.818 ppb	16:20:07
1	Cr 267.716†	12949.2	12696.6	112.24 µg/L		112.24 ppb	16:20:07
1	Cu 324.752†	13090.1	10157.8	57.430 µg/L		57.430 ppb	16:19:47
1	Mn 257.610†	1672479.8	1660509.8	2243.3 µg/L		2243.3 ppb	16:19:45
1	Mo 202.031†	-61.5	-41.7	2.7881 µg/L		2.7881 ppb	16:20:07
1	Ni 231.604†	5069.5	5116.2	65.497 µg/L		65.497 ppb	16:20:07
1	P 214.914†	5525.3	5500.0	1267.8 µg/L		1267.8 ppb	16:20:07
1	Pb 220.353†	1646.1	1559.7	102.79 µg/L		102.79 ppb	16:20:07
1	S 181.975 Axial†	1542.3	1427.3	1193.0 µg/L		1193.0 ppb	16:20:07
1	Sb 206.836†	89.3	15.5	-1.0159 µg/L		-1.0159 ppb	16:20:07
1	Se 196.026†	-77.8	-89.8	-3.08 µg/L		-3.08 ppb	16:20:07
1	SiO2†	496920.5	491718.9	53010 µg/L		53010 ppb	16:19:47
1	Si 251.611†	1529546.8	1517910.0	24696 µg/L		24696 ppb	16:19:45
1	Sn 189.927†	-48.9	-48.3	9.5622 µg/L		9.5622 ppb	16:20:07
1	Ti 334.940†	3809785.6	3782251.7	3826.0 µg/L		3826.0 ppb	16:19:45
1	Tl 190.801†	-452.9	-336.5	-0.3686 µg/L		-0.3686 ppb	16:20:07
1	U 409.014†	-4194.1	-3949.0	-248.16 µg/L		-248.16 ppb	16:19:47
1	V 292.402†	32449.4	31906.4	157.40 µg/L		157.40 ppb	16:19:47
1	Zn 213.857†	55638.5	54717.4	334.39 µg/L		334.39 ppb	16:19:47
2	Sc RADIAL	149249.3	149249.3	101 %			16:19:22
2	Al 396.153Radial†	326702.1	324215.4	64659 µg/L		64659 ppb	16:19:20
2	Ca 317.933Radial†	340229.4	336968.6	20607 µg/L		20607 ppb	16:19:22
2	Fe 238.204 Radial†	1410709.3	1399570.0	94864 µg/L		94864 ppb	16:19:20
2	K 766.490 Radial†	33436.2	31625.6	12780 µg/L		12780 ppb	16:19:22
2	Mg 279.077 IEC†	33572.9	33128.3	13580 µg/L		13580 ppb	16:19:22
2	Na 589.592 Radial†	4948.5	3590.9	527.77 µg/L		527.77 ppb	16:19:22
2	Sr 421.552†	84423.1	84042.7	188.86 µg/L		188.86 ppb	16:19:22
2	Sc 361.383	1754647.6	1754647.6	100.23 %			16:20:10
2	Y 371.029	1143188.4	1143188.4	108.42 %			16:20:10
2	Ag 328.068†	3594.3	-158.8	-0.6671 µg/L		-0.6671 ppb	16:20:12
2	As 188.979†	8.5	25.6	30.909 µg/L		30.909 ppb	16:20:32
2	B 249.677†	5241.8	1946.8	31.739 µg/L		31.739 ppb	16:20:12
2	Ba 233.527†	156559.4	156350.3	688.61 µg/L		688.61 ppb	16:20:12
2	Be 313.107†	27574.0	28354.6	8.3641 µg/L		8.3641 ppb	16:20:12
2	Cd 226.502†	1469.8	1568.5	1.0441 µg/L		1.0441 ppb	16:20:32
2	Co 228.616†	2521.5	2682.8	32.493 µg/L		32.493 ppb	16:20:32
2	Cr 267.716†	13056.7	12864.8	113.62 µg/L		113.62 ppb	16:20:32
2	Cu 324.752†	13402.0	10530.6	58.736 µg/L		58.736 ppb	16:20:12
2	Mn 257.610†	1685502.0	1681372.5	2271.5 µg/L		2271.5 ppb	16:20:10
2	Mo 202.031†	-77.0	-57.4	2.2082 µg/L		2.2082 ppb	16:20:32
2	Ni 231.604†	5128.9	5199.3	66.561 µg/L		66.561 ppb	16:20:32
2	P 214.914†	5554.6	5555.3	1282.1 µg/L		1282.1 ppb	16:20:32
2	Pb 220.353†	1625.2	1546.6	102.05 µg/L		102.05 ppb	16:20:32

2	S 181.975 Axial†	1563.2	1455.4	1216.5 µg/L	1216.5 ppb	16:20:32
2	Sb 206.836†	68.6	-4.8	-3.6681 µg/L	-3.6681 ppb	16:20:32
2	Se 196.026†	-72.2	-84.7	-1.64 µg/L	-1.64 ppb	16:20:32
2	SiO2†	501409.7	498536.3	53744 µg/L	53744 ppb	16:20:12
2	Si 251.611†	1541841.3	1537374.1	25012 µg/L	25012 ppb	16:20:10
2	Sn 189.927†	-26.7	-26.4	11.240 µg/L	11.240 ppb	16:20:32
2	Ti 334.940†	3839425.7	3829752.1	3874.1 µg/L	3874.1 ppb	16:20:10
2	Tl 190.801†	-490.6	-376.3	-5.2076 µg/L	-5.2076 ppb	16:20:32
2	U 409.014†	-4302.9	-4077.3	-255.65 µg/L	-255.65 ppb	16:20:12
2	V 292.402†	32517.6	32127.1	158.74 µg/L	158.74 ppb	16:20:12
2	Zn 213.857†	56182.7	55522.2	339.61 µg/L	339.61 ppb	16:20:12
3	Sc RADIAL	148505.4	148505.4	100 %		16:19:26
3	Al 396.153Radial†	328466.2	327598.2	65333 µg/L	65333 ppb	16:19:24
3	Ca 317.933Radial†	336882.9	335322.6	20506 µg/L	20506 ppb	16:19:26
3	Fe 238.204 Radial†	1419449.6	1415297.0	95930 µg/L	95930 ppb	16:19:24
3	K 766.490 Radial†	33337.8	31693.7	12807 µg/L	12807 ppb	16:19:26
3	Mg 279.077 IEC†	33148.0	32871.5	13473 µg/L	13473 ppb	16:19:26
3	Na 589.592 Radial†	4722.3	3389.9	497.57 µg/L	497.57 ppb	16:19:26
3	Sr 421.552†	83975.3	84015.8	188.80 µg/L	188.80 ppb	16:19:26
3	Sc 361.383	1788341.6	1788341.6	102.16 %		16:20:35
3	Y 371.029	1163207.6	1163207.6	110.32 %		16:20:35
3	Ag 328.068†	3475.4	-342.8	-1.4036 µg/L	-1.4036 ppb	16:20:37
3	As 188.979†	3.7	20.7	29.488 µg/L	29.488 ppb	16:20:57
3	B 249.677†	5117.6	1726.7	28.139 µg/L	28.139 ppb	16:20:37
3	Ba 233.527†	159108.0	155902.3	686.62 µg/L	686.62 ppb	16:20:37
3	Be 313.107†	27779.2	28037.2	8.2729 µg/L	8.2729 ppb	16:20:37
3	Cd 226.502†	1471.2	1542.2	0.7469 µg/L	0.7469 ppb	16:20:57
3	Co 228.616†	2506.7	2620.9	31.587 µg/L	31.587 ppb	16:20:57
3	Cr 267.716†	13128.9	12690.1	112.15 µg/L	112.15 ppb	16:20:57
3	Cu 324.752†	13370.3	10247.7	57.695 µg/L	57.695 ppb	16:20:37
3	Mn 257.610†	1702021.4	1665860.3	2250.5 µg/L	2250.5 ppb	16:20:35
3	Mo 202.031†	-59.3	-38.7	2.8520 µg/L	2.8520 ppb	16:20:57
3	Ni 231.604†	5086.7	5061.6	64.798 µg/L	64.798 ppb	16:20:57
3	P 214.914†	5605.9	5501.1	1268.5 µg/L	1268.5 ppb	16:20:57
3	Pb 220.353†	1611.8	1503.0	99.293 µg/L	99.293 ppb	16:20:57
3	S 181.975 Axial†	1555.5	1418.5	1185.6 µg/L	1185.6 ppb	16:20:57
3	Sb 206.836†	83.8	8.8	-1.8704 µg/L	-1.8704 ppb	16:20:57
3	Se 196.026†	-64.9	-76.1	2.20 µg/L	2.20 ppb	16:20:57
3	SiO2†	508128.7	495688.3	53437 µg/L	53437 ppb	16:20:37
3	Si 251.611†	1558799.6	1524992.0	24811 µg/L	24811 ppb	16:20:35
3	Sn 189.927†	-42.5	-41.3	10.071 µg/L	10.071 ppb	16:20:57
3	Ti 334.940†	3872520.0	3789977.0	3833.9 µg/L	3833.9 ppb	16:20:35
3	Tl 190.801†	-465.5	-342.5	-1.0743 µg/L	-1.0743 ppb	16:20:57
3	U 409.014†	-4210.5	-3906.0	-245.16 µg/L	-245.16 ppb	16:20:37
3	V 292.402†	33008.3	31996.3	157.97 µg/L	157.97 ppb	16:20:37
3	Zn 213.857†	57162.8	55425.5	338.90 µg/L	338.90 ppb	16:20:37

Mean Data: 248511011|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1768650.9	101.03 %		1.003			0.99%
Sc RADIAL	148619.4	100 %		0.4			0.39%
Y 371.029	1151364.7	109.20 %		0.996			0.91%
Ag 328.068†	-230.5	-0.9559 µg/L		0.39311	-0.9559 ppb	0.39311	41.13%
Al 396.153Radial†	327112.9	65237 µg/L		536.1	65237 ppb	536.1	0.82%
As 188.979†	18.7	28.809 µg/L		2.5096	28.809 ppb	2.5096	8.71%
B 249.677†	1844.8	30.072 µg/L		1.8142	30.072 ppb	1.8142	6.03%
Ba 233.527†	155607.7	685.33 µg/L		4.095	685.33 ppb	4.095	0.60%
Be 313.107†	28087.7	8.2866 µg/L		0.07171	8.2866 ppb	0.07171	0.87%
Ca 317.933Radial†	335760.3	20533 µg/L		64.8	20533 ppb	64.8	0.32%
Cd 226.502†	1559.2	0.8752 µg/L		0.15272	0.8752 ppb	0.15272	17.45%
Co 228.616†	2648.3	31.966 µg/L		0.4708	31.966 ppb	0.4708	1.47%
Cr 267.716†	12750.5	112.67 µg/L		0.825	112.67 ppb	0.825	0.73%
Cu 324.752†	10312.0	57.953 µg/L		0.6906	57.953 ppb	0.6906	1.19%
Fe 238.204 Radial†	1414065.0	95846 µg/L		943.5	95846 ppb	943.5	0.98%
K 766.490 Radial†	31578.8	12761 µg/L		58.4	12761 ppb	58.4	0.46%
Mg 279.077 IEC†	32960.6	13510 µg/L		60.6	13510 ppb	60.6	0.45%
Mn 257.610†	1669247.5	2255.1 µg/L		14.64	2255.1 ppb	14.64	0.65%
Mo 202.031†	-45.9	2.6161 µg/L		0.35471	2.6161 ppb	0.35471	13.56%
Na 589.592 Radial†	3482.7	511.54 µg/L		15.229	511.54 ppb	15.229	2.98%

Ni 231.604†	5125.7	65.619 µg/L	0.8879	65.619 ppb	0.8879	1.35%
P 214.914†	5518.8	1272.8 µg/L	8.06	1272.8 ppb	8.06	0.63%
Pb 220.353†	1536.4	101.38 µg/L	1.843	101.38 ppb	1.843	1.82%
S 181.975 Axial†	1433.7	1198.4 µg/L	16.11	1198.4 ppb	16.11	1.34%
Sb 206.836†	6.5	-2.1848 µg/L	1.35376	-2.1848 ppb	1.35376	61.96%
Se 196.026†	-83.5	-0.838 µg/L	2.7313	-0.838 ppb	2.7313	326.01%
SiO2†	495314.5	53397 µg/L	369.1	53397 ppb	369.1	0.69%
Si 251.611†	1526758.7	24839 µg/L	160.3	24839 ppb	160.3	0.65%
Sn 189.927†	-38.6	10.291 µg/L	0.8603	10.291 ppb	0.8603	8.36%
Sr 421.552†	83965.8	188.69 µg/L	0.249	188.69 ppb	0.249	0.13%
Ti 334.940†	3800660.3	3844.7 µg/L	25.79	3844.7 ppb	25.79	0.67%
Tl 190.801†	-351.8	-2.2168 µg/L	2.61399	-2.2168 ppb	2.61399	117.92%
U 409.014†	-3977.4	-249.66 µg/L	5.398	-249.66 ppb	5.398	2.16%
Concentration less than lower limit for U 409.014.						
V 292.402†	32009.9	158.04 µg/L	0.668	158.04 ppb	0.668	0.42%
Zn 213.857†	55221.7	337.63 µg/L	2.836	337.63 ppb	2.836	0.84%

Sequence No.: 48

Sample ID: 248511012|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 340

Date Collected: 3/31/2010 16:21:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511012|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	149582.8	149582.8	101 %				16:21:36
1	Al 396.153Radial†	341376.9	338020.5	67412 µg/L		67412 ppb		16:21:34
1	Ca 317.933Radial†	504227.0	498571.7	30489 µg/L		30489 ppb		16:21:34
1	Fe 238.204 Radial†	1385474.6	1371467.0	92959 µg/L		92959 ppb		16:21:34
1	K 766.490 Radial†	35332.4	33428.9	13507 µg/L		13507 ppb		16:21:36
1	Mg 279.077 IEC†	32537.3	32028.8	13128 µg/L		13128 ppb		16:21:36
1	Na 589.592 Radial†	6235.2	4853.8	716.74 µg/L		716.74 ppb		16:21:36
1	Sr 421.552†	98054.4	97350.9	218.72 µg/L		218.72 ppb		16:21:36
1	Sc 361.383	1737556.2	1737556.2	99.256 %				16:21:49
1	Y 371.029	1167952.2	1167952.2	110.77 %				16:21:49
1	Ag 328.068†	3534.1	-184.3	-1.9072 µg/L		-1.9072 ppb		16:21:51
1	As 188.979†	9.1	26.3	31.455 µg/L		31.455 ppb		16:22:11
1	B 249.677†	5876.5	2637.7	43.038 µg/L		43.038 ppb		16:21:51
1	Ba 233.527†	266751.5	268904.4	1185.1 µg/L		1185.1 ppb		16:21:51
1	Be 313.107†	30183.4	31254.2	9.2186 µg/L		9.2186 ppb		16:21:51
1	Cd 226.502†	1377.0	1489.4	0.7118 µg/L		0.7118 ppb		16:22:11
1	Co 228.616†	2710.8	2898.3	36.046 µg/L		36.046 ppb		16:22:11
1	Cr 267.716†	21961.9	21964.9	191.37 µg/L		191.37 ppb		16:22:11
1	Cu 324.752†	13895.4	11159.2	61.094 µg/L		61.094 ppb		16:21:51
1	Mn 257.610†	3373858.2	3398918.4	4592.6 µg/L		4592.6 ppb		16:21:49
1	Mo 202.031†	-75.4	-56.5	2.1473 µg/L		2.1473 ppb		16:22:11
1	Ni 231.604†	8533.4	8679.6	111.12 µg/L		111.12 ppb		16:22:11
1	P 214.914†	11186.5	11283.9	2658.4 µg/L		2658.4 ppb		16:22:11
1	Pb 220.353†	1550.7	1487.5	98.400 µg/L		98.400 ppb		16:22:11
1	S 181.975 Axial†	1505.8	1412.9	1181.0 µg/L		1181.0 ppb		16:22:11
1	Sb 206.836†	91.3	18.8	-1.7703 µg/L		-1.7703 ppb		16:22:11
1	Se 196.026†	-63.5	-76.6	0.954 µg/L		0.954 ppb		16:22:11
1	SiO2†	515928.1	518084.0	55852 µg/L		55852 ppb		16:21:51
1	Si 251.611†	1570751.6	1581632.0	25732 µg/L		25732 ppb		16:21:49
1	Sn 189.927†	16.8	17.2	13.647 µg/L		13.647 ppb		16:22:11
1	Ti 334.940†	3625015.8	3651414.4	3693.9 µg/L		3693.9 ppb		16:21:49
1	Tl 190.801†	-516.7	-407.3	-5.3875 µg/L		-5.3875 ppb		16:22:11
1	U 409.014†	-4721.5	-4541.2	-270.39 µg/L		-270.39 ppb		16:21:51
1	V 292.402†	28854.1	28755.3	141.36 µg/L		141.36 ppb		16:21:51
1	Zn 213.857†	58427.8	58335.4	356.80 µg/L		356.80 ppb		16:21:51
2	Sc RADIAL	146532.9	146532.9	99.0 %				16:21:40
2	Al 396.153Radial†	339428.6	343085.7	68422 µg/L		68422 ppb		16:21:38
2	Ca 317.933Radial†	498971.8	503650.6	30800 µg/L		30800 ppb		16:21:38
2	Fe 238.204 Radial†	1371684.6	1386079.0	93949 µg/L		93949 ppb		16:21:38
2	K 766.490 Radial†	34522.5	33338.4	13470 µg/L		13470 ppb		16:21:40
2	Mg 279.077 IEC†	31620.3	31772.5	13022 µg/L		13022 ppb		16:21:40
2	Na 589.592 Radial†	6113.0	4858.8	717.52 µg/L		717.52 ppb		16:21:40
2	Sr 421.552†	96428.0	97727.7	219.56 µg/L		219.56 ppb		16:21:40
2	Sc 361.383	1757799.3	1757799.3	100.41 %				16:22:14
2	Y 371.029	1182153.6	1182153.6	112.12 %				16:22:14
2	Ag 328.068†	3637.2	-122.6	-1.7242 µg/L		-1.7242 ppb		16:22:16
2	As 188.979†	-1.8	15.3	27.979 µg/L		27.979 ppb		16:22:36
2	B 249.677†	5790.3	2483.7	40.520 µg/L		40.520 ppb		16:22:16
2	Ba 233.527†	265024.7	264089.7	1163.9 µg/L		1163.9 ppb		16:22:16
2	Be 313.107†	29987.2	30708.6	9.0558 µg/L		9.0558 ppb		16:22:16
2	Cd 226.502†	1375.5	1472.0	0.4844 µg/L		0.4844 ppb		16:22:36
2	Co 228.616†	2696.5	2852.6	35.347 µg/L		35.347 ppb		16:22:36
2	Cr 267.716†	21830.8	21579.5	188.08 µg/L		188.08 ppb		16:22:36
2	Cu 324.752†	13873.6	10976.3	60.458 µg/L		60.458 ppb		16:22:16
2	Mn 257.610†	3432494.3	3418168.5	4618.7 µg/L		4618.7 ppb		16:22:14
2	Mo 202.031†	-60.8	-41.1	2.6798 µg/L		2.6798 ppb		16:22:36
2	Ni 231.604†	8447.2	8494.8	108.75 µg/L		108.75 ppb		16:22:36
2	P 214.914†	11071.9	11040.0	2599.5 µg/L		2599.5 ppb		16:22:36
2	Pb 220.353†	1522.4	1441.3	95.595 µg/L		95.595 ppb		16:22:36

2	S 181.975 Axial†	1515.7	1405.3	1174.6 µg/L	1174.6 ppb	16:22:36
2	Sb 206.836†	72.0	-1.5	-4.4018 µg/L	-4.4018 ppb	16:22:36
2	Se 196.026†	-57.0	-69.3	4.24 µg/L	4.24 ppb	16:22:36
2	SiO2†	511107.4	507297.2	54689 µg/L	54689 ppb	16:22:16
2	Si 251.611†	1598366.8	1590909.2	25883 µg/L	25883 ppb	16:22:14
2	Sn 189.927†	23.1	23.3	14.133 µg/L	14.133 ppb	16:22:36
2	Ti 334.940†	3685429.5	3669520.8	3712.3 µg/L	3712.3 ppb	16:22:14
2	Tl 190.801†	-491.1	-375.9	-0.8963 µg/L	-0.8963 ppb	16:22:36
2	U 409.014†	-4790.7	-4555.4	-271.54 µg/L	-271.54 ppb	16:22:16
2	V 292.402†	28512.9	28080.8	137.62 µg/L	137.62 ppb	16:22:16
2	Zn 213.857†	58093.1	57324.2	350.41 µg/L	350.41 ppb	16:22:16
3	Sc RADIAL	150700.2	150700.2	102 %		16:21:45
3	Al 396.153Radial†	346981.9	341022.3	68010 µg/L	68010 ppb	16:21:42
3	Ca 317.933Radial†	510754.0	501284.0	30655 µg/L	30655 ppb	16:21:42
3	Fe 238.204 Radial†	1404222.9	1379719.5	93518 µg/L	93518 ppb	16:21:42
3	K 766.490 Radial†	35324.4	33161.7	13399 µg/L	13399 ppb	16:21:45
3	Mg 279.077 IEC†	32549.7	31802.1	13035 µg/L	13035 ppb	16:21:45
3	Na 589.592 Radial†	6268.0	4840.3	714.80 µg/L	714.80 ppb	16:21:45
3	Sr 421.552†	98130.0	96705.3	217.26 µg/L	217.26 ppb	16:21:45
3	Sc 361.383	1740822.5	1740822.5	99.443 %		16:22:39
3	Y 371.029	1171271.0	1171271.0	111.09 %		16:22:39
3	Ag 328.068†	3553.3	-171.7	-1.9088 µg/L	-1.9088 ppb	16:22:41
3	As 188.979†	1.6	18.8	29.048 µg/L	29.048 ppb	16:23:01
3	B 249.677†	5573.3	2321.7	37.867 µg/L	37.867 ppb	16:22:41
3	Ba 233.527†	265868.0	267511.7	1179.0 µg/L	1179.0 ppb	16:22:41
3	Be 313.107†	30269.3	31283.5	9.2245 µg/L	9.2245 ppb	16:22:41
3	Cd 226.502†	1389.2	1499.2	0.7205 µg/L	0.7205 ppb	16:23:01
3	Co 228.616†	2697.7	2880.0	35.760 µg/L	35.760 ppb	16:23:01
3	Cr 267.716†	21839.0	21799.7	189.97 µg/L	189.97 ppb	16:23:01
3	Cu 324.752†	13932.5	11170.3	61.213 µg/L	61.213 ppb	16:22:41
3	Mn 257.610†	3392735.5	3411523.6	4609.7 µg/L	4609.7 ppb	16:22:39
3	Mo 202.031†	-29.6	-10.4	3.6534 µg/L	3.6534 ppb	16:23:01
3	Ni 231.604†	8442.9	8572.5	109.74 µg/L	109.74 ppb	16:23:01
3	P 214.914†	11095.0	11170.7	2631.0 µg/L	2631.0 ppb	16:23:01
3	Pb 220.353†	1525.2	1459.0	96.683 µg/L	96.683 ppb	16:23:01
3	S 181.975 Axial†	1485.7	1389.9	1161.7 µg/L	1161.7 ppb	16:23:01
3	Sb 206.836†	85.0	12.3	-2.5936 µg/L	-2.5936 ppb	16:23:01
3	Se 196.026†	-57.4	-70.3	3.66 µg/L	3.66 ppb	16:23:01
3	SiO2†	513224.2	514389.8	55453 µg/L	55453 ppb	16:22:41
3	Si 251.611†	1578152.3	1586104.9	25805 µg/L	25805 ppb	16:22:39
3	Sn 189.927†	9.5	9.8	13.187 µg/L	13.187 ppb	16:23:01
3	Ti 334.940†	3646163.2	3665827.6	3708.5 µg/L	3708.5 ppb	16:22:39
3	Tl 190.801†	-519.8	-409.5	-5.5039 µg/L	-5.5039 ppb	16:23:01
3	U 409.014†	-4876.9	-4688.6	-279.92 µg/L	-279.92 ppb	16:22:41
3	V 292.402†	28468.8	28313.3	138.93 µg/L	138.93 ppb	16:22:41
3	Zn 213.857†	58209.7	58005.7	354.70 µg/L	354.70 ppb	16:22:41

Mean Data: 248511012|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1745392.7	99.704 %	0.6208			0.62%
Sc RADIAL	148938.6	101 %	1.5			1.45%
Y 371.029	1173792.3	111.33 %	0.705			0.63%
Ag 328.068†	-159.5	-1.8468 µg/L	0.10613	-1.8468 ppb	0.10613	5.75%
Al 396.153Radial†	340709.5	67948 µg/L	507.9	67948 ppb	507.9	0.75%
As 188.979†	20.1	29.494 µg/L	1.7802	29.494 ppb	1.7802	6.04%
B 249.677†	2481.0	40.475 µg/L	2.5860	40.475 ppb	2.5860	6.39%
Ba 233.527†	266835.3	1176.0 µg/L	10.94	1176.0 ppb	10.94	0.93%
Be 313.107†	31082.1	9.1663 µg/L	0.09569	9.1663 ppb	0.09569	1.04%
Ca 317.933Radial†	501168.8	30648 µg/L	155.4	30648 ppb	155.4	0.51%
Cd 226.502†	1486.9	0.6389 µg/L	0.13390	0.6389 ppb	0.13390	20.96%
Co 228.616†	2877.0	35.718 µg/L	0.3514	35.718 ppb	0.3514	0.98%
Cr 267.716†	21781.4	189.80 µg/L	1.652	189.80 ppb	1.652	0.87%
Cu 324.752†	11101.9	60.922 µg/L	0.4061	60.922 ppb	0.4061	0.67%
Fe 238.204 Radial†	1379088.5	93475 µg/L	496.6	93475 ppb	496.6	0.53%
K 766.490 Radial†	33309.7	13459 µg/L	55.1	13459 ppb	55.1	0.41%
Mg 279.077 IEC†	31867.8	13062 µg/L	58.2	13062 ppb	58.2	0.45%
Mn 257.610†	3409536.8	4607.0 µg/L	13.21	4607.0 ppb	13.21	0.29%
Mo 202.031†	-36.0	2.8268 µg/L	0.76376	2.8268 ppb	0.76376	27.02%
Na 589.592 Radial†	4850.9	716.35 µg/L	1.398	716.35 ppb	1.398	0.20%

Ni 231.604†	8582.3	109.87 µg/L	1.188	109.87 ppb	1.188	1.08%
P 214.914†	11164.9	2629.6 µg/L	29.50	2629.6 ppb	29.50	1.12%
Pb 220.353†	1462.6	96.892 µg/L	1.4143	96.892 ppb	1.4143	1.46%
S 181.975 Axial†	1402.7	1172.4 µg/L	9.80	1172.4 ppb	9.80	0.84%
Sb 206.836†	9.8	-2.9219 µg/L	1.34608	-2.9219 ppb	1.34608	46.07%
Se 196.026†	-72.1	2.95 µg/L	1.752	2.95 ppb	1.752	59.41%
SiO2†	513257.0	55331 µg/L	591.0	55331 ppb	591.0	1.07%
Si 251.611†	1586215.4	25807 µg/L	75.5	25807 ppb	75.5	0.29%
Sn 189.927†	16.8	13.656 µg/L	0.4734	13.656 ppb	0.4734	3.47%
Sr 421.552†	97261.3	218.51 µg/L	1.162	218.51 ppb	1.162	0.53%
Ti 334.940†	3662254.3	3704.9 µg/L	9.69	3704.9 ppb	9.69	0.26%
Tl 190.801†	-397.6	-3.9292 µg/L	2.62725	-3.9292 ppb	2.62725	66.86%
U 409.014†	-4595.1	-273.95 µg/L	5.200	-273.95 ppb	5.200	1.90%
Concentration less than lower limit for U 409.014.						
V 292.402†	28383.1	139.30 µg/L	1.900	139.30 ppb	1.900	1.36%
Zn 213.857†	57888.5	353.97 µg/L	3.257	353.97 ppb	3.257	0.92%

Sequence No.: 49

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/31/2010 16:23:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146338.5	146338.5	98.8 %			16:23:42
1	Al 396.153Radial†	24703.2	25059.3	4974.2 µg/L		4974.2 ppb	16:23:42
1	Ca 317.933Radial†	82024.0	82395.8	5038.7 µg/L		5038.7 ppb	16:23:42
1	Fe 238.204 Radial†	72980.4	73714.6	4996.4 µg/L		4996.4 ppb	16:23:42
1	K 766.490 Radial†	13969.5	12586.4	5089.7 µg/L		5089.7 ppb	16:23:42
1	Mg 279.077 IEC†	12437.4	12403.1	5122.9 µg/L		5122.9 ppb	16:23:42
1	Na 589.592 Radial†	67120.2	66602.4	9995.5 µg/L		9995.5 ppb	16:23:42
1	Sr 421.552†	217605.6	220481.2	495.85 µg/L		495.85 ppb	16:23:40
1	Sc 361.383	1722590.2	1722590.2	98.401 %			16:24:09
1	Y 371.029	1024236.3	1024236.3	97.141 %			16:24:09
1	Ag 328.068†	125066.9	123353.7	504.57 µg/L		504.57 ppb	16:24:09
1	As 188.979†	1421.0	1461.2	496.69 µg/L		496.69 ppb	16:24:29
1	B 249.677†	33443.4	30703.9	500.83 µg/L		500.83 ppb	16:24:09
1	Ba 233.527†	111588.6	113555.8	501.35 µg/L		501.35 ppb	16:24:09
1	Be 313.107†	1653580.1	1681287.1	500.75 µg/L		500.75 ppb	16:24:09
1	Cd 226.502†	70775.2	72027.0	504.27 µg/L		504.27 ppb	16:24:09
1	Co 228.616†	36275.0	37031.4	507.49 µg/L		507.49 ppb	16:24:09
1	Cr 267.716†	57500.8	58273.3	501.67 µg/L		501.67 ppb	16:24:09
1	Cu 324.752†	118569.1	117654.9	501.48 µg/L		501.48 ppb	16:24:09
1	Mn 257.610†	366569.5	372308.3	502.93 µg/L		502.93 ppb	16:24:09
1	Mo 202.031†	15338.7	15607.2	503.34 µg/L		503.34 ppb	16:24:29
1	Ni 231.604†	38662.9	39373.2	504.05 µg/L		504.05 ppb	16:24:09
1	P 214.914†	10347.5	10529.2	2517.4 µg/L		2517.4 ppb	16:24:29
1	Pb 220.353†	8128.0	8185.3	508.56 µg/L		508.56 ppb	16:24:29
1	S 181.975 Axial†	1298.1	1215.0	1019.8 µg/L		1019.8 ppb	16:24:29
1	Sb 206.836†	3829.7	3818.7	501.36 µg/L		501.36 ppb	16:24:29
1	Se 196.026†	1240.2	1247.8	508 µg/L		508 ppb	16:24:29
1	SiO2†	51645.7	50775.4	5452.3 µg/L		5452.3 ppb	16:24:09
1	Si 251.611†	155723.9	157366.3	2550.2 µg/L		2550.2 ppb	16:24:09
1	Sn 189.927†	7103.3	7219.0	501.59 µg/L		501.59 ppb	16:24:29
1	Ti 334.940†	487418.7	494577.5	499.72 µg/L		499.72 ppb	16:24:09
1	Tl 190.801†	3553.8	3724.8	512.97 µg/L		512.97 ppb	16:24:29
1	U 409.014†	7265.8	7599.5	514.11 µg/L		514.11 ppb	16:24:09
1	V 292.402†	92080.3	93261.2	506.15 µg/L		506.15 ppb	16:24:09
1	Zn 213.857†	80033.0	80803.1	501.27 µg/L		501.27 ppb	16:24:09
2	Sc RADIAL	148429.3	148429.3	100 %			16:23:46
2	Al 396.153Radial†	25257.1	25259.8	5014.5 µg/L		5014.5 ppb	16:23:46
2	Ca 317.933Radial†	84159.1	83356.8	5097.5 µg/L		5097.5 ppb	16:23:46
2	Fe 238.204 Radial†	74843.1	74532.7	5051.9 µg/L		5051.9 ppb	16:23:46
2	K 766.490 Radial†	14155.3	12572.7	5084.2 µg/L		5084.2 ppb	16:23:46
2	Mg 279.077 IEC†	12713.4	12501.2	5163.1 µg/L		5163.1 ppb	16:23:46
2	Na 589.592 Radial†	68506.2	67028.4	10059 µg/L		10059 ppb	16:23:46
2	Sr 421.552†	220562.8	220329.6	495.51 µg/L		495.51 ppb	16:23:44
2	Sc 361.383	1751683.8	1751683.8	100.06 %			16:24:32
2	Y 371.029	1040965.7	1040965.7	98.728 %			16:24:32
2	Ag 328.068†	126917.9	123092.7	503.49 µg/L		503.49 ppb	16:24:32
2	As 188.979†	1453.5	1469.7	499.53 µg/L		499.53 ppb	16:24:53
2	B 249.677†	34025.3	30720.9	501.11 µg/L		501.11 ppb	16:24:32
2	Ba 233.527†	113717.4	113799.7	502.43 µg/L		502.43 ppb	16:24:32
2	Be 313.107†	1682201.3	1681979.9	500.95 µg/L		500.95 ppb	16:24:32
2	Cd 226.502†	72350.8	72407.1	506.93 µg/L		506.93 ppb	16:24:32
2	Co 228.616†	36872.0	37015.8	507.27 µg/L		507.27 ppb	16:24:32
2	Cr 267.716†	58478.8	58280.2	501.75 µg/L		501.75 ppb	16:24:32
2	Cu 324.752†	120604.9	117688.2	501.61 µg/L		501.61 ppb	16:24:32
2	Mn 257.610†	372996.7	372544.2	503.25 µg/L		503.25 ppb	16:24:32
2	Mo 202.031†	15397.1	15406.7	496.88 µg/L		496.88 ppb	16:24:53
2	Ni 231.604†	39720.4	39777.5	509.23 µg/L		509.23 ppb	16:24:32
2	P 214.914†	10408.4	10415.4	2490.1 µg/L		2490.1 ppb	16:24:53
2	Pb 220.353†	8203.0	8123.0	504.70 µg/L		504.70 ppb	16:24:53

2	S 181.975 Axial†	1304.4	1199.4	1006.7 µg/L	1006.7 ppb	16:24:53
2	Sb 206.836†	3840.3	3764.7	494.18 µg/L	494.18 ppb	16:24:53
2	Se 196.026†	1250.3	1236.9	503 µg/L	503 ppb	16:24:53
2	SiO2†	52538.2	50795.6	5454.7 µg/L	5454.7 ppb	16:24:32
2	Si 251.611†	158391.9	157404.1	2551.0 µg/L	2551.0 ppb	16:24:32
2	Sn 189.927†	7151.3	7147.1	496.61 µg/L	496.61 ppb	16:24:53
2	Ti 334.940†	495237.7	494164.6	499.30 µg/L	499.30 ppb	16:24:32
2	Tl 190.801†	3547.6	3658.6	503.98 µg/L	503.98 ppb	16:24:53
2	U 409.014†	7097.0	7308.1	495.56 µg/L	495.56 ppb	16:24:32
2	V 292.402†	93636.9	93262.6	506.07 µg/L	506.07 ppb	16:24:32
2	Zn 213.857†	81528.3	80946.5	502.12 µg/L	502.12 ppb	16:24:32
3	Sc RADIAL	145635.8	145635.8	98.3 %		16:23:51
3	Al 396.153Radial†	24762.4	25240.1	5010.3 µg/L	5010.3 ppb	16:23:51
3	Ca 317.933Radial†	82549.9	83331.1	5095.9 µg/L	5095.9 ppb	16:23:51
3	Fe 238.204 Radial†	73435.2	74533.4	5051.9 µg/L	5051.9 ppb	16:23:51
3	K 766.490 Radial†	14064.7	12751.5	5156.5 µg/L	5156.5 ppb	16:23:51
3	Mg 279.077 IEC†	12538.6	12566.7	5190.3 µg/L	5190.3 ppb	16:23:51
3	Na 589.592 Radial†	67256.7	67068.8	10065 µg/L	10065 ppb	16:23:51
3	Sr 421.552†	221696.5	225703.3	507.60 µg/L	507.60 ppb	16:23:48
3	Sc 361.383	1731319.7	1731319.7	98.900 %		16:24:56
3	Y 371.029	1029528.0	1029528.0	97.643 %		16:24:56
3	Ag 328.068†	125813.1	123467.4	505.03 µg/L	505.03 ppb	16:24:56
3	As 188.979†	1445.8	1479.0	502.66 µg/L	502.66 ppb	16:25:16
3	B 249.677†	33445.2	30534.3	498.05 µg/L	498.05 ppb	16:24:56
3	Ba 233.527†	112207.3	113609.6	501.59 µg/L	501.59 ppb	16:24:56
3	Be 313.107†	1662703.9	1682039.4	500.97 µg/L	500.97 ppb	16:24:56
3	Cd 226.502†	71321.4	72216.7	505.60 µg/L	505.60 ppb	16:24:56
3	Co 228.616†	36466.6	37039.3	507.60 µg/L	507.60 ppb	16:24:56
3	Cr 267.716†	57836.9	58318.6	502.06 µg/L	502.06 ppb	16:24:56
3	Cu 324.752†	119144.1	117628.8	501.38 µg/L	501.38 ppb	16:24:56
3	Mn 257.610†	368252.2	372131.4	502.69 µg/L	502.69 ppb	16:24:56
3	Mo 202.031†	15418.5	15609.3	503.41 µg/L	503.41 ppb	16:25:16
3	Ni 231.604†	39012.4	39528.5	506.04 µg/L	506.04 ppb	16:24:56
3	P 214.914†	10411.9	10541.3	2520.3 µg/L	2520.3 ppb	16:25:16
3	Pb 220.353†	8176.1	8192.2	508.99 µg/L	508.99 ppb	16:25:16
3	S 181.975 Axial†	1300.5	1210.5	1016.3 µg/L	1016.3 ppb	16:25:16
3	Sb 206.836†	3861.9	3831.6	503.04 µg/L	503.04 ppb	16:25:16
3	Se 196.026†	1258.6	1260.0	513 µg/L	513 ppb	16:25:16
3	SiO2†	51731.5	50597.6	5433.1 µg/L	5433.1 ppb	16:24:56
3	Si 251.611†	156428.4	157280.7	2548.8 µg/L	2548.8 ppb	16:24:56
3	Sn 189.927†	7154.4	7234.2	502.65 µg/L	502.65 ppb	16:25:16
3	Ti 334.940†	490011.4	494701.5	499.84 µg/L	499.84 ppb	16:24:56
3	Tl 190.801†	3560.0	3712.8	511.34 µg/L	511.34 ppb	16:25:16
3	U 409.014†	7367.1	7664.6	518.25 µg/L	518.25 ppb	16:24:56
3	V 292.402†	92582.0	93296.7	506.34 µg/L	506.34 ppb	16:24:56
3	Zn 213.857†	80604.3	80970.6	502.29 µg/L	502.29 ppb	16:24:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1735197.9	99.122 %	0.8528			0.86%
Sc RADIAL	146801.2	99.1 %	0.98			0.99%
Y 371.029	1031576.7	97.837 %	0.8110			0.83%
Ag 328.068†	123304.6	504.36 µg/L	0.792	504.36 ppb	0.792	0.16%
QC value within limits for Ag 328.068 Recovery = 100.87%						
Al 396.153Radial†	25186.4	4999.7 µg/L	22.14	4999.7 ppb	22.14	0.44%
QC value within limits for Al 396.153Radial Recovery = 99.99%						
As 188.979†	1470.0	499.63 µg/L	2.987	499.63 ppb	2.987	0.60%
QC value within limits for As 188.979 Recovery = 99.93%						
B 249.677†	30653.0	500.00 µg/L	1.689	500.00 ppb	1.689	0.34%
QC value within limits for B 249.677 Recovery = 100.00%						
Ba 233.527†	113655.0	501.79 µg/L	0.564	501.79 ppb	0.564	0.11%
QC value within limits for Ba 233.527 Recovery = 100.36%						
Be 313.107†	1681768.8	500.89 µg/L	0.124	500.89 ppb	0.124	0.02%
QC value within limits for Be 313.107 Recovery = 100.18%						
Ca 317.933Radial†	83027.9	5077.4 µg/L	33.48	5077.4 ppb	33.48	0.66%
QC value within limits for Ca 317.933Radial Recovery = 101.55%						
Cd 226.502†	72216.9	505.60 µg/L	1.329	505.60 ppb	1.329	0.26%
QC value within limits for Cd 226.502 Recovery = 101.12%						
Co 228.616†	37028.8	507.45 µg/L	0.164	507.45 ppb	0.164	0.03%

QC value within limits for Co 228.616 Recovery = 101.49%							
Cr 267.716†	58290.7	501.83 µg/L	0.206	501.83 ppb	0.206	0.04%	
QC value within limits for Cr 267.716 Recovery = 100.37%							
Cu 324.752†	117657.3	501.49 µg/L	0.117	501.49 ppb	0.117	0.02%	
QC value within limits for Cu 324.752 Recovery = 100.30%							
Fe 238.204 Radial†	74260.2	5033.4 µg/L	32.03	5033.4 ppb	32.03	0.64%	
QC value within limits for Fe 238.204 Radial Recovery = 100.67%							
K 766.490 Radial†	12636.9	5110.1 µg/L	40.26	5110.1 ppb	40.26	0.79%	
QC value within limits for K 766.490 Radial Recovery = 102.20%							
Mg 279.077 IEC†	12490.3	5158.8 µg/L	33.92	5158.8 ppb	33.92	0.66%	
QC value within limits for Mg 279.077 IEC Recovery = 103.18%							
Mn 257.610†	372328.0	502.96 µg/L	0.280	502.96 ppb	0.280	0.06%	
QC value within limits for Mn 257.610 Recovery = 100.59%							
Mo 202.031†	15541.1	501.21 µg/L	3.750	501.21 ppb	3.750	0.75%	
QC value within limits for Mo 202.031 Recovery = 100.24%							
Na 589.592 Radial†	66899.9	10040 µg/L	38.8	10040 ppb	38.8	0.39%	
QC value within limits for Na 589.592 Radial Recovery = 100.40%							
Ni 231.604†	39559.7	506.44 µg/L	2.610	506.44 ppb	2.610	0.52%	
QC value within limits for Ni 231.604 Recovery = 101.29%							
P 214.914†	10495.3	2509.3 µg/L	16.66	2509.3 ppb	16.66	0.66%	
QC value within limits for P 214.914 Recovery = 100.37%							
Pb 220.353†	8166.8	507.42 µg/L	2.360	507.42 ppb	2.360	0.47%	
QC value within limits for Pb 220.353 Recovery = 101.48%							
S 181.975 Axial†	1208.4	1014.3 µg/L	6.78	1014.3 ppb	6.78	0.67%	
QC value within limits for S 181.975 Axial Recovery = 101.43%							
Sb 206.836†	3805.0	499.52 µg/L	4.706	499.52 ppb	4.706	0.94%	
QC value within limits for Sb 206.836 Recovery = 99.90%							
Se 196.026†	1248.2	508 µg/L	4.7	508 ppb	4.7	0.92%	
QC value within limits for Se 196.026 Recovery = 101.59%							
SiO2†	50722.9	5446.7 µg/L	11.85	5446.7 ppb	11.85	0.22%	
QC value within limits for SiO2 Recovery = 101.85%							
Si 251.611†	157350.4	2550.0 µg/L	1.08	2550.0 ppb	1.08	0.04%	
QC value within limits for Si 251.611 Recovery = 102.00%							
Sn 189.927†	7200.1	500.29 µg/L	3.224	500.29 ppb	3.224	0.64%	
QC value within limits for Sn 189.927 Recovery = 100.06%							
Sr 421.552†	222171.4	499.65 µg/L	6.881	499.65 ppb	6.881	1.38%	
QC value within limits for Sr 421.552 Recovery = 99.93%							
Ti 334.940†	494481.2	499.62 µg/L	0.279	499.62 ppb	0.279	0.06%	
QC value within limits for Ti 334.940 Recovery = 99.92%							
Tl 190.801†	3698.7	509.43 µg/L	4.789	509.43 ppb	4.789	0.94%	
QC value within limits for Tl 190.801 Recovery = 101.89%							
U 409.014†	7524.1	509.31 µg/L	12.084	509.31 ppb	12.084	2.37%	
QC value within limits for U 409.014 Recovery = 101.86%							
V 292.402†	93273.5	506.19 µg/L	0.137	506.19 ppb	0.137	0.03%	
QC value within limits for V 292.402 Recovery = 101.24%							
Zn 213.857†	80906.7	501.89 µg/L	0.551	501.89 ppb	0.551	0.11%	
QC value within limits for Zn 213.857 Recovery = 100.38%							
All analyte(s) passed QC.							

Sequence No.: 50

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 16:25:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	146037.5	146037.5	98.6 %		16:25:53
1	Al 396.153Radial†	-33.2	27.5	5.4742 µg/L	5.4742 ppb	16:26:13
1	Ca 317.933Radial†	625.9	27.4	1.6773 µg/L	1.6773 ppb	16:26:13
1	Fe 238.204 Radial†	198.4	64.3	4.3586 µg/L	4.3586 ppb	16:26:13
1	K 766.490 Radial†	1782.4	257.6	104.26 µg/L	104.26 ppb	16:25:53
1	Mg 279.077 IEC†	179.4	-0.9	-0.3449 µg/L	-0.3449 ppb	16:26:13
1	Na 589.592 Radial†	1396.5	97.1	14.483 µg/L	14.483 ppb	16:25:53
1	Sr 421.552†	-186.0	89.5	0.2014 µg/L	0.2014 ppb	16:25:53
1	Sc 361.383	1760649.1	1760649.1	100.58 %		16:27:01
1	Y 371.029	1057374.7	1057374.7	100.28 %		16:27:01
1	Ag 328.068†	3832.4	65.7	0.2685 µg/L	0.2685 ppb	16:27:03
1	As 188.979†	-13.0	4.2	1.4207 µg/L	1.4207 ppb	16:27:23
1	B 249.677†	3421.3	118.8	1.9463 µg/L	1.9463 ppb	16:27:23
1	Ba 233.527†	-133.9	21.4	0.0942 µg/L	0.0942 ppb	16:27:23
1	Be 313.107†	-896.8	-47.1	-0.0127 µg/L	-0.0127 ppb	16:27:03
1	Cd 226.502†	-120.9	-18.1	-0.1271 µg/L	-0.1271 ppb	16:27:23
1	Co 228.616†	-188.6	-20.3	-0.2788 µg/L	-0.2788 ppb	16:27:23
1	Cr 267.716†	166.4	3.9	0.0304 µg/L	0.0304 ppb	16:27:23
1	Cu 324.752†	2894.3	37.5	0.1634 µg/L	0.1634 ppb	16:27:03
1	Mn 257.610†	327.8	109.8	0.1484 µg/L	0.1484 ppb	16:27:23
1	Mo 202.031†	-6.1	13.3	0.4292 µg/L	0.4292 ppb	16:27:23
1	Ni 231.604†	-74.4	8.3	0.1066 µg/L	0.1066 ppb	16:27:23
1	P 214.914†	0.2	13.8	3.3080 µg/L	3.3080 ppb	16:27:23
1	Pb 220.353†	114.1	38.7	2.3927 µg/L	2.3927 ppb	16:27:23
1	S 181.975 Axial†	101.9	-2.8	-2.3728 µg/L	-2.3728 ppb	16:27:23
1	Sb 206.836†	95.6	21.8	2.8672 µg/L	2.8672 ppb	16:27:23
1	Se 196.026†	15.3	2.6	1.08 µg/L	1.08 ppb	16:27:23
1	SiO2†	1733.4	14.2	1.5110 µg/L	1.5110 ppb	16:27:23
1	Si 251.611†	861.6	-30.7	-0.5100 µg/L	-0.5100 ppb	16:27:03
1	Sn 189.927†	11.6	11.8	0.8204 µg/L	0.8204 ppb	16:27:23
1	Ti 334.940†	1090.5	325.0	0.3270 µg/L	0.3270 ppb	16:27:03
1	Tl 190.801†	-118.5	-4.6	-0.6173 µg/L	-0.6173 ppb	16:27:23
1	U 409.014†	-146.7	69.7	4.4265 µg/L	4.4265 ppb	16:27:03
1	V 292.402†	283.5	-33.1	-0.1704 µg/L	-0.1704 ppb	16:27:03
1	Zn 213.857†	604.3	70.8	0.4415 µg/L	0.4415 ppb	16:27:23
2	Sc RADIAL	146290.9	146290.9	98.8 %		16:26:16
2	Al 396.153Radial†	-77.3	-17.0	-3.3920 µg/L	-3.3920 ppb	16:26:36
2	Ca 317.933Radial†	639.6	40.3	2.4622 µg/L	2.4622 ppb	16:26:36
2	Fe 238.204 Radial†	191.3	56.7	3.8458 µg/L	3.8458 ppb	16:26:36
2	K 766.490 Radial†	1606.9	76.8	31.073 µg/L	31.073 ppb	16:26:16
2	Mg 279.077 IEC†	191.4	11.0	4.5512 µg/L	4.5512 ppb	16:26:36
2	Na 589.592 Radial†	1316.2	13.3	1.9664 µg/L	1.9664 ppb	16:26:16
2	Sr 421.552†	-177.3	98.6	0.2218 µg/L	0.2218 ppb	16:26:16
2	Sc 361.383	1755647.6	1755647.6	100.29 %		16:27:26
2	Y 371.029	1055304.0	1055304.0	100.09 %		16:27:26
2	Ag 328.068†	3750.5	-5.2	-0.0349 µg/L	-0.0349 ppb	16:27:28
2	As 188.979†	-18.8	-1.6	-0.5395 µg/L	-0.5395 ppb	16:27:48
2	B 249.677†	3358.3	65.8	1.0775 µg/L	1.0775 ppb	16:27:48
2	Ba 233.527†	-114.9	39.9	0.1760 µg/L	0.1760 ppb	16:27:48
2	Be 313.107†	-896.4	-49.2	-0.0174 µg/L	-0.0174 ppb	16:27:28
2	Cd 226.502†	-129.7	-27.2	-0.1908 µg/L	-0.1908 ppb	16:27:48
2	Co 228.616†	-182.3	-14.6	-0.2004 µg/L	-0.2004 ppb	16:27:48
2	Cr 267.716†	191.0	28.9	0.2556 µg/L	0.2556 ppb	16:27:48
2	Cu 324.752†	2780.7	-67.6	-0.2942 µg/L	-0.2942 ppb	16:27:28
2	Mn 257.610†	350.7	133.6	0.1803 µg/L	0.1803 ppb	16:27:48
2	Mo 202.031†	-13.6	5.8	0.1881 µg/L	0.1881 ppb	16:27:48
2	Ni 231.604†	-92.8	-10.3	-0.1314 µg/L	-0.1314 ppb	16:27:48
2	P 214.914†	-15.6	-1.9	-0.4614 µg/L	-0.4614 ppb	16:27:48
2	Pb 220.353†	87.9	12.9	0.8045 µg/L	0.8045 ppb	16:27:48

2	S 181.975 Axial†	98.8	-5.7	-4.7561 µg/L	-4.7561 ppb	16:27:48
2	Sb 206.836†	90.5	17.0	2.2277 µg/L	2.2277 ppb	16:27:48
2	Se 196.026†	19.4	6.8	2.75 µg/L	2.75 ppb	16:27:48
2	SiO2†	1718.9	4.7	0.4923 µg/L	0.4923 ppb	16:27:48
2	Si 251.611†	882.0	-7.9	-0.1320 µg/L	-0.1320 ppb	16:27:28
2	Sn 189.927†	3.4	3.7	0.2577 µg/L	0.2577 ppb	16:27:48
2	Ti 334.940†	908.2	146.3	0.1514 µg/L	0.1514 ppb	16:27:28
2	Tl 190.801†	-127.1	-13.5	-1.8330 µg/L	-1.8330 ppb	16:27:48
2	U 409.014†	-359.6	-142.9	-9.1077 µg/L	-9.1077 ppb	16:27:28
2	V 292.402†	276.3	-39.5	-0.2151 µg/L	-0.2151 ppb	16:27:28
2	Zn 213.857†	616.4	84.6	0.5297 µg/L	0.5297 ppb	16:27:48
3	Sc RADIAL	145798.8	145798.8	98.5 %		16:26:38
3	Al 396.153Radial†	-46.6	14.0	2.7817 µg/L	2.7817 ppb	16:26:58
3	Ca 317.933Radial†	604.4	6.7	0.4070 µg/L	0.4070 ppb	16:26:58
3	Fe 238.204 Radial†	186.3	52.3	3.5459 µg/L	3.5459 ppb	16:26:58
3	K 766.490 Radial†	1702.1	179.0	72.462 µg/L	72.462 ppb	16:26:38
3	Mg 279.077 IEC†	182.7	2.8	1.1671 µg/L	1.1671 ppb	16:26:58
3	Na 589.592 Radial†	1302.6	4.0	0.5405 µg/L	0.5405 ppb	16:26:38
3	Sr 421.552†	-160.8	114.7	0.2581 µg/L	0.2581 ppb	16:26:38
3	Sc 361.383	1756316.9	1756316.9	100.33 %		16:27:50
3	Y 371.029	1054880.9	1054880.9	100.05 %		16:27:50
3	Ag 328.068†	3508.7	-247.7	-1.0056 µg/L	-1.0056 ppb	16:27:52
3	As 188.979†	-16.3	0.8	0.2816 µg/L	0.2816 ppb	16:28:12
3	B 249.677†	3333.9	40.1	0.6574 µg/L	0.6574 ppb	16:28:12
3	Ba 233.527†	-121.0	33.9	0.1494 µg/L	0.1494 ppb	16:28:12
3	Be 313.107†	-856.5	-9.0	-0.0041 µg/L	-0.0041 ppb	16:27:52
3	Cd 226.502†	-108.2	-5.7	-0.0403 µg/L	-0.0403 ppb	16:28:12
3	Co 228.616†	-174.8	-7.1	-0.0968 µg/L	-0.0968 ppb	16:28:12
3	Cr 267.716†	181.7	19.6	0.1723 µg/L	0.1723 ppb	16:28:12
3	Cu 324.752†	2775.6	-73.8	-0.3169 µg/L	-0.3169 ppb	16:27:52
3	Mn 257.610†	397.2	179.8	0.2429 µg/L	0.2429 ppb	16:28:12
3	Mo 202.031†	-18.3	1.1	0.0353 µg/L	0.0353 ppb	16:28:12
3	Ni 231.604†	-82.1	0.4	0.0055 µg/L	0.0055 ppb	16:28:12
3	P 214.914†	1.5	15.1	3.6261 µg/L	3.6261 ppb	16:28:12
3	Pb 220.353†	68.0	-7.0	-0.4312 µg/L	-0.4312 ppb	16:28:12
3	S 181.975 Axial†	107.7	3.1	2.6194 µg/L	2.6194 ppb	16:28:12
3	Sb 206.836†	77.5	4.0	0.5256 µg/L	0.5256 ppb	16:28:12
3	Se 196.026†	33.1	20.4	8.27 µg/L	8.27 ppb	16:28:12
3	SiO2†	1711.9	-3.0	-0.3389 µg/L	-0.3389 ppb	16:28:12
3	Si 251.611†	998.5	107.9	1.7474 µg/L	1.7474 ppb	16:27:52
3	Sn 189.927†	15.4	15.6	1.0818 µg/L	1.0818 ppb	16:28:12
3	Ti 334.940†	794.7	32.8	0.0350 µg/L	0.0350 ppb	16:27:52
3	Tl 190.801†	-117.8	-4.2	-0.5720 µg/L	-0.5720 ppb	16:28:12
3	U 409.014†	-290.9	-74.3	-4.7245 µg/L	-4.7245 ppb	16:27:52
3	V 292.402†	327.4	11.4	0.0583 µg/L	0.0583 ppb	16:27:52
3	Zn 213.857†	612.5	80.5	0.5031 µg/L	0.5031 ppb	16:28:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1757537.8	100.40 %	0.155			0.15%
Sc RADIAL	146042.4	98.6 %	0.17			0.17%
Y 371.029	1055853.2	100.14 %	0.127			0.13%
Ag 328.068†	-62.4	-0.2573 µg/L	0.66551	-0.2573 ppb	0.66551	258.63%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.2	1.6213 µg/L	4.54557	1.6213 ppb	4.54557	280.37%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.1	0.3876 µg/L	0.98441	0.3876 ppb	0.98441	253.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	74.9	1.2271 µg/L	0.65732	1.2271 ppb	0.65732	53.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	31.7	0.1398 µg/L	0.04173	0.1398 ppb	0.04173	29.84%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-35.1	-0.0114 µg/L	0.00673	-0.0114 ppb	0.00673	59.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	24.8	1.5155 µg/L	1.03708	1.5155 ppb	1.03708	68.43%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-17.0	-0.1194 µg/L	0.07556	-0.1194 ppb	0.07556	63.28%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-14.0	-0.1920 µg/L	0.09129	-0.1920 ppb	0.09129	47.55%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	17.5	0.1528 µg/L	0.11385 0.1528 ppb 0.11385 74.53%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-34.6	-0.1493 µg/L	0.27100 -0.1493 ppb 0.27100 181.56%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	57.8	3.9168 µg/L	0.41094 3.9168 ppb 0.41094 10.49%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	171.2	69.266 µg/L	36.6994 69.266 ppb 36.6994 52.98%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	4.3	1.7911 µg/L	2.50701 1.7911 ppb 2.50701 139.97%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	141.1	0.1906 µg/L	0.04806 0.1906 ppb 0.04806 25.22%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	6.7	0.2176 µg/L	0.19859 0.2176 ppb 0.19859 91.28%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	38.1	5.6632 µg/L	7.67108 5.6632 ppb 7.67108 135.46%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-0.5	-0.0065 µg/L	0.11944 -0.0065 ppb 0.11944 >999.9%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	9.0	2.1576 µg/L	2.27368 2.1576 ppb 2.27368 105.38%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	14.8	0.9220 µg/L	1.41563 0.9220 ppb 1.41563 153.54%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-1.8	-1.5032 µg/L	3.76384 -1.5032 ppb 3.76384 250.40%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	14.3	1.8735 µg/L	1.21034 1.8735 ppb 1.21034 64.60%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	9.9	4.03 µg/L	3.762 4.03 ppb 3.762 93.35%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	5.3	0.5548 µg/L	0.92651 0.5548 ppb 0.92651 167.00%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	23.1	0.3685 µg/L	1.20906 0.3685 ppb 1.20906 328.10%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	10.4	0.7200 µg/L	0.42115 0.7200 ppb 0.42115 58.49%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	101.0	0.2271 µg/L	0.02871 0.2271 ppb 0.02871 12.64%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	168.0	0.1711 µg/L	0.14701 0.1711 ppb 0.14701 85.90%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-7.4	-1.0074 µg/L	0.71529 -1.0074 ppb 0.71529 71.00%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-49.2	-3.1352 µg/L	6.90568 -3.1352 ppb 6.90568 220.26%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-20.4	-0.1091 µg/L	0.14669 -0.1091 ppb 0.14669 134.50%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	78.6	0.4914 µg/L	0.04526 0.4914 ppb 0.04526 9.21%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 51

Sample ID: 248511013|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 341

Date Collected: 3/31/2010 16:28:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511013|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Sc RADIAL	150376.7	150376.7	102	%			16:28:54
1	Al 396.153Radial†	199496.2	196517.6	39192	µg/L	39192	ppb	16:28:52
1	Ca 317.933Radial†	373716.4	367414.5	22468	µg/L	22468	ppb	16:28:54
1	Fe 238.204 Radial†	950706.2	936082.5	63448	µg/L	63448	ppb	16:28:52
1	K 766.490 Radial†	21750.4	19869.2	8027.5	µg/L	8027.5	ppb	16:28:54
1	Mg 279.077 IEC†	22091.2	21571.8	8841.5	µg/L	8841.5	ppb	16:28:54
1	Na 589.592 Radial†	4277.1	2892.9	427.21	µg/L	427.21	ppb	16:28:54
1	Sr 421.552†	62963.3	62282.0	139.90	µg/L	139.90	ppb	16:28:54
1	Sc 361.383	1783250.0	1783250.0	101.87	%			16:29:20
1	Y 371.029	1162991.2	1162991.2	110.30	%			16:29:20
1	Ag 328.068†	3539.3	-270.4	-2.5601	µg/L	-2.5601	ppb	16:29:20
1	As 188.979†	4.2	21.3	21.692	µg/L	21.692	ppb	16:29:40
1	B 249.677†	7399.1	3980.7	65.100	µg/L	65.100	ppb	16:29:20
1	Ba 233.527†	97274.5	95646.5	421.17	µg/L	421.17	ppb	16:29:20
1	Be 313.107†	19268.6	19760.2	5.8115	µg/L	5.8115	ppb	16:29:20
1	Cd 226.502†	950.7	1035.4	0.5966	µg/L	0.5966	ppb	16:29:40
1	Co 228.616†	1115.7	1262.4	14.401	µg/L	14.401	ppb	16:29:40
1	Cr 267.716†	4319.4	4078.7	36.451	µg/L	36.451	ppb	16:29:40
1	Cu 324.752†	9382.8	6370.6	36.362	µg/L	36.362	ppb	16:29:20
1	Mn 257.610†	2981832.1	2926976.7	3955.1	µg/L	3955.1	ppb	16:29:20
1	Mo 202.031†	-37.4	-17.3	2.1384	µg/L	2.1384	ppb	16:29:40
1	Ni 231.604†	2468.6	2505.6	32.077	µg/L	32.077	ppb	16:29:40
1	P 214.914†	4979.1	4901.5	1141.2	µg/L	1141.2	ppb	16:29:40
1	Pb 220.353†	1028.7	935.0	61.243	µg/L	61.243	ppb	16:29:40
1	S 181.975 Axial†	1750.3	1614.0	1349.1	µg/L	1349.1	ppb	16:29:40
1	Sb 206.836†	82.2	7.5	-0.4892	µg/L	-0.4892	ppb	16:29:40
1	Se 196.026†	-32.5	-44.5	3.74	µg/L	3.74	ppb	16:29:40
1	SiO2†	279303.7	272476.4	29374	µg/L	29374	ppb	16:29:20
1	Si 251.611†	859765.5	843123.8	13717	µg/L	13717	ppb	16:29:20
1	Sn 189.927†	-3.8	-3.4	6.8476	µg/L	6.8476	ppb	16:29:40
1	Ti 334.940†	2116195.3	2076658.7	2100.9	µg/L	2100.9	ppb	16:29:20
1	Tl 190.801†	-370.3	-250.3	-2.1831	µg/L	-2.1831	ppb	16:29:40
1	U 409.014†	-4037.2	-3747.6	-221.95	µg/L	-221.95	ppb	16:29:20
1	V 292.402†	14829.7	14242.9	67.620	µg/L	67.620	ppb	16:29:40
1	Zn 213.857†	50907.2	49444.3	303.61	µg/L	303.61	ppb	16:29:20
2	Sc RADIAL	150028.7	150028.7	101	%			16:28:58
2	Al 396.153Radial†	201278.9	198732.8	39634	µg/L	39634	ppb	16:28:56
2	Ca 317.933Radial†	370782.3	365371.9	22344	µg/L	22344	ppb	16:28:58
2	Fe 238.204 Radial†	959335.8	946771.7	64173	µg/L	64173	ppb	16:28:56
2	K 766.490 Radial†	21430.2	19602.8	7919.6	µg/L	7919.6	ppb	16:28:58
2	Mg 279.077 IEC†	21854.6	21388.7	8765.4	µg/L	8765.4	ppb	16:28:58
2	Na 589.592 Radial†	4159.9	2787.0	411.40	µg/L	411.40	ppb	16:28:58
2	Sr 421.552†	62362.0	61832.2	138.89	µg/L	138.89	ppb	16:28:58
2	Sc 361.383	1780301.6	1780301.6	101.70	%			16:29:43
2	Y 371.029	1162095.4	1162095.4	110.22	%			16:29:43
2	Ag 328.068†	3733.9	-73.3	-1.7911	µg/L	-1.7911	ppb	16:29:43
2	As 188.979†	-0.8	16.3	20.195	µg/L	20.195	ppb	16:30:03
2	B 249.677†	7488.4	4080.5	66.734	µg/L	66.734	ppb	16:29:43
2	Ba 233.527†	97302.8	95832.4	421.98	µg/L	421.98	ppb	16:29:43
2	Be 313.107†	19117.5	19643.0	5.7701	µg/L	5.7701	ppb	16:29:43
2	Cd 226.502†	913.0	999.9	0.2716	µg/L	0.2716	ppb	16:30:03
2	Co 228.616†	1105.1	1253.8	14.246	µg/L	14.246	ppb	16:30:03
2	Cr 267.716†	4295.7	4062.5	36.353	µg/L	36.353	ppb	16:30:03
2	Cu 324.752†	9396.2	6399.0	36.568	µg/L	36.568	ppb	16:29:43
2	Mn 257.610†	2980178.3	2930198.4	3959.4	µg/L	3959.4	ppb	16:29:43
2	Mo 202.031†	-37.3	-17.3	2.1670	µg/L	2.1670	ppb	16:30:03
2	Ni 231.604†	2449.7	2491.1	31.891	µg/L	31.891	ppb	16:30:03
2	P 214.914†	4974.4	4905.0	1141.6	µg/L	1141.6	ppb	16:30:03
2	Pb 220.353†	1032.4	940.3	61.594	µg/L	61.594	ppb	16:30:03

2	S 181.975 Axial†	1762.7	1629.1	1361.7 µg/L	1361.7 ppb	16:30:03
2	Sb 206.836†	81.9	7.4	-0.5183 µg/L	-0.5183 ppb	16:30:03
2	Se 196.026†	-42.3	-54.2	0.062 µg/L	0.062 ppb	16:30:03
2	SiO2†	279114.4	272744.4	29403 µg/L	29403 ppb	16:29:43
2	Si 251.611†	859061.7	843829.5	13729 µg/L	13729 ppb	16:29:43
2	Sn 189.927†	-9.4	-9.0	6.4700 µg/L	6.4700 ppb	16:30:03
2	Ti 334.940†	2114934.9	2078859.8	2103.2 µg/L	2103.2 ppb	16:29:43
2	Tl 190.801†	-409.0	-288.9	-7.3913 µg/L	-7.3913 ppb	16:30:03
2	U 409.014†	-4372.6	-4084.0	-243.49 µg/L	-243.49 ppb	16:29:43
2	V 292.402†	14832.7	14270.0	67.671 µg/L	67.671 ppb	16:30:03
2	Zn 213.857†	50846.6	49467.5	303.69 µg/L	303.69 ppb	16:29:43
3	Sc RADIAL	150677.3	150677.3	102 %		16:29:02
3	Al 396.153Radial†	199438.1	196068.4	39102 µg/L	39102 ppb	16:29:00
3	Ca 317.933Radial†	375782.6	368710.8	22548 µg/L	22548 ppb	16:29:02
3	Fe 238.204 Radial†	947128.6	930698.3	63083 µg/L	63083 ppb	16:29:00
3	K 766.490 Radial†	21783.9	19859.3	8023.5 µg/L	8023.5 ppb	16:29:02
3	Mg 279.077 IEC†	22296.3	21730.0	8907.0 µg/L	8907.0 ppb	16:29:02
3	Na 589.592 Radial†	4254.9	2862.7	422.67 µg/L	422.67 ppb	16:29:02
3	Sr 421.552†	62891.0	62087.2	139.47 µg/L	139.47 ppb	16:29:02
3	Sc 361.383	1774836.3	1774836.3	101.39 %		16:30:06
3	Y 371.029	1157736.8	1157736.8	109.80 %		16:30:06
3	Ag 328.068†	3590.3	-203.6	-2.3010 µg/L	-2.3010 ppb	16:30:06
3	As 188.979†	5.3	22.3	21.968 µg/L	21.968 ppb	16:30:26
3	B 249.677†	7339.9	3956.7	64.707 µg/L	64.707 ppb	16:30:06
3	Ba 233.527†	96501.7	95337.0	419.81 µg/L	419.81 ppb	16:30:06
3	Be 313.107†	19273.2	19854.4	5.8343 µg/L	5.8343 ppb	16:30:06
3	Cd 226.502†	954.8	1043.9	0.6942 µg/L	0.6942 ppb	16:30:26
3	Co 228.616†	1129.3	1281.0	14.673 µg/L	14.673 ppb	16:30:26
3	Cr 267.716†	4328.1	4107.3	36.700 µg/L	36.700 ppb	16:30:26
3	Cu 324.752†	9329.4	6361.6	36.258 µg/L	36.258 ppb	16:30:06
3	Mn 257.610†	2961475.9	2920775.3	3946.7 µg/L	3946.7 ppb	16:30:06
3	Mo 202.031†	-33.8	-14.0	2.2339 µg/L	2.2339 ppb	16:30:26
3	Ni 231.604†	2475.4	2523.9	32.310 µg/L	32.310 ppb	16:30:26
3	P 214.914†	4965.3	4911.0	1143.7 µg/L	1143.7 ppb	16:30:26
3	Pb 220.353†	1028.8	939.9	61.563 µg/L	61.563 ppb	16:30:26
3	S 181.975 Axial†	1750.6	1622.5	1356.2 µg/L	1356.2 ppb	16:30:26
3	Sb 206.836†	77.7	3.4	-1.0242 µg/L	-1.0242 ppb	16:30:26
3	Se 196.026†	-38.8	-50.8	1.05 µg/L	1.05 ppb	16:30:26
3	SiO2†	277510.1	272007.2	29324 µg/L	29324 ppb	16:30:06
3	Si 251.611†	853956.1	841394.8	13689 µg/L	13689 ppb	16:30:06
3	Sn 189.927†	-5.5	-5.1	6.7217 µg/L	6.7217 ppb	16:30:26
3	Ti 334.940†	2104084.8	2074561.8	2098.8 µg/L	2098.8 ppb	16:30:06
3	Tl 190.801†	-397.2	-278.6	-6.0637 µg/L	-6.0637 ppb	16:30:26
3	U 409.014†	-4293.6	-4019.3	-239.17 µg/L	-239.17 ppb	16:30:06
3	V 292.402†	14887.0	14368.5	68.323 µg/L	68.323 ppb	16:30:26
3	Zn 213.857†	50488.9	49268.6	302.54 µg/L	302.54 ppb	16:30:06

Mean Data: 248511013|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1779462.7	101.65 %	0.244			0.24%
Sc RADIAL	150360.9	102 %	0.2			0.22%
Y 371.029	1160941.1	110.11 %	0.267			0.24%
Ag 328.068†	-182.4	-2.2174 µg/L	0.39122	-2.2174 ppb	0.39122	17.64%
Al 396.153Radial†	197106.3	39309 µg/L	284.5	39309 ppb	284.5	0.72%
As 188.979†	20.0	21.285 µg/L	0.9542	21.285 ppb	0.9542	4.48%
B 249.677†	4006.0	65.514 µg/L	1.0748	65.514 ppb	1.0748	1.64%
Ba 233.527†	95605.3	420.99 µg/L	1.097	420.99 ppb	1.097	0.26%
Be 313.107†	19752.5	5.8053 µg/L	0.03255	5.8053 ppb	0.03255	0.56%
Ca 317.933Radial†	367165.7	22453 µg/L	102.9	22453 ppb	102.9	0.46%
Cd 226.502†	1026.4	0.5208 µg/L	0.22127	0.5208 ppb	0.22127	42.49%
Co 228.616†	1265.7	14.440 µg/L	0.2163	14.440 ppb	0.2163	1.50%
Cr 267.716†	4082.8	36.501 µg/L	0.1791	36.501 ppb	0.1791	0.49%
Cu 324.752†	6377.0	36.396 µg/L	0.1578	36.396 ppb	0.1578	0.43%
Fe 238.204 Radial†	937850.8	63568 µg/L	554.5	63568 ppb	554.5	0.87%
K 766.490 Radial†	19777.1	7990.2 µg/L	61.16	7990.2 ppb	61.16	0.77%
Mg 279.077 IEC†	21563.5	8838.0 µg/L	70.90	8838.0 ppb	70.90	0.80%
Mn 257.610†	2925983.4	3953.7 µg/L	6.47	3953.7 ppb	6.47	0.16%
Mo 202.031†	-16.2	2.1798 µg/L	0.04904	2.1798 ppb	0.04904	2.25%
Na 589.592 Radial†	2847.6	420.43 µg/L	8.141	420.43 ppb	8.141	1.94%

Ni 231.604†	2506.9	32.093 µg/L	0.2101	32.093 ppb	0.2101	0.65%
P 214.914†	4905.8	1142.2 µg/L	1.34	1142.2 ppb	1.34	0.12%
Pb 220.353†	938.4	61.467 µg/L	0.1942	61.467 ppb	0.1942	0.32%
S 181.975 Axial†	1621.9	1355.6 µg/L	6.31	1355.6 ppb	6.31	0.47%
Sb 206.836†	6.1	-0.6772 µg/L	0.30082	-0.6772 ppb	0.30082	44.42%
Se 196.026†	-49.8	1.62 µg/L	1.904	1.62 ppb	1.904	117.59%
SiO2†	272409.3	29367 µg/L	40.2	29367 ppb	40.2	0.14%
Si 251.611†	842782.7	13712 µg/L	20.4	13712 ppb	20.4	0.15%
Sn 189.927†	-5.9	6.6798 µg/L	0.19227	6.6798 ppb	0.19227	2.88%
Sr 421.552†	62067.1	139.42 µg/L	0.507	139.42 ppb	0.507	0.36%
Ti 334.940†	2076693.5	2101.0 µg/L	2.18	2101.0 ppb	2.18	0.10%
Tl 190.801†	-272.6	-5.2127 µg/L	2.70642	-5.2127 ppb	2.70642	51.92%
U 409.014†	-3950.3	-234.87 µg/L	11.395	-234.87 ppb	11.395	4.85%
Concentration less than lower limit for U 409.014.						
V 292.402†	14293.8	67.871 µg/L	0.3920	67.871 ppb	0.3920	0.58%
Zn 213.857†	49393.4	303.28 µg/L	0.639	303.28 ppb	0.639	0.21%

Sequence No.: 52

Sample ID: 248511014|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 342

Date Collected: 3/31/2010 16:30:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511014|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149386.4	149386.4	101 %		16:31:06
1	Al 396.153Radial†	265433.8	263183.0	52487 µg/L	52487 ppb	16:31:04
1	Ca 317.933Radial†	254885.0	252057.7	15414 µg/L	15414 ppb	16:31:06
1	Fe 238.204 Radial†	1335235.4	1323468.4	89705 µg/L	89705 ppb	16:31:04
1	K 766.490 Radial†	22784.9	21036.7	8498.2 µg/L	8498.2 ppb	16:31:06
1	Mg 279.077 IEC†	26574.0	26159.8	10711 µg/L	10711 ppb	16:31:06
1	Na 589.592 Radial†	5826.3	4456.6	661.56 µg/L	661.56 ppb	16:31:06
1	Sr 421.552†	56203.6	55992.2	125.81 µg/L	125.81 ppb	16:31:06
1	Sc 361.383	1755220.6	1755220.6	100.27 %		16:31:19
1	Y 371.029	1248398.4	1248398.4	118.40 %		16:31:19
1	Ag 328.068†	3370.5	-383.2	-2.5744 µg/L	-2.5744 ppb	16:31:19
1	As 188.979†	23.1	40.1	34.636 µg/L	34.636 ppb	16:31:39
1	B 249.677†	5576.7	2279.1	37.218 µg/L	37.218 ppb	16:31:19
1	Ba 233.527†	98279.2	98173.5	432.00 µg/L	432.00 ppb	16:31:19
1	Be 313.107†	32332.8	33091.9	9.7351 µg/L	9.7351 ppb	16:31:19
1	Cd 226.502†	1286.7	1385.4	0.3061 µg/L	0.3061 ppb	16:31:39
1	Co 228.616†	1679.5	1842.2	20.997 µg/L	20.997 ppb	16:31:39
1	Cr 267.716†	13186.6	12990.1	114.47 µg/L	114.47 ppb	16:31:39
1	Cu 324.752†	8701.5	5838.2	37.854 µg/L	37.854 ppb	16:31:19
1	Mn 257.610†	2163138.6	2157195.5	2914.6 µg/L	2914.6 ppb	16:31:19
1	Mo 202.031†	48.5	67.7	5.9617 µg/L	5.9617 ppb	16:31:39
1	Ni 231.604†	5486.0	5553.8	71.099 µg/L	71.099 ppb	16:31:39
1	P 214.914†	3540.8	3545.0	800.88 µg/L	800.88 ppb	16:31:39
1	Pb 220.353†	1028.7	951.1	63.950 µg/L	63.950 ppb	16:31:39
1	S 181.975 Axial†	944.9	838.2	700.66 µg/L	700.66 ppb	16:31:39
1	Sb 206.836†	83.3	9.9	-1.6579 µg/L	-1.6579 ppb	16:31:39
1	Se 196.026†	-71.2	-83.6	-3.12 µg/L	-3.12 ppb	16:31:39
1	SiO2†	492385.1	489372.2	52756 µg/L	52756 ppb	16:31:19
1	Si 251.611†	1512801.8	1507909.3	24533 µg/L	24533 ppb	16:31:19
1	Sn 189.927†	71.4	71.5	16.121 µg/L	16.121 ppb	16:31:39
1	Ti 334.940†	3283985.8	3274532.1	3312.5 µg/L	3312.5 ppb	16:31:19
1	Tl 190.801†	-470.0	-355.5	-6.8223 µg/L	-6.8223 ppb	16:31:39
1	U 409.014†	-6364.2	-6131.7	-385.25 µg/L	-385.25 ppb	16:31:19
1	V 292.402†	19574.9	19208.1	90.573 µg/L	90.573 ppb	16:31:19
1	Zn 213.857†	70968.9	70251.0	431.73 µg/L	431.73 ppb	16:31:19
2	Sc RADIAL	150384.9	150384.9	102 %		16:31:10
2	Al 396.153Radial†	265126.9	261133.9	52078 µg/L	52078 ppb	16:31:08
2	Ca 317.933Radial†	255824.9	251305.6	15368 µg/L	15368 ppb	16:31:10
2	Fe 238.204 Radial†	1333802.7	1313269.7	89014 µg/L	89014 ppb	16:31:08
2	K 766.490 Radial†	22876.1	20976.5	8473.9 µg/L	8473.9 ppb	16:31:10
2	Mg 279.077 IEC†	26788.5	26196.1	10727 µg/L	10727 ppb	16:31:10
2	Na 589.592 Radial†	5934.0	4524.3	671.75 µg/L	671.75 ppb	16:31:10
2	Sr 421.552†	56481.7	55896.1	125.60 µg/L	125.60 ppb	16:31:10
2	Sc 361.383	1761196.4	1761196.4	100.61 %		16:31:42
2	Y 371.029	1254052.9	1254052.9	118.94 %		16:31:42
2	Ag 328.068†	3439.9	-325.6	-2.3357 µg/L	-2.3357 ppb	16:31:42
2	As 188.979†	21.4	38.4	33.890 µg/L	33.890 ppb	16:32:02
2	B 249.677†	5713.9	2396.6	39.141 µg/L	39.141 ppb	16:31:42
2	Ba 233.527†	99799.1	99351.6	437.20 µg/L	437.20 ppb	16:31:42
2	Be 313.107†	32846.1	33492.7	9.8544 µg/L	9.8544 ppb	16:31:42
2	Cd 226.502†	1302.9	1397.1	0.4605 µg/L	0.4605 ppb	16:32:02
2	Co 228.616†	1689.8	1846.8	21.101 µg/L	21.101 ppb	16:32:02
2	Cr 267.716†	13208.9	12967.7	114.25 µg/L	114.25 ppb	16:32:02
2	Cu 324.752†	8702.4	5809.6	37.633 µg/L	37.633 ppb	16:31:42
2	Mn 257.610†	2191074.7	2177643.0	2942.3 µg/L	2942.3 ppb	16:31:42
2	Mo 202.031†	60.4	79.4	6.3100 µg/L	6.3100 ppb	16:32:02
2	Ni 231.604†	5459.7	5509.1	70.527 µg/L	70.527 ppb	16:32:02
2	P 214.914†	3569.5	3561.6	805.22 µg/L	805.22 ppb	16:32:02
2	Pb 220.353†	1042.0	960.9	64.589 µg/L	64.589 ppb	16:32:02

2	S 181.975 Axial†	928.5	818.7	684.35 µg/L	684.35 ppb	16:32:02
2	Sb 206.836†	79.0	5.3	-2.2406 µg/L	-2.2406 ppb	16:32:02
2	Se 196.026†	-47.8	-60.1	6.17 µg/L	6.17 ppb	16:32:02
2	SiO2†	498636.6	493919.8	53247 µg/L	53247 ppb	16:31:42
2	Si 251.611†	1533033.1	1522899.2	24777 µg/L	24777 ppb	16:31:42
2	Sn 189.927†	59.3	59.2	15.361 µg/L	15.361 ppb	16:32:02
2	Ti 334.940†	3321750.7	3300956.1	3339.3 µg/L	3339.3 ppb	16:31:42
2	Tl 190.801†	-444.7	-328.8	-2.8464 µg/L	-2.8464 ppb	16:32:02
2	U 409.014†	-6388.2	-6134.1	-385.02 µg/L	-385.02 ppb	16:31:42
2	V 292.402†	19775.7	19341.4	91.338 µg/L	91.338 ppb	16:31:42
2	Zn 213.857†	72040.9	71076.3	436.98 µg/L	436.98 ppb	16:31:42
3	Sc RADIAL	147667.1	147667.1	99.7 %		16:31:14
3	Al 396.153Radial†	265786.6	266600.4	53168 µg/L	53168 ppb	16:31:12
3	Ca 317.933Radial†	250481.5	250583.5	15324 µg/L	15324 ppb	16:31:14
3	Fe 238.204 Radial†	1341813.2	1345475.7	91197 µg/L	91197 ppb	16:31:12
3	K 766.490 Radial†	22367.1	20880.6	8434.9 µg/L	8434.9 ppb	16:31:14
3	Mg 279.077 IEC†	26127.0	26018.2	10651 µg/L	10651 ppb	16:31:14
3	Na 589.592 Radial†	5983.0	4680.9	695.30 µg/L	695.30 ppb	16:31:14
3	Sr 421.552†	55378.8	55813.7	125.41 µg/L	125.41 ppb	16:31:14
3	Sc 361.383	1776989.4	1776989.4	101.51 %		16:32:05
3	Y 371.029	1265159.3	1265159.3	119.99 %		16:32:05
3	Ag 328.068†	3572.6	-225.4	-1.9395 µg/L	-1.9395 ppb	16:32:05
3	As 188.979†	15.4	32.3	32.333 µg/L	32.333 ppb	16:32:25
3	B 249.677†	5701.2	2333.6	38.113 µg/L	38.113 ppb	16:32:05
3	Ba 233.527†	100364.5	99027.0	435.74 µg/L	435.74 ppb	16:32:05
3	Be 313.107†	32992.8	33347.0	9.8117 µg/L	9.8117 ppb	16:32:05
3	Cd 226.502†	1306.5	1389.2	0.1754 µg/L	0.1754 ppb	16:32:25
3	Co 228.616†	1675.6	1817.8	20.589 µg/L	20.589 ppb	16:32:25
3	Cr 267.716†	13185.5	12828.0	113.12 µg/L	113.12 ppb	16:32:25
3	Cu 324.752†	8832.0	5860.5	38.166 µg/L	38.166 ppb	16:32:05
3	Mn 257.610†	2204628.7	2171639.8	2934.2 µg/L	2934.2 ppb	16:32:05
3	Mo 202.031†	59.5	78.0	6.3514 µg/L	6.3514 ppb	16:32:25
3	Ni 231.604†	5486.7	5487.4	70.250 µg/L	70.250 ppb	16:32:25
3	P 214.914†	3544.8	3505.7	790.57 µg/L	790.57 ppb	16:32:25
3	Pb 220.353†	1055.2	964.7	64.811 µg/L	64.811 ppb	16:32:25
3	S 181.975 Axial†	937.7	819.6	685.06 µg/L	685.06 ppb	16:32:25
3	Sb 206.836†	85.6	11.2	-1.4871 µg/L	-1.4871 ppb	16:32:25
3	Se 196.026†	-57.1	-68.9	3.37 µg/L	3.37 ppb	16:32:25
3	SiO2†	502213.8	493038.9	53152 µg/L	53152 ppb	16:32:05
3	Si 251.611†	1542708.7	1518888.3	24711 µg/L	24711 ppb	16:32:05
3	Sn 189.927†	66.1	65.4	15.773 µg/L	15.773 ppb	16:32:25
3	Ti 334.940†	3346449.5	3295943.8	3334.2 µg/L	3334.2 ppb	16:32:05
3	Tl 190.801†	-450.8	-330.9	-3.2059 µg/L	-3.2059 ppb	16:32:25
3	U 409.014†	-6408.4	-6097.5	-383.25 µg/L	-383.25 ppb	16:32:05
3	V 292.402†	19935.8	19324.5	91.017 µg/L	91.017 ppb	16:32:05
3	Zn 213.857†	72410.1	70803.6	435.06 µg/L	435.06 ppb	16:32:05

Mean Data: 248511014|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1764468.8	100.79 %	0.642			0.64%
Sc RADIAL	149146.1	101 %	0.9			0.92%
Y 371.029	1255870.2	119.11 %	0.809			0.68%
Ag 328.068†	-311.4	-2.2832 µg/L	0.32073	-2.2832 ppb	0.32073	14.05%
Al 396.153Radial†	263639.1	52578 µg/L	550.8	52578 ppb	550.8	1.05%
As 188.979†	36.9	33.620 µg/L	1.1749	33.620 ppb	1.1749	3.49%
B 249.677†	2336.4	38.157 µg/L	0.9623	38.157 ppb	0.9623	2.52%
Ba 233.527†	98850.7	434.98 µg/L	2.686	434.98 ppb	2.686	0.62%
Be 313.107†	33310.5	9.8004 µg/L	0.06045	9.8004 ppb	0.06045	0.62%
Ca 317.933Radial†	251315.6	15369 µg/L	45.1	15369 ppb	45.1	0.29%
Cd 226.502†	1390.6	0.3140 µg/L	0.14269	0.3140 ppb	0.14269	45.44%
Co 228.616†	1835.6	20.895 µg/L	0.2705	20.895 ppb	0.2705	1.29%
Cr 267.716†	12928.6	113.95 µg/L	0.724	113.95 ppb	0.724	0.64%
Cu 324.752†	5836.1	37.885 µg/L	0.2681	37.885 ppb	0.2681	0.71%
Fe 238.204 Radial†	1327404.6	89972 µg/L	1115.7	89972 ppb	1115.7	1.24%
K 766.490 Radial†	20964.6	8469.0 µg/L	31.93	8469.0 ppb	31.93	0.38%
Mg 279.077 IEC†	26124.7	10696 µg/L	39.7	10696 ppb	39.7	0.37%
Mn 257.610†	2168826.1	2930.4 µg/L	14.20	2930.4 ppb	14.20	0.48%
Mo 202.031†	75.0	6.2077 µg/L	0.21406	6.2077 ppb	0.21406	3.45%
Na 589.592 Radial†	4553.9	676.20 µg/L	17.309	676.20 ppb	17.309	2.56%

Ni 231.604†	5516.8	70.625 µg/L	0.4332	70.625 ppb	0.4332	0.61%
P 214.914†	3537.4	798.89 µg/L	7.529	798.89 ppb	7.529	0.94%
Pb 220.353†	958.9	64.450 µg/L	0.4472	64.450 ppb	0.4472	0.69%
S 181.975 Axial†	825.5	690.02 µg/L	9.221	690.02 ppb	9.221	1.34%
Sb 206.836†	8.8	-1.7952 µg/L	0.39504	-1.7952 ppb	0.39504	22.01%
Se 196.026†	-70.8	2.14 µg/L	4.766	2.14 ppb	4.766	223.07%
SiO2†	492110.3	53051 µg/L	260.0	53051 ppb	260.0	0.49%
Si 251.611†	1516565.6	24674 µg/L	126.3	24674 ppb	126.3	0.51%
Sn 189.927†	65.3	15.752 µg/L	0.3801	15.752 ppb	0.3801	2.41%
Sr 421.552†	55900.7	125.61 µg/L	0.201	125.61 ppb	0.201	0.16%
Ti 334.940†	3290477.4	3328.7 µg/L	14.20	3328.7 ppb	14.20	0.43%
Tl 190.801†	-338.4	-4.2915 µg/L	2.19908	-4.2915 ppb	2.19908	51.24%
U 409.014†	-6121.1	-384.51 µg/L	1.093	-384.51 ppb	1.093	0.28%
Concentration less than lower limit for U 409.014.						
V 292.402†	19291.3	90.976 µg/L	0.3842	90.976 ppb	0.3842	0.42%
Zn 213.857†	70710.3	434.59 µg/L	2.654	434.59 ppb	2.654	0.61%

Sequence No.: 53

Sample ID: 248511015|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 343

Date Collected: 3/31/2010 16:32:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511015|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150330.9	150330.9	102 %		16:33:04
1	Al 396.153Radial†	297085.4	292708.8	58375 µg/L	58375 ppb	16:33:02
1	Ca 317.933Radial†	431887.6	424828.9	25980 µg/L	25980 ppb	16:33:04
1	Fe 238.204 Radial†	1116378.9	1099565.6	74529 µg/L	74529 ppb	16:33:02
1	K 766.490 Radial†	27210.1	25253.8	10202 µg/L	10202 ppb	16:33:04
1	Mg 279.077 IEC†	28232.5	27628.0	11329 µg/L	11329 ppb	16:33:04
1	Na 589.592 Radial†	4361.4	2977.3	437.93 µg/L	437.93 ppb	16:33:04
1	Sr 421.552†	77967.6	77081.1	173.16 µg/L	173.16 ppb	16:33:04
1	Sc 361.383	1769437.2	1769437.2	101.08 %		16:33:31
1	Y 371.029	1199555.3	1199555.3	113.77 %		16:33:31
1	Ag 328.068†	3545.2	-237.5	-2.4728 µg/L	-2.4728 ppb	16:33:31
1	As 188.979†	22.7	39.6	30.580 µg/L	30.580 ppb	16:33:51
1	B 249.677†	6336.9	2986.5	48.808 µg/L	48.808 ppb	16:33:31
1	Ba 233.527†	124956.1	123778.5	545.14 µg/L	545.14 ppb	16:33:31
1	Be 313.107†	30980.4	31494.8	9.2913 µg/L	9.2913 ppb	16:33:31
1	Cd 226.502†	1099.3	1189.7	0.5237 µg/L	0.5237 ppb	16:33:51
1	Co 228.616†	1506.8	1657.9	19.367 µg/L	19.367 ppb	16:33:51
1	Cr 267.716†	7634.3	7391.3	65.237 µg/L	65.237 ppb	16:33:51
1	Cu 324.752†	11636.5	8672.1	47.787 µg/L	47.787 ppb	16:33:31
1	Mn 257.610†	3391662.9	3355289.1	4533.8 µg/L	4533.8 ppb	16:33:31
1	Mo 202.031†	-62.2	-42.2	1.8323 µg/L	1.8323 ppb	16:33:51
1	Ni 231.604†	4362.5	4398.3	56.307 µg/L	56.307 ppb	16:33:51
1	P 214.914†	5504.8	5459.7	1271.8 µg/L	1271.8 ppb	16:33:51
1	Pb 220.353†	1331.9	1242.9	81.159 µg/L	81.159 ppb	16:33:51
1	S 181.975 Axial†	1487.1	1367.0	1142.6 µg/L	1142.6 ppb	16:33:51
1	Sb 206.836†	100.2	26.0	1.2779 µg/L	1.2779 ppb	16:33:51
1	Se 196.026†	-31.4	-43.6	7.91 µg/L	7.91 ppb	16:33:51
1	SiO2†	593185.5	585152.4	63082 µg/L	63082 ppb	16:33:31
1	Si 251.611†	1821736.6	1801428.2	29308 µg/L	29308 ppb	16:33:31
1	Sn 189.927†	88.6	87.9	13.147 µg/L	13.147 ppb	16:33:51
1	Ti 334.940†	2091967.8	2068906.6	2093.0 µg/L	2093.0 ppb	16:33:31
1	Tl 190.801†	-401.1	-283.6	-5.1110 µg/L	-5.1110 ppb	16:33:51
1	U 409.014†	-4751.1	-4484.9	-265.91 µg/L	-265.91 ppb	16:33:31
1	V 292.402†	19973.9	19446.0	94.405 µg/L	94.405 ppb	16:33:31
1	Zn 213.857†	50467.3	49399.2	302.23 µg/L	302.23 ppb	16:33:31
2	Sc RADIAL	150366.4	150366.4	102 %		16:33:08
2	Al 396.153Radial†	298901.5	294428.2	58718 µg/L	58718 ppb	16:33:06
2	Ca 317.933Radial†	434029.0	426837.3	26102 µg/L	26102 ppb	16:33:08
2	Fe 238.204 Radial†	1120735.5	1103596.3	74802 µg/L	74802 ppb	16:33:06
2	K 766.490 Radial†	27281.0	25317.4	10227 µg/L	10227 ppb	16:33:08
2	Mg 279.077 IEC†	28392.4	27778.9	11391 µg/L	11391 ppb	16:33:08
2	Na 589.592 Radial†	4379.1	2993.6	440.37 µg/L	440.37 ppb	16:33:08
2	Sr 421.552†	78210.4	77302.0	173.66 µg/L	173.66 ppb	16:33:08
2	Sc 361.383	1765824.2	1765824.2	100.87 %		16:33:54
2	Y 371.029	1196407.4	1196407.4	113.47 %		16:33:54
2	Ag 328.068†	3732.2	-44.9	-1.7166 µg/L	-1.7166 ppb	16:33:54
2	As 188.979†	21.6	38.5	30.278 µg/L	30.278 ppb	16:34:14
2	B 249.677†	6354.3	3016.6	49.299 µg/L	49.299 ppb	16:33:54
2	Ba 233.527†	124605.4	123683.7	544.72 µg/L	544.72 ppb	16:33:54
2	Be 313.107†	31236.4	31811.3	9.3821 µg/L	9.3821 ppb	16:33:54
2	Cd 226.502†	1076.9	1169.7	0.3551 µg/L	0.3551 ppb	16:34:14
2	Co 228.616†	1514.4	1668.4	19.496 µg/L	19.496 ppb	16:34:14
2	Cr 267.716†	7579.4	7352.4	64.919 µg/L	64.919 ppb	16:34:14
2	Cu 324.752†	11639.0	8698.2	47.930 µg/L	47.930 ppb	16:33:54
2	Mn 257.610†	3385697.2	3356240.4	4535.1 µg/L	4535.1 ppb	16:33:54
2	Mo 202.031†	-75.3	-55.3	1.4205 µg/L	1.4205 ppb	16:34:14
2	Ni 231.604†	4364.8	4409.4	56.449 µg/L	56.449 ppb	16:34:14
2	P 214.914†	5497.6	5463.8	1272.6 µg/L	1272.6 ppb	16:34:14
2	Pb 220.353†	1294.2	1208.2	79.031 µg/L	79.031 ppb	16:34:14

2	S 181.975 Axial†	1461.4	1344.6	1123.9 µg/L	1123.9 ppb	16:34:14
2	Sb 206.836†	85.3	11.3	-0.6444 µg/L	-0.6444 ppb	16:34:14
2	Se 196.026†	-46.6	-58.8	1.85 µg/L	1.85 ppb	16:34:14
2	SiO2†	591816.6	584996.1	63065 µg/L	63065 ppb	16:33:54
2	Si 251.611†	1817612.4	1801027.2	29302 µg/L	29302 ppb	16:33:54
2	Sn 189.927†	85.4	85.0	12.941 µg/L	12.941 ppb	16:34:14
2	Ti 334.940†	2086820.4	2068038.2	2092.1 µg/L	2092.1 ppb	16:33:54
2	Tl 190.801†	-398.6	-282.0	-4.8995 µg/L	-4.8995 ppb	16:34:14
2	U 409.014†	-4920.7	-4662.6	-277.28 µg/L	-277.28 ppb	16:33:54
2	V 292.402†	19897.0	19410.1	94.172 µg/L	94.172 ppb	16:33:54
2	Zn 213.857†	50268.3	49304.1	301.61 µg/L	301.61 ppb	16:33:54
3	Sc RADIAL	153328.5	153328.5	104 %		16:33:12
3	Al 396.153Radial†	299853.2	289660.6	57767 µg/L	57767 ppb	16:33:10
3	Ca 317.933Radial†	440892.4	425208.3	26003 µg/L	26003 ppb	16:33:12
3	Fe 238.204 Radial†	1128940.1	1090197.7	73894 µg/L	73894 ppb	16:33:10
3	K 766.490 Radial†	27639.7	25144.7	10158 µg/L	10158 ppb	16:33:12
3	Mg 279.077 IEC†	28832.2	27663.5	11345 µg/L	11345 ppb	16:33:12
3	Na 589.592 Radial†	4485.1	3012.7	443.29 µg/L	443.29 ppb	16:33:12
3	Sr 421.552†	79186.5	76756.7	172.43 µg/L	172.43 ppb	16:33:12
3	Sc 361.383	1778719.0	1778719.0	101.61 %		16:34:17
3	Y 371.029	1204789.0	1204789.0	114.27 %		16:34:17
3	Ag 328.068†	4089.1	279.6	-0.3929 µg/L	-0.3929 ppb	16:34:17
3	As 188.979†	31.1	47.7	33.152 µg/L	33.152 ppb	16:34:37
3	B 249.677†	6472.7	3087.4	50.460 µg/L	50.460 ppb	16:34:17
3	Ba 233.527†	125685.0	123850.7	545.47 µg/L	545.47 ppb	16:34:17
3	Be 313.107†	31565.0	31910.2	9.4093 µg/L	9.4093 ppb	16:34:17
3	Cd 226.502†	1059.0	1144.4	0.2726 µg/L	0.2726 ppb	16:34:37
3	Co 228.616†	1493.5	1637.1	19.115 µg/L	19.115 ppb	16:34:37
3	Cr 267.716†	7557.1	7275.9	64.237 µg/L	64.237 ppb	16:34:37
3	Cu 324.752†	11731.4	8705.4	47.821 µg/L	47.821 ppb	16:34:17
3	Mn 257.610†	3409265.5	3355103.3	4533.5 µg/L	4533.5 ppb	16:34:17
3	Mo 202.031†	-71.9	-51.4	1.5093 µg/L	1.5093 ppb	16:34:37
3	Ni 231.604†	4343.9	4357.5	55.784 µg/L	55.784 ppb	16:34:37
3	P 214.914†	5470.3	5397.3	1257.1 µg/L	1257.1 ppb	16:34:37
3	Pb 220.353†	1307.4	1211.9	79.232 µg/L	79.232 ppb	16:34:37
3	S 181.975 Axial†	1471.0	1343.6	1123.0 µg/L	1123.0 ppb	16:34:37
3	Sb 206.836†	84.0	9.5	-0.8580 µg/L	-0.8580 ppb	16:34:37
3	Se 196.026†	-51.6	-63.4	-0.336 µg/L	-0.336 ppb	16:34:37
3	SiO2†	596279.9	585135.5	63080 µg/L	63080 ppb	16:34:17
3	Si 251.611†	1830215.9	1800368.3	29291 µg/L	29291 ppb	16:34:17
3	Sn 189.927†	73.4	72.5	12.068 µg/L	12.068 ppb	16:34:37
3	Ti 334.940†	2100010.0	2066021.5	2090.1 µg/L	2090.1 ppb	16:34:17
3	Tl 190.801†	-409.8	-290.1	-6.0169 µg/L	-6.0169 ppb	16:34:37
3	U 409.014†	-5077.9	-4782.0	-284.62 µg/L	-284.62 ppb	16:34:17
3	V 292.402†	20258.2	19622.7	95.402 µg/L	95.402 ppb	16:34:17
3	Zn 213.857†	50777.1	49443.5	302.56 µg/L	302.56 ppb	16:34:17

Mean Data: 248511015|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1771326.8	101.19 %	0.380			0.38%
Sc RADIAL	151341.9	102 %	1.2			1.14%
Y 371.029	1200250.6	113.83 %	0.402			0.35%
Ag 328.068†	-0.9	-1.5274 µg/L	1.05275	-1.5274 ppb	1.05275	68.92%
Al 396.153Radial†	292265.8	58287 µg/L	481.5	58287 ppb	481.5	0.83%
As 188.979†	41.9	31.337 µg/L	1.5794	31.337 ppb	1.5794	5.04%
B 249.677†	3030.2	49.522 µg/L	0.8484	49.522 ppb	0.8484	1.71%
Ba 233.527†	123770.9	545.11 µg/L	0.376	545.11 ppb	0.376	0.07%
Be 313.107†	31738.7	9.3609 µg/L	0.06179	9.3609 ppb	0.06179	0.66%
Ca 317.933Radial†	425624.8	26028 µg/L	65.3	26028 ppb	65.3	0.25%
Cd 226.502†	1167.9	0.3838 µg/L	0.12798	0.3838 ppb	0.12798	33.35%
Co 228.616†	1654.5	19.326 µg/L	0.1942	19.326 ppb	0.1942	1.00%
Cr 267.716†	7339.9	64.798 µg/L	0.5113	64.798 ppb	0.5113	0.79%
Cu 324.752†	8691.9	47.846 µg/L	0.0747	47.846 ppb	0.0747	0.16%
Fe 238.204 Radial†	1097786.5	74409 µg/L	465.9	74409 ppb	465.9	0.63%
K 766.490 Radial†	25238.6	10195 µg/L	35.2	10195 ppb	35.2	0.35%
Mg 279.077 IEC†	27690.1	11355 µg/L	32.3	11355 ppb	32.3	0.28%
Mn 257.610†	3355544.3	4534.1 µg/L	0.82	4534.1 ppb	0.82	0.02%
Mo 202.031†	-49.6	1.5874 µg/L	0.21673	1.5874 ppb	0.21673	13.65%
Na 589.592 Radial†	2994.5	440.53 µg/L	2.683	440.53 ppb	2.683	0.61%

Ni 231.604†	4388.4	56.180 µg/L	0.3502	56.180 ppb	0.3502	0.62%
P 214.914†	5440.3	1267.2 µg/L	8.73	1267.2 ppb	8.73	0.69%
Pb 220.353†	1221.0	79.807 µg/L	1.1748	79.807 ppb	1.1748	1.47%
S 181.975 Axial†	1351.7	1129.8 µg/L	11.09	1129.8 ppb	11.09	0.98%
Sb 206.836†	15.6	-0.0748 µg/L	1.17635	-0.0748 ppb	1.17635	>999.9%
Se 196.026†	-55.3	3.14 µg/L	4.273	3.14 ppb	4.273	135.92%
SiO2†	585094.7	63076 µg/L	9.2	63076 ppb	9.2	0.01%
Si 251.611†	1800941.2	29300 µg/L	8.7	29300 ppb	8.7	0.03%
Sn 189.927†	81.8	12.719 µg/L	0.5728	12.719 ppb	0.5728	4.50%
Sr 421.552†	77046.6	173.08 µg/L	0.617	173.08 ppb	0.617	0.36%
Ti 334.940†	2067655.4	2091.7 µg/L	1.49	2091.7 ppb	1.49	0.07%
Tl 190.801†	-285.2	-5.3425 µg/L	0.59355	-5.3425 ppb	0.59355	11.11%
U 409.014†	-4643.2	-275.94 µg/L	9.425	-275.94 ppb	9.425	3.42%
Concentration less than lower limit for U 409.014.						
V 292.402†	19492.9	94.660 µg/L	0.6530	94.660 ppb	0.6530	0.69%
Zn 213.857†	49382.3	302.13 µg/L	0.485	302.13 ppb	0.485	0.16%

Sequence No.: 54

Sample ID: 248511016|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 344

Date Collected: 3/31/2010 16:34:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511016|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Sc RADIAL	152909.6	152909.6	103	%			16:35:16
1	Al 396.153Radial†	196474.7	190337.1	37959	µg/L	37959	ppb	16:35:14
1	Ca 317.933Radial†	311203.8	300778.0	18393	µg/L	18393	ppb	16:35:16
1	Fe 238.204 Radial†	996434.3	964859.7	65399	µg/L	65399	ppb	16:35:14
1	K 766.490 Radial†	20632.0	18431.3	7446.7	µg/L	7446.7	ppb	16:35:16
1	Mg 279.077 IEC†	20158.6	19339.9	7919.4	µg/L	7919.4	ppb	16:35:16
1	Na 589.592 Radial†	3950.8	2507.1	369.79	µg/L	369.79	ppb	16:35:16
1	Sr 421.552†	56802.7	55288.7	124.21	µg/L	124.21	ppb	16:35:16
1	Sc 361.383	1797185.6	1797185.6	102.66	%			16:35:42
1	Y 371.029	1199867.4	1199867.4	113.80	%			16:35:42
1	Ag 328.068†	3719.5	-121.9	-1.8008	µg/L	-1.8008	ppb	16:35:42
1	As 188.979†	9.9	26.8	24.032	µg/L	24.032	ppb	16:36:02
1	B 249.677†	5430.1	2006.4	32.780	µg/L	32.780	ppb	16:35:42
1	Ba 233.527†	98468.7	96069.2	423.01	µg/L	423.01	ppb	16:35:42
1	Be 313.107†	21646.9	21930.1	6.4545	µg/L	6.4545	ppb	16:35:42
1	Cd 226.502†	1048.1	1123.0	1.0063	µg/L	1.0063	ppb	16:36:02
1	Co 228.616†	1182.1	1318.6	15.072	µg/L	15.072	ppb	16:36:02
1	Cr 267.716†	5208.3	4911.6	43.756	µg/L	43.756	ppb	16:36:02
1	Cu 324.752†	8848.8	5779.0	34.100	µg/L	34.100	ppb	16:35:42
1	Mn 257.610†	2870810.5	2796136.8	3778.3	µg/L	3778.3	ppb	16:35:42
1	Mo 202.031†	-30.0	-9.8	2.4415	µg/L	2.4415	ppb	16:36:02
1	Ni 231.604†	2679.4	2692.2	34.465	µg/L	34.465	ppb	16:36:02
1	P 214.914†	4887.2	4774.0	1109.0	µg/L	1109.0	ppb	16:36:02
1	Pb 220.353†	1300.1	1191.6	76.767	µg/L	76.767	ppb	16:36:02
1	S 181.975 Axial†	1326.4	1187.8	992.86	µg/L	992.86	ppb	16:36:02
1	Sb 206.836†	72.7	-2.4	-1.8957	µg/L	-1.8957	ppb	16:36:02
1	Se 196.026†	-45.7	-57.1	-0.686	µg/L	-0.686	ppb	16:36:02
1	SiO2†	281327.6	272321.8	29357	µg/L	29357	ppb	16:35:42
1	Si 251.611†	865793.2	842450.5	13706	µg/L	13706	ppb	16:35:42
1	Sn 189.927†	17.3	17.1	7.6690	µg/L	7.6690	ppb	16:36:02
1	Ti 334.940†	1952174.2	1900783.2	1923.0	µg/L	1923.0	ppb	16:35:42
1	Tl 190.801†	-374.1	-251.2	-4.5342	µg/L	-4.5342	ppb	16:36:02
1	U 409.014†	-4233.3	-3907.8	-233.78	µg/L	-233.78	ppb	16:35:42
1	V 292.402†	15425.5	14710.5	70.109	µg/L	70.109	ppb	16:36:02
1	Zn 213.857†	53855.7	51928.8	318.85	µg/L	318.85	ppb	16:35:42
2	Sc RADIAL	151794.9	151794.9	103	%			16:35:20
2	Al 396.153Radial†	194727.6	190030.0	37898	µg/L	37898	ppb	16:35:18
2	Ca 317.933Radial†	309853.1	301673.5	18448	µg/L	18448	ppb	16:35:20
2	Fe 238.204 Radial†	985392.3	961173.8	65149	µg/L	65149	ppb	16:35:18
2	K 766.490 Radial†	20625.5	18571.7	7503.5	µg/L	7503.5	ppb	16:35:20
2	Mg 279.077 IEC†	20007.7	19336.0	7918.0	µg/L	7918.0	ppb	16:35:20
2	Na 589.592 Radial†	3908.1	2493.6	367.71	µg/L	367.71	ppb	16:35:20
2	Sr 421.552†	56727.6	55619.4	124.95	µg/L	124.95	ppb	16:35:20
2	Sc 361.383	1786509.2	1786509.2	102.05	%			16:36:05
2	Y 371.029	1193614.9	1193614.9	113.21	%			16:36:05
2	Ag 328.068†	3553.9	-262.5	-2.3597	µg/L	-2.3597	ppb	16:36:05
2	As 188.979†	10.3	27.2	24.122	µg/L	24.122	ppb	16:36:25
2	B 249.677†	5519.7	2125.9	34.737	µg/L	34.737	ppb	16:36:05
2	Ba 233.527†	98710.4	96879.3	426.59	µg/L	426.59	ppb	16:36:05
2	Be 313.107†	21725.3	22133.0	6.5158	µg/L	6.5158	ppb	16:36:05
2	Cd 226.502†	1034.1	1115.4	0.9798	µg/L	0.9798	ppb	16:36:25
2	Co 228.616†	1155.2	1299.1	14.822	µg/L	14.822	ppb	16:36:25
2	Cr 267.716†	5198.5	4932.4	43.917	µg/L	43.917	ppb	16:36:25
2	Cu 324.752†	8620.7	5607.0	33.335	µg/L	33.335	ppb	16:36:05
2	Mn 257.610†	2877013.8	2818926.8	3809.1	µg/L	3809.1	ppb	16:36:05
2	Mo 202.031†	-51.6	-31.2	1.7431	µg/L	1.7431	ppb	16:36:25
2	Ni 231.604†	2729.6	2756.9	35.294	µg/L	35.294	ppb	16:36:25
2	P 214.914†	4937.4	4851.7	1127.8	µg/L	1127.8	ppb	16:36:25
2	Pb 220.353†	1310.7	1209.5	77.895	µg/L	77.895	ppb	16:36:25

2	S 181.975 Axial†	1341.3	1210.1	1011.5 µg/L	1011.5 ppb	16:36:25
2	Sb 206.836†	68.3	-6.3	-2.4120 µg/L	-2.4120 ppb	16:36:25
2	Se 196.026†	-34.9	-46.8	3.40 µg/L	3.40 ppb	16:36:25
2	SiO2†	281898.6	274519.0	29594 µg/L	29594 ppb	16:36:05
2	Si 251.611†	866739.3	848417.6	13803 µg/L	13803 ppb	16:36:05
2	Sn 189.927†	10.3	10.4	7.2522 µg/L	7.2522 ppb	16:36:25
2	Ti 334.940†	1954612.7	1914536.5	1936.9 µg/L	1936.9 ppb	16:36:05
2	Tl 190.801†	-365.2	-244.7	-3.4220 µg/L	-3.4220 ppb	16:36:25
2	U 409.014†	-4160.9	-3861.6	-230.51 µg/L	-230.51 ppb	16:36:05
2	V 292.402†	15556.4	14928.5	71.286 µg/L	71.286 ppb	16:36:25
2	Zn 213.857†	54038.7	52421.6	321.96 µg/L	321.96 ppb	16:36:05
3	Sc RADIAL	152164.0	152164.0	103 %		16:35:24
3	Al 396.153Radial†	195531.4	190351.5	37962 µg/L	37962 ppb	16:35:22
3	Ca 317.933Radial†	311150.3	302202.8	18481 µg/L	18481 ppb	16:35:24
3	Fe 238.204 Radial†	991166.2	964461.3	65372 µg/L	65372 ppb	16:35:22
3	K 766.490 Radial†	20471.6	18373.0	7423.1 µg/L	7423.1 ppb	16:35:24
3	Mg 279.077 IEC†	20057.6	19337.2	7918.3 µg/L	7918.3 ppb	16:35:24
3	Na 589.592 Radial†	4005.1	2578.8	380.58 µg/L	380.58 ppb	16:35:24
3	Sr 421.552†	56728.6	55486.1	124.65 µg/L	124.65 ppb	16:35:24
3	Sc 361.383	1780382.1	1780382.1	101.70 %		16:36:28
3	Y 371.029	1190419.7	1190419.7	112.90 %		16:36:28
3	Ag 328.068†	3745.9	-61.6	-1.5352 µg/L	-1.5352 ppb	16:36:28
3	As 188.979†	4.0	21.0	22.113 µg/L	22.113 ppb	16:36:48
3	B 249.677†	5396.6	2023.4	33.059 µg/L	33.059 ppb	16:36:28
3	Ba 233.527†	98091.4	96603.5	425.37 µg/L	425.37 ppb	16:36:28
3	Be 313.107†	21760.6	22241.0	6.5508 µg/L	6.5508 ppb	16:36:28
3	Cd 226.502†	1018.0	1103.1	0.8697 µg/L	0.8697 ppb	16:36:48
3	Co 228.616†	1166.0	1313.6	15.007 µg/L	15.007 ppb	16:36:48
3	Cr 267.716†	5232.5	4983.4	44.359 µg/L	44.359 ppb	16:36:48
3	Cu 324.752†	8659.8	5674.5	33.662 µg/L	33.662 ppb	16:36:28
3	Mn 257.610†	2855970.9	2807938.1	3794.2 µg/L	3794.2 ppb	16:36:28
3	Mo 202.031†	-42.5	-22.4	2.0363 µg/L	2.0363 ppb	16:36:48
3	Ni 231.604†	2718.7	2755.4	35.275 µg/L	35.275 ppb	16:36:48
3	P 214.914†	4948.9	4879.7	1134.4 µg/L	1134.4 ppb	16:36:48
3	Pb 220.353†	1296.5	1200.0	77.290 µg/L	77.290 ppb	16:36:48
3	S 181.975 Axial†	1348.8	1222.0	1021.4 µg/L	1021.4 ppb	16:36:48
3	Sb 206.836†	86.0	11.4	-0.1076 µg/L	-0.1076 ppb	16:36:48
3	Se 196.026†	-38.7	-50.7	1.92 µg/L	1.92 ppb	16:36:48
3	SiO2†	279700.9	273308.7	29464 µg/L	29464 ppb	16:36:28
3	Si 251.611†	860048.9	844762.0	13744 µg/L	13744 ppb	16:36:28
3	Sn 189.927†	16.4	16.4	7.6541 µg/L	7.6541 ppb	16:36:48
3	Ti 334.940†	1942990.6	1909700.3	1932.0 µg/L	1932.0 ppb	16:36:28
3	Tl 190.801†	-362.9	-243.6	-3.3660 µg/L	-3.3660 ppb	16:36:48
3	U 409.014†	-3995.8	-3713.2	-221.21 µg/L	-221.21 ppb	16:36:28
3	V 292.402†	15497.9	14923.4	71.251 µg/L	71.251 ppb	16:36:48
3	Zn 213.857†	53693.5	52264.4	320.95 µg/L	320.95 ppb	16:36:28

Mean Data: 248511016|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1788025.6	102.14 %		0.486			0.48%
Sc RADIAL	152289.5	103 %		0.4			0.37%
Y 371.029	1194634.0	113.30 %		0.456			0.40%
Ag 328.068†	-148.7	-1.8986 µg/L		0.42081	-1.8986 ppb	0.42081	22.16%
Al 396.153Radial†	190239.5	37940 µg/L		36.2	37940 ppb	36.2	0.10%
As 188.979†	25.0	23.422 µg/L		1.1350	23.422 ppb	1.1350	4.85%
B 249.677†	2051.9	33.525 µg/L		1.0584	33.525 ppb	1.0584	3.16%
Ba 233.527†	96517.3	424.99 µg/L		1.819	424.99 ppb	1.819	0.43%
Be 313.107†	22101.4	6.5070 µg/L		0.04874	6.5070 ppb	0.04874	0.75%
Ca 317.933Radial†	301551.4	18441 µg/L		44.0	18441 ppb	44.0	0.24%
Cd 226.502†	1113.9	0.9519 µg/L		0.07244	0.9519 ppb	0.07244	7.61%
Co 228.616†	1310.4	14.967 µg/L		0.1297	14.967 ppb	0.1297	0.87%
Cr 267.716†	4942.5	44.011 µg/L		0.3125	44.011 ppb	0.3125	0.71%
Cu 324.752†	5686.8	33.699 µg/L		0.3837	33.699 ppb	0.3837	1.14%
Fe 238.204 Radial†	963498.3	65306 µg/L		137.1	65306 ppb	137.1	0.21%
K 766.490 Radial†	18458.7	7457.7 µg/L		41.34	7457.7 ppb	41.34	0.55%
Mg 279.077 IEC†	19337.7	7918.6 µg/L		0.73	7918.6 ppb	0.73	0.01%
Mn 257.610†	2807667.2	3793.9 µg/L		15.40	3793.9 ppb	15.40	0.41%
Mo 202.031†	-21.1	2.0736 µg/L		0.35072	2.0736 ppb	0.35072	16.91%
Na 589.592 Radial†	2526.5	372.69 µg/L		6.904	372.69 ppb	6.904	1.85%

Ni 231.604†	2734.9	35.012 µg/L	0.4730	35.012 ppb	0.4730	1.35%
P 214.914†	4835.1	1123.8 µg/L	13.17	1123.8 ppb	13.17	1.17%
Pb 220.353†	1200.4	77.317 µg/L	0.5648	77.317 ppb	0.5648	0.73%
S 181.975 Axial†	1206.7	1008.6 µg/L	14.50	1008.6 ppb	14.50	1.44%
Sb 206.836†	0.9	-1.4718 µg/L	1.20926	-1.4718 ppb	1.20926	82.16%
Se 196.026†	-51.5	1.55 µg/L	2.071	1.55 ppb	2.071	133.93%
SiO2†	273383.2	29472 µg/L	118.7	29472 ppb	118.7	0.40%
Si 251.611†	845210.0	13751 µg/L	49.0	13751 ppb	49.0	0.36%
Sn 189.927†	14.6	7.5251 µg/L	0.23648	7.5251 ppb	0.23648	3.14%
Sr 421.552†	55464.7	124.60 µg/L	0.374	124.60 ppb	0.374	0.30%
Ti 334.940†	1908340.0	1930.6 µg/L	7.06	1930.6 ppb	7.06	0.37%
Tl 190.801†	-246.5	-3.7741 µg/L	0.65886	-3.7741 ppb	0.65886	17.46%
U 409.014†	-3827.6	-228.50 µg/L	6.517	-228.50 ppb	6.517	2.85%
Concentration less than lower limit for U 409.014.						
V 292.402†	14854.1	70.882 µg/L	0.6695	70.882 ppb	0.6695	0.94%
Zn 213.857†	52204.9	320.59 µg/L	1.585	320.59 ppb	1.585	0.49%

Sequence No.: 55
 Sample ID: 248511017|961532|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 345
 Date Collected: 3/31/2010 16:36:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511017|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151236.6	151236.6	102 %			16:37:28
1	Al 396.153Radial†	231584.8	226820.4	45235 µg/L		45235 ppb	16:37:26
1	Ca 317.933Radial†	205770.0	200875.1	12284 µg/L		12284 ppb	16:37:28
1	Fe 238.204 Radial†	1312623.4	1285135.0	87107 µg/L		87107 ppb	16:37:26
1	K 766.490 Radial†	19002.5	17056.8	6889.9 µg/L		6889.9 ppb	16:37:28
1	Mg 279.077 IEC†	19257.1	18673.1	7625.9 µg/L		7625.9 ppb	16:37:28
1	Na 589.592 Radial†	5861.6	4420.5	657.57 µg/L		657.57 ppb	16:37:28
1	Sr 421.552†	43256.5	42633.2	95.791 µg/L		95.791 ppb	16:37:28
1	Sc 361.383	1787644.5	1787644.5	102.12 %			16:37:41
1	Y 371.029	1294457.0	1294457.0	122.77 %			16:37:41
1	Ag 328.068†	3550.4	-268.1	-1.8505 µg/L		-1.8505 ppb	16:37:41
1	As 188.979†	18.8	35.5	32.522 µg/L		32.522 ppb	16:38:01
1	B 249.677†	4929.9	1544.9	25.216 µg/L		25.216 ppb	16:37:41
1	Ba 233.527†	66506.4	65281.7	286.93 µg/L		286.93 ppb	16:37:41
1	Be 313.107†	35746.9	35850.3	10.564 µg/L		10.564 ppb	16:37:41
1	Cd 226.502†	1252.1	1328.2	0.1759 µg/L		0.1759 ppb	16:38:01
1	Co 228.616†	1363.6	1502.5	16.337 µg/L		16.337 ppb	16:38:01
1	Cr 267.716†	13446.2	13005.8	114.69 µg/L		114.69 ppb	16:38:01
1	Cu 324.752†	7376.0	4382.7	31.225 µg/L		31.225 ppb	16:37:41
1	Mn 257.610†	1724799.5	1688815.8	2281.8 µg/L		2281.8 ppb	16:37:41
1	Mo 202.031†	105.1	122.3	7.5578 µg/L		7.5578 ppb	16:38:01
1	Ni 231.604†	5131.4	5107.3	65.383 µg/L		65.383 ppb	16:38:01
1	P 214.914†	4223.6	4149.6	946.13 µg/L		946.13 ppb	16:38:01
1	Pb 220.353†	990.1	894.8	59.911 µg/L		59.911 ppb	16:38:01
1	S 181.975 Axial†	1031.3	905.7	757.10 µg/L		757.10 ppb	16:38:01
1	Sb 206.836†	96.9	21.6	-0.0219 µg/L		-0.0219 ppb	16:38:01
1	Se 196.026†	-52.1	-63.6	4.09 µg/L		4.09 ppb	16:38:01
1	SiO2†	451389.2	440319.4	47468 µg/L		47468 ppb	16:37:41
1	Si 251.611†	1388949.5	1359259.2	22114 µg/L		22114 ppb	16:37:41
1	Sn 189.927†	52.3	51.5	14.305 µg/L		14.305 ppb	16:38:01
1	Ti 334.940†	3214538.0	3147118.1	3183.8 µg/L		3183.8 ppb	16:37:41
1	Tl 190.801†	-415.7	-293.9	-1.3898 µg/L		-1.3898 ppb	16:38:01
1	U 409.014†	-6097.8	-5755.7	-365.18 µg/L		-365.18 ppb	16:37:41
1	V 292.402†	19223.6	18509.9	87.262 µg/L		87.262 ppb	16:37:41
1	Zn 213.857†	74902.4	72819.1	447.99 µg/L		447.99 ppb	16:37:41
2	Sc RADIAL	150606.1	150606.1	102 %			16:37:32
2	Al 396.153Radial†	231020.6	227215.1	45314 µg/L		45314 ppb	16:37:30
2	Ca 317.933Radial†	207522.5	203441.8	12441 µg/L		12441 ppb	16:37:32
2	Fe 238.204 Radial†	1305884.5	1283889.9	87023 µg/L		87023 ppb	16:37:30
2	K 766.490 Radial†	19273.9	17401.5	7029.4 µg/L		7029.4 ppb	16:37:32
2	Mg 279.077 IEC†	19478.1	18969.3	7748.1 µg/L		7748.1 ppb	16:37:32
2	Na 589.592 Radial†	5912.8	4494.8	668.61 µg/L		668.61 ppb	16:37:32
2	Sr 421.552†	43635.7	43183.5	97.028 µg/L		97.028 ppb	16:37:32
2	Sc 361.383	1764443.8	1764443.8	100.79 %			16:38:04
2	Y 371.029	1278265.4	1278265.4	121.23 %			16:38:04
2	Ag 328.068†	3522.2	-250.3	-1.7729 µg/L		-1.7729 ppb	16:38:04
2	As 188.979†	23.8	40.7	34.243 µg/L		34.243 ppb	16:38:24
2	B 249.677†	4928.5	1606.9	26.228 µg/L		26.228 ppb	16:38:04
2	Ba 233.527†	65573.8	65212.8	286.63 µg/L		286.63 ppb	16:38:04
2	Be 313.107†	35213.3	35781.2	10.543 µg/L		10.543 ppb	16:38:04
2	Cd 226.502†	1234.7	1327.1	0.1773 µg/L		0.1773 ppb	16:38:24
2	Co 228.616†	1407.4	1563.5	17.177 µg/L		17.177 ppb	16:38:24
2	Cr 267.716†	13476.5	13209.0	116.44 µg/L		116.44 ppb	16:38:24
2	Cu 324.752†	7379.8	4481.5	31.636 µg/L		31.636 ppb	16:38:04
2	Mn 257.610†	1702848.8	1689246.8	2282.4 µg/L		2282.4 ppb	16:38:04
2	Mo 202.031†	114.2	132.7	7.8926 µg/L		7.8926 ppb	16:38:24
2	Ni 231.604†	5148.3	5190.1	66.444 µg/L		66.444 ppb	16:38:24
2	P 214.914†	4217.5	4198.0	957.80 µg/L		957.80 ppb	16:38:24
2	Pb 220.353†	982.3	899.7	60.227 µg/L		60.227 ppb	16:38:24

2	S 181.975 Axial†	1035.6	923.3	771.74 µg/L	771.74 ppb	16:38:24
2	Sb 206.836†	68.5	-5.2	-3.5570 µg/L	-3.5570 ppb	16:38:24
2	Se 196.026†	-53.1	-65.2	3.41 µg/L	3.41 ppb	16:38:24
2	SiO2†	445473.0	440262.0	47462 µg/L	47462 ppb	16:38:04
2	Si 251.611†	1370214.0	1358555.6	22103 µg/L	22103 ppb	16:38:04
2	Sn 189.927†	58.8	58.6	14.800 µg/L	14.800 ppb	16:38:24
2	Ti 334.940†	3173255.0	3147551.1	3184.2 µg/L	3184.2 ppb	16:38:04
2	Tl 190.801†	-430.4	-313.8	-4.0908 µg/L	-4.0908 ppb	16:38:24
2	U 409.014†	-6021.9	-5758.9	-365.31 µg/L	-365.31 ppb	16:38:04
2	V 292.402†	19123.5	18658.1	88.075 µg/L	88.075 ppb	16:38:04
2	Zn 213.857†	73895.0	72784.0	447.77 µg/L	447.77 ppb	16:38:04
3	Sc RADIAL	150104.6	150104.6	101 %		16:37:36
3	Al 396.153Radial†	233089.5	230015.0	45872 µg/L	45872 ppb	16:37:34
3	Ca 317.933Radial†	205997.2	202618.7	12391 µg/L	12391 ppb	16:37:36
3	Fe 238.204 Radial†	1319069.2	1301186.9	88195 µg/L	88195 ppb	16:37:34
3	K 766.490 Radial†	19192.0	17384.0	7022.2 µg/L	7022.2 ppb	16:37:36
3	Mg 279.077 IEC†	19247.2	18805.6	7679.6 µg/L	7679.6 ppb	16:37:36
3	Na 589.592 Radial†	6001.6	4601.8	684.68 µg/L	684.68 ppb	16:37:36
3	Sr 421.552†	43236.9	42933.3	96.465 µg/L	96.465 ppb	16:37:36
3	Sc 361.383	1738593.9	1738593.9	99.316 %		16:38:27
3	Y 371.029	1259727.3	1259727.3	119.48 %		16:38:27
3	Ag 328.068†	3455.0	-266.0	-1.8583 µg/L	-1.8583 ppb	16:38:27
3	As 188.979†	30.6	47.9	36.935 µg/L	36.935 ppb	16:38:47
3	B 249.677†	4805.9	1556.2	25.397 µg/L	25.397 ppb	16:38:27
3	Ba 233.527†	64213.8	64810.7	284.84 µg/L	284.84 ppb	16:38:27
3	Be 313.107†	34530.6	35613.2	10.493 µg/L	10.493 ppb	16:38:27
3	Cd 226.502†	1265.1	1375.9	0.3962 µg/L	0.3962 ppb	16:38:47
3	Co 228.616†	1406.6	1583.5	17.389 µg/L	17.389 ppb	16:38:47
3	Cr 267.716†	13516.9	13448.5	118.54 µg/L	118.54 ppb	16:38:47
3	Cu 324.752†	7378.2	4588.7	32.260 µg/L	32.260 ppb	16:38:27
3	Mn 257.610†	1665672.8	1676934.0	2265.7 µg/L	2265.7 ppb	16:38:27
3	Mo 202.031†	94.4	114.4	7.3481 µg/L	7.3481 ppb	16:38:47
3	Ni 231.604†	5098.0	5215.4	66.768 µg/L	66.768 ppb	16:38:47
3	P 214.914†	4230.9	4273.6	975.28 µg/L	975.28 ppb	16:38:47
3	Pb 220.353†	993.5	925.5	61.800 µg/L	61.800 ppb	16:38:47
3	S 181.975 Axial†	1032.9	935.8	782.24 µg/L	782.24 ppb	16:38:47
3	Sb 206.836†	86.9	14.3	-1.0576 µg/L	-1.0576 ppb	16:38:47
3	Se 196.026†	-56.0	-69.0	2.30 µg/L	2.30 ppb	16:38:47
3	SiO2†	435618.1	436910.5	47101 µg/L	47101 ppb	16:38:27
3	Si 251.611†	1340618.2	1348968.4	21947 µg/L	21947 ppb	16:38:27
3	Sn 189.927†	61.9	62.6	15.020 µg/L	15.020 ppb	16:38:47
3	Ti 334.940†	3111038.8	3131716.1	3168.2 µg/L	3168.2 ppb	16:38:27
3	Tl 190.801†	-442.3	-332.1	-6.7900 µg/L	-6.7900 ppb	16:38:47
3	U 409.014†	-5959.7	-5785.2	-367.45 µg/L	-367.45 ppb	16:38:27
3	V 292.402†	18555.8	18368.7	86.418 µg/L	86.418 ppb	16:38:27
3	Zn 213.857†	72361.2	72329.7	444.81 µg/L	444.81 ppb	16:38:27

Mean Data: 248511017|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1763560.7	100.74 %	%	1.402			1.39%
Sc RADIAL	150649.1	102 %	%	0.4			0.38%
Y 371.029	1277483.2	121.16 %	%	1.648			1.36%
Ag 328.068†	-261.5	-1.8272 µg/L	µg/L	0.04725	-1.8272 ppb	0.04725	2.59%
Al 396.153Radial†	228016.8	45473 µg/L	µg/L	347.4	45473 ppb	347.4	0.76%
As 188.979†	41.4	34.566 µg/L	µg/L	2.2242	34.566 ppb	2.2242	6.43%
B 249.677†	1569.3	25.614 µg/L	µg/L	0.5398	25.614 ppb	0.5398	2.11%
Ba 233.527†	65101.7	286.13 µg/L	µg/L	1.131	286.13 ppb	1.131	0.40%
Be 313.107†	35748.2	10.533 µg/L	µg/L	0.0366	10.533 ppb	0.0366	0.35%
Ca 317.933Radial†	202311.9	12372 µg/L	µg/L	80.1	12372 ppb	80.1	0.65%
Cd 226.502†	1343.8	0.2498 µg/L	µg/L	0.12682	0.2498 ppb	0.12682	50.77%
Co 228.616†	1549.8	16.968 µg/L	µg/L	0.5563	16.968 ppb	0.5563	3.28%
Cr 267.716†	13221.1	116.56 µg/L	µg/L	1.930	116.56 ppb	1.930	1.66%
Cu 324.752†	4484.3	31.707 µg/L	µg/L	0.5209	31.707 ppb	0.5209	1.64%
Fe 238.204 Radial†	1290070.6	87442 µg/L	µg/L	653.9	87442 ppb	653.9	0.75%
K 766.490 Radial†	17280.8	6980.5 µg/L	µg/L	78.53	6980.5 ppb	78.53	1.12%
Mg 279.077 IEC†	18816.0	7684.6 µg/L	µg/L	61.26	7684.6 ppb	61.26	0.80%
Mn 257.610†	1684998.9	2276.6 µg/L	µg/L	9.44	2276.6 ppb	9.44	0.41%
Mo 202.031†	123.1	7.5995 µg/L	µg/L	0.27465	7.5995 ppb	0.27465	3.61%
Na 589.592 Radial†	4505.7	670.29 µg/L	µg/L	13.633	670.29 ppb	13.633	2.03%

Ni 231.604†	5171.0	66.198 µg/L	0.7244	66.198 ppb	0.7244	1.09%
P 214.914†	4207.1	959.74 µg/L	14.670	959.74 ppb	14.670	1.53%
Pb 220.353†	906.7	60.646 µg/L	1.0118	60.646 ppb	1.0118	1.67%
S 181.975 Axial†	921.6	770.36 µg/L	12.624	770.36 ppb	12.624	1.64%
Sb 206.836†	10.2	-1.5455 µg/L	1.81736	-1.5455 ppb	1.81736	117.59%
Se 196.026†	-65.9	3.27 µg/L	0.904	3.27 ppb	0.904	27.67%
SiO2†	439164.0	47344 µg/L	210.4	47344 ppb	210.4	0.44%
Si 251.611†	1355594.4	22055 µg/L	93.5	22055 ppb	93.5	0.42%
Sn 189.927†	57.6	14.708 µg/L	0.3659	14.708 ppb	0.3659	2.49%
Sr 421.552†	42916.7	96.428 µg/L	0.6190	96.428 ppb	0.6190	0.64%
Ti 334.940†	3142128.4	3178.7 µg/L	9.12	3178.7 ppb	9.12	0.29%
Tl 190.801†	-313.3	-4.0902 µg/L	2.70009	-4.0902 ppb	2.70009	66.01%
U 409.014†	-5766.6	-365.98 µg/L	1.275	-365.98 ppb	1.275	0.35%
Concentration less than lower limit for U 409.014.						
V 292.402†	18512.3	87.252 µg/L	0.8287	87.252 ppb	0.8287	0.95%
Zn 213.857†	72644.3	446.86 µg/L	1.778	446.86 ppb	1.778	0.40%

Sequence No.: 56

Sample ID: 248511018|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 346

Date Collected: 3/31/2010 16:38:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511018|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	150379.6	150379.6	102 %			16:39:27
1	Al 396.153Radial†	387740.4	381885.9	76160 µg/L		76160 ppb	16:39:25
1	Ca 317.933Radial†	276853.7	272022.5	16635 µg/L		16635 ppb	16:39:27
1	Fe 238.204 Radial†	1435644.4	1413603.7	95815 µg/L		95815 ppb	16:39:25
1	K 766.490 Radial†	25877.8	23933.2	9664.8 µg/L		9664.8 ppb	16:39:27
1	Mg 279.077 IEC†	32192.1	31518.2	12915 µg/L		12915 ppb	16:39:27
1	Na 589.592 Radial†	4771.4	3379.6	498.82 µg/L		498.82 ppb	16:39:27
1	Sr 421.552†	50678.6	50183.5	112.74 µg/L		112.74 ppb	16:39:27
1	Sc 361.383	1767086.5	1767086.5	100.94 %			16:39:40
1	Y 371.029	1278288.7	1278288.7	121.24 %			16:39:40
1	Ag 328.068†	3408.3	-368.4	-2.0657 µg/L		-2.0657 ppb	16:39:40
1	As 188.979†	33.3	50.1	39.612 µg/L		39.612 ppb	16:40:00
1	B 249.677†	5226.2	1894.6	30.939 µg/L		30.939 ppb	16:39:40
1	Ba 233.527†	62544.2	62114.2	272.86 µg/L		272.86 ppb	16:39:40
1	Be 313.107†	39063.1	39542.7	11.653 µg/L		11.653 ppb	16:39:40
1	Cd 226.502†	1339.3	1428.9	-0.0224 µg/L		-0.0224 ppb	16:40:00
1	Co 228.616†	1388.2	1542.4	16.421 µg/L		16.421 ppb	16:40:00
1	Cr 267.716†	16569.3	16252.9	143.06 µg/L		143.06 ppb	16:40:00
1	Cu 324.752†	9804.1	6872.2	43.187 µg/L		43.187 ppb	16:39:40
1	Mn 257.610†	1294901.2	1282584.7	1732.6 µg/L		1732.6 ppb	16:39:40
1	Mo 202.031†	-48.9	-29.0	3.1308 µg/L		3.1308 ppb	16:40:00
1	Ni 231.604†	7086.1	7102.2	90.922 µg/L		90.922 ppb	16:40:00
1	P 214.914†	3456.8	3438.1	776.33 µg/L		776.33 ppb	16:40:00
1	Pb 220.353†	1141.0	1055.5	70.291 µg/L		70.291 ppb	16:40:00
1	S 181.975 Axial†	744.3	633.2	529.26 µg/L		529.26 ppb	16:40:00
1	Sb 206.836†	90.7	16.6	-1.4446 µg/L		-1.4446 ppb	16:40:00
1	Se 196.026†	-80.0	-91.9	-4.37 µg/L		-4.37 ppb	16:40:00
1	SiO2†	613002.5	605564.9	65282 µg/L		65282 ppb	16:39:40
1	Si 251.611†	1881736.5	1863264.9	30314 µg/L		30314 ppb	16:39:40
1	Sn 189.927†	113.9	113.1	15.478 µg/L		15.478 ppb	16:40:00
1	Ti 334.940†	2262591.4	2240688.9	2266.4 µg/L		2266.4 ppb	16:39:40
1	Tl 190.801†	-352.5	-236.0	-4.0166 µg/L		-4.0166 ppb	16:40:00
1	U 409.014†	-6567.0	-6290.0	-403.40 µg/L		-403.40 ppb	16:39:40
1	V 292.402†	22836.0	22307.6	107.58 µg/L		107.58 ppb	16:39:40
1	Zn 213.857†	65732.2	64587.9	395.41 µg/L		395.41 ppb	16:39:40
2	Sc RADIAL	150015.1	150015.1	101 %			16:39:31
2	Al 396.153Radial†	395092.7	390071.3	77792 µg/L		77792 ppb	16:39:29
2	Ca 317.933Radial†	276068.8	271910.0	16628 µg/L		16628 ppb	16:39:31
2	Fe 238.204 Radial†	1465347.3	1446359.4	98035 µg/L		98035 ppb	16:39:29
2	K 766.490 Radial†	25788.0	23906.5	9653.6 µg/L		9653.6 ppb	16:39:31
2	Mg 279.077 IEC†	31970.1	31376.0	12855 µg/L		12855 ppb	16:39:31
2	Na 589.592 Radial†	4903.0	3520.9	520.04 µg/L		520.04 ppb	16:39:31
2	Sr 421.552†	50599.0	50226.1	112.83 µg/L		112.83 ppb	16:39:31
2	Sc 361.383	1798525.6	1798525.6	102.74 %			16:40:03
2	Y 371.029	1299690.6	1299690.6	123.27 %			16:40:03
2	Ag 328.068†	3650.3	-191.9	-1.3623 µg/L		-1.3623 ppb	16:40:03
2	As 188.979†	28.4	44.8	38.312 µg/L		38.312 ppb	16:40:23
2	B 249.677†	5408.1	1981.1	32.355 µg/L		32.355 ppb	16:40:03
2	Ba 233.527†	64041.7	62488.7	274.48 µg/L		274.48 ppb	16:40:03
2	Be 313.107†	40221.4	39993.7	11.786 µg/L		11.786 ppb	16:40:03
2	Cd 226.502†	1329.4	1396.1	-0.4865 µg/L		-0.4865 ppb	16:40:23
2	Co 228.616†	1404.4	1534.1	16.193 µg/L		16.193 ppb	16:40:23
2	Cr 267.716†	16635.5	16030.4	141.22 µg/L		141.22 ppb	16:40:23
2	Cu 324.752†	10117.0	7007.0	44.078 µg/L		44.078 ppb	16:40:03
2	Mn 257.610†	1327056.8	1291459.0	1744.5 µg/L		1744.5 ppb	16:40:03
2	Mo 202.031†	-17.4	2.4	4.2312 µg/L		4.2312 ppb	16:40:23
2	Ni 231.604†	7074.8	6968.4	89.210 µg/L		89.210 ppb	16:40:23
2	P 214.914†	3442.5	3364.3	757.45 µg/L		757.45 ppb	16:40:23
2	Pb 220.353†	1175.0	1068.9	71.170 µg/L		71.170 ppb	16:40:23

2	S 181.975 Axial†	741.8	617.9	516.44 µg/L	516.44 ppb	16:40:23
2	Sb 206.836†	98.9	23.1	-0.5959 µg/L	-0.5959 ppb	16:40:23
2	Se 196.026†	-77.0	-87.5	-1.83 µg/L	-1.83 ppb	16:40:23
2	SiO2†	628870.6	610394.5	65803 µg/L	65803 ppb	16:40:03
2	Si 251.611†	1930494.7	1878136.9	30556 µg/L	30556 ppb	16:40:03
2	Sn 189.927†	108.1	105.5	14.990 µg/L	14.990 ppb	16:40:23
2	Ti 334.940†	2314175.7	2251716.3	2277.6 µg/L	2277.6 ppb	16:40:03
2	Tl 190.801†	-358.6	-235.8	-3.8342 µg/L	-3.8342 ppb	16:40:23
2	U 409.014†	-6736.8	-6341.6	-407.05 µg/L	-407.05 ppb	16:40:03
2	V 292.402†	23433.2	22493.5	108.33 µg/L	108.33 ppb	16:40:03
2	Zn 213.857†	67607.7	65275.1	399.52 µg/L	399.52 ppb	16:40:03
3	Sc RADIAL	153023.1	153023.1	103 %		16:39:35
3	Al 396.153Radial†	388104.8	375642.5	74915 µg/L	74915 ppb	16:39:33
3	Ca 317.933Radial†	280475.5	270817.8	16561 µg/L	16561 ppb	16:39:35
3	Fe 238.204 Radial†	1440254.8	1393643.1	94462 µg/L	94462 ppb	16:39:33
3	K 766.490 Radial†	26104.2	23712.1	9575.6 µg/L	9575.6 ppb	16:39:35
3	Mg 279.077 IEC†	32779.8	31539.2	12925 µg/L	12925 ppb	16:39:35
3	Na 589.592 Radial†	4939.6	3461.2	511.14 µg/L	511.14 ppb	16:39:35
3	Sr 421.552†	51320.2	49942.3	112.20 µg/L	112.20 ppb	16:39:35
3	Sc 361.383	1784431.1	1784431.1	101.93 %		16:40:26
3	Y 371.029	1291050.1	1291050.1	122.45 %		16:40:26
3	Ag 328.068†	3464.7	-345.9	-1.9301 µg/L	-1.9301 ppb	16:40:26
3	As 188.979†	43.1	59.4	42.415 µg/L	42.415 ppb	16:40:46
3	B 249.677†	5292.5	1909.2	31.178 µg/L	31.178 ppb	16:40:26
3	Ba 233.527†	63500.1	62449.7	274.36 µg/L	274.36 ppb	16:40:26
3	Be 313.107†	39986.2	40072.2	11.818 µg/L	11.818 ppb	16:40:26
3	Cd 226.502†	1375.1	1451.1	0.2755 µg/L	0.2755 ppb	16:40:46
3	Co 228.616†	1411.5	1551.9	16.624 µg/L	16.624 ppb	16:40:46
3	Cr 267.716†	16734.2	16255.2	143.01 µg/L	143.01 ppb	16:40:46
3	Cu 324.752†	10063.2	7031.9	43.688 µg/L	43.688 ppb	16:40:26
3	Mn 257.610†	1317312.8	1292102.2	1745.4 µg/L	1745.4 ppb	16:40:26
3	Mo 202.031†	-31.4	-11.5	3.6439 µg/L	3.6439 ppb	16:40:46
3	Ni 231.604†	7151.3	7097.9	90.867 µg/L	90.867 ppb	16:40:46
3	P 214.914†	3489.2	3436.6	776.57 µg/L	776.57 ppb	16:40:46
3	Pb 220.353†	1174.7	1077.6	71.630 µg/L	71.630 ppb	16:40:46
3	S 181.975 Axial†	747.3	628.9	525.69 µg/L	525.69 ppb	16:40:46
3	Sb 206.836†	112.8	37.5	1.3210 µg/L	1.3210 ppb	16:40:46
3	Se 196.026†	-62.5	-73.9	2.46 µg/L	2.46 ppb	16:40:46
3	SiO2†	624263.2	610709.3	65837 µg/L	65837 ppb	16:40:26
3	Si 251.611†	1917056.5	1879795.3	30583 µg/L	30583 ppb	16:40:26
3	Sn 189.927†	95.9	94.3	14.224 µg/L	14.224 ppb	16:40:46
3	Ti 334.940†	2299059.3	2254678.1	2280.6 µg/L	2280.6 ppb	16:40:26
3	Tl 190.801†	-351.6	-231.8	-3.2574 µg/L	-3.2574 ppb	16:40:46
3	U 409.014†	-6254.3	-5920.1	-379.42 µg/L	-379.42 ppb	16:40:26
3	V 292.402†	23203.2	22448.0	108.48 µg/L	108.48 ppb	16:40:26
3	Zn 213.857†	66941.9	65141.6	399.01 µg/L	399.01 ppb	16:40:26

Mean Data: 248511018|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1783347.7	101.87 %	0.900			0.88%
Sc RADIAL	151139.3	102 %	1.1			1.09%
Y 371.029	1289676.4	122.32 %	1.021			0.83%
Ag 328.068†	-302.1	-1.7861 µg/L	0.37318	-1.7861 ppb	0.37318	20.89%
Al 396.153Radial†	382533.2	76289 µg/L	1443.1	76289 ppb	1443.1	1.89%
As 188.979†	51.4	40.113 µg/L	2.0967	40.113 ppb	2.0967	5.23%
B 249.677†	1928.3	31.491 µg/L	0.7581	31.491 ppb	0.7581	2.41%
Ba 233.527†	62350.9	273.90 µg/L	0.904	273.90 ppb	0.904	0.33%
Be 313.107†	39869.5	11.752 µg/L	0.0875	11.752 ppb	0.0875	0.74%
Ca 317.933Radial†	271583.4	16608 µg/L	40.7	16608 ppb	40.7	0.25%
Cd 226.502†	1425.4	-0.0778 µg/L	0.38404	-0.0778 ppb	0.38404	493.49%
Co 228.616†	1542.8	16.412 µg/L	0.2156	16.412 ppb	0.2156	1.31%
Cr 267.716†	16179.5	142.43 µg/L	1.048	142.43 ppb	1.048	0.74%
Cu 324.752†	6970.4	43.651 µg/L	0.4470	43.651 ppb	0.4470	1.02%
Fe 238.204 Radial†	1417868.8	96104 µg/L	1804.0	96104 ppb	1804.0	1.88%
K 766.490 Radial†	23850.6	9631.3 µg/L	48.60	9631.3 ppb	48.60	0.50%
Mg 279.077 IEC†	31477.8	12899 µg/L	38.1	12899 ppb	38.1	0.30%
Mn 257.610†	1288715.3	1740.8 µg/L	7.19	1740.8 ppb	7.19	0.41%
Mo 202.031†	-12.7	3.6686 µg/L	0.55064	3.6686 ppb	0.55064	15.01%
Na 589.592 Radial†	3453.9	510.00 µg/L	10.657	510.00 ppb	10.657	2.09%

Ni 231.604†	7056.2	90.333 µg/L	0.9733	90.333 ppb	0.9733	1.08%
P 214.914†	3413.0	770.12 µg/L	10.972	770.12 ppb	10.972	1.42%
Pb 220.353†	1067.3	71.031 µg/L	0.6804	71.031 ppb	0.6804	0.96%
S 181.975 Axial†	626.7	523.80 µg/L	6.613	523.80 ppb	6.613	1.26%
Sb 206.836†	25.7	-0.2398 µg/L	1.41675	-0.2398 ppb	1.41675	590.69%
Se 196.026†	-84.4	-1.25 µg/L	3.454	-1.25 ppb	3.454	277.28%
SiO2†	608889.5	65641 µg/L	310.9	65641 ppb	310.9	0.47%
Si 251.611†	1873732.4	30484 µg/L	148.1	30484 ppb	148.1	0.49%
Sn 189.927†	104.3	14.897 µg/L	0.6318	14.897 ppb	0.6318	4.24%
Sr 421.552†	50117.3	112.59 µg/L	0.344	112.59 ppb	0.344	0.31%
Ti 334.940†	2249027.8	2274.9 µg/L	7.45	2274.9 ppb	7.45	0.33%
Tl 190.801†	-234.5	-3.7027 µg/L	0.39631	-3.7027 ppb	0.39631	10.70%
U 409.014†	-6183.9	-396.62 µg/L	15.006	-396.62 ppb	15.006	3.78%
Concentration less than lower limit for U 409.014.						
V 292.402†	22416.4	108.13 µg/L	0.484	108.13 ppb	0.484	0.45%
Zn 213.857†	65001.5	397.98 µg/L	2.237	397.98 ppb	2.237	0.56%

Sequence No.: 57

Sample ID: 248511019|961532|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 347

Date Collected: 3/31/2010 16:40:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 248511019|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	151808.5	151808.5	103 %		16:41:26
1	Al 396.153Radial†	227731.3	222207.3	44315 µg/L	44315 ppb	16:41:24
1	Ca 317.933Radial†	163173.0	158563.9	9696.6 µg/L	9696.6 ppb	16:41:26
1	Fe 238.204 Radial†	1410004.5	1375286.2	93218 µg/L	93218 ppb	16:41:24
1	K 766.490 Radial†	15013.2	13095.2	5287.4 µg/L	5287.4 ppb	16:41:26
1	Mg 279.077 IEC†	19126.8	18475.0	7538.9 µg/L	7538.9 ppb	16:41:26
1	Na 589.592 Radial†	5594.0	4137.8	616.55 µg/L	616.55 ppb	16:41:26
1	Sr 421.552†	28960.3	28528.1	64.087 µg/L	64.087 ppb	16:41:26
1	Sc 361.383	1799596.6	1799596.6	102.80 %		16:41:39
1	Y 371.029	1350294.1	1350294.1	128.07 %		16:41:39
1	Ag 328.068†	3611.5	-231.8	-1.6437 µg/L	-1.6437 ppb	16:41:41
1	As 188.979†	25.4	41.8	36.060 µg/L	36.060 ppb	16:42:01
1	B 249.677†	5006.9	1587.7	25.922 µg/L	25.922 ppb	16:41:41
1	Ba 233.527†	36577.5	35735.6	156.51 µg/L	156.51 ppb	16:41:41
1	Be 313.107†	30311.5	30330.4	8.9121 µg/L	8.9121 ppb	16:41:41
1	Cd 226.502†	1316.3	1382.6	-0.0839 µg/L	-0.0839 ppb	16:42:01
1	Co 228.616†	1257.8	1390.7	14.361 µg/L	14.361 ppb	16:42:01
1	Cr 267.716†	14363.7	13810.9	122.00 µg/L	122.00 ppb	16:42:01
1	Cu 324.752†	6392.4	3378.0	27.821 µg/L	27.821 ppb	16:41:41
1	Mn 257.610†	1269653.0	1234850.2	1668.3 µg/L	1668.3 ppb	16:41:39
1	Mo 202.031†	84.7	101.8	7.1353 µg/L	7.1353 ppb	16:42:01
1	Ni 231.604†	5557.9	5488.8	70.267 µg/L	70.267 ppb	16:42:01
1	P 214.914†	2427.2	2374.7	515.99 µg/L	515.99 ppb	16:42:01
1	Pb 220.353†	717.6	623.3	43.444 µg/L	43.444 ppb	16:42:01
1	S 181.975 Axial†	660.3	538.1	449.79 µg/L	449.79 ppb	16:42:01
1	Sb 206.836†	100.3	24.4	0.1427 µg/L	0.1427 ppb	16:42:01
1	Se 196.026†	-60.1	-71.1	3.16 µg/L	3.16 ppb	16:42:01
1	SiO2†	447814.0	433905.9	46777 µg/L	46777 ppb	16:41:41
1	Si 251.611†	1379588.2	1341119.4	21819 µg/L	21819 ppb	16:41:39
1	Sn 189.927†	54.6	53.4	15.907 µg/L	15.907 ppb	16:42:01
1	Ti 334.940†	3680235.4	3579222.6	3620.9 µg/L	3620.9 ppb	16:41:39
1	Tl 190.801†	-441.2	-316.0	-1.6441 µg/L	-1.6441 ppb	16:42:01
1	U 409.014†	-6570.4	-6175.8	-397.92 µg/L	-397.92 ppb	16:41:41
1	V 292.402†	17633.2	16837.9	77.262 µg/L	77.262 ppb	16:42:01
1	Zn 213.857†	83769.8	80957.8	498.51 µg/L	498.51 ppb	16:41:41
2	Sc RADIAL	151818.9	151818.9	103 %		16:41:30
2	Al 396.153Radial†	226802.1	221285.6	44131 µg/L	44131 ppb	16:41:28
2	Ca 317.933Radial†	162493.1	157889.7	9655.4 µg/L	9655.4 ppb	16:41:30
2	Fe 238.204 Radial†	1405462.8	1370761.2	92911 µg/L	92911 ppb	16:41:28
2	K 766.490 Radial†	14840.3	12925.5	5218.7 µg/L	5218.7 ppb	16:41:30
2	Mg 279.077 IEC†	19038.3	18387.3	7503.1 µg/L	7503.1 ppb	16:41:30
2	Na 589.592 Radial†	5759.2	4298.5	640.75 µg/L	640.75 ppb	16:41:30
2	Sr 421.552†	28979.9	28545.3	64.126 µg/L	64.126 ppb	16:41:30
2	Sc 361.383	1760819.3	1760819.3	100.59 %		16:42:04
2	Y 371.029	1323346.6	1323346.6	125.51 %		16:42:04
2	Ag 328.068†	3769.1	2.3	-0.6812 µg/L	-0.6812 ppb	16:42:06
2	As 188.979†	16.1	33.1	33.091 µg/L	33.091 ppb	16:42:26
2	B 249.677†	4936.4	1624.8	26.529 µg/L	26.529 ppb	16:42:06
2	Ba 233.527†	36220.2	36163.9	158.40 µg/L	158.40 ppb	16:42:06
2	Be 313.107†	30189.1	30858.1	9.0688 µg/L	9.0688 ppb	16:42:06
2	Cd 226.502†	1315.2	1409.6	0.1388 µg/L	0.1388 ppb	16:42:26
2	Co 228.616†	1257.6	1417.4	14.745 µg/L	14.745 ppb	16:42:26
2	Cr 267.716†	14354.3	14109.2	124.56 µg/L	124.56 ppb	16:42:26
2	Cu 324.752†	6662.3	3783.2	29.497 µg/L	29.497 ppb	16:42:06
2	Mn 257.610†	1246525.2	1239056.0	1674.0 µg/L	1674.0 ppb	16:42:04
2	Mo 202.031†	76.3	95.2	6.9111 µg/L	6.9111 ppb	16:42:26
2	Ni 231.604†	5554.0	5604.0	71.742 µg/L	71.742 ppb	16:42:26
2	P 214.914†	2425.3	2424.8	528.18 µg/L	528.18 ppb	16:42:26
2	Pb 220.353†	720.8	641.8	44.606 µg/L	44.606 ppb	16:42:26

2	S 181.975 Axial†	651.0	543.1	453.95 µg/L	453.95 ppb	16:42:26
2	Sb 206.836†	92.5	18.7	-0.6334 µg/L	-0.6334 ppb	16:42:26
2	Se 196.026†	-53.6	-65.9	5.16 µg/L	5.16 ppb	16:42:26
2	SiO2†	445036.1	440737.3	47513 µg/L	47513 ppb	16:42:06
2	Si 251.611†	1353618.1	1344854.5	21880 µg/L	21880 ppb	16:42:04
2	Sn 189.927†	73.7	73.6	17.357 µg/L	17.357 ppb	16:42:26
2	Ti 334.940†	3615664.3	3593866.7	3635.7 µg/L	3635.7 ppb	16:42:04
2	Tl 190.801†	-438.0	-322.2	-2.3137 µg/L	-2.3137 ppb	16:42:26
2	U 409.014†	-6450.2	-6197.1	-399.09 µg/L	-399.09 ppb	16:42:06
2	V 292.402†	17521.4	17104.4	78.716 µg/L	78.716 ppb	16:42:26
2	Zn 213.857†	83050.0	82036.7	505.28 µg/L	505.28 ppb	16:42:06
3	Sc RADIAL	150814.4	150814.4	102 %		16:41:34
3	Al 396.153Radial†	223620.1	219634.7	43802 µg/L	43802 ppb	16:41:32
3	Ca 317.933Radial†	162148.5	158607.0	9699.3 µg/L	9699.3 ppb	16:41:34
3	Fe 238.204 Radial†	1375404.5	1350377.9	91529 µg/L	91529 ppb	16:41:32
3	K 766.490 Radial†	14771.8	12954.7	5230.6 µg/L	5230.6 ppb	16:41:34
3	Mg 279.077 IEC†	19001.9	18475.2	7540.5 µg/L	7540.5 ppb	16:41:34
3	Na 589.592 Radial†	5592.2	4172.0	621.74 µg/L	621.74 ppb	16:41:34
3	Sr 421.552†	28785.7	28542.9	64.121 µg/L	64.121 ppb	16:41:34
3	Sc 361.383	1779841.2	1779841.2	101.67 %		16:42:29
3	Y 371.029	1336120.8	1336120.8	126.72 %		16:42:29
3	Ag 328.068†	3441.5	-359.9	-2.1332 µg/L	-2.1332 ppb	16:42:31
3	As 188.979†	13.8	30.7	31.952 µg/L	31.952 ppb	16:42:51
3	B 249.677†	4857.1	1494.4	24.394 µg/L	24.394 ppb	16:42:31
3	Ba 233.527†	35606.6	35175.5	154.06 µg/L	154.06 ppb	16:42:31
3	Be 313.107†	29549.6	29908.4	8.7902 µg/L	8.7902 ppb	16:42:31
3	Cd 226.502†	1296.9	1377.7	0.0599 µg/L	0.0599 ppb	16:42:51
3	Co 228.616†	1258.8	1405.3	14.647 µg/L	14.647 ppb	16:42:51
3	Cr 267.716†	14349.7	13952.2	123.15 µg/L	123.15 ppb	16:42:51
3	Cu 324.752†	6501.5	3554.2	28.335 µg/L	28.335 ppb	16:42:31
3	Mn 257.610†	1255540.4	1234678.4	1668.0 µg/L	1668.0 ppb	16:42:29
3	Mo 202.031†	63.6	81.9	6.4278 µg/L	6.4278 ppb	16:42:51
3	Ni 231.604†	5542.5	5533.7	70.842 µg/L	70.842 ppb	16:42:51
3	P 214.914†	2422.2	2396.0	522.14 µg/L	522.14 ppb	16:42:51
3	Pb 220.353†	745.6	658.6	45.644 µg/L	45.644 ppb	16:42:51
3	S 181.975 Axial†	657.4	542.4	453.43 µg/L	453.43 ppb	16:42:51
3	Sb 206.836†	85.5	10.9	-1.6321 µg/L	-1.6321 ppb	16:42:51
3	Se 196.026†	-56.8	-68.5	3.64 µg/L	3.64 ppb	16:42:51
3	SiO2†	436534.5	427646.9	46102 µg/L	46102 ppb	16:42:31
3	Si 251.611†	1364966.5	1341633.7	21828 µg/L	21828 ppb	16:42:29
3	Sn 189.927†	64.4	63.6	16.624 µg/L	16.624 ppb	16:42:51
3	Ti 334.940†	3641709.9	3581066.6	3622.7 µg/L	3622.7 ppb	16:42:29
3	Tl 190.801†	-448.4	-327.8	-3.2297 µg/L	-3.2297 ppb	16:42:51
3	U 409.014†	-6299.6	-5980.4	-385.09 µg/L	-385.09 ppb	16:42:31
3	V 292.402†	17470.9	16868.6	77.610 µg/L	77.610 ppb	16:42:51
3	Zn 213.857†	81506.1	79635.8	490.41 µg/L	490.41 ppb	16:42:31

Mean Data: 248511019|961532|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1780085.7	101.69 %	1.108			1.09%
Sc RADIAL	151480.6	102 %	0.4			0.38%
Y 371.029	1336587.2	126.77 %	1.278			1.01%
Ag 328.068†	-196.4	-1.4861 µg/L	0.73873	-1.4861 ppb	0.73873	49.71%
Al 396.153Radial†	221042.5	44083 µg/L	259.9	44083 ppb	259.9	0.59%
As 188.979†	35.2	33.701 µg/L	2.1207	33.701 ppb	2.1207	6.29%
B 249.677†	1568.9	25.615 µg/L	1.0999	25.615 ppb	1.0999	4.29%
Ba 233.527†	35691.7	156.32 µg/L	2.178	156.32 ppb	2.178	1.39%
Be 313.107†	30365.6	8.9237 µg/L	0.13967	8.9237 ppb	0.13967	1.57%
Ca 317.933Radial†	158353.5	9683.8 µg/L	24.60	9683.8 ppb	24.60	0.25%
Cd 226.502†	1390.0	0.0383 µg/L	0.11292	0.0383 ppb	0.11292	295.08%
Co 228.616†	1404.5	14.584 µg/L	0.1996	14.584 ppb	0.1996	1.37%
Cr 267.716†	13957.4	123.24 µg/L	1.282	123.24 ppb	1.282	1.04%
Cu 324.752†	3571.8	28.551 µg/L	0.8584	28.551 ppb	0.8584	3.01%
Fe 238.204 Radial†	1365475.1	92553 µg/L	899.4	92553 ppb	899.4	0.97%
K 766.490 Radial†	12991.8	5245.6 µg/L	36.68	5245.6 ppb	36.68	0.70%
Mg 279.077 IEC†	18445.9	7527.5 µg/L	21.17	7527.5 ppb	21.17	0.28%
Mn 257.610†	1236194.8	1670.1 µg/L	3.35	1670.1 ppb	3.35	0.20%
Mo 202.031†	93.0	6.8247 µg/L	0.36160	6.8247 ppb	0.36160	5.30%
Na 589.592 Radial†	4202.8	626.35 µg/L	12.738	626.35 ppb	12.738	2.03%

Ni 231.604†	5542.1	70.950 µg/L	0.7434	70.950 ppb	0.7434	1.05%
P 214.914†	2398.5	522.10 µg/L	6.092	522.10 ppb	6.092	1.17%
Pb 220.353†	641.2	44.565 µg/L	1.1003	44.565 ppb	1.1003	2.47%
S 181.975 Axial†	541.2	452.39 µg/L	2.267	452.39 ppb	2.267	0.50%
Sb 206.836†	18.0	-0.7076 µg/L	0.88972	-0.7076 ppb	0.88972	125.74%
Se 196.026†	-68.5	3.98 µg/L	1.042	3.98 ppb	1.042	26.16%
SiO2†	434096.7	46797 µg/L	705.8	46797 ppb	705.8	1.51%
Si 251.611†	1342535.9	21842 µg/L	32.9	21842 ppb	32.9	0.15%
Sn 189.927†	63.5	16.629 µg/L	0.7247	16.629 ppb	0.7247	4.36%
Sr 421.552†	28538.8	64.111 µg/L	0.0211	64.111 ppb	0.0211	0.03%
Ti 334.940†	3584718.6	3626.4 µg/L	8.07	3626.4 ppb	8.07	0.22%
Tl 190.801†	-322.0	-2.3958 µg/L	0.79598	-2.3958 ppb	0.79598	33.22%
U 409.014†	-6117.7	-394.03 µg/L	7.766	-394.03 ppb	7.766	1.97%
Concentration less than lower limit for U 409.014.						
V 292.402†	16937.0	77.863 µg/L	0.7593	77.863 ppb	0.7593	0.98%
Zn 213.857†	80876.8	498.07 µg/L	7.447	498.07 ppb	7.447	1.50%

Sequence No.: 58
 Sample ID: 248511020|961532|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 348
 Date Collected: 3/31/2010 16:42:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 248511020|961532|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	149175.0	149175.0	101 %		16:43:30
1	Al 396.153Radial†	280136.1	278151.0	55472 µg/L	55472 ppb	16:43:28
1	Ca 317.933Radial†	395974.3	392474.5	24001 µg/L	24001 ppb	16:43:30
1	Fe 238.204 Radial†	1266651.9	1257262.2	85218 µg/L	85218 ppb	16:43:28
1	K 766.490 Radial†	29303.4	27539.5	11128 µg/L	11128 ppb	16:43:30
1	Mg 279.077 IEC†	29411.5	29013.9	11892 µg/L	11892 ppb	16:43:30
1	Na 589.592 Radial†	5684.6	4324.1	639.33 µg/L	639.33 ppb	16:43:30
1	Sr 421.552†	72903.4	72648.9	163.21 µg/L	163.21 ppb	16:43:30
1	Sc 361.383	1759736.9	1759736.9	100.52 %		16:43:43
1	Y 371.029	1191457.0	1191457.0	113.00 %		16:43:43
1	Ag 328.068†	3629.5	-134.3	-2.3532 µg/L	-2.3532 ppb	16:43:45
1	As 188.979†	19.4	36.4	31.760 µg/L	31.760 ppb	16:44:05
1	B 249.677†	7233.9	3913.4	63.965 µg/L	63.965 ppb	16:43:45
1	Ba 233.527†	149371.3	148748.0	655.16 µg/L	655.16 ppb	16:43:45
1	Be 313.107†	31775.6	32454.8	9.5591 µg/L	9.5591 ppb	16:43:45
1	Cd 226.502†	1314.1	1409.4	0.9335 µg/L	0.9335 ppb	16:44:05
1	Co 228.616†	1816.8	1974.5	23.250 µg/L	23.250 ppb	16:44:05
1	Cr 267.716†	5613.3	5422.5	48.444 µg/L	48.444 ppb	16:44:05
1	Cu 324.752†	12272.7	9368.5	52.271 µg/L	52.271 ppb	16:43:45
1	Mn 257.610†	4124371.1	4102678.7	5543.8 µg/L	5543.8 ppb	16:43:43
1	Mo 202.031†	46.8	65.9	5.7504 µg/L	5.7504 ppb	16:44:05
1	Ni 231.604†	3537.5	3601.4	46.105 µg/L	46.105 ppb	16:44:05
1	P 214.914†	5672.4	5656.5	1311.0 µg/L	1311.0 ppb	16:44:05
1	Pb 220.353†	1932.9	1848.0	119.61 µg/L	119.61 ppb	16:44:05
1	S 181.975 Axial†	1764.2	1650.8	1379.9 µg/L	1379.9 ppb	16:44:05
1	Sb 206.836†	66.1	-7.4	-2.9022 µg/L	-2.9022 ppb	16:44:05
1	Se 196.026†	-52.5	-64.8	2.97 µg/L	2.97 ppb	16:44:05
1	SiO2†	486872.3	482627.9	52029 µg/L	52029 ppb	16:43:45
1	Si 251.611†	1475576.4	1467005.5	23867 µg/L	23867 ppb	16:43:43
1	Sn 189.927†	30.2	30.3	12.835 µg/L	12.835 ppb	16:44:05
1	Ti 334.940†	3163080.8	3145850.9	3182.5 µg/L	3182.5 ppb	16:43:43
1	Tl 190.801†	-523.0	-407.0	-8.2885 µg/L	-8.2885 ppb	16:44:05
1	U 409.014†	-5668.0	-5422.9	-321.18 µg/L	-321.18 ppb	16:43:45
1	V 292.402†	21086.6	20661.9	98.702 µg/L	98.702 ppb	16:43:45
1	Zn 213.857†	66018.0	65144.2	400.14 µg/L	400.14 ppb	16:43:45
2	Sc RADIAL	147629.8	147629.8	99.7 %		16:43:34
2	Al 396.153Radial†	281683.9	282614.1	56362 µg/L	56362 ppb	16:43:32
2	Ca 317.933Radial†	387556.8	388145.1	23736 µg/L	23736 ppb	16:43:34
2	Fe 238.204 Radial†	1275156.9	1278953.6	86688 µg/L	86688 ppb	16:43:32
2	K 766.490 Radial†	28899.0	27438.4	11086 µg/L	11086 ppb	16:43:34
2	Mg 279.077 IEC†	28873.4	28779.7	11794 µg/L	11794 ppb	16:43:34
2	Na 589.592 Radial†	5617.1	4315.4	638.06 µg/L	638.06 ppb	16:43:34
2	Sr 421.552†	71736.8	72236.2	162.28 µg/L	162.28 ppb	16:43:34
2	Sc 361.383	1761872.7	1761872.7	100.65 %		16:44:07
2	Y 371.029	1191063.3	1191063.3	112.96 %		16:44:07
2	Ag 328.068†	3562.2	-205.5	-2.6370 µg/L	-2.6370 ppb	16:44:10
2	As 188.979†	22.4	39.4	33.086 µg/L	33.086 ppb	16:44:30
2	B 249.677†	7201.0	3872.0	63.288 µg/L	63.288 ppb	16:44:10
2	Ba 233.527†	147624.9	146832.6	646.69 µg/L	646.69 ppb	16:44:10
2	Be 313.107†	31266.3	31910.5	9.3991 µg/L	9.3991 ppb	16:44:10
2	Cd 226.502†	1320.9	1414.5	0.8151 µg/L	0.8151 ppb	16:44:30
2	Co 228.616†	1797.4	1953.0	22.872 µg/L	22.872 ppb	16:44:30
2	Cr 267.716†	5568.5	5371.2	48.051 µg/L	48.051 ppb	16:44:30
2	Cu 324.752†	12033.2	9115.7	51.414 µg/L	51.414 ppb	16:44:10
2	Mn 257.610†	4119905.5	4093268.0	5531.1 µg/L	5531.1 ppb	16:44:07
2	Mo 202.031†	43.4	62.5	5.6966 µg/L	5.6966 ppb	16:44:30
2	Ni 231.604†	3550.8	3610.4	46.220 µg/L	46.220 ppb	16:44:30
2	P 214.914†	5686.9	5664.0	1312.0 µg/L	1312.0 ppb	16:44:30
2	Pb 220.353†	1916.4	1829.3	118.44 µg/L	118.44 ppb	16:44:30

2	S 181.975 Axial†	1774.0	1658.5	1386.3 µg/L	1386.3 ppb	16:44:30
2	Sb 206.836†	83.9	10.2	-0.6152 µg/L	-0.6152 ppb	16:44:30
2	Se 196.026†	-37.9	-50.2	9.41 µg/L	9.41 ppb	16:44:30
2	SiO2†	479803.1	475016.8	51209 µg/L	51209 ppb	16:44:10
2	Si 251.611†	1472640.1	1462308.6	23791 µg/L	23791 ppb	16:44:07
2	Sn 189.927†	56.1	56.0	14.567 µg/L	14.567 ppb	16:44:30
2	Ti 334.940†	3152862.8	3131883.9	3168.3 µg/L	3168.3 ppb	16:44:07
2	Tl 190.801†	-507.4	-391.0	-6.2853 µg/L	-6.2853 ppb	16:44:30
2	U 409.014†	-5566.4	-5315.0	-314.77 µg/L	-314.77 ppb	16:44:10
2	V 292.402†	21024.6	20574.8	98.095 µg/L	98.095 ppb	16:44:10
2	Zn 213.857†	65197.7	64249.5	394.40 µg/L	394.40 ppb	16:44:10
3	Sc RADIAL	148219.7	148219.7	100 %		16:43:38
3	Al 396.153Radial†	282268.6	282073.7	56254 µg/L	56254 ppb	16:43:36
3	Ca 317.933Radial†	395122.4	394156.6	24104 µg/L	24104 ppb	16:43:38
3	Fe 238.204 Radial†	1278657.4	1277360.1	86580 µg/L	86580 ppb	16:43:36
3	K 766.490 Radial†	29462.4	27885.9	11268 µg/L	11268 ppb	16:43:38
3	Mg 279.077 IEC†	29525.8	29316.2	12015 µg/L	12015 ppb	16:43:38
3	Na 589.592 Radial†	5633.5	4309.4	636.99 µg/L	636.99 ppb	16:43:38
3	Sr 421.552†	72752.1	72964.1	163.92 µg/L	163.92 ppb	16:43:38
3	Sc 361.383	1784327.1	1784327.1	101.93 %		16:44:32
3	Y 371.029	1206434.1	1206434.1	114.42 %		16:44:32
3	Ag 328.068†	3756.4	-59.5	-2.0716 µg/L	-2.0716 ppb	16:44:35
3	As 188.979†	25.8	42.4	34.077 µg/L	34.077 ppb	16:44:55
3	B 249.677†	7119.9	3702.4	60.510 µg/L	60.510 ppb	16:44:35
3	Ba 233.527†	147291.8	144660.0	637.11 µg/L	637.11 ppb	16:44:35
3	Be 313.107†	31034.4	31292.0	9.2180 µg/L	9.2180 ppb	16:44:35
3	Cd 226.502†	1323.6	1400.7	0.7290 µg/L	0.7290 ppb	16:44:55
3	Co 228.616†	1841.2	1973.6	23.149 µg/L	23.149 ppb	16:44:55
3	Cr 267.716†	5634.0	5365.9	47.994 µg/L	47.994 ppb	16:44:55
3	Cu 324.752†	11973.4	8906.6	50.524 µg/L	50.524 ppb	16:44:35
3	Mn 257.610†	4161091.7	4082161.9	5516.1 µg/L	5516.1 ppb	16:44:32
3	Mo 202.031†	31.3	50.0	5.2934 µg/L	5.2934 ppb	16:44:55
3	Ni 231.604†	3531.2	3546.7	45.405 µg/L	45.405 ppb	16:44:55
3	P 214.914†	5702.1	5607.8	1298.6 µg/L	1298.6 ppb	16:44:55
3	Pb 220.353†	1927.2	1815.9	117.59 µg/L	117.59 ppb	16:44:55
3	S 181.975 Axial†	1786.5	1648.5	1377.9 µg/L	1377.9 ppb	16:44:55
3	Sb 206.836†	78.1	3.4	-1.5077 µg/L	-1.5077 ppb	16:44:55
3	Se 196.026†	-36.0	-47.9	10.3 µg/L	10.3 ppb	16:44:55
3	SiO2†	479619.0	468837.0	50543 µg/L	50543 ppb	16:44:35
3	Si 251.611†	1489419.0	1460356.9	23759 µg/L	23759 ppb	16:44:32
3	Sn 189.927†	44.9	44.4	13.739 µg/L	13.739 ppb	16:44:55
3	Ti 334.940†	3187477.1	3126421.5	3162.8 µg/L	3162.8 ppb	16:44:32
3	Tl 190.801†	-512.3	-389.4	-6.1881 µg/L	-6.1881 ppb	16:44:55
3	U 409.014†	-5474.6	-5155.5	-304.83 µg/L	-304.83 ppb	16:44:35
3	V 292.402†	20777.0	20068.9	95.405 µg/L	95.405 ppb	16:44:35
3	Zn 213.857†	65062.9	63302.1	388.49 µg/L	388.49 ppb	16:44:35

Mean Data: 248511020|961532|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1768645.6	101.03	%	0.778			0.77%
Sc RADIAL	148341.5	100	%	0.5			0.53%
Y 371.029	1196318.1	113.46	%	0.831			0.73%
Ag 328.068†	-133.1	-2.3539	µg/L	0.28266	-2.3539 ppb	0.28266	12.01%
Al 396.153Radial†	280946.3	56029	µg/L	485.8	56029 ppb	485.8	0.87%
As 188.979†	39.4	32.974	µg/L	1.1629	32.974 ppb	1.1629	3.53%
B 249.677†	3829.3	62.588	µg/L	1.8307	62.588 ppb	1.8307	2.93%
Ba 233.527†	146746.9	646.32	µg/L	9.032	646.32 ppb	9.032	1.40%
Be 313.107†	31885.8	9.3921	µg/L	0.17066	9.3921 ppb	0.17066	1.82%
Ca 317.933Radial†	391592.1	23947	µg/L	189.7	23947 ppb	189.7	0.79%
Cd 226.502†	1408.2	0.8259	µg/L	0.10268	0.8259 ppb	0.10268	12.43%
Co 228.616†	1967.0	23.090	µg/L	0.1958	23.090 ppb	0.1958	0.85%
Cr 267.716†	5386.5	48.163	µg/L	0.2450	48.163 ppb	0.2450	0.51%
Cu 324.752†	9130.3	51.403	µg/L	0.8735	51.403 ppb	0.8735	1.70%
Fe 238.204 Radial†	1271192.0	86162	µg/L	819.5	86162 ppb	819.5	0.95%
K 766.490 Radial†	27621.3	11161	µg/L	94.9	11161 ppb	94.9	0.85%
Mg 279.077 IEC†	29036.6	11900	µg/L	110.9	11900 ppb	110.9	0.93%
Mn 257.610†	4092702.8	5530.3	µg/L	13.88	5530.3 ppb	13.88	0.25%
Mo 202.031†	59.5	5.5801	µg/L	0.24982	5.5801 ppb	0.24982	4.48%
Na 589.592 Radial†	4316.3	638.13	µg/L	1.169	638.13 ppb	1.169	0.18%

Ni 231.604†	3586.2	45.910 µg/L	0.4409	45.910 ppb	0.4409	0.96%
P 214.914†	5642.8	1307.2 µg/L	7.47	1307.2 ppb	7.47	0.57%
Pb 220.353†	1831.1	118.54 µg/L	1.017	118.54 ppb	1.017	0.86%
S 181.975 Axial†	1652.6	1381.3 µg/L	4.37	1381.3 ppb	4.37	0.32%
Sb 206.836†	2.1	-1.6750 µg/L	1.15260	-1.6750 ppb	1.15260	68.81%
Se 196.026†	-54.3	7.57 µg/L	4.010	7.57 ppb	4.010	52.98%
SiO2†	475493.9	51260 µg/L	744.7	51260 ppb	744.7	1.45%
Si 251.611†	1463223.6	23806 µg/L	55.6	23806 ppb	55.6	0.23%
Sn 189.927†	43.6	13.713 µg/L	0.8662	13.713 ppb	0.8662	6.32%
Sr 421.552†	72616.4	163.14 µg/L	0.820	163.14 ppb	0.820	0.50%
Ti 334.940†	3134718.7	3171.2 µg/L	10.14	3171.2 ppb	10.14	0.32%
Tl 190.801†	-395.8	-6.9206 µg/L	1.18559	-6.9206 ppb	1.18559	17.13%
U 409.014†	-5297.8	-313.59 µg/L	8.239	-313.59 ppb	8.239	2.63%
Concentration less than lower limit for U 409.014.						
V 292.402†	20435.2	97.401 µg/L	1.7547	97.401 ppb	1.7547	1.80%
Zn 213.857†	64231.9	394.34 µg/L	5.827	394.34 ppb	5.827	1.48%

Sequence No.: 59
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/31/2010 16:45:02
 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	148873.5	148873.5	101 %		16:45:35
1	Al 396.153Radial†	25191.7	25119.5	4986.5 µg/L	4986.5 ppb	16:45:35
1	Ca 317.933Radial†	83458.5	82409.3	5039.6 µg/L	5039.6 ppb	16:45:35
1	Fe 238.204 Radial†	74642.0	74109.9	5023.2 µg/L	5023.2 ppb	16:45:35
1	K 766.490 Radial†	14181.5	12556.7	5077.7 µg/L	5077.7 ppb	16:45:35
1	Mg 279.077 IEC†	12750.1	12499.8	5162.6 µg/L	5162.6 ppb	16:45:35
1	Na 589.592 Radial†	68255.0	66574.6	9991.3 µg/L	9991.3 ppb	16:45:35
1	Sr 421.552†	219544.2	218659.8	491.75 µg/L	491.75 ppb	16:45:33
1	Sc 361.383	1755284.5	1755284.5	100.27 %		16:45:48
1	Y 371.029	1043672.4	1043672.4	98.984 %		16:45:48
1	Ag 328.068†	126240.3	122156.6	499.67 µg/L	499.67 ppb	16:45:48
1	As 188.979†	1476.0	1489.2	506.00 µg/L	506.00 ppb	16:46:08
1	B 249.677†	33619.5	30246.4	493.36 µg/L	493.36 ppb	16:45:48
1	Ba 233.527†	112912.7	112764.1	497.86 µg/L	497.86 ppb	16:45:48
1	Be 313.107†	1673497.1	1669850.4	497.34 µg/L	497.34 ppb	16:45:48
1	Cd 226.502†	71779.0	71688.5	501.90 µg/L	501.90 ppb	16:45:48
1	Co 228.616†	36644.0	36712.8	503.12 µg/L	503.12 ppb	16:45:48
1	Cr 267.716†	58027.0	57709.7	496.82 µg/L	496.82 ppb	16:45:48
1	Cu 324.752†	119674.4	116512.9	496.62 µg/L	496.62 ppb	16:45:48
1	Mn 257.610†	370292.7	369082.8	498.57 µg/L	498.57 ppb	16:45:48
1	Mo 202.031†	15492.7	15470.5	498.93 µg/L	498.93 ppb	16:46:08
1	Ni 231.604†	39202.1	39179.2	501.57 µg/L	501.57 ppb	16:45:48
1	P 214.914†	10446.6	10432.2	2494.2 µg/L	2494.2 ppb	16:46:08
1	Pb 220.353†	8208.2	8111.3	503.97 µg/L	503.97 ppb	16:46:08
1	S 181.975 Axial†	1308.7	1201.0	1008.0 µg/L	1008.0 ppb	16:46:08
1	Sb 206.836†	3886.8	3803.2	499.32 µg/L	499.32 ppb	16:46:08
1	Se 196.026†	1267.7	1251.7	509 µg/L	509 ppb	16:46:08
1	SiO2†	52012.1	50163.2	5386.4 µg/L	5386.4 ppb	16:45:48
1	Si 251.611†	157348.9	156039.3	2528.7 µg/L	2528.7 ppb	16:45:48
1	Sn 189.927†	7226.5	7207.4	500.78 µg/L	500.78 ppb	16:46:08
1	Ti 334.940†	492372.1	490291.4	495.38 µg/L	495.38 ppb	16:45:48
1	Tl 190.801†	3592.7	3696.3	509.04 µg/L	509.04 ppb	16:46:08
1	U 409.014†	7291.6	7487.6	506.70 µg/L	506.70 ppb	16:45:48
1	V 292.402†	92987.3	92422.7	501.59 µg/L	501.59 ppb	16:45:48
1	Zn 213.857†	80865.7	80118.6	497.00 µg/L	497.00 ppb	16:45:48
2	Sc RADIAL	146031.3	146031.3	98.6 %		16:45:39
2	Al 396.153Radial†	24781.2	25191.0	5000.6 µg/L	5000.6 ppb	16:45:39
2	Ca 317.933Radial†	81854.7	82398.7	5038.9 µg/L	5038.9 ppb	16:45:39
2	Fe 238.204 Radial†	73069.8	73960.6	5013.1 µg/L	5013.1 ppb	16:45:39
2	K 766.490 Radial†	13887.8	12533.3	5068.2 µg/L	5068.2 ppb	16:45:39
2	Mg 279.077 IEC†	12448.6	12440.9	5138.4 µg/L	5138.4 ppb	16:45:39
2	Na 589.592 Radial†	67133.3	66758.5	10019 µg/L	10019 ppb	16:45:39
2	Sr 421.552†	223040.9	226456.1	509.29 µg/L	509.29 ppb	16:45:37
2	Sc 361.383	1752711.7	1752711.7	100.12 %		16:46:11
2	Y 371.029	1042028.7	1042028.7	98.828 %		16:46:11
2	Ag 328.068†	126059.4	122160.8	499.70 µg/L	499.70 ppb	16:46:11
2	As 188.979†	1480.7	1496.1	508.30 µg/L	508.30 ppb	16:46:31
2	B 249.677†	33542.6	30218.9	492.91 µg/L	492.91 ppb	16:46:11
2	Ba 233.527†	112658.7	112675.8	497.47 µg/L	497.47 ppb	16:46:11
2	Be 313.107†	1670953.0	1669759.3	497.31 µg/L	497.31 ppb	16:46:11
2	Cd 226.502†	71532.8	71547.7	500.91 µg/L	500.91 ppb	16:46:11
2	Co 228.616†	36470.0	36592.7	501.48 µg/L	501.48 ppb	16:46:11
2	Cr 267.716†	57911.8	57679.6	496.57 µg/L	496.57 ppb	16:46:11
2	Cu 324.752†	119628.5	116642.3	497.16 µg/L	497.16 ppb	16:46:11
2	Mn 257.610†	369976.9	369309.5	498.88 µg/L	498.88 ppb	16:46:11
2	Mo 202.031†	15561.4	15561.8	501.88 µg/L	501.88 ppb	16:46:31
2	Ni 231.604†	39209.3	39243.7	502.40 µg/L	502.40 ppb	16:46:11
2	P 214.914†	10511.7	10512.5	2513.5 µg/L	2513.5 ppb	16:46:31
2	Pb 220.353†	8232.7	8147.8	506.24 µg/L	506.24 ppb	16:46:31

2	S 181.975 Axial†	1319.3	1213.5	1018.5 µg/L	1018.5 ppb	16:46:31
2	Sb 206.836†	3913.7	3835.7	503.63 µg/L	503.63 ppb	16:46:31
2	Se 196.026†	1267.4	1253.2	510 µg/L	510 ppb	16:46:31
2	SiO2†	52010.3	50237.6	5394.3 µg/L	5394.3 ppb	16:46:11
2	Si 251.611†	157041.6	155962.7	2527.4 µg/L	2527.4 ppb	16:46:11
2	Sn 189.927†	7243.0	7234.4	502.65 µg/L	502.65 ppb	16:46:31
2	Ti 334.940†	491643.3	490284.3	495.38 µg/L	495.38 ppb	16:46:11
2	Tl 190.801†	3599.1	3708.0	510.64 µg/L	510.64 ppb	16:46:31
2	U 409.014†	7212.9	7419.7	502.47 µg/L	502.47 ppb	16:46:11
2	V 292.402†	93110.2	92681.6	503.00 µg/L	503.00 ppb	16:46:11
2	Zn 213.857†	80813.7	80185.1	497.41 µg/L	497.41 ppb	16:46:11
3	Sc RADIAL	146505.0	146505.0	98.9 %		16:45:43
3	Al 396.153Radial†	24918.1	25248.1	5012.2 µg/L	5012.2 ppb	16:45:43
3	Ca 317.933Radial†	82412.8	82694.6	5057.0 µg/L	5057.0 ppb	16:45:43
3	Fe 238.204 Radial†	73672.1	74329.9	5038.1 µg/L	5038.1 ppb	16:45:43
3	K 766.490 Radial†	13903.5	12503.7	5056.2 µg/L	5056.2 ppb	16:45:43
3	Mg 279.077 IEC†	12430.3	12381.6	5113.8 µg/L	5113.8 ppb	16:45:43
3	Na 589.592 Radial†	67400.6	66808.6	10026 µg/L	10026 ppb	16:45:43
3	Sr 421.552†	221535.3	224203.0	504.22 µg/L	504.22 ppb	16:45:41
3	Sc 361.383	1757232.2	1757232.2	100.38 %		16:46:34
3	Y 371.029	1044271.1	1044271.1	99.041 %		16:46:34
3	Ag 328.068†	126991.3	122765.2	502.15 µg/L	502.15 ppb	16:46:34
3	As 188.979†	1458.9	1470.5	499.79 µg/L	499.79 ppb	16:46:54
3	B 249.677†	33865.5	30454.4	496.75 µg/L	496.75 ppb	16:46:34
3	Ba 233.527†	113663.9	113387.6	500.61 µg/L	500.61 ppb	16:46:34
3	Be 313.107†	1685803.8	1680260.5	500.44 µg/L	500.44 ppb	16:46:34
3	Cd 226.502†	72244.5	72072.9	504.59 µg/L	504.59 ppb	16:46:34
3	Co 228.616†	36802.4	36830.1	504.73 µg/L	504.73 ppb	16:46:34
3	Cr 267.716†	58621.0	58237.4	501.38 µg/L	501.38 ppb	16:46:34
3	Cu 324.752†	120491.6	117194.7	499.51 µg/L	499.51 ppb	16:46:34
3	Mn 257.610†	372695.4	371067.1	501.26 µg/L	501.26 ppb	16:46:34
3	Mo 202.031†	15441.5	15402.4	496.74 µg/L	496.74 ppb	16:46:54
3	Ni 231.604†	39468.3	39401.0	504.41 µg/L	504.41 ppb	16:46:34
3	P 214.914†	10437.4	10411.5	2489.2 µg/L	2489.2 ppb	16:46:54
3	Pb 220.353†	8206.6	8100.7	503.32 µg/L	503.32 ppb	16:46:54
3	S 181.975 Axial†	1311.4	1202.2	1009.1 µg/L	1009.1 ppb	16:46:54
3	Sb 206.836†	3871.2	3783.4	496.62 µg/L	496.62 ppb	16:46:54
3	Se 196.026†	1246.1	1228.8	500 µg/L	500 ppb	16:46:54
3	SiO2†	52524.9	50616.6	5435.4 µg/L	5435.4 ppb	16:46:34
3	Si 251.611†	158256.4	156769.4	2540.7 µg/L	2540.7 ppb	16:46:34
3	Sn 189.927†	7179.9	7152.9	497.01 µg/L	497.01 ppb	16:46:54
3	Ti 334.940†	495015.3	492380.3	497.50 µg/L	497.50 ppb	16:46:34
3	Tl 190.801†	3571.9	3671.5	505.72 µg/L	505.72 ppb	16:46:54
3	U 409.014†	7154.2	7342.7	497.64 µg/L	497.64 ppb	16:46:34
3	V 292.402†	93595.5	92925.9	504.27 µg/L	504.27 ppb	16:46:34
3	Zn 213.857†	81521.4	80682.4	500.51 µg/L	500.51 ppb	16:46:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1755076.1	100.26 %	0.130			0.13%
Sc RADIAL	147136.6	99.4 %	1.03			1.03%
Y 371.029	1043324.1	98.951 %	0.1101			0.11%
Ag 328.068†	122360.9	500.50 µg/L	1.423	500.50 ppb	1.423	0.28%
QC value within limits for Ag 328.068 Recovery = 100.10%						
Al 396.153Radial†	25186.2	4999.8 µg/L	12.89	4999.8 ppb	12.89	0.26%
QC value within limits for Al 396.153Radial Recovery = 100.00%						
As 188.979†	1485.3	504.70 µg/L	4.404	504.70 ppb	4.404	0.87%
QC value within limits for As 188.979 Recovery = 100.94%						
B 249.677†	30306.6	494.34 µg/L	2.102	494.34 ppb	2.102	0.43%
QC value within limits for B 249.677 Recovery = 98.87%						
Ba 233.527†	112942.5	498.64 µg/L	1.711	498.64 ppb	1.711	0.34%
QC value within limits for Ba 233.527 Recovery = 99.73%						
Be 313.107†	1673290.1	498.36 µg/L	1.796	498.36 ppb	1.796	0.36%
QC value within limits for Be 313.107 Recovery = 99.67%						
Ca 317.933Radial†	82500.9	5045.2 µg/L	10.26	5045.2 ppb	10.26	0.20%
QC value within limits for Ca 317.933Radial Recovery = 100.90%						
Cd 226.502†	71769.7	502.47 µg/L	1.904	502.47 ppb	1.904	0.38%
QC value within limits for Cd 226.502 Recovery = 100.49%						
Co 228.616†	36711.9	503.11 µg/L	1.627	503.11 ppb	1.627	0.32%

QC value within limits for Co 228.616 Recovery = 100.62%							
Cr 267.716†	57875.5	498.26 µg/L	2.705	498.26 ppb	2.705	0.54%	
QC value within limits for Cr 267.716 Recovery = 99.65%							
Cu 324.752†	116783.3	497.77 µg/L	1.537	497.77 ppb	1.537	0.31%	
QC value within limits for Cu 324.752 Recovery = 99.55%							
Fe 238.204 Radial†	74133.5	5024.8 µg/L	12.59	5024.8 ppb	12.59	0.25%	
QC value within limits for Fe 238.204 Radial Recovery = 100.50%							
K 766.490 Radial†	12531.2	5067.4 µg/L	10.74	5067.4 ppb	10.74	0.21%	
QC value within limits for K 766.490 Radial Recovery = 101.35%							
Mg 279.077 IEC†	12440.8	5138.3 µg/L	24.40	5138.3 ppb	24.40	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 102.77%							
Mn 257.610†	369819.8	499.57 µg/L	1.469	499.57 ppb	1.469	0.29%	
QC value within limits for Mn 257.610 Recovery = 99.91%							
Mo 202.031†	15478.2	499.18 µg/L	2.577	499.18 ppb	2.577	0.52%	
QC value within limits for Mo 202.031 Recovery = 99.84%							
Na 589.592 Radial†	66713.9	10012 µg/L	18.5	10012 ppb	18.5	0.18%	
QC value within limits for Na 589.592 Radial Recovery = 100.12%							
Ni 231.604†	39274.6	502.79 µg/L	1.461	502.79 ppb	1.461	0.29%	
QC value within limits for Ni 231.604 Recovery = 100.56%							
P 214.914†	10452.0	2499.0 µg/L	12.82	2499.0 ppb	12.82	0.51%	
QC value within limits for P 214.914 Recovery = 99.96%							
Pb 220.353†	8120.0	504.51 µg/L	1.536	504.51 ppb	1.536	0.30%	
QC value within limits for Pb 220.353 Recovery = 100.90%							
S 181.975 Axial†	1205.6	1011.9 µg/L	5.80	1011.9 ppb	5.80	0.57%	
QC value within limits for S 181.975 Axial Recovery = 101.19%							
Sb 206.836†	3807.4	499.86 µg/L	3.535	499.86 ppb	3.535	0.71%	
QC value within limits for Sb 206.836 Recovery = 99.97%							
Se 196.026†	1244.6	506 µg/L	5.5	506 ppb	5.5	1.10%	
QC value within limits for Se 196.026 Recovery = 101.29%							
SiO2†	50339.1	5405.4 µg/L	26.30	5405.4 ppb	26.30	0.49%	
QC value within limits for SiO2 Recovery = 101.08%							
Si 251.611†	156257.1	2532.3 µg/L	7.29	2532.3 ppb	7.29	0.29%	
QC value within limits for Si 251.611 Recovery = 101.29%							
Sn 189.927†	7198.3	500.15 µg/L	2.870	500.15 ppb	2.870	0.57%	
QC value within limits for Sn 189.927 Recovery = 100.03%							
Sr 421.552†	223106.3	501.75 µg/L	9.024	501.75 ppb	9.024	1.80%	
QC value within limits for Sr 421.552 Recovery = 100.35%							
Ti 334.940†	490985.3	496.09 µg/L	1.225	496.09 ppb	1.225	0.25%	
QC value within limits for Ti 334.940 Recovery = 99.22%							
Tl 190.801†	3691.9	508.47 µg/L	2.511	508.47 ppb	2.511	0.49%	
QC value within limits for Tl 190.801 Recovery = 101.69%							
U 409.014†	7416.7	502.27 µg/L	4.533	502.27 ppb	4.533	0.90%	
QC value within limits for U 409.014 Recovery = 100.45%							
V 292.402†	92676.7	502.95 µg/L	1.342	502.95 ppb	1.342	0.27%	
QC value within limits for V 292.402 Recovery = 100.59%							
Zn 213.857†	80328.7	498.31 µg/L	1.915	498.31 ppb	1.915	0.38%	
QC value within limits for Zn 213.857 Recovery = 99.66%							
All analyte(s) passed QC.							

Sequence No.: 60

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/31/2010 16:47:03

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	149363.8	149363.8	101 %		16:47:32
1	Al 396.153Radial†	-69.0	-7.2	-1.4393 µg/L	-1.4393 ppb	16:47:52
1	Ca 317.933Radial†	610.0	-2.5	-0.1520 µg/L	-0.1520 ppb	16:47:52
1	Fe 238.204 Radial†	186.4	47.9	3.2480 µg/L	3.2480 ppb	16:47:52
1	K 766.490 Radial†	1647.7	83.8	33.922 µg/L	33.922 ppb	16:47:32
1	Mg 279.077 IEC†	194.7	10.2	4.2226 µg/L	4.2226 ppb	16:47:52
1	Na 589.592 Radial†	1254.5	-75.2	-11.326 µg/L	-11.326 ppb	16:47:32
1	Sr 421.552†	-145.3	134.0	0.3015 µg/L	0.3015 ppb	16:47:32
1	Sc 361.383	1749503.4	1749503.4	99.939 %		16:48:40
1	Y 371.029	1051040.5	1051040.5	99.683 %		16:48:40
1	Ag 328.068†	3664.2	-78.4	-0.3133 µg/L	-0.3133 ppb	16:48:42
1	As 188.979†	-11.6	5.6	1.8637 µg/L	1.8637 ppb	16:49:02
1	B 249.677†	3323.8	43.0	0.7035 µg/L	0.7035 ppb	16:49:02
1	Ba 233.527†	-130.7	23.7	0.1048 µg/L	0.1048 ppb	16:49:02
1	Be 313.107†	-772.5	71.6	0.0208 µg/L	0.0208 ppb	16:48:42
1	Cd 226.502†	-98.7	3.3	0.0232 µg/L	0.0232 ppb	16:49:02
1	Co 228.616†	-169.5	-2.4	-0.0332 µg/L	-0.0332 ppb	16:49:02
1	Cr 267.716†	174.5	13.1	0.1143 µg/L	0.1143 ppb	16:49:02
1	Cu 324.752†	2813.5	-25.1	-0.1077 µg/L	-0.1077 ppb	16:48:42
1	Mn 257.610†	335.7	119.9	0.1618 µg/L	0.1618 ppb	16:49:02
1	Mo 202.031†	-14.7	4.6	0.1492 µg/L	0.1492 ppb	16:49:02
1	Ni 231.604†	-66.7	15.5	0.1989 µg/L	0.1989 ppb	16:49:02
1	P 214.914†	-15.5	-2.0	-0.4670 µg/L	-0.4670 ppb	16:49:02
1	Pb 220.353†	69.6	-5.2	-0.3186 µg/L	-0.3186 ppb	16:49:02
1	S 181.975 Axial†	102.6	-1.5	-1.2818 µg/L	-1.2818 ppb	16:49:02
1	Sb 206.836†	80.0	6.8	0.8967 µg/L	0.8967 ppb	16:49:02
1	Se 196.026†	22.1	9.6	3.88 µg/L	3.88 ppb	16:49:02
1	SiO2†	1685.3	-22.9	-2.4773 µg/L	-2.4773 ppb	16:49:02
1	Si 251.611†	886.5	-0.3	-0.0104 µg/L	-0.0104 ppb	16:48:42
1	Sn 189.927†	6.8	7.1	0.4933 µg/L	0.4933 ppb	16:49:02
1	Ti 334.940†	846.8	88.0	0.0894 µg/L	0.0894 ppb	16:48:42
1	Tl 190.801†	-104.6	8.6	1.1666 µg/L	1.1666 ppb	16:49:02
1	U 409.014†	-244.9	-29.4	-1.8454 µg/L	-1.8454 ppb	16:48:42
1	V 292.402†	406.8	92.1	0.4935 µg/L	0.4935 ppb	16:48:42
1	Zn 213.857†	609.7	80.0	0.4985 µg/L	0.4985 ppb	16:49:02
2	Sc RADIAL	146544.3	146544.3	99.0 %		16:47:54
2	Al 396.153Radial†	-58.9	1.7	0.3250 µg/L	0.3250 ppb	16:48:14
2	Ca 317.933Radial†	595.2	-5.8	-0.3517 µg/L	-0.3517 ppb	16:48:14
2	Fe 238.204 Radial†	179.8	44.8	3.0367 µg/L	3.0367 ppb	16:48:14
2	K 766.490 Radial†	1717.1	185.4	75.015 µg/L	75.015 ppb	16:47:54
2	Mg 279.077 IEC†	152.6	-28.5	-11.748 µg/L	-11.748 ppb	16:48:14
2	Na 589.592 Radial†	1262.7	-43.0	-6.5302 µg/L	-6.5302 ppb	16:47:54
2	Sr 421.552†	-281.8	-6.7	-0.0150 µg/L	-0.0150 ppb	16:47:54
2	Sc 361.383	1755043.2	1755043.2	100.26 %		16:49:04
2	Y 371.029	1053831.1	1053831.1	99.948 %		16:49:04
2	Ag 328.068†	3982.4	227.4	0.9107 µg/L	0.9107 ppb	16:49:06
2	As 188.979†	-12.3	4.9	1.6390 µg/L	1.6390 ppb	16:49:27
2	B 249.677†	3285.9	-5.3	-0.0863 µg/L	-0.0863 ppb	16:49:27
2	Ba 233.527†	-109.0	45.7	0.2018 µg/L	0.2018 ppb	16:49:27
2	Be 313.107†	-645.5	200.8	0.0584 µg/L	0.0584 ppb	16:49:06
2	Cd 226.502†	-98.0	4.4	0.0306 µg/L	0.0306 ppb	16:49:27
2	Co 228.616†	-175.6	-8.0	-0.1093 µg/L	-0.1093 ppb	16:49:27
2	Cr 267.716†	170.9	8.9	0.0800 µg/L	0.0800 ppb	16:49:27
2	Cu 324.752†	2842.6	-4.9	-0.0245 µg/L	-0.0245 ppb	16:49:06
2	Mn 257.610†	364.2	147.2	0.1993 µg/L	0.1993 ppb	16:49:27
2	Mo 202.031†	-5.2	14.2	0.4562 µg/L	0.4562 ppb	16:49:27
2	Ni 231.604†	-74.0	8.5	0.1092 µg/L	0.1092 ppb	16:49:27
2	P 214.914†	-15.5	-1.9	-0.4581 µg/L	-0.4581 ppb	16:49:27
2	Pb 220.353†	108.7	33.7	2.0891 µg/L	2.0891 ppb	16:49:27

2	S 181.975 Axial†	87.4	-17.0	-14.236 µg/L	-14.236 ppb	16:49:27
2	Sb 206.836†	72.3	-1.1	-0.1345 µg/L	-0.1345 ppb	16:49:27
2	Se 196.026†	2.8	-9.8	-3.98 µg/L	-3.98 ppb	16:49:27
2	SiO2†	1711.9	-1.8	-0.2099 µg/L	-0.2099 ppb	16:49:27
2	Si 251.611†	884.4	-5.2	-0.0946 µg/L	-0.0946 ppb	16:49:06
2	Sn 189.927†	7.6	7.9	0.5478 µg/L	0.5478 ppb	16:49:27
2	Ti 334.940†	831.0	69.6	0.0732 µg/L	0.0732 ppb	16:49:06
2	Tl 190.801†	-119.4	-5.9	-0.8039 µg/L	-0.8039 ppb	16:49:27
2	U 409.014†	-288.2	-71.9	-4.5826 µg/L	-4.5826 ppb	16:49:06
2	V 292.402†	283.2	-32.5	-0.1727 µg/L	-0.1727 ppb	16:49:06
2	Zn 213.857†	573.6	42.1	0.2623 µg/L	0.2623 ppb	16:49:27
3	Sc RADIAL	147100.3	147100.3	99.3 %		16:48:16
3	Al 396.153Radial†	-38.0	23.0	4.5718 µg/L	4.5718 ppb	16:48:36
3	Ca 317.933Radial†	630.9	27.9	1.7056 µg/L	1.7056 ppb	16:48:36
3	Fe 238.204 Radial†	181.0	45.4	3.0759 µg/L	3.0759 ppb	16:48:36
3	K 766.490 Radial†	1607.0	67.9	27.496 µg/L	27.496 ppb	16:48:16
3	Mg 279.077 IEC†	184.8	3.3	1.3472 µg/L	1.3472 ppb	16:48:36
3	Na 589.592 Radial†	1305.9	-4.4	-0.6842 µg/L	-0.6842 ppb	16:48:16
3	Sr 421.552†	-239.7	36.8	0.0828 µg/L	0.0828 ppb	16:48:16
3	Sc 361.383	1745027.6	1745027.6	99.683 %		16:49:29
3	Y 371.029	1048628.6	1048628.6	99.454 %		16:49:29
3	Ag 328.068†	3687.6	-45.5	-0.1973 µg/L	-0.1973 ppb	16:49:31
3	As 188.979†	-11.5	5.5	1.8649 µg/L	1.8649 ppb	16:49:51
3	B 249.677†	3296.0	23.6	0.3856 µg/L	0.3856 ppb	16:49:51
3	Ba 233.527†	-71.1	83.1	0.3667 µg/L	0.3667 ppb	16:49:51
3	Be 313.107†	-489.9	353.2	0.1024 µg/L	0.1024 ppb	16:49:31
3	Cd 226.502†	-65.6	36.4	0.2546 µg/L	0.2546 ppb	16:49:51
3	Co 228.616†	-137.6	29.2	0.3997 µg/L	0.3997 ppb	16:49:51
3	Cr 267.716†	223.2	62.3	0.5438 µg/L	0.5438 ppb	16:49:51
3	Cu 324.752†	2799.6	-31.8	-0.1418 µg/L	-0.1418 ppb	16:49:31
3	Mn 257.610†	583.6	369.4	0.4992 µg/L	0.4992 ppb	16:49:51
3	Mo 202.031†	-9.2	10.1	0.3260 µg/L	0.3260 ppb	16:49:51
3	Ni 231.604†	-64.4	17.7	0.2263 µg/L	0.2263 ppb	16:49:51
3	P 214.914†	-10.6	3.0	0.7286 µg/L	0.7286 ppb	16:49:51
3	Pb 220.353†	76.1	1.5	0.1010 µg/L	0.1010 ppb	16:49:51
3	S 181.975 Axial†	94.4	-9.5	-7.9232 µg/L	-7.9232 ppb	16:49:51
3	Sb 206.836†	80.0	7.0	0.9149 µg/L	0.9149 ppb	16:49:51
3	Se 196.026†	22.5	10.0	4.03 µg/L	4.03 ppb	16:49:51
3	SiO2†	1763.9	60.3	6.4680 µg/L	6.4680 ppb	16:49:51
3	Si 251.611†	963.7	79.4	1.2771 µg/L	1.2771 ppb	16:49:31
3	Sn 189.927†	22.6	22.9	1.5882 µg/L	1.5882 ppb	16:49:51
3	Ti 334.940†	1122.5	366.8	0.3746 µg/L	0.3746 ppb	16:49:31
3	Tl 190.801†	-121.9	-9.1	-1.2286 µg/L	-1.2286 ppb	16:49:51
3	U 409.014†	-357.8	-143.3	-9.1287 µg/L	-9.1287 ppb	16:49:31
3	V 292.402†	281.7	-32.4	-0.1745 µg/L	-0.1745 ppb	16:49:31
3	Zn 213.857†	632.0	103.9	0.6482 µg/L	0.6482 ppb	16:49:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1749858.1	99.959 %	0.2866			0.29%
Sc RADIAL	147669.5	99.7 %	1.01			1.01%
Y 371.029	1051166.7	99.695 %	0.2469			0.25%
Ag 328.068†	34.5	0.1334 µg/L	0.67569	0.1334 ppb	0.67569	506.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.9	1.1525 µg/L	3.08982	1.1525 ppb	3.08982	268.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.3	1.7892 µg/L	0.13004	1.7892 ppb	0.13004	7.27%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	20.4	0.3343 µg/L	0.39740	0.3343 ppb	0.39740	118.89%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	50.9	0.2244 µg/L	0.13242	0.2244 ppb	0.13242	59.00%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	208.5	0.0605 µg/L	0.04086	0.0605 ppb	0.04086	67.52%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	6.6	0.4006 µg/L	1.13453	0.4006 ppb	1.13453	283.18%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	14.7	0.1028 µg/L	0.13150	0.1028 ppb	0.13150	127.94%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.3	0.0857 µg/L	0.27454	0.0857 ppb	0.27454	320.28%

QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	28.1	0.2461 µg/L	0.25844	0.2461 ppb	0.25844	105.03%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-20.6	-0.0913 µg/L	0.06033	-0.0913 ppb	0.06033	66.07%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	46.0	3.1202 µg/L	0.11237	3.1202 ppb	0.11237	3.60%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	112.4	45.478 µg/L	25.7811	45.478 ppb	25.7811	56.69%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-5.0	-2.0595 µg/L	8.51308	-2.0595 ppb	8.51308	413.35%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	212.1	0.2868 µg/L	0.18490	0.2868 ppb	0.18490	64.48%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.6	0.3105 µg/L	0.15407	0.3105 ppb	0.15407	49.63%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-40.9	-6.1802 µg/L	5.32961	-6.1802 ppb	5.32961	86.24%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.9	0.1781 µg/L	0.06129	0.1781 ppb	0.06129	34.40%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.3	-0.0655 µg/L	0.68769	-0.0655 ppb	0.68769	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	10.0	0.6238 µg/L	1.28619	0.6238 ppb	1.28619	206.17%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-9.4	-7.8138 µg/L	6.47791	-7.8138 ppb	6.47791	82.90%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.3	0.5590 µg/L	0.60072	0.5590 ppb	0.60072	107.45%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.2	1.31 µg/L	4.583	1.31 ppb	4.583	349.53%	
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†	11.9	1.2603 µg/L	4.65034	1.2603 ppb	4.65034	368.99%	
QC value within limits for SiO2 Recovery = Not calculated							
Si 251.611†	24.6	0.3907 µg/L	0.76877	0.3907 ppb	0.76877	196.76%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	12.6	0.8764 µg/L	0.61700	0.8764 ppb	0.61700	70.40%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	54.7	0.1231 µg/L	0.16202	0.1231 ppb	0.16202	131.64%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	174.8	0.1791 µg/L	0.16951	0.1791 ppb	0.16951	94.66%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.1	-0.2886 µg/L	1.27805	-0.2886 ppb	1.27805	442.79%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-81.5	-5.1856 µg/L	3.67891	-5.1856 ppb	3.67891	70.94%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	9.1	0.0488 µg/L	0.38517	0.0488 ppb	0.38517	789.94%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	75.3	0.4697 µg/L	0.19454	0.4697 ppb	0.19454	41.42%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Sunday, April 18, 2010 11:55:48

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.8280

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	929.8	929.830	21.662	2.3
Mg	24.0	5360.2	5360.206	104.847	2.0
Co	58.9	14278.7	14278.734	269.981	1.9
Rh	102.9	49629.5	49629.461	279.619	0.6
In	114.9	61062.0	61062.023	244.732	0.4
Pb	208.0	54113.9	54113.901	349.181	0.6
[> Ba	137.9	58787.5	58787.475	182.783	0.3
[Ba++	69.0	895.4	0.015	0.000	1.3
[> Ce	139.9	74576.2	74576.174	942.894	1.3
[CeO	155.9	1905.1	0.026	0.000	1.7
Bkgd	220.0	2.2	2.200	0.570	25.9

Current Optimization File Data

Current Value	Description
1.09	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1975.00	Analog Stage Voltage
1400.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	0		
Co	59	0		
In	115	0		

ICPMS#3 Instrument Tuning Report

File Name: 100418.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	582	2060	0.627
Be	9.0	9.0	2059	2040	0.652
Mg	24.0	24.0	5714	2110	0.586
Mg	25.0	25.0	5913	2020	0.656
Mg	26.0	26.0	6220	2140	0.612
Co	58.9	58.9	14200	2115	0.615
Rh	102.9	102.9	24909	2165	0.640
In	114.9	114.9	27822	2180	0.626
Ce	139.9	139.8	33910	2220	0.605
Pb	206.0	206.0	49991	2280	0.615
Pb	207.0	207.0	50284	2310	0.635
Pb	208.0	208.0	50474	2300	0.616
U	238.1	238.0	57845	2340	0.647

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Sunday, April 18, 2010 12:14:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\Blank.001

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	ug/L		2	
45	ug/L		307298		

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Simple Linear	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9				
45					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, April 18, 2010 12:16:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\Standard 1.002

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	10.000	ug/L	10.330	1217	0.004
Sc	45		ug/L		303727	303726.642

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45										

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, April 18, 2010 12:18:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\Standard 2.003

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.920	ug/L	10.315	10323	0.037
Sc	45		ug/L		278887	278886.777

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45										

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, April 18, 2010 12:20:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 1.004

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.589 ug/L	11.508	5294	0.019
Sc	45	ug/L		282265	282265.046

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9	101.177								
Sc	45			91.9						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, April 18, 2010 12:22:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 2.005

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.011	ug/L	116.213	3	0.000
Sc	45		ug/L		294534	294533.958

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				95.8						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, April 18, 2010 12:24:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 3.006

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	0.552	ug/L	21.798	61	0.000
Sc 45		ug/L		286868	286867.949

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
Be 9		110.388							
Sc 45				93.4					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, April 18, 2010 12:26:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 4.007

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.111	ug/L	45.208	10	0.000
Sc	45		ug/L		203085	203085.106

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				66.1						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for QC	Sc	45	

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Sunday, April 18, 2010 12:28:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 5.008

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	20.562	ug/L	9.735	2161	0.008
Sc 45		ug/L		283687	283687.402

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
Be 9		102.809							
Sc 45				92.3					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, April 18, 2010 12:30:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 6.009

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	49.503	ug/L	9.921	5120	0.018
Sc 45		ug/L		279162	279161.976

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
Be 9		99.006							
Sc 45				90.8					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, April 18, 2010 12:32:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 7.010

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.018	ug/L	68.801	4	0.000
Sc	45		ug/L		285672	285671.839

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		93.0			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062399

Sample Date/Time: Sunday, April 18, 2010 12:34:31

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062399.011

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	0.018	ug/L	99.931	4	0.000
Sc 45		ug/L		283719	283718.557

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		92.3			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062400

Sample Date/Time: Sunday, April 18, 2010 12:36:32

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 961535|40|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062400.012

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	22.288	ug/L	8.549	2351	0.008
Sc 45		ug/L		284846	284845.697

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9							
Sc 45				92.7			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511001

Sample Date/Time: Sunday, April 18, 2010 12:38:34

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511001.013

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	2.599	ug/L	14.468	258	0.001
Sc 45		ug/L		265560	265560.032

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be 9										
Sc 45						86.4				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062401

Sample Date/Time: Sunday, April 18, 2010 12:40:36

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062401.014

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.494	ug/L	4.838	253	0.001
Sc	45		ug/L		272017	272017.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45					88.5					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062402

Sample Date/Time: Sunday, April 18, 2010 12:42:38

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062402.015

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	21.680	ug/L	7.852	2164	0.008
Sc 45		ug/L		269610	269609.665

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		87.7			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062404

Sample Date/Time: Sunday, April 18, 2010 12:44:41

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 961535[2]prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062404.016

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9	22.365	ug/L	11.042	2231	0.008
	ug/L		268995	268994.625	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be 9					
	87.5				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202062403

Sample Date/Time: Sunday, April 18, 2010 12:46:45

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 961535|10|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\1202062403.017

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	0.606	ug/L	10.406	65	0.000
Sc 45		ug/L		280204	280204.308

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		91.2			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, April 18, 2010 12:48:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 6.018

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	48.393	ug/L	10.264	4973	0.018
45		ug/L		277347	277346.625	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
[Be	9		96.786							
45				90.3						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, April 18, 2010 12:50:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 7.019

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.004	ug/L	447.774	3	0.000
Sc	45		ug/L		288193	288193.108

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				93.8						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511002

Sample Date/Time: Sunday, April 18, 2010 12:52:54

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511002.020

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.689 ug/L	8.539	167	0.001
Sc	45	ug/L		264575	264575.084

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	86.1			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511003

Sample Date/Time: Sunday, April 18, 2010 12:54:55

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511003.021

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.120	ug/L	13.845	212	0.001
Sc	45		ug/L		267179	267178.515

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		86.9			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511004

Sample Date/Time: Sunday, April 18, 2010 12:56:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511004.022

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.651	ug/L	6.867	167	0.001
Sc	45		ug/L		270897	270896.685

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45						88.2				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511005

Sample Date/Time: Sunday, April 18, 2010 12:59:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511005.023

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	1.912	ug/L	17.573	188	0.001
45		ug/L		262327	262327.259	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[Be	9										
45				85.4							

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511006

Sample Date/Time: Sunday, April 18, 2010 13:01:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511006.024

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	1.740	ug/L	23.053	177	0.001
Sc 45		ug/L		270849	270849.231

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		88.1			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511007

Sample Date/Time: Sunday, April 18, 2010 13:03:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511007.025

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.942	ug/L	5.142	189	0.001
Sc	45		ug/L		261170	261170.052

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		85.0			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511008

Sample Date/Time: Sunday, April 18, 2010 13:05:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511008.026

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.877	ug/L	11.950	183	0.001
Sc	45		ug/L		260756	260756.471

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		84.9			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511009

Sample Date/Time: Sunday, April 18, 2010 13:07:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511009.027

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be 9	2.147	ug/L	4.964	212	0.001
Sc 45		ug/L		264482	264482.432

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be 9					
Sc 45		86.1			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511010

Sample Date/Time: Sunday, April 18, 2010 13:09:16

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511010.028

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.981	ug/L	17.673	195	0.001
Sc	45		ug/L		262049	262048.561

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				85.3						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, April 18, 2010 13:11:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 6.029

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	49.706	ug/L	10.588	5048	0.018
45		ug/L		274152	274152.287	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
[Be	9		99.413							
45				89.2						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, April 18, 2010 13:13:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 7.030

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.023	ug/L	55.633	5	0.000
Sc	45		ug/L		285553	285552.553

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		92.9			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511011

Sample Date/Time: Sunday, April 18, 2010 13:15:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511011.031

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.847 ug/L	11.663	177	0.001
Sc	45	ug/L		256318	256317.734

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	83.4			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511012

Sample Date/Time: Sunday, April 18, 2010 13:17:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511012.032

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be 9	2.178	ug/L	13.086	213	0.001
	ug/L		260750	260750.061	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be 9					
	84.9				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511013

Sample Date/Time: Sunday, April 18, 2010 13:19:31

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511013.033

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.103	ug/L	11.444	209	0.001
Sc	45		ug/L		266387	266387.132

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		86.7			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511014

Sample Date/Time: Sunday, April 18, 2010 13:21:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511014.034

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.299 ug/L	4.736	231	0.001
Sc	45	ug/L		269223	269222.642

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9									
Sc	45			87.6						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511015

Sample Date/Time: Sunday, April 18, 2010 13:23:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511015.035

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.849	ug/L	7.789	281	0.001
Sc	45		ug/L		264497	264497.242

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup.	Rel. % Diff
Be	9										
Sc	45				86.1						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511016

Sample Date/Time: Sunday, April 18, 2010 13:25:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511016.036

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.765	ug/L	15.811	277	0.001
Sc	45		ug/L		268183	268183.430

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		87.3			

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511017

Sample Date/Time: Sunday, April 18, 2010 13:27:46

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511017.037

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.350 ug/L	12.051	232	0.001
Sc	45	ug/L		264749	264749.197

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	86.2			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511018

Sample Date/Time: Sunday, April 18, 2010 13:29:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511018.038

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.675	ug/L	7.963	357	0.001
45		ug/L		261519	261519.022	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
45		85.1				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511019

Sample Date/Time: Sunday, April 18, 2010 13:31:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511019.039

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.638 ug/L	14.435	163	0.001
Sc	45	ug/L		264973	264972.984

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9				
Sc	45	86.2			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 248511020

Sample Date/Time: Sunday, April 18, 2010 13:33:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|prb

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\248511020.040

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	2.124	ug/L	19.929	212	0.001
Sc	45		ug/L		265739	265738.845

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
Be	9					
Sc	45		86.5			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, April 18, 2010 13:36:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 6.041

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	49.039 ug/L	11.234	4883	0.018
Sc	45	ug/L		268774	268773.694

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
Be	9	98.077							
Sc	45			87.5					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, April 18, 2010 13:38:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be only.mth

Dataset File: C:\elandata\Dataset\100418\QC Std 7.042

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.013	ug/L	133.475	3	0.000
Sc	45		ug/L		276773	276773.483

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
Be	9										
Sc	45				90.1						

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, April 17, 2010 13:13:50

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100125\Sample.725

Tuning File: c:\elandata\Tuning\default2.tun

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

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	1004.6	1004.635	21.653	2.2
Mg	24.0	14169.0	14169.034	614.547	4.3
Co	58.9	31069.4	31069.350	209.958	0.7
Rh	102.9	61997.0	61997.044	544.326	0.9
In	114.9	73944.7	73944.696	773.410	1.0
Pb	208.0	25254.5	25254.506	356.736	1.4
[> Ba	137.9	70952.2	70952.200	833.292	1.2
[Ba++	69.0	1017.5	0.014	0.000	3.1
[> Ce	139.9	83012.3	83012.342	1390.987	1.7
[CeO	155.9	1267.7	0.015	0.000	1.4
Bkgd	220.0	9.3	9.300	1.924	20.7

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
4.25	Lens Voltage
1000.00	ICP RF Power
-1750.00	Analog Stage Voltage
1100.00	Pulse Stage Voltage
50.00	Discriminator Threshold
-2.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	4.8	965.4
Co	59	13	5.3	28399.9
In	115	13	5.8	65405.0

ICPMS #4 TUNING REPORT

File Name: 100417.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	607	2080	0.587
Be	9.0	9.0	2049	2080	0.597
Mg	24.0	24.0	5673	2100	0.536
Mg	25.0	24.9	5949	2100	0.621
Mg	26.0	26.0	6126	2120	0.556
Co	58.9	58.8	14165	2150	0.607
Rh	102.9	102.9	24870	2240	0.589
In	114.9	114.9	27794	2275	0.596
Ce	139.9	139.9	33856	2310	0.618
Pb	206.0	206.0	49922	2485	0.644
Pb	207.0	207.0	50125	2400	0.645
Pb	208.0	208.0	50448	2510	0.710
U	238.1	238.1	57707	2520	0.641

ICPMS#4 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, April 17, 2010 13:37:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\Blank.918

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	ug/L		6	
|>	Sc	45	ug/L		536090	
[	Ni	60	ug/L		43	
[>	Ge	74	ug/L		185309	
|	As	75	ug/L		198	
|	Se	77	ug/L		4189	
|	Se	82	ug/L		10	
[	Kr	83	ug/L		49	
[>	Lu	175	ug/L		93421	
|	Tl	205	ug/L		139	
[	U	238	ug/L		88	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Simple Linear	
Ni	60Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45				
[	Ni	60				
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175				
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, April 17, 2010 13:41:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\Standard 1.919

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	10.000	ug/L	5.023	980	0.002
|>	Sc 45		ug/L		547614	547613.509
[	Ni 60	10.000	ug/L	3.999	6755	0.012
[>	Ge 74		ug/L		198049	198048.721
|	As 75	10.000	ug/L	6.184	4688	0.023
|	Se 77		ug/L		3057	-0.007
|	Se 82	10.000	ug/L	3.140	422	0.002
[	Kr 83		ug/L		50	-0.000
[>	Lu 175		ug/L		96939	96938.778
|	Tl 205	10.000	ug/L	1.691	13195	0.135
[	U 238	10.000	ug/L	3.093	52354	0.539

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45				
[	Ni	60				
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175				
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, April 17, 2010 13:45:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil short list.mth

Dataset File: c:\elandata\Dataset\100408\Standard 2.920

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	99.982 ug/L	9.022	9865	0.018
|>	Sc	45	ug/L		565099	565099.015
[	Ni	60	99.923 ug/L	6.534	64218	0.114
[>	Ge	74	ug/L		197440	197440.229
|	As	75	100.070 ug/L	2.530	48204	0.243
|	Se	77	ug/L		6048	0.008
|	Se	82	100.094 ug/L	1.047	4541	0.023
[	Kr	83	ug/L		50	-0.000
[>	Lu	175	ug/L		98239	98238.605
|	Tl	205	99.990 ug/L	1.155	131100	1.333
[	U	238	99.968 ug/L	0.674	513261	5.224

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45				
[	Ni	60				
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175				
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, April 17, 2010 13:49:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 1.921

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	51.804	ug/L	5.755	5064	0.009
|> Sc	45		ug/L		558596	558595.758
[Ni	60	52.956	ug/L	5.269	33693	0.060
[> Ge	74		ug/L		197536	197536.265
| As	75	51.841	ug/L	4.073	25081	0.126
| Se	77		ug/L		5267	0.004
| Se	82	52.515	ug/L	3.786	2387	0.012
[Kr	83		ug/L		48	-0.000
[> Lu	175		ug/L		96886	96885.758
| Tl	205	49.719	ug/L	1.329	64356	0.663
[U	238	53.253	ug/L	1.774	269662	2.783

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	103.608				
|>	Sc	45		104.2			
[	Ni	60	105.912				
[>	Ge	74		106.6			
|	As	75	103.682				
|	Se	77					
|	Se	82	105.031				
[	Kr	83					
[>	Lu	175		103.7			
|	Tl	205	99.438				
[	U	238	106.507				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, April 17, 2010 13:53:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 2.922

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.008	ug/L	448.302	5	-0.000
|>	Sc 45		ug/L		540370	540369.809
[	Ni 60	0.029	ug/L	7.699	61	0.000
[>	Ge 74		ug/L		189335	189335.490
|	As 75	-0.661	ug/L	53.668	-102	-0.002
|	Se 77		ug/L		4445	0.001
|	Se 82	0.104	ug/L	103.796	15	0.000
[	Kr 83		ug/L		47	-0.000
[>	Lu 175		ug/L		93563	93563.326
|	Tl 205	0.058	ug/L	3.307	212	0.001
[	U 238	0.010	ug/L	15.101	138	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	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		100.8		
[	Ni	60				
[>	Ge	74		102.2		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		100.2		
[	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, April 17, 2010 13:57:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 3.923

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.499	ug/L	33.392	58	0.000
|>	Sc 45		ug/L		586596	586595.647
[	Ni 60	2.310	ug/L	3.704	1590	0.003
[>	Ge 74		ug/L		197527	197526.954
|	As 75	5.707	ug/L	5.658	2951	0.014
|	Se 77		ug/L		3111	-0.007
|	Se 82	5.439	ug/L	3.673	257	0.001
[	Kr 83		ug/L		54	0.000
[>	Lu 175		ug/L		96603	96602.551
|	Tl 205	1.099	ug/L	2.962	1559	0.015
[	U 238	0.274	ug/L	0.535	1472	0.014

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	99.749				
>	Sc	45		109.4			
[	Ni	60	115.481				
>	Ge	74		106.6			
|	As	75	114.142				
|	Se	77					
|	Se	82	108.788				
[	Kr	83					
>	Lu	175		103.4			
|	Tl	205	109.918				
[	U	238	136.774				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, April 17, 2010 14:01:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 4.924

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.073	ug/L	31.942	15	0.000
|>	Sc 45		ug/L		611488	611487.726
[	Ni 60	2.601	ug/L	2.504	1860	0.003
[>	Ge 74		ug/L		196152	196152.177
|	As 75	-0.642	ug/L	95.452	-95	-0.002
|	Se 77		ug/L		3109	-0.007
|	Se 82	-0.190	ug/L	94.342	2	-0.000
[	Kr 83		ug/L		85	0.000
[>	Lu 175		ug/L		98779	98778.983
|	Tl 205	-0.006	ug/L	263.859	139	-0.000
[	U 238	0.001	ug/L	465.622	98	0.000

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			114.1		
[	Ni	60	78.572				
[>	Ge	74			105.9		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			105.7		
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, April 17, 2010 14:06:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 5.925

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	18.882	ug/L	2.815	1869	0.003
|>	Sc 45		ug/L		563345	563345.314
[	Ni 60	21.473	ug/L	2.755	13826	0.024
[>	Ge 74		ug/L		191833	191833.466
|	As 75	21.228	ug/L	2.124	10098	0.052
|	Se 77		ug/L		3782	-0.003
|	Se 82	23.394	ug/L	2.842	1039	0.005
[	Kr 83		ug/L		97	0.000
[>	Lu 175		ug/L		96789	96789.080
|	Tl 205	18.417	ug/L	2.811	23910	0.246
[	U 238	20.064	ug/L	0.633	101569	1.048

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	94.411				
[>	Sc	45		105.1			
[	Ni	60	92.118				
[>	Ge	74		103.5			
[	As	75	106.139				
[	Se	77					
[	Se	82	116.971				
[	Kr	83					
[>	Lu	175		103.6			
[	Tl	205	92.085				
[	U	238	100.319				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 14:10:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.926

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	47.347	ug/L	3.139	5075	0.008
|>	Sc 45		ug/L		611594	611594.074
[	Ni 60	48.954	ug/L	4.468	34142	0.056
[>	Ge 74		ug/L		203355	203354.732
|	As 75	51.924	ug/L	2.162	25873	0.126
|	Se 77		ug/L		5293	0.003
|	Se 82	52.783	ug/L	1.692	2472	0.012
[	Kr 83		ug/L		49	-0.000
[>	Lu 175		ug/L		99696	99696.363
|	Tl 205	49.351	ug/L	2.482	65727	0.658
[	U 238	52.439	ug/L	1.456	273254	2.740

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	94.695				
|>	Sc	45		114.1			
[	Ni	60	97.907				
[>	Ge	74		109.7			
|	As	75	103.848				
|	Se	77					
|	Se	82	105.566				
[	Kr	83					
[>	Lu	175		106.7			
|	Tl	205	98.702				
[	U	238	104.878				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 14:14:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.927

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.001	ug/L	1957.525	6	0.000
|>	Sc 45		ug/L		558227	558227.317
[	Ni 60	0.023	ug/L	17.919	60	0.000
[>	Ge 74		ug/L		194362	194362.308
|	As 75	-0.094	ug/L	411.448	163	-0.000
|	Se 77		ug/L		4410	0.000
|	Se 82	0.214	ug/L	120.170	20	0.000
[	Kr 83		ug/L		47	-0.000
[>	Lu 175		ug/L		94380	94380.025
|	Tl 205	0.064	ug/L	9.459	221	0.001
[	U 238	0.008	ug/L	73.208	130	0.000

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45		104.1		
[	Ni	60				
>	Ge	74		104.9		
[	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
>	Lu	175		101.0		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Saturday, April 17, 2010 14:18:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 10.928

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	965.851	ug/L	3.262	94561	0.169
|>	Sc 45		ug/L		559309	559309.347
[	Ni 60	937.440	ug/L	2.051	597340	1.068
[>	Ge 74		ug/L		196187	196186.578
|	As 75	960.735	ug/L	1.616	458178	2.334
|	Se 77		ug/L		19559	0.077
|	Se 82	491.870	ug/L	1.074	22130	0.113
[	Kr 83		ug/L		63	0.000
[>	Lu 175		ug/L		99222	99221.818
|	Tl 205	464.716	ug/L	1.878	614712	6.195
[	U 238	5038.317	ug/L	2.922	26111374	263.274

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	96.585	.			
|>	Sc	45			104.3		
[	Ni	60	93.744				
[>	Ge	74			105.9		
|	As	75	96.073				
|	Se	77					
|	Se	82	98.374				
[	Kr	83					
[>	Lu	175			106.2		
|	Ti	205	92.943				
[	U	238	100.766				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Saturday, April 17, 2010 14:22:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 11.929

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	48.038	ug/L	7.175	4974	0.008
|>	Sc 45		ug/L		592345	592344.571
[	Ni 60	49.820	ug/L	7.453	33564	0.057
[>	Ge 74		ug/L		202388	202387.986
|	As 75	51.252	ug/L	3.882	25413	0.125
|	Se 77		ug/L		5332	0.004
|	Se 82	51.985	ug/L	3.521	2422	0.012
[	Kr 83		ug/L		57	0.000
[>	Lu 175		ug/L		99351	99351.009
|	Tl 205	50.911	ug/L	1.052	67570	0.679
[	U 238	53.236	ug/L	2.066	276415	2.782

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	96.076				
|>	Sc	45		110.5			
[	Ni	60	99.640				
[>	Ge	74		109.2			
|	As	75	102.503				
|	Se	77					
|	Se	82	103.970				
[	Kr	83					
[>	Lu	175		106.3			
|	Tl	205	101.822				
[	U	238	106.473				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Saturday, April 17, 2010 14:26:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 12.930

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.008	ug/L	208.539	6	-0.000
|> Sc	45		ug/L		576536	576535.790
[Ni	60	0.034	ug/L	70.954	68	0.000
[> Ge	74		ug/L		191838	191838.248
| As	75	-0.567	ug/L	50.353	-59	-0.001
| Se	77		ug/L		4413	0.000
| Se	82	0.300	ug/L	118.475	24	0.000
[Kr	83		ug/L		54	0.000
[> Lu	175		ug/L		94214	94213.949
| Tl	205	0.215	ug/L	9.284	410	0.003
[U	238	0.200	ug/L	13.437	1073	0.010

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			107.5		
|	Ni	60					
[>	Ge	74			103.5		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			100.8		
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 15:00:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.938

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	52.953	ug/L	2.584	5019	0.009
[>	Sc 45		ug/L		540901	540901.054
[	Ni 60	52.655	ug/L	5.101	32464	0.060
[>	Ge 74		ug/L		194135	194135.239
[	As 75	51.611	ug/L	3.188	24547	0.125
[	Se 77		ug/L		5509	0.006
[	Se 82	52.139	ug/L	3.886	2330	0.012
[	Kr 83		ug/L		50	-0.000
[>	Lu 175		ug/L		99680	99680.273
[	Tl 205	50.508	ug/L	2.039	67253	0.673
[	U 238	53.392	ug/L	0.467	278193	2.790

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	105.905				
[>	Sc	45		100.9			
[	Ni	60	105.310				
[>	Ge	74		104.8			
|	As	75	103.223				
|	Se	77					
|	Se	82	104.277				
[	Kr	83					
[>	Lu	175		106.7			
|	Tl	205	101.015				
[	U	238	106.785				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 15:04:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nani soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.939

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.019	ug/L	197.555	8	0.000
|>	Sc 45		ug/L		572558	572557.710
[	Ni 60	0.016	ug/L	74.730	56	0.000
[>	Ge 74		ug/L		192983	192982.985
|	As 75	-0.107	ug/L	691.614	160	-0.000
|	Se 77		ug/L		4687	0.002
|	Se 82	-0.008	ug/L	2069.009	10	-0.000
[	Kr 83		ug/L		50	-0.000
[>	Lu 175		ug/L		99432	99432.498
|	Tl 205	0.050	ug/L	44.371	214	0.001
[	U 238	0.030	ug/L	24.539	249	0.002

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			106.8		
[	Ni	60					
[>	Ge	74			104.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			106.4		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 15:50:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.950

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	55.728	ug/L	1.679	4932	0.010
|>	Sc 45		ug/L		504867	504867.313
[	Ni 60	52.762	ug/L	0.812	30396	0.060
[>	Ge 74		ug/L		184989	184988.970
|	As 75	51.422	ug/L	1.785	23309	0.125
|	Se 77		ug/L		4687	0.003
|	Se 82	51.402	ug/L	5.057	2189	0.012
[	Kr 83		ug/L		43	-0.000
[>	Lu 175		ug/L		97578	97578.090
|	Ti 205	50.176	ug/L	1.037	65417	0.669
[	U 238	54.554	ug/L	1.676	278254	2.851

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	Be		9	111.456								
[>	Sc		45					94.2				
[	Ni		60	105.523								
[>	Ge		74					99.8				
[	As		75	102.844								
[	Se		77									
[	Se		82	102.804								
[	Kr		83									
[>	Lu		175					104.4				
[	Tl		205	100.352								
[	U		238	109.107								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be		9CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 15:54:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.951

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.014	ug/L	217.274	7	0.000
|>	Sc 45		ug/L		490530	490529.906
[	Ni 60	0.035	ug/L	34.799	59	0.000
[>	Ge 74		ug/L		179938	179937.930
|	As 75	0.003	ug/L	9325.722	194	0.000
|	Se 77		ug/L		3725	-0.002
|	Se 82	-0.178	ug/L	209.689	2	-0.000
[	Kr 83		ug/L		45	-0.000
[>	Lu 175		ug/L		95584	95584.353
|	Tl 205	0.030	ug/L	4.682	180	0.000
[	U 238	0.022	ug/L	11.555	198	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	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45		91.5		
[	Ni	60				
>	Ge	74		97.1		
[	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
>	Lu	175		102.3		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 16:35:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.961

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	56.119	ug/L	0.796	4828	0.010
|>	Sc 45		ug/L		490718	490717.932
[	Ni 60	51.835	ug/L	1.338	29026	0.059
[>	Ge 74		ug/L		178899	178899.327
|	As 75	50.657	ug/L	0.551	22211	0.123
|	Se 77		ug/L		4534	0.003
|	Se 82	50.413	ug/L	1.898	2077	0.012
[	Kr 83		ug/L		49	0.000
[>	Lu 175		ug/L		96432	96431.672
|	Tl 205	51.234	ug/L	1.877	66010	0.683
[	U 238	53.672	ug/L	1.237	270554	2.805

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel. % Diff
[	Be	9		112.237							
[>	Sc	45					91.5				
[	Ni	60		103.671							
[>	Ge	74					96.5				
[	As	75		101.314							
[	Se	77									
[	Se	82		100.827							
[	Kr	83									
[>	Lu	175					103.2				
[	Tl	205		102.469							
[	U	238		107.344							

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	9CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 16:39:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.962

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.025	ug/L	157.019	7	0.000
|>	Sc 45		ug/L		472610	472610.248
[	Ni 60	0.038	ug/L	42.685	58	0.000
[>	Ge 74		ug/L		171643	171643.109
|	As 75	0.126	ug/L	103.302	236	0.000
|	Se 77		ug/L		3528	-0.002
|	Se 82	-0.087	ug/L	381.904	6	-0.000
[	Kr 83		ug/L		56	0.000
[>	Lu 175		ug/L		91916	91916.028
|	Tl 205	0.014	ug/L	46.403	154	0.000
[	U 238	0.018	ug/L	36.611	173	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	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		88.2		
[	Ni	60				
[>	Ge	74		92.6		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		98.4		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062399

Sample Date/Time: Saturday, April 17, 2010 18:29:09

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062399.966

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.005	ug/L	856.219	5	-0.000
|>	Sc 45		ug/L		480973	480973.256
[	Ni 60	0.354	ug/L	15.900	232	0.000
[>	Ge 74		ug/L		172440	172439.696
|	As 75	-0.008	ug/L	2319.246	182	-0.000
|	Se 77		ug/L		3020	-0.005
|	Se 82	-0.180	ug/L	151.866	2	-0.000
[	Kr 83		ug/L		40	-0.000
[>	Lu 175		ug/L		92883	92882.956
|	Tl 205	-0.004	ug/L	362.432	133	-0.000
[	U 238	0.003	ug/L	451.781	104	0.000

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			89.7		
[	Ni	60					
[>	Ge	74			93.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			99.4		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062400

Sample Date/Time: Saturday, April 17, 2010 18:33:18

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 961535|40|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062400.967

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	25.123	ug/L	2.566	2090	0.004
|>	Sc 45		ug/L		473746	473746.289
[	Ni 60	40.001	ug/L	1.689	21631	0.046
[>	Ge 74		ug/L		171711	171710.534
|	As 75	29.918	ug/L	1.862	12665	0.073
|	Se 77		ug/L		6346	0.014
|	Se 82	80.690	ug/L	6.851	3184	0.018
[	Kr 83		ug/L		46	0.000
[>	Lu 175		ug/L		92438	92437.717
|	Tl 205	34.064	ug/L	1.594	42112	0.454
[	U 238	0.517	ug/L	1.478	2584	0.027

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			88.4		
[	Ni	60					
[>	Ge	74			92.7		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			98.9		
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511001

Sample Date/Time: Saturday, April 17, 2010 18:37:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511001.968

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	3.338	ug/L	7.184	299	0.001
|>	Sc 45		ug/L		502410	502409.916
[	Ni 60	24.196	ug/L	0.727	13893	0.028
[>	Ge 74		ug/L		172904	172903.688
|	As 75	6.869	ug/L	3.252	3069	0.017
|	Se 77		ug/L		2892	-0.006
|	Se 82	1.103	ug/L	58.352	53	0.000
[	Kr 83		ug/L		79	0.000
[>	Lu 175		ug/L		98016	98016.423
|	Tl 205	0.411	ug/L	2.263	684	0.005
[	U 238	4.302	ug/L	3.192	22129	0.225

Sample ID: 248511001

Report Date/Time: Saturday, April 17, 2010 18:38:09

Page 1

Page 748 of 1028

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		93.7		
[	Ni	60				
|>	Ge	74		93.3		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
|>	Lu	175		104.9		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062401

Sample Date/Time: Saturday, April 17, 2010 18:41:34

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062401.969

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	3.376 ug/L	3.724	303	0.001
[>	Sc	45	ug/L		503075	503074.956
[	Ni	60	21.127 ug/L	4.545	12147	0.024
[>	Ge	74	ug/L		173124	173124.434
|	As	75	6.208 ug/L	6.109	2797	0.015
|	Se	77	ug/L		2713	-0.007
|	Se	82	1.043 ug/L	29.810	51	0.000
[	Kr	83	ug/L		78	0.000
[>	Lu	175	ug/L		96583	96583.032
|	Tl	205	0.296 ug/L	5.060	525	0.004
[	U	238	3.971 ug/L	1.275	20134	0.208

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		93.8		
[	Ni	60				
|>	Ge	74		93.4		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
|>	Lu	175		103.4		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062402

Sample Date/Time: Saturday, April 17, 2010 18:45:43

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062402.970

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	27.609	ug/L	3.770	2431	0.005
[>	Sc 45		ug/L		501658	501658.130
[	Ni 60	43.782	ug/L	1.555	25068	0.050
[>	Ge 74		ug/L		171536	171536.153
|	As 75	41.815	ug/L	2.641	17610	0.102
|	Se 77		ug/L		3011	-0.005
|	Se 82	9.613	ug/L	5.151	387	0.002
[	Kr 83		ug/L		84	0.000
[>	Lu 175		ug/L		97747	97746.633
|	Tl 205	45.070	ug/L	3.355	58854	0.601
[	U 238	28.378	ug/L	3.309	144987	1.483

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		93.6		
[	Ni	60				
[>	Ge	74		92.6		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		104.6		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062404

Sample Date/Time: Saturday, April 17, 2010 18:49:52

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062404.971

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	30.180	ug/L	1.548	2701	0.005
|>	Sc 45		ug/L		509905	509905.238
[	Ni 60	48.195	ug/L	0.932	28045	0.055
[>	Ge 74		ug/L		172401	172401.448
|	As 75	45.571	ug/L	1.041	19273	0.111
|	Se 77		ug/L		3015	-0.005
|	Se 82	10.612	ug/L	0.824	429	0.002
[	Kr 83		ug/L		83	0.000
[>	Lu 175		ug/L		97209	97209.268
|	Tl 205	49.668	ug/L	0.166	64510	0.662
[	U 238	31.848	ug/L	0.508	161864	1.664

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			95.1		
[	Ni	60					
[>	Ge	74			93.0		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			104.1		
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 1202062403

Sample Date/Time: Saturday, April 17, 2010 18:54:02

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 961535|10|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\1202062403.972

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.772	ug/L	39.221	72	0.000
[>	Sc 45		ug/L		488572	488571.821
[	Ni 60	4.968	ug/L	2.719	2805	0.006
[>	Ge 74		ug/L		174340	174340.103
|	As 75	0.551	ug/L	27.333	420	0.001
|	Se 77		ug/L		3406	-0.003
|	Se 82	0.090	ug/L	212.886	13	0.000
[	Kr 83		ug/L		49	0.000
[>	Lu 175		ug/L		92398	92398.440
|	Tl 205	0.162	ug/L	1.778	337	0.002
[	U 238	0.893	ug/L	1.326	4399	0.047

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		91.1		
[	Ni	60				
[>	Ge	74		94.1		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		98.9		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 18:58:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.973

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	55.459	ug/L	3.412	4765	0.010
{>	Sc 45		ug/L		490287	490286.908
[	Ni 60	52.162	ug/L	1.585	29175	0.059
{>	Ge 74		ug/L		176813	176812.604
|	As 75	50.709	ug/L	2.077	21975	0.123
|	Se 77		ug/L		4996	0.006
|	Se 82	50.202	ug/L	2.709	2044	0.012
[	Kr 83		ug/L		47	0.000
{>	Lu 175		ug/L		92193	92193.119
|	Tl 205	52.112	ug/L	1.811	64184	0.695
[	U 238	53.834	ug/L	2.216	259413	2.813

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[	Be	9		110.919								
|>	Sc	45						91.5				
[	Ni	60		104.324								
[>	Ge	74						95.4				
|	As	75		101.419								
|	Se	77										
|	Se	82		100.404								
[	Kr	83										
[>	Lu	175						98.7				
|	Tl	205		104.225								
[	U	238		107.668								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be		9CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 19:02:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.974

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.024	ug/L	229.848	7	0.000
|>	Sc 45		ug/L		475991	475990.678
[	Ni 60	0.016	ug/L	142.782	47	0.000
[>	Ge 74		ug/L		171180	171179.537
|	As 75	-0.185	ug/L	351.809	106	-0.000
|	Se 77		ug/L		3882	0.000
|	Se 82	0.182	ug/L	84.075	16	0.000
[	Kr 83		ug/L		43	-0.000
[>	Lu 175		ug/L		89321	89320.957
|	Tl 205	0.081	ug/L	9.179	230	0.001
[	U 238	0.024	ug/L	32.139	194	0.001

Sample ID: QC Std 7

Report Date/Time: Saturday, April 17, 2010 19:03:04

Page 1

Page 766 of 1028

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		88.8		
[	Ni	60				
|>	Ge	74		92.4		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
|>	Lu	175		95.6		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511002

Sample Date/Time: Saturday, April 17, 2010 19:06:30

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511002.975

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.481	ug/L	5.371	225	0.000
|>	Sc 45		ug/L		505621	505620.922
[	Ni 60	19.113	ug/L	1.154	11053	0.022
[>	Ge 74		ug/L		171890	171889.773
|	As 75	4.170	ug/L	5.928	1925	0.010
|	Se 77		ug/L		2660	-0.007
|	Se 82	0.504	ug/L	86.406	29	0.000
[	Kr 83		ug/L		78	0.000
[>	Lu 175		ug/L		94797	94797.441
|	Tl 205	0.324	ug/L	3.827	550	0.004
[	U 238	4.229	ug/L	1.939	21035	0.221

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			94.3		
[	Ni	60					
[>	Ge	74			92.8		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			101.5		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511003

Sample Date/Time: Saturday, April 17, 2010 19:10:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511003.976

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.817	ug/L	2.082	256	0.000
|>	Sc 45		ug/L		506751	506750.571
[	Ni 60	17.758	ug/L	2.612	10295	0.020
[>	Ge 74		ug/L		176197	176197.360
|	As 75	6.437	ug/L	5.100	2944	0.016
|	Se 77		ug/L		2613	-0.008
|	Se 82	0.620	ug/L	36.063	34	0.000
[	Kr 83		ug/L		98	0.000
[>	Lu 175		ug/L		99364	99364.384
|	Tl 205	0.284	ug/L	6.043	524	0.004
[	U 238	2.592	ug/L	1.004	13550	0.135

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		94.5		
[	Ni	60				
[>	Ge	74		95.1		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		106.4		
[	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511004

Sample Date/Time: Saturday, April 17, 2010 19:14:48

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511004.977

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.093	ug/L	2.325	196	0.000
|>	Sc 45		ug/L		518881	518880.628
[	Ni 60	21.263	ug/L	1.878	12614	0.024
[>	Ge 74		ug/L		176416	176416.500
|	As 75	6.240	ug/L	5.571	2863	0.015
|	Se 77		ug/L		2801	-0.007
|	Se 82	0.424	ug/L	162.904	26	0.000
[	Kr 83		ug/L		73	0.000
[>	Lu 175		ug/L		96652	96651.832
|	Tl 205	0.318	ug/L	6.523	553	0.004
[	U 238	4.895	ug/L	2.162	24808	0.256

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			96.8		
[	Ni	60					
[>	Ge	74			95.2		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			103.5		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511005

Sample Date/Time: Saturday, April 17, 2010 19:18:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511005.978

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.598	ug/L	6.585	240	0.000
|>	Sc 45		ug/L		515778	515777.540
[	Ni 60	18.945	ug/L	1.422	11176	0.022
[>	Ge 74		ug/L		176202	176202.107
|	As 75	8.575	ug/L	3.040	3859	0.021
|	Se 77		ug/L		2789	-0.007
|	Se 82	0.598	ug/L	85.427	34	0.000
[	Kr 83		ug/L		78	0.000
[>	Lu 175		ug/L		95873	95872.623
|	Tl 205	0.376	ug/L	1.097	623	0.005
[	U 238	4.400	ug/L	1.777	22130	0.230

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		96.2		
[	Ni	60				
[>	Ge	74		95.1		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		102.6		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511006

Sample Date/Time: Saturday, April 17, 2010 19:23:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511006.979

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.050	ug/L	3.349	193	0.000
!>	Sc 45		ug/L		520399	520398.609
[	Ni 60	19.383	ug/L	0.808	11537	0.022
[>	Ge 74		ug/L		177312	177312.045
|	As 75	7.272	ug/L	18.089	3321	0.018
|	Se 77		ug/L		2727	-0.007
|	Se 82	0.751	ug/L	43.577	40	0.000
[	Kr 83		ug/L		75	0.000
[>	Lu 175		ug/L		98030	98029.927
|	Tl 205	0.181	ug/L	1.076	383	0.002
[	U 238	5.231	ug/L	1.026	26886	0.273

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		97.1		
[	Ni	60				
[>	Ge	74		95.7		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		104.9		
[	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type: Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511007

Sample Date/Time: Saturday, April 17, 2010 19:27:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511007.980

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.394	ug/L	8.933	227	0.000
|>	Sc 45		ug/L		528455	528455.178
[	Ni 60	19.720	ug/L	2.720	11915	0.022
[>	Ge 74		ug/L		175240	175239.697
|	As 75	9.492	ug/L	3.145	4229	0.023
|	Se 77		ug/L		2589	-0.008
|	Se 82	0.386	ug/L	115.505	25	0.000
[	Kr 83		ug/L		87	0.000
[>	Lu 175		ug/L		96000	96000.457
|	Tl 205	0.400	ug/L	7.001	656	0.005
[	U 238	3.073	ug/L	1.257	15507	0.161

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		98.6		
[	Ni	60				
[>	Ge	74		94.6		
[	As	75				
[	Se	77				
[	Se	82				
[	Kr	83				
[>	Lu	175		102.8		
[	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511008

Sample Date/Time: Saturday, April 17, 2010 19:31:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511008.981

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.324	ug/L	7.292	222	0.000
|>	Sc 45		ug/L		531110	531110.287
[	Ni 60	24.201	ug/L	2.412	14686	0.028
[>	Ge 74		ug/L		179226	179225.775
|	As 75	7.839	ug/L	11.669	3606	0.019
|	Se 77		ug/L		2720	-0.007
|	Se 82	0.316	ug/L	34.977	23	0.000
[	Kr 83		ug/L		88	0.000
[>	Lu 175		ug/L		98126	98125.551
|	Tl 205	0.373	ug/L	6.493	634	0.005
[	U 238	4.100	ug/L	4.310	21107	0.214

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
>	Sc	45		99.1		
[	Ni	60				
>	Ge	74		96.7		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
>	Lu	175		105.0		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511009

Sample Date/Time: Saturday, April 17, 2010 19:35:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511009.982

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.777	ug/L	7.421	267	0.000
|>	Sc 45		ug/L		537097	537096.717
[	Ni 60	20.583	ug/L	2.404	12638	0.023
[>	Ge 74		ug/L		179903	179902.854
|	As 75	6.088	ug/L	8.754	2853	0.015
|	Se 77		ug/L		2778	-0.007
|	Se 82	0.425	ug/L	43.529	27	0.000
[	Kr 83		ug/L		98	0.000
[>	Lu 175		ug/L		98508	98508.133
|	Tl 205	0.291	ug/L	5.876	529	0.004
[	U 238	3.158	ug/L	1.025	16348	0.165

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			100.2		
[	Ni	60					
[>	Ge	74			97.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			105.4		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511010

Sample Date/Time: Saturday, April 17, 2010 19:39:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511010.983

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.351	ug/L	5.470	228	0.000
|>	Sc 45		ug/L		539034	539034.198
[	Ni 60	23.508	ug/L	0.947	14482	0.027
[>	Ge 74		ug/L		182502	182501.898
|	As 75	6.410	ug/L	7.894	3036	0.016
|	Se 77		ug/L		3334	-0.004
|	Se 82	0.492	ug/L	18.639	30	0.000
[	Kr 83		ug/L		79	0.000
[>	Lu 175		ug/L		96373	96372.652
|	Tl 205	0.296	ug/L	5.634	524	0.004
[	U 238	4.694	ug/L	2.853	23723	0.245

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		100.5		
[	Ni	60				
[>	Ge	74		98.5		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		103.2		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511011

Sample Date/Time: Saturday, April 17, 2010 19:43:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511011.984

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.371	ug/L	10.868	231	0.000
|>	Sc 45		ug/L		542365	542365.181
[	Ni 60	21.695	ug/L	1.962	13451	0.025
[>	Ge 74		ug/L		179907	179906.919
|	As 75	7.279	ug/L	9.297	3376	0.018
|	Se 77		ug/L		2882	-0.007
|	Se 82	0.842	ug/L	23.320	44	0.000
[	Kr 83		ug/L		74	0.000
[>	Lu 175		ug/L		95790	95789.700
|	Tl 205	0.359	ug/L	2.475	601	0.005
[	U 238	5.947	ug/L	1.344	29855	0.311

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		101.2		
[	Ni	60				
[>	Ge	74		97.1		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		102.5		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 19:48:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.985

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	51.201	ug/L	1.507	4706	0.009
|>	Sc 45		ug/L		524198	524198.160
[	Ni 60	50.970	ug/L	0.854	30489	0.058
[>	Ge 74		ug/L		186695	186695.242
|	As 75	50.761	ug/L	1.075	23227	0.123
|	Se 77		ug/L		5334	0.006
|	Se 82	49.778	ug/L	1.462	2140	0.011
[	Kr 83		ug/L		47	-0.000
[>	Lu 175		ug/L		94361	94361.225
|	Tl 205	52.389	ug/L	0.373	66045	0.698
[	U 238	52.729	ug/L	1.811	260074	2.755

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	102.403				
|>	Sc	45		97.8			
L	Ni	60	101.940				
[>	Ge	74		100.7			
|	As	75	101.521				
|	Se	77					
|	Se	82	99.555				
L	Kr	83					
[>	Lu	175		101.0			
|	Tl	205	104.779				
L	U	238	105.458				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 19:52:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.986

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.003	ug/L	1006.959	6	0.000
|>	Sc 45		ug/L		514152	514151.857
[	Ni 60	0.030	ug/L	12.740	59	0.000
[>	Ge 74		ug/L		184838	184837.764
|	As 75	-0.093	ug/L	735.401	159	-0.000
|	Se 77		ug/L		4392	0.001
|	Se 82	0.070	ug/L	362.603	13	0.000
[	Kr 83		ug/L		50	0.000
[>	Lu 175		ug/L		94017	94016.674
|	Tl 205	0.033	ug/L	32.770	182	0.000
[	U 238	0.017	ug/L	27.379	170	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	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			95.9		
[	Ni	60					
[>	Ge	74			99.7		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			100.6		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511012

Sample Date/Time: Saturday, April 17, 2010 19:56:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511012.987

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.765 ug/L	2.213	273	0.000
|>	Sc	45	ug/L		551072	551071.737
[	Ni	60	25.982 ug/L	0.227	16360	0.030
[>	Ge	74	ug/L		187121	187120.604
|	As	75	5.971 ug/L	6.618	2913	0.015
|	Se	77	ug/L		3035	-0.006
|	Se	82	0.068 ug/L	441.205	13	0.000
[	Kr	83	ug/L		101	0.000
[>	Lu	175	ug/L		100661	100661.438
|	Tl	205	0.367 ug/L	5.631	643	0.005
[	U	238	4.150 ug/L	1.241	21920	0.217

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			102.8		
[	Ni	60					
[>	Ge	74			101.0		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			107.8		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511013

Sample Date/Time: Saturday, April 17, 2010 20:00:35

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511013.988

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.519	ug/L	7.281	264	0.000
|>	Sc 45		ug/L		584006	584005.893
[	Ni 60	20.011	ug/L	0.406	13364	0.023
[>	Ge 74		ug/L		196344	196344.383
|	As 75	5.178	ug/L	20.934	2673	0.013
|	Se 77		ug/L		3373	-0.005
|	Se 82	0.566	ug/L	51.040	36	0.000
[	Kr 83		ug/L		85	0.000
[>	Lu 175		ug/L		102767	102767.074
|	Tl 205	0.244	ug/L	3.510	488	0.003
[	U 238	8.318	ug/L	2.171	44755	0.435

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		108.9		
|	Ni	60				
[>	Ge	74		106.0		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[>	Lu	175		110.0		
|	Tl	205				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511014

Sample Date/Time: Saturday, April 17, 2010 20:04:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511014.989

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.837	ug/L	2.764	278	0.000
|>	Sc 45		ug/L		546574	546574.463
[	Ni 60	15.872	ug/L	1.405	9929	0.018
[>	Ge 74		ug/L		185677	185676.771
|	As 75	5.719	ug/L	6.839	2778	0.014
|	Se 77		ug/L		2863	-0.007
|	Se 82	0.604	ug/L	37.584	36	0.000
[	Kr 83		ug/L		84	0.000
[>	Lu 175		ug/L		101617	101617.482
|	Tl 205	0.195	ug/L	10.535	416	0.003
[	U 238	2.631	ug/L	2.062	14067	0.137

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		102.0		
[	Ni	60				
[>	Ge	74		100.2		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175		108.8		
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511015

Sample Date/Time: Saturday, April 17, 2010 20:08:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511015.990

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	3.486	ug/L	11.611	355	0.001
|>	Sc 45		ug/L		570723	570722.794
[	Ni 60	25.784	ug/L	1.996	16814	0.029
[>	Ge 74		ug/L		189786	189785.548
|	As 75	6.671	ug/L	9.484	3279	0.016
|	Se 77		ug/L		2982	-0.007
|	Se 82	0.674	ug/L	92.618	39	0.000
[	Kr 83		ug/L		93	0.000
[>	Lu 175		ug/L		104622	104622.091
|	Tl 205	0.327	ug/L	8.653	612	0.004
[	U 238	5.809	ug/L	0.925	31855	0.304

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			106.5		
[	Ni	60					
[>	Ge	74			102.4		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			112.0		
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511016

Sample Date/Time: Saturday, April 17, 2010 20:13:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535[2]bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511016.991

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	3.720	ug/L	3.420	373	0.001
|>	Sc 45		ug/L		562621	562621.217
[	Ni 60	22.124	ug/L	0.572	14229	0.025
[>	Ge 74		ug/L		190567	190566.505
|	As 75	7.690	ug/L	5.598	3766	0.019
|	Se 77		ug/L		2987	-0.007
|	Se 82	0.557	ug/L	75.083	34	0.000
[	Kr 83		ug/L		98	0.000
[>	Lu 175		ug/L		105314	105314.482
|	Tl 205	0.351	ug/L	10.475	649	0.005
[	U 238	11.496	ug/L	1.746	63362	0.601

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			104.9		
[	Ni	60					
[>	Ge	74			102.8		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			112.7		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511017

Sample Date/Time: Saturday, April 17, 2010 20:17:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511017.992

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.972	ug/L	11.145	296	0.001
|>	Sc 45		ug/L		557309	557308.839
[	Ni 60	14.353	ug/L	2.578	9157	0.016
[>	Ge 74		ug/L		191971	191971.357
|	As 75	7.075	ug/L	9.668	3502	0.017
|	Se 77		ug/L		2828	-0.008
|	Se 82	0.847	ug/L	16.396	48	0.000
[	Kr 83		ug/L		85	0.000
[>	Lu 175		ug/L		103043	103042.993
|	Tl 205	0.223	ug/L	2.559	460	0.003
[	U 238	3.473	ug/L	0.835	18796	0.181

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			104.0		
[	Ni	60					
[>	Ge	74			103.6		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175			110.3		
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511018

Sample Date/Time: Saturday, April 17, 2010 20:21:29

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511018.993

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	4.807 ug/L	4.741	486	0.001
|>	Sc	45	ug/L		569355	569355.121
[	Ni	60	24.440 ug/L	0.841	15903	0.028
[>	Ge	74	ug/L		188700	188700.099
|	As	75	10.518 ug/L	6.401	5022	0.026
|	Se	77	ug/L		2729	-0.008
|	Se	82	0.418 ug/L	25.338	28	0.000
[	Kr	83	ug/L		93	0.000
[>	Lu	175	ug/L		102668	102668.334
|	Tl	205	0.347 ug/L	1.439	628	0.005
[	U	238	3.576 ug/L	1.789	19284	0.187

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45			106.2	
[	Ni	60				
[>	Ge	74			101.8	
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175			109.9	
|	Tl	205				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511019

Sample Date/Time: Saturday, April 17, 2010 20:25:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511019.994

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.225	ug/L	9.717	224	0.000
|>	Sc 45		ug/L		559578	559578.104
[	Ni 60	12.748	ug/L	1.481	8173	0.015
[>	Ge 74		ug/L		187362	187362.395
|	As 75	6.030	ug/L	5.863	2945	0.015
|	Se 77		ug/L		2719	-0.008
|	Se 82	0.230	ug/L	88.945	20	0.000
[	Kr 83		ug/L		99	0.000
[>	Lu 175		ug/L		106056	106055.965
|	Tl 205	0.094	ug/L	4.116	291	0.001
[	U 238	2.419	ug/L	3.698	13506	0.126

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			104.4		
|	Ni	60					
|>	Ge	74			101.1		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|>	Lu	175			113.5		
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: 248511020

Sample Date/Time: Saturday, April 17, 2010 20:29:49

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 961535|2|bcd1

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\248511020.995

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	2.696	ug/L	8.099	267	0.000
|>	Sc 45		ug/L		552135	552134.728
[	Ni 60	18.199	ug/L	3.907	11491	0.021
[>	Ge 74		ug/L		187904	187904.078
|	As 75	5.879	ug/L	4.211	2885	0.014
|	Se 77		ug/L		2709	-0.008
|	Se 82	0.532	ug/L	83.138	33	0.000
[	Kr 83		ug/L		77	0.000
[>	Lu 175		ug/L		103881	103880.692
|	Tl 205	0.213	ug/L	8.320	450	0.003
[	U 238	6.039	ug/L	0.826	32880	0.316

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45		103.0			
[	Ni	60					
[>	Ge	74		101.4			
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[>	Lu	175		111.2			
[	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, April 17, 2010 20:33:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 6.996

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	52.769	ug/L	2.829	4855	0.009
|>	Sc 45		ug/L		524960	524959.568
[	Ni 60	51.631	ug/L	2.325	30918	0.059
[>	Ge 74		ug/L		190224	190223.910
|	As 75	50.953	ug/L	1.628	23752	0.124
|	Se 77		ug/L		4966	0.004
|	Se 82	50.128	ug/L	2.446	2196	0.011
[	Kr 83		ug/L		50	0.000
[>	Lu 175		ug/L		98533	98532.637
|	Tl 205	51.476	ug/L	0.670	67767	0.686
[	U 238	52.460	ug/L	1.773	270188	2.741

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
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	105.538				
|>	Sc	45		97.9			
[	Ni	60	103.261				
[>	Ge	74		102.7			
|	As	75	101.907				
|	Se	77					
|	Se	82	100.256				
[	Kr	83					
[>	Lu	175		105.5			
|	Tl	205	102.953				
[	U	238	104.920				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#4 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, April 17, 2010 20:38:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil short list.mth

Dataset File: c:\elandata\Dataset\100408\QC Std 7.997

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.041 ug/L	33.529	9	0.000
[>	Sc	45	ug/L		508704	508704.404
[	Ni	60	0.024 ug/L	25.802	55	0.000
[>	Ge	74	ug/L		184708	184708.284
|	As	75	-0.127 ug/L	569.019	141	-0.000
|	Se	77	ug/L		3954	-0.001
|	Se	82	0.136 ug/L	110.590	16	0.000
[	Kr	83	ug/L		44	-0.000
[>	Lu	175	ug/L		94566	94565.950
|	Tl	205	0.025 ug/L	28.637	173	0.000
[	U	238	0.013 ug/L	26.617	153	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	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			94.9		
[	Ni	60					
[>	Ge	74			99.7		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			101.2		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Method Name: SOIL
 Method Description: 7471A, ILM04 ANALYST JXL1
 Element: Hg

Date: 03/17/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 031710S1.SIF

Results Data Set Name: 031710S1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 03/17/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0049	0.0049	08:59:52	No
2			0.0047	0.0047	09:00:27	No
Mean:			0.0048			
SD :			0.0001			
%RSD:			2.4597			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 03/17/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0030	0.0078	09:01:50	No
2			0.0029	0.0076	09:02:25	No
Mean:			0.0029			
SD :			0.0001			
%RSD:			3.5886			

[Hg] Standard number 1 applied. [0.200]
 Correlation Coefficient: 1.00000 Slope: 0.01465
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 03/17/2010
 Sample ID: S0.5

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0068	0.0115	09:03:48	No
2			0.0063	0.0111	09:04:23	No
Mean:			0.0066			
SD :			0.0003			
%RSD:			4.7161			

[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.99854 Slope: 0.01303
 Intercept : 0.00012

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 03/17/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0243	0.0291	09:05:48	No
2			0.0243	0.0291	09:06:23	No
Mean:			0.0243			
SD :			0.0000			
%RSD:			0.1512			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99973
Intercept : 0.00033

Slope: 0.01203

=====

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 03/17/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0582	0.0630	09:07:48	No
2			0.0579	0.0627	09:08:23	No
Mean:			0.0581			
SD :			0.0002			
%RSD:			0.3897			

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99982 Slope: 0.01155
Intercept : 0.00059

=====

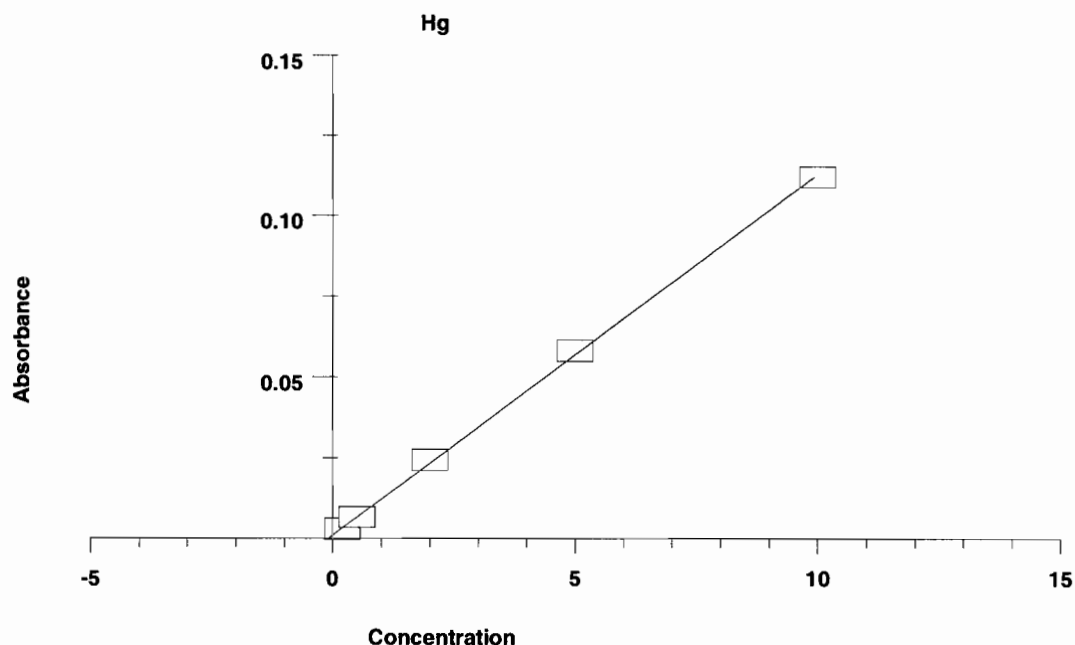
Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 03/17/2010
Sample ID: S10

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.1119	0.1166	09:09:49	No
2			0.1120	0.1168	09:10:23	No
Mean:			0.1120			
SD :			0.0001			
%RSD:						

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99979 Slope: 0.01117
Intercept : 0.00101

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0048	---	---	---	---
S0.2	0.0029	0.200	0.172	0.0001	3.6
S0.5	0.0066	0.500	0.496	0.0003	4.7
S2.0	0.0243	2.000	2.086	0.0000	0.2
S5.0	0.0581	5.000	5.106	0.0002	0.4
S10	0.1120	10.000	9.930	0.0001	---
Correlation Coefficient: 0.99979		Slope:	0.01117	Intercept:	0.0010



=====

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 03/17/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.255	5.255	0.0597	0.0645	09:11:51	No
2	5.164	5.164	0.0587	0.0635	09:12:25	No
Mean:	5.210	5.210	0.0592			
SD :	0.0645	0.0645	0.0007			
%RSD:	1.2	1.2	1.2174			

QC value within specified limits.

=====

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 03/17/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.051	-0.051	0.0004	0.0052	09:13:47	No
2	-0.072	-0.072	0.0002	0.0050	09:14:22	No
Mean:	-0.061	-0.061	0.0003			
SD :	0.0148	0.0148	0.0002			
%RSD:	24.2	24.2	50.2349			

QC value within specified limits.

=====

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 03/17/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.258	0.258	0.0039	0.0087	09:15:44	No
2	0.245	0.245	0.0038	0.0085	09:16:19	No
Mean:	0.252	0.252	0.0038			
SD :	0.0092	0.0092	0.0001			
%RSD:	3.7	3.7	2.6999			

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 03/17/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.131	5.131	0.0583	0.0631	09:17:45	No
2	5.183	5.183	0.0589	0.0637	09:18:20	No
Mean:	5.157	5.157	0.0586			
SD :	0.0371	0.0371	0.0004			
%RSD:	0.7	0.7	0.7062			

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.038	0.038	0.0014	0.0062	09:19:48	No
2	0.031	0.031	0.0014	0.0061	09:20:23	No
Mean:	0.035	0.035	0.0014			
SD :	0.0044	0.0044	0.0000			
%RSD:	12.7	12.7	3.5081			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 03/17/2010
 Sample ID: 1202069741|i||964730|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.072	-0.072	0.0002	0.0050	09:21:49	No
2	-0.090	-0.090	0.0000	0.0048	09:22:24	No
Mean:	-0.081	-0.081	0.0001			
SD :	0.0128	0.0128	0.0001			
%RSD:	15.7	15.7	134.7501			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 03/17/2010
 Sample ID: 1202069742|i||10||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.764	3.764	0.0431	0.0478	09:23:48	No
2	3.719	3.719	0.0426	0.0473	09:24:23	No
Mean:	3.741	3.741	0.0428			
SD :	0.0321	0.0321	0.0004			
%RSD:	0.9	0.9	0.8387			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 03/17/2010
 Sample ID: 248374001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.501	0.501	0.0066	0.0114	09:25:49	No
2	0.497	0.497	0.0066	0.0113	09:26:24	No
Mean:	0.499	0.499	0.0066			
SD :	0.0023	0.0023	0.0000			
%RSD:	0.5	0.5	0.3931			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 03/17/2010
 Sample ID: 1202069743|i|||DUP

%RSD: 1.6 1.6 1.3949

=====
 Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 03/17/2010
 Sample ID: 248374004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.722	0.722	0.0091	0.0138	09:39:39	No
2	0.719	0.719	0.0090	0.0138	09:40:14	No
Mean:	0.721	0.721	0.0091			
SD :	0.0018	0.0018	0.0000			
%RSD:	0.2	0.2	0.2199			

=====
 Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 03/17/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.188	5.188	0.0590	0.0637	09:41:40	No
2	5.152	5.152	0.0586	0.0633	09:42:15	No
Mean:	5.170	5.170	0.0588			
SD :	0.0257	0.0257	0.0003			
%RSD:	0.5	0.5	0.4894			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0011	0.0058	09:43:43	No
2	0.007	0.007	0.0011	0.0059	09:44:18	No
Mean:	0.006	0.006	0.0011			
SD :	0.0013	0.0013	0.0000			
%RSD:	23.6	23.6	1.3705			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 03/17/2010
 Sample ID: 248374005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	1.088	1.088	0.0132	0.0179	09:45:43	No
2	1.081	1.081	0.0131	0.0179	09:46:18	No
Mean:	1.085	1.085	0.0131			
SD :	0.0049	0.0049	0.0001			
%RSD:	0.4	0.4	0.4141			

=====
 Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 03/17/2010
 Sample ID: 248374006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.273	0.273	0.0041	0.0088	09:47:42	No
2	0.276	0.276	0.0041	0.0089	09:48:17	No
Mean:	0.275	0.275	0.0041			
SD :	0.0017	0.0017	0.0000			
%RSD:	0.6	0.6	0.4697			

=====
 Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 03/17/2010
 Sample ID: 248374007|i|||

%RSD: 1.5 1.5 1.0876

=====
 Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 03/17/2010
 Sample ID: 248374013|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.660	0.660	0.0084	0.0132	10:01:44	No
2	0.653	0.653	0.0083	0.0131	10:02:19	No
Mean:	0.656	0.656	0.0083			
SD :	0.0050	0.0050	0.0001			
%RSD:	0.8	0.8	0.6682			

=====
 Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 03/17/2010
 Sample ID: 1202069773|i||964746|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.076	-0.076	0.0002	0.0049	10:03:46	No
2	-0.094	-0.094	0.0000	0.0047	10:04:20	No
Mean:	-0.085	-0.085	0.0001			
SD :	0.0127	0.0127	0.0001			
%RSD:	15.0	15.0	212.9986			

=====
 Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 03/17/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.150	5.150	0.0585	0.0633	10:05:48	No
2	5.135	5.135	0.0584	0.0631	10:06:23	No
Mean:	5.142	5.142	0.0585			
SD :	0.0106	0.0106	0.0001			
%RSD:	0.2	0.2	0.2021			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.028	-0.028	0.0007	0.0055	10:07:51	No
2	-0.027	-0.027	0.0007	0.0055	10:08:26	No
Mean:	-0.028	-0.028	0.0007			
SD :	0.0003	0.0003	0.0000			
%RSD:	1.0	1.0	0.4362			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 03/17/2010
 Sample ID: 1202069774|i||10||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.666	3.666	0.0420	0.0467	10:09:50	No
2	3.669	3.669	0.0420	0.0468	10:10:25	No
Mean:	3.668	3.668	0.0420			
SD :	0.0019	0.0019	0.0000			
%RSD:						

=====
 Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 03/17/2010
 Sample ID: 248511001|i|||


```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      9.770      9.770     0.1102    0.1149    10:11:45  No
2      9.734      9.734     0.1098    0.1145    10:12:20  No
Mean:   9.752      9.752     0.1100
SD :    0.0249     0.0249     0.0003
%RSD:   0.3        0.3        0.2531
-----

```

```

=====
Element: Hg      Seq. No.: 38      AS Loc.: 34      Date: 03/17/2010
Sample ID: 1202069775|i|||DUP
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      11.34      11.34     0.1277    0.1324    10:13:41  No
Sample absorbance is greater than that of the highest standard.
2      11.31      11.31     0.1274    0.1322    10:14:16  No
Sample absorbance is greater than that of the highest standard.
Mean:   11.33      11.33     0.1275
SD :    0.0168     0.0168     0.0002
%RSD:   0.1        0.1        0.1471
Sample absorbance is greater than that of the highest standard.
-----

```

```

=====
Element: Hg      Seq. No.: 39      AS Loc.: 35      Date: 03/17/2010
Sample ID: 1202069776|i|||MS
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      14.64      14.64     0.1645    0.1693    10:15:38  No
Sample absorbance is greater than that of the highest standard.
2      14.56      14.56     0.1637    0.1685    10:16:14  No
Sample absorbance is greater than that of the highest standard.
Mean:   14.60      14.60     0.1641
SD :    0.0542     0.0542     0.0006
%RSD:   0.4        0.4        0.3689
Sample absorbance is greater than that of the highest standard.
-----

```

```

=====
Element: Hg      Seq. No.: 40      AS Loc.: 36      Date: 03/17/2010
Sample ID: 1202069778|i|||MSD
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      14.60      14.60     0.1641    0.1689    10:17:36  No
Sample absorbance is greater than that of the highest standard.
2      14.52      14.52     0.1632    0.1680    10:18:11  No
Sample absorbance is greater than that of the highest standard.
Mean:   14.56      14.56     0.1637
SD :    0.0570     0.0570     0.0006
%RSD:   0.4        0.4        0.3890
Sample absorbance is greater than that of the highest standard.
-----

```

```

=====
Element: Hg      Seq. No.: 41      AS Loc.: 37      Date: 03/17/2010
Sample ID: 1202069777|i|5||SDILT
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      1.843      1.843     0.0216    0.0264    10:19:33  No
2      1.837      1.837     0.0215    0.0263    10:20:07  No
Mean:   1.840      1.840     0.0216
SD :    0.0040     0.0040     0.0000
%RSD:   0.2        0.2        0.2079
-----

```

Element: Hg Seq. No.: 42 AS Loc.: 38 Date: 03/17/2010
 Sample ID: 248511002|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.407	0.407	0.0056	0.0103	10:21:29	No
2	0.395	0.395	0.0054	0.0102	10:22:04	No
Mean:	0.401	0.401	0.0055			
SD :	0.0087	0.0087	0.0001			
%RSD:	2.2	2.2	1.7737			

Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 03/17/2010
 Sample ID: 248511003|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.283	0.283	0.0042	0.0089	10:23:27	No
2	0.266	0.266	0.0040	0.0088	10:24:02	No
Mean:	0.275	0.275	0.0041			
SD :	0.0120	0.0120	0.0001			
%RSD:	4.4	4.4	3.2782			

Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 03/17/2010
 Sample ID: 248511004|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.407	0.407	0.0056	0.0103	10:25:26	No
2	0.385	0.385	0.0053	0.0101	10:26:01	No
Mean:	0.396	0.396	0.0054			
SD :	0.0149	0.0149	0.0002			
%RSD:	3.8	3.8	3.0622			

Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 03/17/2010
 Sample ID: 248511005|i|||

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.336	0.336	0.0048	0.0095	10:27:25	No
2	0.336	0.336	0.0048	0.0095	10:28:00	No
Mean:	0.336	0.336	0.0048			
SD :	0.0003	0.0003	0.0000			
%RSD:						

Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 03/17/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.100	5.100	0.0580	0.0628	10:29:26	No
2	5.136	5.136	0.0584	0.0632	10:30:01	No
Mean:	5.118	5.118	0.0582			
SD :	0.0256	0.0256	0.0003			
%RSD:	0.5	0.5	0.4909			

QC value within specified limits.

Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.012	0.012	0.0011	0.0059	10:31:29	No

2 0.001 0.001 0.0010 0.0058 10:32:04 No
 Mean: 0.007 0.007 0.0011
 SD : 0.0079 0.0079 0.0001
 %RSD: 118.9 118.9 8.0879
 QC value within specified limits.

=====
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 03/17/2010
 Sample ID: 248511006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.556	2.556	0.0296	0.0343	10:33:30	No
2	2.542	2.542	0.0294	0.0342	10:34:04	No
Mean:	2.549	2.549	0.0295			
SD :	0.0097	0.0097	0.0001			
%RSD:	0.4	0.4	0.3656			

=====
 Element: Hg Seq. No.: 49 AS Loc.: 43 Date: 03/17/2010
 Sample ID: 248511007|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.140	0.140	0.0026	0.0073	10:35:29	No
2	0.126	0.126	0.0024	0.0072	10:36:03	No
Mean:	0.133	0.133	0.0025			
SD :	0.0099	0.0099	0.0001			
%RSD:	7.4	7.4	4.4125			

=====
 Element: Hg Seq. No.: 50 AS Loc.: 44 Date: 03/17/2010
 Sample ID: 248511008|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.367	0.367	0.0051	0.0099	10:37:29	No
2	0.357	0.357	0.0050	0.0098	10:38:05	No
Mean:	0.362	0.362	0.0051			
SD :	0.0075	0.0075	0.0001			
%RSD:	2.1	2.1	1.6646			

=====
 Element: Hg Seq. No.: 51 AS Loc.: 45 Date: 03/17/2010
 Sample ID: 248511009|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.121	0.121	0.0024	0.0071	10:39:32	No
2	0.116	0.116	0.0023	0.0071	10:40:07	No
Mean:	0.119	0.119	0.0023			
SD :	0.0035	0.0035	0.0000			
%RSD:	2.9	2.9	1.6503			

=====
 Element: Hg Seq. No.: 52 AS Loc.: 46 Date: 03/17/2010
 Sample ID: 248511010|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.328	0.328	0.0047	0.0094	10:41:33	No
2	0.320	0.320	0.0046	0.0094	10:42:08	No
Mean:	0.324	0.324	0.0046			
SD :	0.0054	0.0054	0.0001			
%RSD:	1.7	1.7	1.2995			

Element: Hg Seq. No.: 53 AS Loc.: 47 Date: 03/17/2010

Sample ID: 248511011|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.363	0.363	0.0051	0.0098	10:43:35	No
2	0.351	0.351	0.0049	0.0097	10:44:10	No
Mean:	0.357	0.357	0.0050			
SD :	0.0084	0.0084	0.0001			
%RSD:	2.4	2.4	1.8796			

Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 03/17/2010

Sample ID: 248511012|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.153	0.153	0.0027	0.0075	10:45:49	No
2	0.144	0.144	0.0026	0.0074	10:46:24	No
Mean:	0.148	0.148	0.0027			
SD :	0.0064	0.0064	0.0001			
%RSD:	4.3	4.3	2.6901			

Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 03/17/2010

Sample ID: 248511013|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	1.494	1.494	0.0177	0.0225	10:47:44	No
2	1.499	1.499	0.0178	0.0225	10:48:19	No
Mean:	1.497	1.497	0.0177			
SD :	0.0035	0.0035	0.0000			
%RSD:	0.2	0.2	0.2213			

Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 03/17/2010

Sample ID: 248511014|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.122	0.122	0.0024	0.0071	10:49:39	No
2	0.118	0.118	0.0023	0.0071	10:50:15	No
Mean:	0.120	0.120	0.0024			
SD :	0.0030	0.0030	0.0000			
%RSD:	2.5	2.5	1.4298			

Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 03/17/2010

Sample ID: 248511015|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.740	0.740	0.0093	0.0140	10:51:36	No
2	0.722	0.722	0.0091	0.0138	10:52:11	No
Mean:	0.731	0.731	0.0092			
SD :	0.0126	0.0126	0.0001			
%RSD:	1.7	1.7	1.5313			

Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 03/17/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	4.790	4.790	0.0545	0.0593	10:53:35	No
2	4.781	4.781	0.0544	0.0592	10:54:10	No

Mean: 4.786 4.786 0.0545
 SD : 0.0062 0.0062 0.0001
 %RSD: 0.1 0.1 0.1274
 QC value within specified limits.

=====
 Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.101	-0.101	-0.0001	0.0047	10:55:38	No
2	-0.101	-0.101	-0.0001	0.0047	10:56:13	No
Mean:	-0.101	-0.101	-0.0001			
SD :	0.0002	0.0002	0.0000			
%RSD:	0.2	0.2	2.2346			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 03/17/2010
 Sample ID: 248511016|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	1.611	1.611	0.0190	0.0238	10:57:38	No
2	1.609	1.609	0.0190	0.0238	10:58:13	No
Mean:	1.610	1.610	0.0190			
SD :	0.0015	0.0015	0.0000			
%RSD:						

=====
 Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 03/17/2010
 Sample ID: 248511017|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.232	0.232	0.0036	0.0084	10:59:35	No
2	0.230	0.230	0.0036	0.0084	11:00:10	No
Mean:	0.231	0.231	0.0036			
SD :	0.0014	0.0014	0.0000			
%RSD:	0.6	0.6	0.4200			

=====
 Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 03/17/2010
 Sample ID: 248511018|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.503	0.503	0.0066	0.0114	11:01:32	No
2	0.493	0.493	0.0065	0.0113	11:02:08	No
Mean:	0.498	0.498	0.0066			
SD :	0.0068	0.0068	0.0001			
%RSD:	1.4	1.4	1.1558			

=====
 Element: Hg Seq. No.: 63 AS Loc.: 55 Date: 03/17/2010
 Sample ID: 248511019|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.038	0.038	0.0014	0.0062	11:03:31	No
2	0.037	0.037	0.0014	0.0062	11:04:06	No
Mean:	0.038	0.038	0.0014			
SD :	0.0010	0.0010	0.0000			
%RSD:	2.7	2.7	0.7817			

=====

Element: Hg Seq. No.: 64 AS Loc.: 56 Date: 03/17/2010
 Sample ID: 248511020|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.546	0.546	0.0071	0.0119	11:05:29	No
2	0.551	0.551	0.0072	0.0119	11:06:04	No
Mean:	0.548	0.548	0.0071			
SD :	0.0034	0.0034	0.0000			
%RSD:	0.6	0.6	0.5385			

Element: Hg Seq. No.: 65 AS Loc.: 57 Date: 03/17/2010
 Sample ID: 1202069779|i||964749|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.196	-0.196	-0.0012	0.0036	11:07:28	No
2	-0.196	-0.196	-0.0012	0.0036	11:08:03	No
Mean:	-0.196	-0.196	-0.0012			
SD :	0.0003	0.0003	0.0000			
%RSD:	0.2	0.2	0.3240			

Element: Hg Seq. No.: 66 AS Loc.: 58 Date: 03/17/2010
 Sample ID: 1202069780|i|10||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.207	3.207	0.0368	0.0416	11:09:27	No
2	3.169	3.169	0.0364	0.0412	11:10:02	No
Mean:	3.188	3.188	0.0366			
SD :	0.0269	0.0269	0.0003			
%RSD:	0.8	0.8	0.8204			

Element: Hg Seq. No.: 67 AS Loc.: 59 Date: 03/17/2010
 Sample ID: 248520001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.348	0.348	0.0049	0.0097	11:11:26	No
2	0.336	0.336	0.0048	0.0095	11:12:02	No
Mean:	0.342	0.342	0.0048			
SD :	0.0089	0.0089	0.0001			
%RSD:	2.6	2.6	2.0468			

Element: Hg Seq. No.: 68 AS Loc.: 60 Date: 03/17/2010
 Sample ID: 1202069781|i|||DUP

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.325	0.325	0.0046	0.0094	11:13:27	No
2	0.350	0.350	0.0049	0.0097	11:14:02	No
Mean:	0.338	0.338	0.0048			
SD :	0.0176	0.0176	0.0002			
%RSD:	5.2	5.2	4.1172			

Element: Hg Seq. No.: 69 AS Loc.: 61 Date: 03/17/2010
 Sample ID: 1202069782|i|||MS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.367	2.367	0.0275	0.0322	11:15:28	No
2	2.336	2.336	0.0271	0.0319	11:16:03	No

Mean: 2.351 2.351 0.0273
 SD : 0.0216 0.0216 0.0002
 %RSD: 0.9 0.9 0.8859

=====
 Element: Hg Seq. No.: 70 AS Loc.: 7 Date: 03/17/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	4.887	4.887	0.0556	0.0604	11:17:29	No
2	4.922	4.922	0.0560	0.0608	11:18:04	No
Mean:	4.905	4.905	0.0558			
SD :	0.0248	0.0248	0.0003			
%RSD:	0.5	0.5	0.4955			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 71 AS Loc.: 8 Date: 03/17/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.050	0.050	0.0016	0.0063	11:19:32	No
2	0.042	0.042	0.0015	0.0063	11:20:07	No
Mean:	0.046	0.046	0.0015			
SD :	0.0051	0.0051	0.0001			
%RSD:	11.0	11.0	3.7042			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 72 AS Loc.: 62 Date: 03/17/2010
 Sample ID: 1202069784|i||MSD

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.278	2.278	0.0265	0.0312	11:21:34	No
2	2.252	2.252	0.0262	0.0309	11:22:09	No
Mean:	2.265	2.265	0.0263			
SD :	0.0184	0.0184	0.0002			
%RSD:	0.8	0.8	0.7816			

=====
 Element: Hg Seq. No.: 73 AS Loc.: 63 Date: 03/17/2010
 Sample ID: 1202069783|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.140	-0.140	-0.0005	0.0042	11:23:32	No
2	-0.155	-0.155	-0.0007	0.0040	11:24:08	No
Mean:	-0.147	-0.147	-0.0006			
SD :	0.0110	0.0110	0.0001			
%RSD:	7.5	7.5	19.4065			

=====
 Element: Hg Seq. No.: 74 AS Loc.: 64 Date: 03/17/2010
 Sample ID: 248520002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	7.762	7.762	0.0877	0.0925	11:25:28	No
2	7.691	7.691	0.0869	0.0917	11:26:03	No
Mean:	7.727	7.727	0.0873			
SD :	0.0507	0.0507	0.0006			
%RSD:	0.7	0.7	0.6484			

=====
 =====

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Verified by:

Batch ID: 961531.0

Analyst: Bryan Davis

Method: SW846 3050B

Lab SOP: GL-MA-E-009 REV# 19

Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202062394	Metals Soil LCS SRM ICP/Hg	U1062540-I	.507	g
MS	1202062396	Metals Spike Mix I	U11268741-01	.25	mL
MS	1202062396	Metals Spike Mix II	U11268744-06	.25	mL
MSD	1202062398	Metals Spike Mix I	U11268741-01	.25	mL
MSD	1202062398	Metals Spike Mix II	U11268744-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202062393 MB	15-MAR-2010 09:30:00	Soil	0.503	50	99.40358	
1202062394 LCS	15-MAR-2010 09:30:00	Soil	0.507	50	98.61933	
248511001	15-MAR-2010 09:30:00	Soil	0.551	50	90.7441	
1202062395 DUP (248511001)	15-MAR-2010 09:30:00	Soil	0.528	50	94.69697	
1202062396 MS (248511001)	15-MAR-2010 09:30:00	Soil	0.51	50	98.03922	
1202062398 MSD (248511001)	15-MAR-2010 09:30:00	Soil	0.53	50	94.33962	
1202062397 SDILT (248511001)	15-MAR-2010 09:30:00	Soil	0.551	50	90.7441	
248511002	15-MAR-2010 09:30:00	Soil	0.509	50	98.23183	
248511003	15-MAR-2010 09:30:00	Soil	0.507	50	98.61933	
248511004	15-MAR-2010 09:30:00	Soil	0.525	50	95.2381	
248511005	15-MAR-2010 09:30:00	Soil	0.515	50	97.08738	
248511006	15-MAR-2010 09:30:00	Soil	0.53	50	94.33962	
248511007	15-MAR-2010 09:30:00	Soil	0.505	50	99.0099	
248511008	15-MAR-2010 09:30:00	Soil	0.528	50	94.69697	
248511009	15-MAR-2010 09:30:00	Soil	0.503	50	99.40358	
248511010	15-MAR-2010 09:30:00	Soil	0.559	50	89.44544	
248511011	15-MAR-2010 09:30:00	Soil	0.519	50	96.33911	
248511012	15-MAR-2010 09:30:00	Soil	0.544	50	91.91176	
248511013	15-MAR-2010 09:30:00	Soil	0.536	50	93.28358	
248511014	15-MAR-2010 09:30:00	Soil	0.529	50	94.51796	
248511015	15-MAR-2010 09:30:00	Soil	0.502	50	99.60159	
248511016	15-MAR-2010 09:30:00	Soil	0.526	50	95.05703	
248511017	15-MAR-2010 09:30:00	Soil	0.535	50	93.45794	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID:	961531.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Bryan Davis			LCS	1202062394	Metals Soil LCS SRM ICP/Hg	UI062540-1	.507	g
Method:	SW846 3050B			MS	1202062396	Metals Spike Mix I	UI1268741-01	.25	mL
Lab SOP:	GL-MA-E-009 REV# 19			MS	1202062396	Metals Spike Mix II	UI1268744-06	.25	mL
Instrument:	Sartorius Balance B-001			MSD	1202062398	Metals Spike Mix I	UI1268741-01	.25	mL
				MSD	1202062398	Metals Spike Mix II	UI1268744-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248511018	15-MAR-2010 09:30:00	Soil	0.513	50	97.46589	
248511019	15-MAR-2010 09:30:00	Soil	0.534	50	93.63296	
248511020	15-MAR-2010 09:30:00	Soil	0.515	50	97.08738	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1282564	HYDROCHLORIC ACID	10 mL	The QC sample is a brown soil with plant matter and other artifacts.
1282566	Nitric Acid CONC.	1.25 mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 961534.0 Verified by: _____
 Analyst: Barry Audain
 Method: SW846 3050B
 Lab SOP: GL-MA-E-009 REV# 20
 Instrument: Sartorius Balance B-001

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202062399 MB	15-APR-2010 19:35:00	0.516	50	96.89922	
1202062400 LCS	15-APR-2010 19:35:00	0.514	50	97.27626	
248511001	15-APR-2010 19:35:00	0.523	50	95.60229	
1202062401 DUP (248511001)	15-APR-2010 19:35:00	0.506	50	98.81423	
1202062402 MS (248511001)	15-APR-2010 19:35:00	0.508	50	98.4252	
1202062404 MSD (248511001)	15-APR-2010 19:35:00	0.516	50	96.89922	
1202062403 SDILT (248511001)	15-APR-2010 19:35:00	0.523	50	95.60229	
248511002	15-APR-2010 19:35:00	0.525	50	95.2381	
248511003	15-APR-2010 19:35:00	0.508	50	98.4252	
248511004	15-APR-2010 19:35:00	0.554	50	90.25271	
248511005	15-APR-2010 19:35:00	0.529	50	94.51796	
248511006	15-APR-2010 19:35:00	0.523	50	95.60229	
248511007	15-APR-2010 19:35:00	0.543	50	92.08103	
248511008	15-APR-2010 19:35:00	0.526	50	95.05703	
248511009	15-APR-2010 19:35:00	0.506	50	98.81423	
248511010	15-APR-2010 19:35:00	0.501	50	99.8004	
248511011	15-APR-2010 19:35:00	0.52	50	96.15385	
248511012	15-APR-2010 19:35:00	0.506	50	98.81423	
248511013	15-APR-2010 19:35:00	0.507	50	98.61933	
248511014	15-APR-2010 19:35:00	0.513	50	97.46589	
248511015	15-APR-2010 19:35:00	0.54	50	92.59259	
248511016	15-APR-2010 19:35:00	0.553	50	90.41591	
248511017	15-APR-2010 19:35:00	0.5	50	100	
248511018	15-APR-2010 19:35:00	0.519	50	96.33911	
248511019	15-APR-2010 19:35:00	0.517	50	96.7118	
248511020	15-APR-2010 19:35:00	0.5	50	100	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202062400	Metals Soil LCS SRM ICPMS	U1062540-MS	.514	g	Sample 248511001 consist of brown, soil with plant matter and other artifacts.
MS	1202062402	ICP-MS Spike for soil products.	U11286780-A	.5	mL	
MS	1202062402	ICP-MS Spike for Soil Products	U11286784-B	.5	mL	
MSD	1202062404	ICP-MS Spike for soil products.	U11286780-A	.5	mL	
MSD	1202062404	ICP-MS Spike for Soil Products	U11286784-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1302252	5	mL	

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 973757.0		Verified by:			
Analyst:	Anthony Green				
Method:	SW846 3050B				
Lab SOP:	GL-MA-E-009 REV# 20				
Instrument:	BAL-001				
Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202091942	Metals Soil LCS SRM ICP/Hg	U1062540-I	.51	g
MS	1202062396	Metals Spike Mix I	U11286772-01	.25	mL
MS	1202062396	Metals Spike Mix II	U11286774-06	.25	mL
MSD	1202062398	Metals Spike Mix I	U11286772-01	.25	mL
MSD	1202062398	Metals Spike Mix II	U11286774-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202091941 MB	12-APR-2010 11:30:00	Soil	0.512	50	97.65625	
1202091942 LCS	12-APR-2010 11:30:00	Soil	0.51	50	98.03922	
248511001 - 2	12-APR-2010 11:30:00	Soil	0.551	50	90.7441	
1202062395 - 2 DUP (248511001)	12-APR-2010 11:30:00	Soil	0.51	50	98.03922	
1202062396 - 2 MS (248511001)	12-APR-2010 11:30:00	Soil	0.525	50	95.2381	
1202062398 - 2 MSD (248511001)	12-APR-2010 11:30:00	Soil	0.528	50	94.69697	
1202062397 - 2 SDILT (248511001)	12-APR-2010 11:30:00	Soil	0.551	50	90.7441	
248511002 - 2	12-APR-2010 11:30:00	Soil	0.526	50	95.05703	
248511003 - 2	12-APR-2010 11:30:00	Soil	0.537	50	93.10987	
248511004 - 2	12-APR-2010 11:30:00	Soil	0.585	50	85.47009	
248511005 - 2	12-APR-2010 11:30:00	Soil	0.57	50	87.7193	
248511006 - 2	12-APR-2010 11:30:00	Soil	0.548	50	91.24088	
248511007 - 2	12-APR-2010 11:30:00	Soil	0.556	50	89.92806	
248511008 - 2	12-APR-2010 11:30:00	Soil	0.52	50	96.15385	
248511009 - 2	12-APR-2010 11:30:00	Soil	0.529	50	94.51796	
248511010 - 2	12-APR-2010 11:30:00	Soil	0.521	50	95.96929	
248511011 - 2	12-APR-2010 11:30:00	Soil	0.547	50	91.40768	
248511012 - 2	12-APR-2010 11:30:00	Soil	0.508	50	98.4252	
248511013 - 2	12-APR-2010 11:30:00	Soil	0.537	50	93.10987	
248511014 - 2	12-APR-2010 11:30:00	Soil	0.56	50	89.28571	
248511015 - 2	12-APR-2010 11:30:00	Soil	0.558	50	89.60573	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 973757.0		Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Anthony Green				LCS	1202091942	Metals Soil LCS SRM ICP/Hg	UI062540-I	.51	g
Method: SW846 3050B				MS	1202062396	Metals Spike Mix I	UI1286772-01	.25	mL
Lab SOP: GL-MA-E-009 REV# 20				MS	1202062396	Metals Spike Mix II	UI1286774-06	.25	mL
Instrument: BAL-001				MSD	1202062398	Metals Spike Mix I	UI1286772-01	.25	mL
				MSD	1202062398	Metals Spike Mix II	UI1286774-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248511016 - 2	12-APR-2010 11:30:00	Soil	0.528	50	94.69697	
248511017 - 2	12-APR-2010 11:30:00	Soil	0.503	50	99.40358	
248511018 - 2	12-APR-2010 11:30:00	Soil	0.504	50	99.20635	
248511019 - 2	12-APR-2010 11:30:00	Soil	0.521	50	95.96929	
248511020 - 2	12-APR-2010 11:30:00	Soil	0.57	50	87.7193	
Reagent/Solvent Lot ID Description Amount Comments:						
I282564	HYDROCHLORIC ACID	10 mL	Sample 248511001 consist of brown, medium soil with plant matter.			
I291278	Nitric Acid CONC.	1.25 mL				

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 964745.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Tara Griffin		LCS	1202069774	Metals LCS Soil SRM	U1031809A	.2	g
Method: SW846 7471A Prep		MS	1202069776	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
Lab SOP: GL-MA-E-010 REV# 23		MSD	1202069778	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
Instrument: BAL-002							

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202069773 MB	16-MAR-2010 14:30:00	Soil	0.6	30	50	
1202069774 LCS	16-MAR-2010 14:30:00	Soil	0.2	30	150	
248511001	16-MAR-2010 14:30:00	Soil	0.537	30	55.86592	
1202069775 DUP (248511001)	16-MAR-2010 14:30:00	Soil	0.515	30	58.25243	
1202069776 MS (248511001)	16-MAR-2010 14:30:00	Soil	0.503	30	59.64215	
1202069778 MSD (248511001)	16-MAR-2010 14:30:00	Soil	0.561	30	53.47594	
1202069777 SDIL.T (248511001)	16-MAR-2010 14:30:00	Soil	0.537	30	55.86592	
248511002	16-MAR-2010 14:30:00	Soil	0.513	30	58.47953	
248511003	16-MAR-2010 14:30:00	Soil	0.56	30	53.57143	
248511004	16-MAR-2010 14:30:00	Soil	0.514	30	58.36576	
248511005	16-MAR-2010 14:30:00	Soil	0.503	30	59.64215	
248511006	16-MAR-2010 14:30:00	Soil	0.517	30	58.02708	
248511007	16-MAR-2010 14:30:00	Soil	0.517	30	58.02708	
248511008	16-MAR-2010 14:30:00	Soil	0.525	30	57.14286	
248511009	16-MAR-2010 14:30:00	Soil	0.531	30	56.49718	
248511010	16-MAR-2010 14:30:00	Soil	0.589	30	50.93379	
248511011	16-MAR-2010 14:30:00	Soil	0.587	30	51.10733	
248511012	16-MAR-2010 14:30:00	Soil	0.523	30	57.36138	
248511013	16-MAR-2010 14:30:00	Soil	0.54	30	55.55556	
248511014	16-MAR-2010 14:30:00	Soil	0.518	30	57.91506	
248511015	16-MAR-2010 14:30:00	Soil	0.6	30	50	
248511016	16-MAR-2010 14:30:00	Soil	0.571	30	52.5394	
248511017	16-MAR-2010 14:30:00	Soil	0.5	30	60	
248511018	16-MAR-2010 14:30:00	Soil	0.526	30	57.03422	
248511019	16-MAR-2010 14:30:00	Soil	0.506	30	59.28854	
248511020	16-MAR-2010 14:30:00	Soil	0.5	30	60	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID:	964745.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Tara Griffin			LCS	1202069774	Metals LCS Soil SRM	UI031809A	.2	g
Method:	SW846 7471A Prep			MS	1202069776	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
Lab SOP:	GL-MA-E-010 REV# 23			MSD	1202069778	Mercury soil working intermediate standard for MS	WHG100316-14	.3	mL
Instrument:	BAL-002								

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
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Reagent/Solvent Lot ID	Description	Amount	Comments:
1255532-C	Hg reducing agent	2 mL	Sample 248511001 is a dark brown clumpy soil.
1274391-I	NITRIC ACID	.375 mL	Digestion Start Date: 16-MAR-10 14:30
1277235-A	Hydrochloric Acid Conc.	1.125 mL	Digestion End Date: 16-MAR-10 15:00
1277238-C	5% KMnO4 solution	7.5 mL	
WHG100316-07	Mercury Working Standard 1st Source CAL S	30 uL	
WHG100316-08	0.2/CRA	75 uL	
WHG100316-09	Mercury Working Standard 1st Source CAL S	300 uL	
WHG100316-10	Mercury Working 1st Source CAL S 2.0	750 uL	
WHG100316-11	Mercury Working 1st Source CAL S 5.0/CCV	1.5 mL	
WHG100316-12	Mercury Working 1st Source CAL S 10.0	750 uL	
	Mercury Working 2nd Source S 5.0/ICV		

DATA EXCEPTION REPORT

Mo.Day Yr. 06-APR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 961532	Sample Numbers: See Below		
<p>Potentially affected work order(s)(SDG): 248511(10-2194)</p> <p>Application Issues:</p> <p>Failed Recovery for MS/PS</p> <p>Failed RPD for MS/MSD, or PS/PSD</p> <p>Failed Recovery for MSD/PSD</p>			
Specification and Requirements		DER Disposition:	
<p>Exception Description:</p> <p>1. Failed Recovery for MS/PS:</p> <p>QC 1202062396MS</p> <p>2. Failed RPD for MS/MSD, or PS/PSD:</p> <p>QC 1202062398MSD</p> <p>3. Failed Recovery for MSD/PSD:</p> <p>QC 1202062398MSD</p>		<p>1./3. The matrix spike and matrix spike duplicate recovery failed outside of the control limits for barium,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.</p> <p>2. The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for iron 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.</p>	

Originator's Name:
Helen Camello 09-APR-10

Data Validator/Group Leader:
Louise Smith 13-APR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 12-JUN-10
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 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: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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% H_2O (NH_4) $_2$ SiF $_6$
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H_2O (NH_4) $_2$ SiF $_6$
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO_3
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: UI100310-48 **Opened:** 19-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 12-MAR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 19-MAR-11 **Lot Number :** 1019141
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100310-49.13 **Opened:** 31-MAR-10 **Amount :** 100 ml
Name: Trace ICP ICSAB **Received:** 12-MAR-10 **Catalog Number :** 160066-04
Type: Source Material **Expires:** 01-APR-10 **Lot Number :** 1019142
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Inteferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI100317-06 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-MAR-10 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019161
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 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: UI100317-07 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-MAR-10 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019162
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI100317-08 **Opened:** 17-MAR-10 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-MAR-10 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-MAR-11 **Lot Number :** 1019163
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI100325-40 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Standard Logbook

Serial ID: UI100325-41 **Opened:** 25-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 25-MAR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100329-40 **Opened:** 08-APR-10 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 29-MAR-10 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 08-APR-11 **Lot Number :** 1008325
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI100329-41 **Opened:** 08-APR-10 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 29-MAR-10 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 08-APR-11 **Lot Number :** 1008323
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI100329-42 **Opened:** 01-APR-10 **Amount :** 200 mL
Name: SILICON **Received:** 29-MAR-10 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 01-APR-11 **Lot Number :** 1004838
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: UI100331-42 **Opened:** 08-APR-10 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 31-MAR-10 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 08-APR-11 **Lot Number :** 1019414
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI100401-48 **Opened:** 02-APR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 01-APR-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 16-APR-10 **Lot Number :** 1019463
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: UI100405-12 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 05-APR-10 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019466
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Standard Logbook

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		

Serial ID: UI100405-13 **Opened:** 05-APR-10 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 05-APR-10 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019467
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 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: UI100405-40 **Opened:** 05-APR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 02-APR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100405-41 **Opened:** 05-APR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 02-APR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019348
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: O2SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100405-60 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Serial ID: UI100405-61 **Opened:** 05-APR-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 05-APR-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 05-APR-11 **Lot Number :** 1019464
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI100415-11 **Opened:** 15-APR-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 15-APR-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 15-APR-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

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
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

Standard Logbook

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: UI1286772-01

Opened: 16-MAR-10

Lot Number :

1019097

Name: METALSPIKE-1

Received: 16-MAR-10

Type: Source Material

Expires: 16-MAR-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
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: UI1286774-06

Opened: 16-MAR-10

Lot Number :

1018913

Name: METALSPIKE-2

Received: 16-MAR-10

Type: Source Material

Expires: 16-MAR-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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI1286780-A **Opened:** 16-MAR-10 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 16-MAR-10 **Lot Number :** 1017435
Type: Source Material **Expires:** 16-MAR-11
Employee: Bryan Davis
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI1286784-B **Opened:** 16-MAR-10 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 16-MAR-10 **Lot Number :** 1017435
Type: Source Material **Expires:** 16-MAR-11
Employee: Bryan Davis
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

Standard Logbook

Serial ID: UMS100415-01 **Opened:** 15-APR-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 15-APR-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-20JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100415-02 **Opened:** 15-APR-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 15-APR-10 **Lot Number :** 22-21JB
Type: Source Material **Expires:** 28-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100415-03 **Opened:** 15-APR-11 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 15-APR-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-11 **Lot Number :** 22-22JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Standard Logbook

Serial ID: IHG100316-01 **Opened:** 16-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 16-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 17-MAR-10 **Solvent :** 1mL HNO3 + Typel H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100316-02 **Opened:** 16-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 17-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100316-07 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2CRA **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100316-08 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.5 **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Standard Logbook

Serial ID: WHG100316-09 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100316-10 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100316-11 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100316-12 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-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.
IHG100316-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Standard Logbook

Serial ID: WHG100316-14 **Opened:** 16-MAR-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 16-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 23-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WI100331-42 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100331-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100331-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100331-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100331-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100331-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100331-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100331-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100331-43 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100331-44 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1 %HNO3-1293083
Employee: Helen Carnello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Serial ID: WI100331-45 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1293083
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100331-46 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL AND 1%HNO3-1293083
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
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: WI100331-47 **Opened:** 31-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 01-APR-10 **Solvent :** 3%HCL &1%HNO3-1293083
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
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: WI100412-42 **Opened:** 12-APR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 29-MAR-10 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1300128
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.
WI100412-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100412-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100412-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100412-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100412-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100412-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100412-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100412-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100412-43 **Opened:** 12-APR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 29-MAR-10 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1300128
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI100329-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI100329-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI100329-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI100329-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100329-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI100331-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI100331-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L

Standard Logbook

Serial ID: WI100412-44 **Opened:** 12-APR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 29-MAR-10 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL and 1 %HNO3-1300128
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100329-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI100329-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI100329-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI100329-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100329-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI100331-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI100331-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Standard Logbook

Serial ID: WI100412-45 **Opened:** 12-APR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL and 1%HNO3 -1300128
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: WI100412-46 **Opened:** 12-APR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL AND 1%HNO3-1300128
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
UI100329-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI100329-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100412-47 **Opened:** 12-APR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 13-APR-10 **Solvent :** 3%HCL &1%HNO3-1300128
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: WMS100417-04 **Opened:** 17-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 17-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 18-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1300209
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100415-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100415-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100415-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100417-04A **Opened:** 17-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 17-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 18-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100417-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100417-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100417-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100417-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100417-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100417-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: <u>WMS100417-05</u>	Opened: <u>17-APR-10</u>	Balance Id : <u>40245216</u>
Name: <u>ICPMS ICV</u>	Received: <u>17-APR-10</u>	Pipet Id : <u>3541598</u>
Type: <u>Working</u>	Expires: <u>18-APR-10</u>	Solvent : <u>2%HNO3/1%HCl - 1300209</u>
Employee: <u>Paul Boyd</u>		
Supplier: <u>GEL</u>		
Description: <u>ICPMS ICV</u>		
Comments: <u>None</u>		

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100417-06 **Opened:** 17-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 17-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 18-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
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: WMS100417-07 **Opened:** 17-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 17-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 18-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1300209
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100417-08 **Opened:** 17-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 17-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 18-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100417-70 **Opened:** 17-APR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 17-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 18-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100405-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100405-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100405-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100405-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100405-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100405-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100405-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100418-04 **Opened:** 18-APR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 18-APR-10 **Balance Id :** 4025216
Type: Working **Expires:** 19-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1300209
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100415-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100415-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100415-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100415-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100415-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100418-04A **Opened:** 18-APR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 18-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 19-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100418-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100418-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100418-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100418-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100418-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100418-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100418-05 **Opened:** 18-APR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 18-APR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 19-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI100317-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI100317-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI100317-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100317-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI100317-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100418-06 **Opened:** 18-APR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 18-APR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 19-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100418-07 **Opened:** 18-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 18-APR-10 **Lot Number :** 1010773
Type: Working **Expires:** 19-APR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1300209
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100418-08 **Opened:** 18-APR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 18-APR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 19-APR-10 **Solvent :** 2%HNO3/1%HCl - 1300209
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI100405-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI100405-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI100405-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100405-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI100405-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI100405-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI100405-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI100405-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI100405-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100415-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100415-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100415-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100415-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 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

Standard Logbook

Serial ID: 1250038-02 Opened: 04-JAN-10 Lot Number : ZU74081198 mL
Name: B-H2O2 Received: 04-JAN-10
Type: Reagent/Solvent Expires: 04-JAN-11
Employee: Bryan Davis
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Serial ID: 1255532-C Opened: 15-JAN-10 Balance Id : BAL-002
Name: B-NaCl.NH2OH.HCl-MER Received: 15-JAN-10
Type: Reagent/Solvent Expires: 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1274391-1 Opened: 24-FEB-10 Instrument Id : MERCURY
Name: B-HNO3-MER Received: 24-FEB-10 Lot Number : H44025
Type: Reagent/Solvent Expires: 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1277235-A Opened: 01-MAR-10 Lot Number : J02039
Name: B-HCl-MER Received: 01-MAR-10
Type: Reagent/Solvent Expires: 01-MAR-11
Employee: Tara Griffin
Supplier: J T Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1277238-C Opened: 01-MAR-10 Balance Id : BAL-002
Name: B-KMnO4-MER Received: 01-MAR-10
Type: Reagent/Solvent Expires: 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: <u>1277916</u>	Opened: <u>02-MAR-10</u>	Lot Number : <u>J02039</u>
Name: <u>I-HCL</u>	Received: <u>02-MAR-10</u>	Preservative_Id : <u>5 none</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>02-MAR-11</u>	
Employee: <u>Francena Armstrong</u>		
Supplier: <u>J.T. BAKER</u>		
Description: <u>HYDROCHLORIC ACID</u>		
Comments: <u>None</u>		

Serial ID: <u>1282564</u>	Opened: <u>09-MAR-10</u>	Lot Number : <u>J02039</u>
Name: <u>I-HCL</u>	Received: <u>09-MAR-10</u>	Preservative_Id : <u>5 none</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>09-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>J.T. BAKER</u>		
Description: <u>HYDROCHLORIC ACID</u>		
Comments: <u>None</u>		

Serial ID: <u>1282566</u>	Opened: <u>09-MAR-10</u>	Lot Number : <u>J 04043 L</u>
Name: <u>I-HNO3</u>	Received: <u>09-MAR-10</u>	
Type: <u>Reagent/Solvent</u>	Expires: <u>09-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>BAKER</u>		
Description: <u>Nitric Acid CONC.</u>		
Comments: <u>None</u>		

Serial ID: <u>1291278</u>	Opened: <u>25-MAR-10</u>	Lot Number : <u>J 08035 L</u>
Name: <u>I-HNO3</u>	Received: <u>25-MAR-10</u>	
Type: <u>Reagent/Solvent</u>	Expires: <u>25-MAR-11</u>	
Employee: <u>Anthony Green</u>		
Supplier: <u>BAKER</u>		
Description: <u>Nitric Acid CONC.</u>		
Comments: <u>None</u>		

Serial ID: <u>1293083</u>	Opened: <u>29-MAR-10</u>	Amount : <u>20 L</u>
Name: <u>B-ICP-RINSE SOLN</u>	Received: <u>29-MAR-10</u>	Lot Number : <u>H04040+G34050</u>
Type: <u>Reagent/Solvent</u>	Expires: <u>04-APR-10</u>	Solvent : <u>3%HCL+1%HNO3</u>
Employee: <u>Helen Camello</u>		
Supplier: <u>GEL</u>		
Description: <u>3%HCL+1%HNO3 RINSE SOLN.</u>		
Comments: <u>None</u>		

Standard Logbook

Serial ID: 1300128 **Opened:** 12-APR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 02-APR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 18-APR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1300209 **Opened:** 12-APR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 12-APR-10
Type: Reagent/Solvent **Expires:** 19-APR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1277916	I-HCL	36.5-38.0	90 mL	9 l	N/A
1291278	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Serial ID: 1302252 **Opened:** 15-APR-10 **Lot Number :** J 10027 L
Name: I-HNO3 **Received:** 15-APR-10
Type: Reagent/Solvent **Expires:** 15-APR-11
Employee: Louis Hall
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

General Chemistry

Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-2194**

Method/Analysis Information

Product: pH

Analytical Batch: 961559 and 961560 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439
1202062451	248374001(RE36-10-7494) Sample Duplicate (DUP)
1202062452	248374002(RE36-10-7493) Sample Duplicate (DUP)
1202062453	Laboratory Control Sample (LCS)
1202062454	248511008(RE36-10-7444) Sample Duplicate (DUP)
1202062455	248511009(RE36-10-7448) Sample Duplicate (DUP)
1202062456	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Electrode analysis was performed on a PerpHecT LogR pH/ISE.

The Electrode analysis was performed on a PerpHecT pH Meter Orion 370.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information**Laboratory Control Sample (LCS) Recovery**

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248374001 (RE36-10-7494), 248374002 (RE36-10-7493)- Batch 961559, 248511008 (RE36-10-7444) and 248511009 (RE36-10-7448)- Batch 961560.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

The following samples from this sample group were received by the lab outside of the method specified holding time: 248511001 (RE36-10-7407), 248511002 (RE36-10-7421), 248511003 (RE36-10-7422), 248511004 (RE36-10-7451), 248511005 (RE36-10-7449), 248511006 (RE36-10-7445), 248511007 (RE36-10-7450)- Batch 961559, 1202062454 (RE36-10-7444), 1202062455 (RE36-10-7448), 248511008 (RE36-10-7444), 248511009 (RE36-10-7448), 248511010 (RE36-10-7447), 248511011 (RE36-10-7443), 248511012 (RE36-10-7452), 248511013 (RE36-10-7437), 248511014 (RE36-10-7440), 248511015 (RE36-10-7435), 248511016 (RE36-10-7441), 248511017 (RE36-10-7442), 248511018 (RE36-10-7436), 248511019 (RE36-10-7438) and 248511020 (RE36-10-7439)- Batch 961560.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	961281	Method:	SW9012A Cyanide and Total
Prep Batch :	961280	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439
1202061933	Method Blank (MB)
1202061934	248511001(RE36-10-7407) Sample Duplicate (DUP)
1202061935	248511002(RE36-10-7421) Sample Duplicate (DUP)
1202061936	248511001(RE36-10-7407) Matrix Spike (MS)
1202061937	248511002(RE36-10-7421) Matrix Spike (MS)
1202061938	248511001(RE36-10-7407) Matrix Spike Duplicate (MSD)
1202061939	248511002(RE36-10-7421) Matrix Spike Duplicate (MSD)
1202061940	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: 248511001 (RE36-10-7407) and 248511002 (RE36-10-7421).

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. 1202061935 (RE36-10-7421) and 248511002 (RE36-10-7421).

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: 1202061940 (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.

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 968236 **Method:** EPA 300.0 Nitrate in Soil
Prep Batch : 968234 **Method:** EPA 300.0 PREP

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
248511001	RE36-10-7407
248511002	RE36-10-7421
248511003	RE36-10-7422
248511004	RE36-10-7451
248511005	RE36-10-7449
248511006	RE36-10-7445
248511007	RE36-10-7450
248511008	RE36-10-7444
248511009	RE36-10-7448
248511010	RE36-10-7447
248511011	RE36-10-7443
248511012	RE36-10-7452
248511013	RE36-10-7437
248511014	RE36-10-7440
248511015	RE36-10-7435
248511016	RE36-10-7441
248511017	RE36-10-7442
248511018	RE36-10-7436
248511019	RE36-10-7438
248511020	RE36-10-7439
1202078558	Method Blank (MB)
1202078559	248511001(RE36-10-7407) Sample Duplicate (DUP)
1202078560	248511020(RE36-10-7439) Sample Duplicate (DUP)
1202078561	248511001(RE36-10-7407) Matrix Spike (MS)
1202078562	248511020(RE36-10-7439) Matrix Spike (MS)
1202078563	248511001(RE36-10-7407) Matrix Spike Duplicate (MSD)
1202078564	248511020(RE36-10-7439) Matrix Spike Duplicate (MSD)
1202078565	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 17.

Preparation/Analytical Method Verification

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

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-3000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 248511001 (RE36-10-7407) and 248511020 (RE36-10-7439).

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 RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Manual Integrations

The following samples from this sample group had to be manually integrated due to errors in the instrument software peak integration: 248511003 (RE36-10-7422), 248511004 (RE36-10-7451), 248511014 (RE36-10-7440), 248511017 (RE36-10-7442), 248511018 (RE36-10-7436) and 248511019 (RE36-10-7438).

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer: Nick Del Emore Date: 3.27.10

Sample Data Summary

GEL LABORATORIES LLC

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Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-2194 GEL Work Order: 248511

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

Nick West Emore 3.27.10

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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 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7448
Sample ID: 248511009
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 17.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	7.68	0.010	0.100	SU	1	TXT1	03/05/10	1652	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		888	72.3	266	ug/kg	1	AXC2	03/11/10	1751	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.29	0.347	1.16	mg/kg	1	MAR1	03/25/10	0008	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7447
Sample ID: 248511010
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 28.5%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	7.58	0.010	0.100	SU	1	TXT1	03/05/10	1656	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		1780	95.1	350	ug/kg	1	AXC2	03/11/10	1752	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		7.51	0.376	1.25	mg/kg	1	MAR1	03/25/10	0035	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7443
Sample ID: 248511011
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 25.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.40	0.010	0.100	SU	1	TXT1	03/05/10	1659	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		306	82.5	303	ug/kg	1	AXC2	03/11/10	1753	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.83	0.395	1.32	mg/kg	1	MAR103/25/10	0102	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7452
Sample ID: 248511012
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 24.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.68	0.010	0.100	SU	1	TXT1	03/05/10	1702	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		4240	83.8	308	ug/kg	1	AXC2	03/11/10	1754	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.56	0.361	1.20	mg/kg	1	MAR1	03/25/10	0129	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7437
Sample ID: 248511013
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 16.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.9C	H	6.13	0.010	0.100	SU	1	TXT1	03/05/10	1704	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		875	70.0	257	ug/kg	1	AXC2	03/11/10	1758	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.61	0.348	1.16	mg/kg	1	MAR1	03/25/10	0156	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7440
Sample ID: 248511014
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 8.13%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.29	0.010	0.100	SU	1	TXT1	03/05/10	1705	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	156	66.1	243	ug/kg	1	AXC2	03/11/10	1759	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.17	0.323	1.08	mg/kg	1	MAR103/25/10	0223	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7435
Sample ID: 248511015
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 30.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.54	0.010	0.100	SU	1	TXT1	03/05/10	1708	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	93.6	344	ug/kg	1	AXC2	03/11/10	1800	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.58	0.410	1.37	mg/kg	1	MAR1	03/25/10	0249	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7441
Sample ID: 248511016
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 22.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	6.09	0.010	0.100	SU	1	TXT1	03/05/10	1710	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	269	74.2	273	ug/kg	1	AXC2	03/11/10	1801	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		3.29	0.356	1.19	mg/kg	1	MAR1	03/25/10	0410	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7442
Sample ID: 248511017
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 13.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	5.74	0.010	0.100	SU	1	TXT1	03/05/10	1712	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	71.3	262	ug/kg	1	AXC2	03/11/10	1802	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.24	0.339	1.13	mg/kg	1	MAR1	03/25/10	0437	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7436
Sample ID: 248511018
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 21.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	6.44	0.010	0.100	SU	1	TXT1	03/05/10	1715	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.5	274	ug/kg	1	AXC2	03/11/10	1802	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.25	0.364	1.21	mg/kg	1	MAR1	03/25/10	0504	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7438
Sample ID: 248511019
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 5.34%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.1C	H	5.59	0.010	0.100	SU	1	TXT1	03/05/10	1718	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	69.1	254	ug/kg	1	AXC2	03/11/10	1803	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.03	0.298	0.992	mg/kg	1	MAR1	03/25/10	0531	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7439
Sample ID: 248511020
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 18.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.0C	H	6.13	0.010	0.100	SU	1	TXT1	03/05/10	1721	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	157	75.5	277	ug/kg	1	AXC2	03/11/10	1804	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.350	1.17	mg/kg	1	MAR103	03/25/10	0558	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Contact: Ms. Joylene Valdez

Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7407
Sample ID: 248511001
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 22.9%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.4C	H	7.05	0.010	0.100	SU	1	EXF1	03/05/10	1512	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		572	78.7	289	ug/kg	1	AXC2	03/11/10	1735	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		4.25	0.342	1.14	mg/kg	1	MAR1	03/24/10	1818	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7421
Sample ID: 248511002
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 15%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.0C	H	5.95	0.010	0.100	SU	1	EXF1	03/05/10	1513	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	70.1	258	ug/kg	1	AXC2	03/11/10	1738	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.39	0.348	1.16	mg/kg	1	MAR1	03/24/10	2006	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7422
Sample ID: 248511003
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 5.86%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.4C	H	5.80	0.010	0.100	SU	1	EXF1	03/05/10	1515	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	68.1	251	ug/kg	1	AXC2	03/11/10	1745	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.01	0.290	0.968	mg/kg	1	MAR1	03/24/10	2033	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7451
Sample ID: 248511004
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 39.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.7C	H	6.55	0.010	0.100	SU	1	EXF1	03/05/10	1516	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		2880	95.1	350	ug/kg	1	AXC2	03/11/10	1746	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.69	0.476	1.59	mg/kg	1	MAR103/24/10	2100	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7449
Sample ID: 248511005
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 17.8%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	6.46	0.010	0.100	SU	1	EXF1	03/05/10	1519	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		477	70.1	258	ug/kg	1	AXC2	03/11/10	1747	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.95	0.355	1.18	mg/kg	1	MAR1	03/24/10	2127	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: **LANL ER Project**

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7445
Sample ID: 248511006
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 25.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.4C	H	6.40	0.010	0.100	SU	1	EXF1	03/05/10	1523	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		621	77.5	285	ug/kg	1	AXC2	03/11/10	1748	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.64	0.402	1.34	mg/kg	1	MAR103/24/10	2247	968236		3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7450
Sample ID: 248511007
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 9.88%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.3C	H	6.45	0.010	0.100	SU	1	EXF1	03/05/10	1524	961559	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	82.1	75.5	277	ug/kg	1	AXC2	03/11/10	1749	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.22	0.296	0.986	mg/kg	1	MAR1	03/24/10	2314	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

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Project: LANL ER Project

Report Date: March 27, 2010

Client SDG: 10-2194

Client Sample ID: RE36-10-7444
Sample ID: 248511008
Matrix: R
Collect Date: 25-FEB-10 12:00
Receive Date: 03-MAR-10
Collector: Client
Moisture: 20.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 18.8C	H	6.47	0.010	0.100	SU	1	TXT1	03/05/10	1644	961560	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		370	85.6	315	ug/kg	1	AXC2	03/11/10	1750	961281	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.86	0.375	1.25	mg/kg	1	MAR1	03/24/10	2341	968236	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	VH1	03/24/10	0920	968234
SW846 9010B Prep	SW846 9010B Prep	AXS5	03/11/10	1419	961280

The following Analytical Methods were performed

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

Quality Control Summary

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QC Summary

Report Date: March 27, 2010

Page 1 of 3

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Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 248511

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	961559										
QC1202062451	248374001	DUP									
pH		H	6.28	H	6.30	SU	0.318	(0%-10%)	EXF1	03/05/10	14:30
QC1202062452	248374002	DUP									
pH		H	6.34	H	6.41	SU	1.10	(0%-10%)		03/05/10	14:33
QC1202062453	LCS										
pH	7.00				7.03	SU		100	(95%-105%)		03/05/10 14:24
Batch	961560										
QC1202062454	248511008	DUP									
pH		H	6.47	H	6.43	SU	0.620	(0%-10%)	TXT1	03/05/10	16:48
QC1202062455	248511009	DUP									
pH		H	7.68	H	7.76	SU	1.04	(0%-10%)		03/05/10	16:53
QC1202062456	LCS										
pH	7.00				6.95	SU		99.3	(95%-105%)		03/05/10 16:43
Flow Injection Analysis											
Batch	961281										
QC1202061934	248511001	DUP									
Cyanide, Total			572		642	ug/kg	11.5 ^	(+/-284)	AXC2	03/11/10	17:36
QC1202061935	248511002	DUP									
Cyanide, Total		U	ND	J	188	ug/kg	200	(+/-272)		03/11/10	17:39
QC1202061940	LCS										
Cyanide, Total	67900				63800	ug/kg		93.9	(32%-157%)		03/11/10 17:34
QC1202061933	MB										
Cyanide, Total				U	250	ug/kg				03/11/10	17:33
QC1202061936	248511001	MS									
Cyanide, Total	6230		572		6420	ug/kg		93.8	(26%-158%)		03/11/10 17:37
QC1202061937	248511002	MS									
Cyanide, Total	5160	U	ND		4890	ug/kg		93.7	(26%-158%)		03/11/10 17:40
QC1202061938	248511001	MSD									
Cyanide, Total	5890		572		6950	ug/kg	7.98	108	(0%-30%)		03/11/10 17:37
QC1202061939	248511002	MSD									
Cyanide, Total	5650	U	ND		5020	ug/kg	2.54	87.7	(0%-30%)		03/11/10 17:41
Ion Chromatography											
Batch	968236										
QC1202078559	248511001	DUP									
Nitrate-N			4.25		4.23	mg/kg	0.569 ^	(+/-1.14)	MAR1	03/24/10	18:45
QC1202078560	248511020	DUP									
Nitrate-N		U	ND	U	ND	mg/kg	N/A			03/25/10	06:25
QC1202078565	LCS										
Nitrate-N	50.0				48.4	mg/kg		96.8	(90%-110%)		03/24/10 17:51
QC1202078558	MB										
Nitrate-N				U	1.00	mg/kg				03/24/10	17:24
QC1202078561	248511001	MS									

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QC Summary

Workorder: 248511

Page 2 of 3

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	968236										
Nitrate-N	57.6	4.25		57.4	mg/kg		92.2	(90%-110%)		03/24/10	19:12
QC1202078562 248511020 MS											
Nitrate-N	57.9	U	ND	53.9	mg/kg		93.2	(90%-110%)	MAR1	03/25/10	06:52
QC1202078563 248511001 MSD											
Nitrate-N	56.7	4.25		57.3	mg/kg	0.209	93.4	(0%-20%)		03/24/10	19:39
QC1202078564 248511020 MSD											
Nitrate-N	58.1	U	ND	54.1	mg/kg	0.335	93.1	(0%-20%)		03/25/10	07:19

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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QC Summary

Workorder: 248511

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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: 27-MAR-2010 12:19

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2194

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	11-MAR-2010 16:25:47	OM_3-11-2010_16-17-08	146	150	97.3	(90%-110%)	Yes
CCV	11-MAR-2010 17:29:52	OM_3-11-2010_16-17-08	106	100	106	(90%-110%)	Yes
CCV	11-MAR-2010 17:42:19	OM_3-11-2010_16-17-08	108	100	108	(90%-110%)	Yes
CCV	11-MAR-2010 17:54:54	OM_3-11-2010_16-17-08	108	100	108	(90%-110%)	Yes
CCV	11-MAR-2010 18:07:26	OM_3-11-2010_16-17-08	107	100	107	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	11-MAR-2010 16:27:38	OM_3-11-2010_16-17-08	-0.946	10	Yes
CCB	11-MAR-2010 17:31:43	OM_3-11-2010_16-17-08	-1.04	10	Yes
CCB	11-MAR-2010 17:44:10	OM_3-11-2010_16-17-08	-3.25	10	Yes
CCB	11-MAR-2010 17:56:45	OM_3-11-2010_16-17-08	-0.875	10	Yes
CCB	11-MAR-2010 18:09:16	OM_3-11-2010_16-17-08	-1.32	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 27-MAR-2010 12:19

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-2194

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	23-MAR-2010 19:08:00	100323	4.796	5	95.9	(90%-110%)	Yes
CCV	24-MAR-2010 16:30:00	100323	7.6541	7.5	102	(90%-110%)	Yes
CCV	24-MAR-2010 21:53:00	100323	4.7564	5	95.1	(90%-110%)	Yes
CCV	25-MAR-2010 03:16:00	100323	7.6153	7.5	102	(90%-110%)	Yes
CCV	25-MAR-2010 07:45:00	100323	4.8512	5	97	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	23-MAR-2010 19:35:00	100323	0	0.1	Yes
CCB	24-MAR-2010 16:57:00	100323	0	0.1	Yes
CCB	24-MAR-2010 22:20:00	100323	0	0.1	Yes
CCB	25-MAR-2010 03:43:00	100323	0	0.1	Yes
CCB	25-MAR-2010 08:12:00	100323	0	0.1	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID:	961280.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Alan Stanley			LCS	1202061940	Total Cyanide Solid LCS	URF1200957-01	.25	g
Method:	SW846 9010B Prep			MS	1202061936	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Lab SOP:	GL-GC-E-067 REV# 13			MS	1202061937	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument:	Sartorius Balance B-001			MSD	1202061938	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
				MSD	1202061939	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202061933 MB	11-MAR-2010 14:19:00	Soil	0.5	25	50	>12
1202061940 LCS	11-MAR-2010 14:19:00	Soil	0.25	25	100	>12
248511001	11-MAR-2010 14:19:00	Soil	0.56	25	44.64286	>12
1202061934 DUP (248511001)	11-MAR-2010 14:19:00	Soil	0.57	25	43.85965	>12
1202061936 MS (248511001)	11-MAR-2010 14:19:00	Soil	0.52	25	48.07692	>12
1202061938 MSD (248511001)	11-MAR-2010 14:19:00	Soil	0.55	25	45.45455	>12
248511002	11-MAR-2010 14:19:00	Soil	0.57	25	43.85965	>12
1202061935 DUP (248511002)	11-MAR-2010 14:19:00	Soil	0.54	25	46.2963	>12
1202061937 MS (248511002)	11-MAR-2010 14:19:00	Soil	0.57	25	43.85965	>12
1202061939 MSD (248511002)	11-MAR-2010 14:19:00	Soil	0.52	25	48.07692	>12
248511003	11-MAR-2010 14:19:00	Soil	0.53	25	47.16981	>12
248511004	11-MAR-2010 14:19:00	Soil	0.59	25	42.37288	>12
248511005	11-MAR-2010 14:19:00	Soil	0.59	25	42.37288	>12
248511006	11-MAR-2010 14:19:00	Soil	0.59	25	42.37288	>12
248511007	11-MAR-2010 14:19:00	Soil	0.5	25	50	>12
248511008	11-MAR-2010 14:19:00	Soil	0.5	25	50	>12
248511009	11-MAR-2010 14:19:00	Soil	0.57	25	43.85965	>12
248511010	11-MAR-2010 14:19:00	Soil	0.5	25	50	>12
248511011	11-MAR-2010 14:19:00	Soil	0.55	25	45.45455	>12
248511012	11-MAR-2010 14:19:00	Soil	0.54	25	46.2963	>12
248511013	11-MAR-2010 14:19:00	Soil	0.58	25	43.10345	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 961280.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202061940	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202061936	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202061937	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202061938	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202061939	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248511014	11-MAR-2010 14:19:00	Soil	0.56	25	44.64286	>12
248511015	11-MAR-2010 14:19:00	Soil	0.52	25	48.07692	>12
248511016	11-MAR-2010 14:19:00	Soil	0.59	25	42.37288	>12
248511017	11-MAR-2010 14:19:00	Soil	0.55	25	45.45455	>12
248511018	11-MAR-2010 14:19:00	Soil	0.58	25	43.10345	>12
248511019	11-MAR-2010 14:19:00	Soil	0.52	25	48.07692	>12
248511020	11-MAR-2010 14:19:00	Soil	0.55	25	45.45455	>12

Comments:

Reagent/Solvent Lot ID	Description	Amount
1260189-C	50% H2SO4 CN Prep	2.5 mL
1270661-C	Bismuth Nitrate Solution	1.25 mL
1270663-C	0.8N H3NO3S	1.25 mL
1270669-C	51% MgCl2 Soln	1 mL
1273851-C	0.25N Sodium Hydroxide Solution	25 mL
WCN100310-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	3/11/2010 16:18:39	OM_3-11-2010_16-17-08
150 ppb		1	axc2	3/11/2010 16:19:30	OM_3-11-2010_16-17-08
100 ppb		1	axc2	3/11/2010 16:20:23	OM_3-11-2010_16-17-08
50 ppb		1	axc2	3/11/2010 16:21:16	OM_3-11-2010_16-17-08
10 ppb		1	axc2	3/11/2010 16:22:09	OM_3-11-2010_16-17-08
CRDL 5.0 ppb		1	axc2	3/11/2010 16:23:03	OM_3-11-2010_16-17-08
ICAL-00		1	axc2	3/11/2010 16:23:57	OM_3-11-2010_16-17-08
ICV		1	axc2	3/11/2010 16:25:47	OM_3-11-2010_16-17-08
ICB		1	axc2	3/11/2010 16:27:38	OM_3-11-2010_16-17-08
CRDL		1	axc2	3/11/2010 16:29:27	OM_3-11-2010_16-17-08
1202061957	961288	1	axc2	3/11/2010 16:31:17	OM_3-11-2010_16-17-08
1202061964	961288	25	axc2	3/11/2010 16:32:10	OM_3-11-2010_16-17-08
248520001	961288	1	axc2	3/11/2010 16:33:03	OM_3-11-2010_16-17-08
1202061958	961288	1	axc2	3/11/2010 16:33:56	OM_3-11-2010_16-17-08
1202061960	961288	1	axc2	3/11/2010 16:34:49	OM_3-11-2010_16-17-08
1202061962*	961288	1	axc2	3/11/2010 16:35:42	OM_3-11-2010_16-17-08
248520002	961288	1	axc2	3/11/2010 16:36:34	OM_3-11-2010_16-17-08
1202061959	961288	1	axc2	3/11/2010 16:37:27	OM_3-11-2010_16-17-08
1202061961	961288	1	axc2	3/11/2010 16:38:19	OM_3-11-2010_16-17-08
1202061963	961288	1	axc2	3/11/2010 16:39:12	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 16:40:04	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 16:41:54	OM_3-11-2010_16-17-08
248520003	961288	1	axc2	3/11/2010 16:43:43	OM_3-11-2010_16-17-08
248520004	961288	1	axc2	3/11/2010 16:44:34	OM_3-11-2010_16-17-08
248520005	961288	1	axc2	3/11/2010 16:45:27	OM_3-11-2010_16-17-08
248520006	961288	1	axc2	3/11/2010 16:46:18	OM_3-11-2010_16-17-08
248520007	961288	1	axc2	3/11/2010 16:47:10	OM_3-11-2010_16-17-08
248520008	961288	1	axc2	3/11/2010 16:48:03	OM_3-11-2010_16-17-08
248520009	961288	1	axc2	3/11/2010 16:48:57	OM_3-11-2010_16-17-08
248520010	961288	1	axc2	3/11/2010 16:49:50	OM_3-11-2010_16-17-08
248520011	961288	1	axc2	3/11/2010 16:50:44	OM_3-11-2010_16-17-08
248549001	961288	1	axc2	3/11/2010 16:51:37	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 16:52:29	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 16:54:20	OM_3-11-2010_16-17-08
1202061962	961288	1	axc2	3/11/2010 16:56:08	OM_3-11-2010_16-17-08
248549002	961288	1	axc2	3/11/2010 16:57:01	OM_3-11-2010_16-17-08
248549003	961288	1	axc2	3/11/2010 16:57:55	OM_3-11-2010_16-17-08
248549004	961288	1	axc2	3/11/2010 16:58:47	OM_3-11-2010_16-17-08
248549005	961288	1	axc2	3/11/2010 16:59:40	OM_3-11-2010_16-17-08
248549006	961288	1	axc2	3/11/2010 17:00:32	OM_3-11-2010_16-17-08
1202061949	961286	1	axc2	3/11/2010 17:01:25	OM_3-11-2010_16-17-08
1202061956*	961286	25	axc2	3/11/2010 17:02:16	OM_3-11-2010_16-17-08
248517001	961286	1	axc2	3/11/2010 17:03:09	OM_3-11-2010_16-17-08
1202061950	961286	1	axc2	3/11/2010 17:04:01	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 17:04:53	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 17:06:44	OM_3-11-2010_16-17-08
1202061952	961286	1	axc2	3/11/2010 17:08:31	OM_3-11-2010_16-17-08
1202061954	961286	1	axc2	3/11/2010 17:09:25	OM_3-11-2010_16-17-08
248527002	961286	1	axc2	3/11/2010 17:10:19	OM_3-11-2010_16-17-08
1202061951	961286	1	axc2	3/11/2010 17:11:13	OM_3-11-2010_16-17-08
1202061953	961286	1	axc2	3/11/2010 17:12:06	OM_3-11-2010_16-17-08
1202061955	961286	1	axc2	3/11/2010 17:12:59	OM_3-11-2010_16-17-08
248527003	961286	1	axc2	3/11/2010 17:13:52	OM_3-11-2010_16-17-08
248527004	961286	1	axc2	3/11/2010 17:14:46	OM_3-11-2010_16-17-08
248527005	961286	1	axc2	3/11/2010 17:15:39	OM_3-11-2010_16-17-08
248527006	961286	1	axc2	3/11/2010 17:16:31	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010 17:17:24	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010 17:19:14	OM_3-11-2010_16-17-08

248527007	961286	1	axc2	3/11/2010	17:21:04	OM_3-11-2010_16-17-08
248527008	961286	1	axc2	3/11/2010	17:21:55	OM_3-11-2010_16-17-08
248527009	961286	1	axc2	3/11/2010	17:22:48	OM_3-11-2010_16-17-08
248527010	961286	1	axc2	3/11/2010	17:23:41	OM_3-11-2010_16-17-08
248527011	961286	1	axc2	3/11/2010	17:24:32	OM_3-11-2010_16-17-08
248527012	961286	1	axc2	3/11/2010	17:25:24	OM_3-11-2010_16-17-08
248527013	961286	1	axc2	3/11/2010	17:26:18	OM_3-11-2010_16-17-08
248527014	961286	1	axc2	3/11/2010	17:27:13	OM_3-11-2010_16-17-08
248527015	961286	1	axc2	3/11/2010	17:28:06	OM_3-11-2010_16-17-08
248527016	961286	1	axc2	3/11/2010	17:29:00	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:29:52	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:31:43	OM_3-11-2010_16-17-08
1202061933	961281	1	axc2	3/11/2010	17:33:32	OM_3-11-2010_16-17-08
1202061940	961281	25	axc2	3/11/2010	17:34:25	OM_3-11-2010_16-17-08
248511001	961281	1	axc2	3/11/2010	17:35:18	OM_3-11-2010_16-17-08
1202061934	961281	1	axc2	3/11/2010	17:36:11	OM_3-11-2010_16-17-08
1202061936	961281	1	axc2	3/11/2010	17:37:04	OM_3-11-2010_16-17-08
1202061938	961281	1	axc2	3/11/2010	17:37:57	OM_3-11-2010_16-17-08
248511002	961281	1	axc2	3/11/2010	17:38:50	OM_3-11-2010_16-17-08
1202061935	961281	1	axc2	3/11/2010	17:39:42	OM_3-11-2010_16-17-08
1202061937	961281	1	axc2	3/11/2010	17:40:35	OM_3-11-2010_16-17-08
1202061939	961281	1	axc2	3/11/2010	17:41:27	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:42:19	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:44:10	OM_3-11-2010_16-17-08
248511003	961281	1	axc2	3/11/2010	17:45:58	OM_3-11-2010_16-17-08
248511004	961281	1	axc2	3/11/2010	17:46:53	OM_3-11-2010_16-17-08
248511005	961281	1	axc2	3/11/2010	17:47:46	OM_3-11-2010_16-17-08
248511006	961281	1	axc2	3/11/2010	17:48:41	OM_3-11-2010_16-17-08
248511007	961281	1	axc2	3/11/2010	17:49:35	OM_3-11-2010_16-17-08
248511008	961281	1	axc2	3/11/2010	17:50:28	OM_3-11-2010_16-17-08
248511009	961281	1	axc2	3/11/2010	17:51:22	OM_3-11-2010_16-17-08
248511010	961281	1	axc2	3/11/2010	17:52:16	OM_3-11-2010_16-17-08
248511011	961281	1	axc2	3/11/2010	17:53:08	OM_3-11-2010_16-17-08
248511012	961281	1	axc2	3/11/2010	17:54:01	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	17:54:54	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	17:56:45	OM_3-11-2010_16-17-08
248511013	961281	1	axc2	3/11/2010	17:58:34	OM_3-11-2010_16-17-08
248511014	961281	1	axc2	3/11/2010	17:59:27	OM_3-11-2010_16-17-08
248511015	961281	1	axc2	3/11/2010	18:00:19	OM_3-11-2010_16-17-08
248511016	961281	1	axc2	3/11/2010	18:01:12	OM_3-11-2010_16-17-08
248511017	961281	1	axc2	3/11/2010	18:02:04	OM_3-11-2010_16-17-08
248511018	961281	1	axc2	3/11/2010	18:02:57	OM_3-11-2010_16-17-08
248511019	961281	1	axc2	3/11/2010	18:03:50	OM_3-11-2010_16-17-08
248511020	961281	1	axc2	3/11/2010	18:04:45	OM_3-11-2010_16-17-08
1202064160	962268	1	axc2	3/11/2010	18:05:39	OM_3-11-2010_16-17-08
1202064170	962268	1	axc2	3/11/2010	18:06:33	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:07:26	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:09:16	OM_3-11-2010_16-17-08
248638001	962268	1	axc2	3/11/2010	18:11:06	OM_3-11-2010_16-17-08
1202064161	962268	1	axc2	3/11/2010	18:11:59	OM_3-11-2010_16-17-08
1202064164	962268	1	axc2	3/11/2010	18:12:52	OM_3-11-2010_16-17-08
1202064167	962268	1	axc2	3/11/2010	18:13:46	OM_3-11-2010_16-17-08
248685001	962268	1	axc2	3/11/2010	18:14:39	OM_3-11-2010_16-17-08
248685002	962268	1	axc2	3/11/2010	18:15:32	OM_3-11-2010_16-17-08
248697001	962268	1	axc2	3/11/2010	18:16:25	OM_3-11-2010_16-17-08
248697002	962268	1	axc2	3/11/2010	18:17:18	OM_3-11-2010_16-17-08
248697003	962268	1	axc2	3/11/2010	18:18:10	OM_3-11-2010_16-17-08
248697004	962268	1	axc2	3/11/2010	18:19:03	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:19:56	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:21:46	OM_3-11-2010_16-17-08

248719001	962268	1	axc2	3/11/2010	18:23:35	OM_3-11-2010_16-17-08
248719002	962268	1	axc2	3/11/2010	18:24:30	OM_3-11-2010_16-17-08
248736002	962268	1	axc2	3/11/2010	18:25:24	OM_3-11-2010_16-17-08
248778001	962268	1	axc2	3/11/2010	18:26:18	OM_3-11-2010_16-17-08
248786001*	962268	1	axc2	3/11/2010	18:27:13	OM_3-11-2010_16-17-08
1202064163*	962268	1	axc2	3/11/2010	18:28:07	OM_3-11-2010_16-17-08
1202064166*	962268	1	axc2	3/11/2010	18:29:01	OM_3-11-2010_16-17-08
1202064169*	962268	1	axc2	3/11/2010	18:29:55	OM_3-11-2010_16-17-08
248799001	962268	1	axc2	3/11/2010	18:30:48	OM_3-11-2010_16-17-08
248805001	962268	1	axc2	3/11/2010	18:31:42	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:32:34	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:34:25	OM_3-11-2010_16-17-08
1202064162	962268	1	axc2	3/11/2010	18:36:14	OM_3-11-2010_16-17-08
1202064165	962268	1	axc2	3/11/2010	18:37:07	OM_3-11-2010_16-17-08
1202064168	962268	1	axc2	3/11/2010	18:38:00	OM_3-11-2010_16-17-08
248805003	962268	1	axc2	3/11/2010	18:38:53	OM_3-11-2010_16-17-08
248839001	962268	1	axc2	3/11/2010	18:39:46	OM_3-11-2010_16-17-08
248839002	962268	1	axc2	3/11/2010	18:40:39	OM_3-11-2010_16-17-08
248861001	962268	1	axc2	3/11/2010	18:41:34	OM_3-11-2010_16-17-08
248861002	962268	1	axc2	3/11/2010	18:42:29	OM_3-11-2010_16-17-08
248736002	962268	10	axc2	3/11/2010	18:43:23	OM_3-11-2010_16-17-08
248786001	962268	1	axc2	3/11/2010	18:44:18	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:45:10	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:47:01	OM_3-11-2010_16-17-08
1202064163	962268	1	axc2	3/11/2010	18:48:51	OM_3-11-2010_16-17-08
1202064166	962268	1	axc2	3/11/2010	18:49:45	OM_3-11-2010_16-17-08
1202064169	962268	1	axc2	3/11/2010	18:50:39	OM_3-11-2010_16-17-08
1202061956	961286	25	axc2	3/11/2010	18:51:31	OM_3-11-2010_16-17-08
CCV		1	axc2	3/11/2010	18:52:24	OM_3-11-2010_16-17-08
CCB		1	axc2	3/11/2010	18:54:14	OM_3-11-2010_16-17-08

Author: axc2

Date : 3/11/2010

Original Run Filename: OM_3-11-2010_16-17-08.OMN created 3/11/2010 16:17:08
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_3-11-2010_16-17-08.OMN last modified 3/11/2010 18:55:19
 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)				
WCN100311-01	1	S1	200	10.2	3/11/2010@16:18:39			200 ppb
WCN100311-02	1	S2	150	7.64	3/11/2010@16:19:30			150 ppb
WCN100311-03	1	S3	100	5.21	3/11/2010@16:20:23			100 ppb
WCN100311-04	1	S4	50.0	2.71	3/11/2010@16:21:16			50 ppb
WCN100311-05	1	S5	10.0	0.668	3/11/2010@16:22:09			10 ppb
WCN100311-06	1	S6	5.00	0.372	3/11/2010@16:23:03			CRDL 5.0 ppb
WCN100311-08	1	S7	0.00	0.0704	3/11/2010@16:23:57			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99994 > 0.99500					
Message			Pass					
Action			Continue					
WCN100311-07	1	S8	146	7.51	3/11/2010@16:25:47			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-2.4 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-2.4 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100311-08	1	S7	-0.946	0.0856	3/11/2010@16:27:38			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.946 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.946 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100311-06	1	S6	5.52	0.411	3/11/2010@16:29:27			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.52 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.52 > 2.50					
Message			Pass					
Action			None					
1202061957|961288|MB	1	1	-1.65	0.0501	3/11/2010@16:31:17			
1202061964|LCS	1	2	18.0	1.04	3/11/2010@16:32:10		25.00	
248520001	1	3	3.00	0.284	3/11/2010@16:33:03			
1202061958|DUP	1	4	3.06	0.287	3/11/2010@16:33:56			
1202061960|MS	1	5	38.6	2.08	3/11/2010@16:34:49			
1202061962|MSD	1	6	7.88	0.530	3/11/2010@16:35:42			
248520002	1	7	16.2	0.950	3/11/2010@16:36:34			
1202061959|DUP	1	8	23.4	1.31	3/11/2010@16:37:27			
1202061961|MS	1	9	59.4	3.12	3/11/2010@16:38:19			
1202061963|MSD	1	10	63.5	3.33	3/11/2010@16:39:12			
WCN100311-03	1	S3	105	5.42	3/11/2010@16:40:04			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			5.0 < 10.0					

			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	5.0 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100311-08	1	S7		-1.15	0.0753	3/11/2010@16:41:54		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				
248520003	1	11		6.30	0.451	3/11/2010@16:43:43		
248520004	1	12		23.1	1.29	3/11/2010@16:44:34		
248520005	1	13		6.76	0.473	3/11/2010@16:45:27		
248520006	1	14		2.15	0.241	3/11/2010@16:46:18		
248520007	1	15		16.8	0.981	3/11/2010@16:47:10		
248520008	1	16		7.48	0.510	3/11/2010@16:48:03		
248520009	1	17		6.44	0.457	3/11/2010@16:48:57		
248520010	1	18		5.87	0.429	3/11/2010@16:49:50		
248520011	1	19		9.72	0.623	3/11/2010@16:50:44		
248549001	1	20		-1.77	0.0439	3/11/2010@16:51:37		
WCN100311-03	1	S3		106	5.47	3/11/2010@16:52:29		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	6.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	6.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100311-08	1	S7		-1.18	0.0738	3/11/2010@16:54:20		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.18 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.18 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202061962|MSD	1	6		39.9	2.14	3/11/2010@16:56:08		
248549002	1	21		-1.77	0.0440	3/11/2010@16:57:01		
248549003	1	22		-1.69	0.0479	3/11/2010@16:57:55		
248549004	1	23		-1.69	0.0483	3/11/2010@16:58:47		
248549005	1	24		-1.77	0.0443	3/11/2010@16:59:40		
248549006	1	25		-1.23	0.0714	3/11/2010@17:00:32		
1202061949|961286|MB	1	26		-1.96	0.0344	3/11/2010@17:01:25		
1202061956|LCS	1	27		12.1	0.745	3/11/2010@17:02:16	25.00	
248517001	1	28		4.40	0.355	3/11/2010@17:03:09		
1202061950|DUP	1	29		6.52	0.462	3/11/2010@17:04:01		
WCN100311-03	1	S3		107	5.50	3/11/2010@17:04:53		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	6.5 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	6.5 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100311-08	1	S7		-1.02	0.0816	3/11/2010@17:06:44		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							
1202061952	MS	1	30	51.0	2.70	3/11/2010@17:08:31			
1202061954	MSD	1	31	87.1	4.52	3/11/2010@17:09:25			
248527002		1	32	0.589	0.163	3/11/2010@17:10:19			
1202061951	DUP	1	33	2.24	0.246	3/11/2010@17:11:13			
1202061953	MS	1	34	77.9	4.06	3/11/2010@17:12:06			
1202061955	MSD	1	35	86.4	4.48	3/11/2010@17:12:59			
248527003		1	36	-0.0758	0.129	3/11/2010@17:13:52			
248527004		1	37	-1.69	0.0479	3/11/2010@17:14:46			
248527005		1	38	-2.12	0.0267	3/11/2010@17:15:39			
248527006		1	39	-2.11	0.0268	3/11/2010@17:16:31			
WCN100311-03		1	S3	106	5.46	3/11/2010@17:17:24			CCV
Known Conc:				100					
DQM Test: > + Percent Relative Difference									
Result:		5.8 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		5.8 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100311-08		1	S7	-1.03	0.0814	3/11/2010@17:19:14			CCB
Known Conc:				0.00					
DQM Test: > + Concentration Limit									
Result:		-1.03 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.03 > -5.00							
Message		CCB Passed							
Action		Continue							
248527007		1	40	-0.0659	0.130	3/11/2010@17:21:04			
248527008		1	41	0.415	0.154	3/11/2010@17:21:55			
248527009		1	42	-2.53	0.00599	3/11/2010@17:22:48			
248527010		1	43	-1.32	0.0670	3/11/2010@17:23:41			
248527011		1	44	-1.51	0.0572	3/11/2010@17:24:32			
248527012		1	45	-1.76	0.0445	3/11/2010@17:25:24			
248527013		1	46	-0.984	0.0837	3/11/2010@17:26:18			
248527014		1	47	-1.98	0.0337	3/11/2010@17:27:13			
248527015		1	48	-1.88	0.0385	3/11/2010@17:28:06			
248527016		1	49	-0.201	0.123	3/11/2010@17:29:00			
WCN100311-03		1	S3	106	5.49	3/11/2010@17:29:52			CCV
Known Conc:				100					
DQM Test: > + Percent Relative Difference									
Result:		6.3 < 10.0							
Message		CCV Passed							
Action		Continue							
DQM Test: < - Percent Relative Difference									
Result:		6.3 < 10.0							
Message		CCV Passed							
Action		Continue							
WCN100311-08		1	S7	-1.04	0.0811	3/11/2010@17:31:43			CCB
Known Conc:				0.00					
DQM Test: > + Concentration Limit									
Result:		-1.04 < 5.00							
Message		CCB Passed							
Action		Continue							
DQM Test: < - Concentration Limit									
Result:		-1.04 > -5.00							
Message		CCB Passed							
Action		Continue							

1202061933	961281	MB	1	50	-2.14	0.0257	3/11/2010@17:33:32			
1202061940	LCS		1	51	25.5	1.42	3/11/2010@17:34:25		25.00	
248511001			1	52	9.89	0.631	3/11/2010@17:35:18			
1202061934	DUP		1	53	11.3	0.701	3/11/2010@17:36:11			
1202061936	MS		1	54	103	5.30	3/11/2010@17:37:04			
1202061938	MSD		1	55	118	6.07	3/11/2010@17:37:57			
248511002			1	56	1.23	0.195	3/11/2010@17:38:50			
1202061935	DUP		1	57	3.46	0.307	3/11/2010@17:39:42			
1202061937	MS		1	58	94.9	4.91	3/11/2010@17:40:35			
1202061939	MSD		1	59	88.8	4.61	3/11/2010@17:41:27			
WCN100311-03			1	S3	108	5.56	3/11/2010@17:42:19			CCV
Known Conc:					100					
DQM Test: > + Percent Relative Difference										
Result:					7.8 < 10.0					
Message					CCV Passed					
Action					Continue					
DQM Test: < - Percent Relative Difference										
Result:					7.8 < 10.0					
Message					CCV Passed					
Action					Continue					
WCN100311-08			1	S7	-3.25	-0.0302	3/11/2010@17:44:10			CCB
Known Conc:					0.00					
DQM Test: > + Concentration Limit										
Result:					-3.25 < 5.00					
Message					CCB Passed					
Action					Continue					
DQM Test: < - Concentration Limit										
Result:					-3.25 > -5.00					
Message					CCB Passed					
Action					Continue					
248511003			1	60	0.545	0.161	3/11/2010@17:45:58			
248511004			1	61	41.2	2.21	3/11/2010@17:46:53			
248511005			1	62	9.25	0.599	3/11/2010@17:47:46			
248511006			1	63	10.9	0.683	3/11/2010@17:48:41			
248511007			1	64	1.48	0.208	3/11/2010@17:49:35			
248511008			1	65	5.88	0.429	3/11/2010@17:50:28			
248511009			1	66	16.7	0.973	3/11/2010@17:51:22			
248511010			1	67	25.4	1.41	3/11/2010@17:52:16			
248511011			1	68	5.04	0.387	3/11/2010@17:53:08			
248511012			1	69	68.8	3.60	3/11/2010@17:54:01			
WCN100311-03			1	S3	108	5.56	3/11/2010@17:54:54			CCV
Known Conc:					100					
DQM Test: > + Percent Relative Difference										
Result:					7.7 < 10.0					
Message					CCV Passed					
Action					Continue					
DQM Test: < - Percent Relative Difference										
Result:					7.7 < 10.0					
Message					CCV Passed					
Action					Continue					
WCN100311-08			1	S7	-0.875	0.0892	3/11/2010@17:56:45			CCB
Known Conc:					0.00					
DQM Test: > + Concentration Limit										
Result:					-0.875 < 5.00					
Message					CCB Passed					
Action					Continue					
DQM Test: < - Concentration Limit										
Result:					-0.875 > -5.00					
Message					CCB Passed					
Action					Continue					
248511013			1	70	17.0	0.990	3/11/2010@17:58:34			
248511014			1	71	3.20	0.294	3/11/2010@17:59:27			
248511015			1	72	1.31	0.199	3/11/2010@18:00:19			
248511016			1	73	4.92	0.381	3/11/2010@18:01:12			
248511017			1	74	1.34	0.201	3/11/2010@18:02:04			
248511018			1	75	-0.129	0.127	3/11/2010@18:02:57			
248511019			1	76	-0.510	0.108	3/11/2010@18:03:50			
248511020			1	77	2.83	0.276	3/11/2010@18:04:45			

1202064160|962268|MB	1	78	-1.64	0.0508	3/11/2010@18:05:39			
1202064170|LCS	1	79	54.8	2.89	3/11/2010@18:06:33			
WCN100311-03	1	S3	107	5.53	3/11/2010@18:07:26			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			7.1 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			7.1 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100311-08	1	S7	-1.32	0.0667	3/11/2010@18:09:16			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.32 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.32 > -5.00					
Message			CCB Passed					
Action			Continue					
248638001	1	80	-2.08	0.0287	3/11/2010@18:11:06			
1202064161|DUP	1	81	-1.44	0.0607	3/11/2010@18:11:59			
1202064164|MS	1	82	103	5.32	3/11/2010@18:12:52			
1202064167|MSD	1	83	82.4	4.28	3/11/2010@18:13:46			
248685001	1	84	-1.85	0.0401	3/11/2010@18:14:39			
248685002	1	85	-1.89	0.0380	3/11/2010@18:15:32			
248697001	1	86	-1.97	0.0339	3/11/2010@18:16:25			
248697002	1	87	-2.87	-0.0112	3/11/2010@18:17:18			
248697003	1	88	-1.96	0.0344	3/11/2010@18:18:10			
248697004	1	89	-2.14	0.0255	3/11/2010@18:19:03			
WCN100311-03	1	S3	107	5.52	3/11/2010@18:19:56			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			6.9 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			6.9 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100311-08	1	S7	-1.35	0.0655	3/11/2010@18:21:46			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.35 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.35 > -5.00					
Message			CCB Passed					
Action			Continue					
248719001	1	90	-1.29	0.0683	3/11/2010@18:23:35			
248719002	1	91	-1.02	0.0818	3/11/2010@18:24:30			
248736002	1	92	414	21.0	3/11/2010@18:25:24			
248778001	1	93	0.0656	0.137	3/11/2010@18:26:18			
248786001	1	94	1.35	0.201	3/11/2010@18:27:13			
1202064163|DUP	1	95	11.2	0.700	3/11/2010@18:28:07			
1202064166|MS	1	96	2.13	0.241	3/11/2010@18:29:01			
1202064169|MSD	1	97	1.76	0.222	3/11/2010@18:29:55			
248799001	1	98	-1.85	0.0403	3/11/2010@18:30:48			
248805001	1	99	-2.65	-1.59e-4	3/11/2010@18:31:42			
WCN100311-03	1	S3	107	5.53	3/11/2010@18:32:34			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			7.2 < 10.0					
Message			CCV Passed					
Action			Continue					

DQM Test: < - Percent Relative Difference							
Result:		7.2 < 10.0					
Message		CCV Passed					
Action		Continue					
WCN100311-08	1	S7	-1.21	0.0725	3/11/2010@18:34:25		CCB
Known Conc:		0.00					
DQM Test: > + Concentration Limit							
Result:		-1.21 < 5.00					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		-1.21 > -5.00					
Message		CCB Passed					
Action		Continue					
1202064162	DUP	1	100	-2.10	0.0276	3/11/2010@18:36:14	
1202064165	MS	1	101	107	5.51	3/11/2010@18:37:07	
1202064168	MSD	1	102	106	5.49	3/11/2010@18:38:00	
248805003		1	103	-1.44	0.0608	3/11/2010@18:38:53	
248839001		1	104	-2.65	-1.99e-4	3/11/2010@18:39:46	
248839002		1	105	-1.74	0.0457	3/11/2010@18:40:39	
248861001		1	106	-2.18	0.0232	3/11/2010@18:41:34	
248861002		1	107	-2.91	-0.0132	3/11/2010@18:42:29	
248736002		1	92	75.6	3.94	3/11/2010@18:43:23	10.00
248786001		1	94	-1.60	0.0526	3/11/2010@18:44:18	
WCN100311-03		1	S3	107	5.53	3/11/2010@18:45:10	CCV
Known Conc:		100					
DQM Test: > + Percent Relative Difference							
Result:		7.2 < 10.0					
Message		CCV Passed					
Action		Continue					
DQM Test: < - Percent Relative Difference							
Result:		7.2 < 10.0					
Message		CCV Passed					
Action		Continue					
WCN100311-08	1	S7	-0.623	0.102	3/11/2010@18:47:01		CCB
Known Conc:		0.00					
DQM Test: > + Concentration Limit							
Result:		-0.623 < 5.00					
Message		CCB Passed					
Action		Continue					
DQM Test: < - Concentration Limit							
Result:		-0.623 > -5.00					
Message		CCB Passed					
Action		Continue					
1202064163	DUP	1	95	-1.89	0.0383	3/11/2010@18:48:51	
1202064166	MS	1	96	93.1	4.82	3/11/2010@18:49:45	
1202064169	MSD	1	97	96.0	4.97	3/11/2010@18:50:39	
1202061956|961286	LCS	1	27	26.3	1.46	3/11/2010@18:51:31	25.00
WCN100311-03		1	S3	108	5.58	3/11/2010@18:52:24	CCV
Known Conc:		100					
DQM Test: > + Percent Relative Difference							
Result:		8.1 < 10.0					
Message		CCV Passed					
Action		Continue					
DQM Test: < - Percent Relative Difference							
Result:		8.1 < 10.0					
Message		CCV Passed					
Action		Continue					
WCN100311-08	1	S7	-1.15	0.0752	3/11/2010@18:54:14		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					

Analyte Properties Table for OM_3-11-2010_16-17-08.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

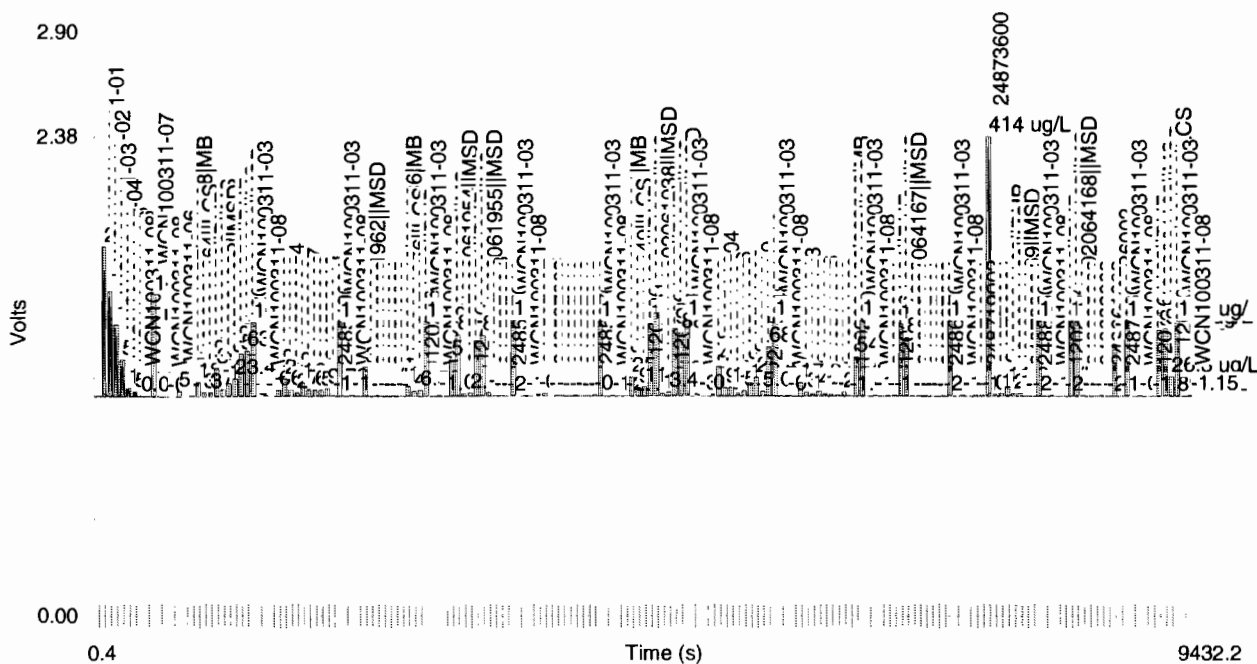
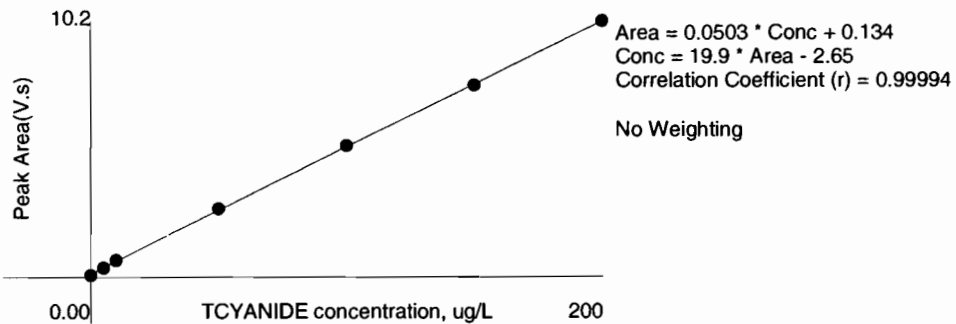


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.2	0.739	-0.0	3/11/2010	16:19:41
2	150	1	7.64	0.520	0.7	3/11/2010	16:20:33
3	100	1	5.21	0.356	-0.7	3/11/2010	16:21:26
4	50.0	1	2.71	0.184	-2.1	3/11/2010	16:22:19
5	10.0	1	0.668	0.0430	-4.8	3/11/2010	16:23:12
6	5.00	1	0.372	0.0248	3.4	3/11/2010	16:24:06
7	0.00	1	0.0704	0.00376		3/11/2010	16:25:00

Figure 1: TCYANIDE



Ion Chromatography

Prep Logbook

Ion Chromatography (IC)

Batch ID: 968234.0
 Analyst: Virginia Winingar
 Method: EPA 300.0 PREP
 Lab SOP: GL-GC-E-086 REV# 17
 Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202078565	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078561	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078562	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078563	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078564	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202078558 MB	24-MAR-2010 09:20:00	Soil	4	40	10	
1202078565 LCS	24-MAR-2010 09:20:00	Soil	4	40	10	
248511001	24-MAR-2010 09:20:00	Soil	4.55	40	8.79121	
1202078559 DUP (248511001)	24-MAR-2010 09:20:00	Soil	4.56	40	8.77193	
1202078561 MS (248511001)	24-MAR-2010 09:20:00	Soil	4.5	40	8.88889	
1202078563 MSD (248511001)	24-MAR-2010 09:20:00	Soil	4.57	40	8.75274	
248511002	24-MAR-2010 09:20:00	Soil	4.05	40	9.87654	
248511003	24-MAR-2010 09:20:00	Soil	4.39	40	9.11162	
248511004	24-MAR-2010 09:20:00	Soil	4.16	40	9.61538	
248511005	24-MAR-2010 09:20:00	Soil	4.11	40	9.73236	
248511006	24-MAR-2010 09:20:00	Soil	4.01	40	9.97506	
248511007	24-MAR-2010 09:20:00	Soil	4.5	40	8.88889	
248511008	24-MAR-2010 09:20:00	Soil	4.03	40	9.92556	
248511009	24-MAR-2010 09:20:00	Soil	4.19	40	9.54654	
248511010	24-MAR-2010 09:20:00	Soil	4.46	40	8.96861	
248511011	24-MAR-2010 09:20:00	Soil	4.06	40	9.85222	
248511012	24-MAR-2010 09:20:00	Soil	4.42	40	9.04977	
248511013	24-MAR-2010 09:20:00	Soil	4.12	40	9.70874	
248511014	24-MAR-2010 09:20:00	Soil	4.04	40	9.90099	
248511015	24-MAR-2010 09:20:00	Soil	4.19	40	9.54654	
248511016	24-MAR-2010 09:20:00	Soil	4.34	40	9.21659	
248511017	24-MAR-2010 09:20:00	Soil	4.08	40	9.80392	
248511018	24-MAR-2010 09:20:00	Soil	4.19	40	9.54654	

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 968234.0
Analyst: Virginia Winingar
Method: EPA 300.0 PREP
Lab SOP: GL-GC-E-086 REV# 17
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202078565	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078561	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MS	1202078562	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078563	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL
MSD	1202078564	GEL-ANION-4C Spiking Solution	UIC100324SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
248511019	24-MAR-2010 09:20:00	Soil	4.26	40	9.38967	
248511020	24-MAR-2010 09:20:00	Soil	4.19	40	9.54654	
1202078560 DUP (248511020)	24-MAR-2010 09:20:00	Soil	4.21	40	9.50119	
1202078562 MS (248511020)	24-MAR-2010 09:20:00	Soil	4.22	40	9.47867	
1202078564 MSD (248511020)	24-MAR-2010 09:20:00	Soil	4.2	40	9.52381	

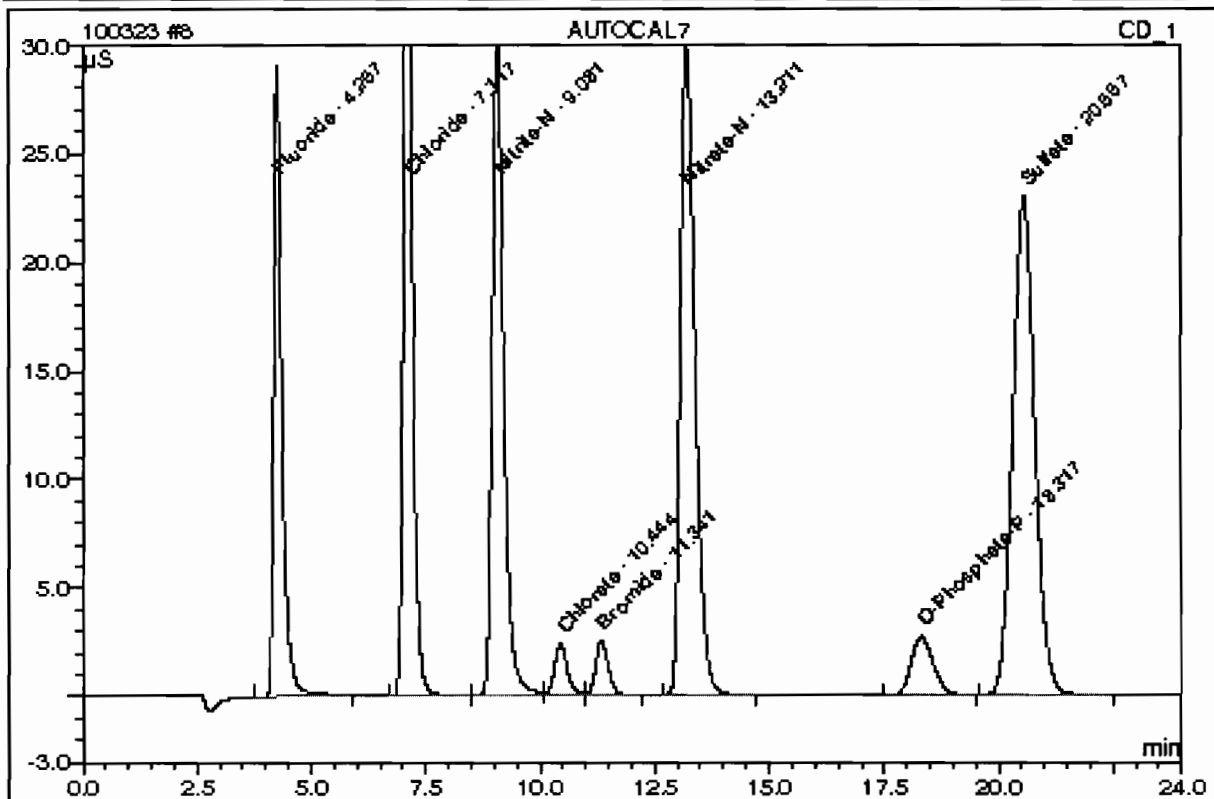
Reagent/Solvent Lot ID	Description	Amount	Comments:
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This is runlog for Sequence 100325.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	03/23/10 16:00		1	100325	MAR1
ICAL-06	03/23/10 16:27		1	100325	MAR1
ICAL-05	03/23/10 16:53		1	100325	MAR1
ICAL-04	03/23/10 17:20		1	100325	MAR1
ICAL-03	03/23/10 17:47		1	100325	MAR1
ICAL-02	03/23/10 18:14		1	100325	MAR1
ICAL-01	03/23/10 18:41		1	100325	MAR1

8 AUTOCAL7

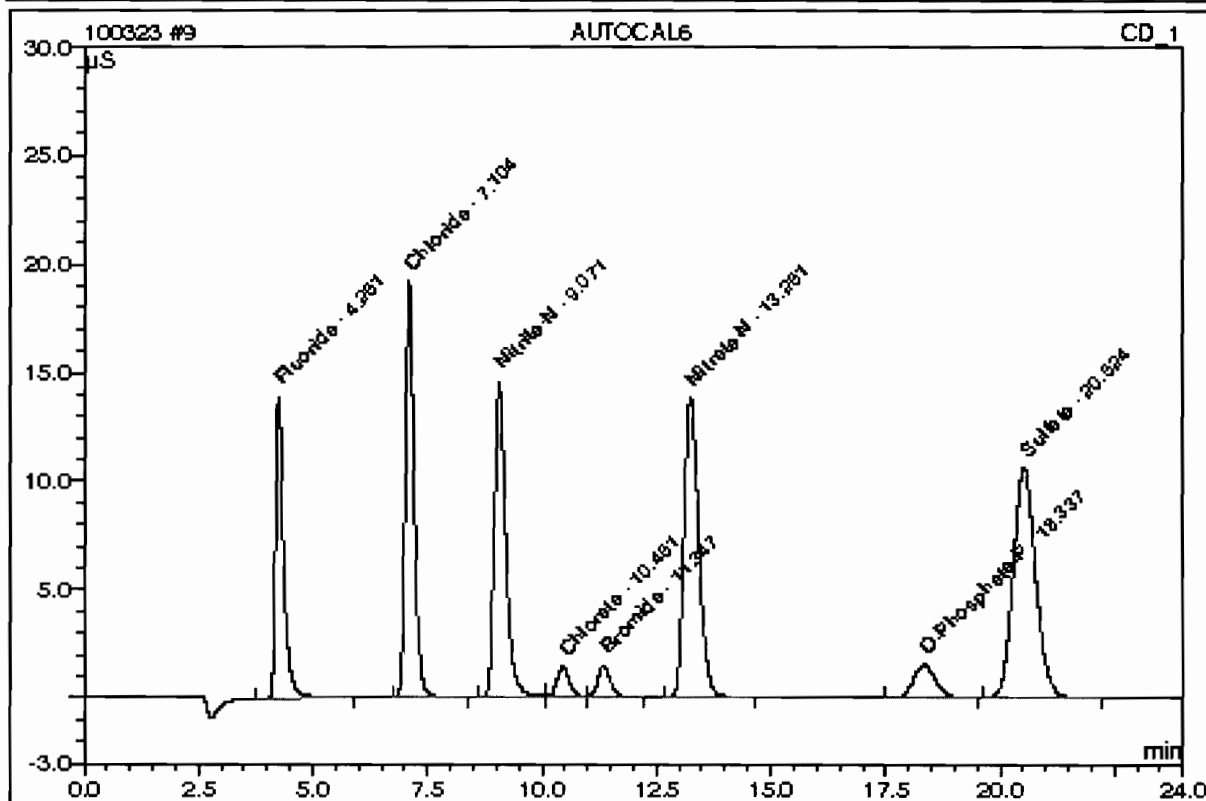
Sample Name:	AUTOCAL7	Injection Volume:	1.0
Vial Number:	46	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 16:00	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	10.0000	10.0652		6.02041	11.75
2	7.12	Chloride	20.0000	20.3058		9.29780	18.14
3	9.08	Nitrite-N	10.0000	10.0773		8.89622	17.36
4	10.44	Chlorate	5.0000	5.0763		0.77530	1.51
5	11.34	Bromide	5.0000	5.0450		0.82220	1.60
6	13.21	Nitrate-N	10.0000	10.1395		11.02745	21.52
7	18.32	O-Phosphate-P	5.0000	5.1121		1.49471	2.92
8	20.56	Sulfate	40.0000	40.4690		12.91152	25.20
Total:				106.2901	0.000	51.246	100.00

9 AUTOCAL6

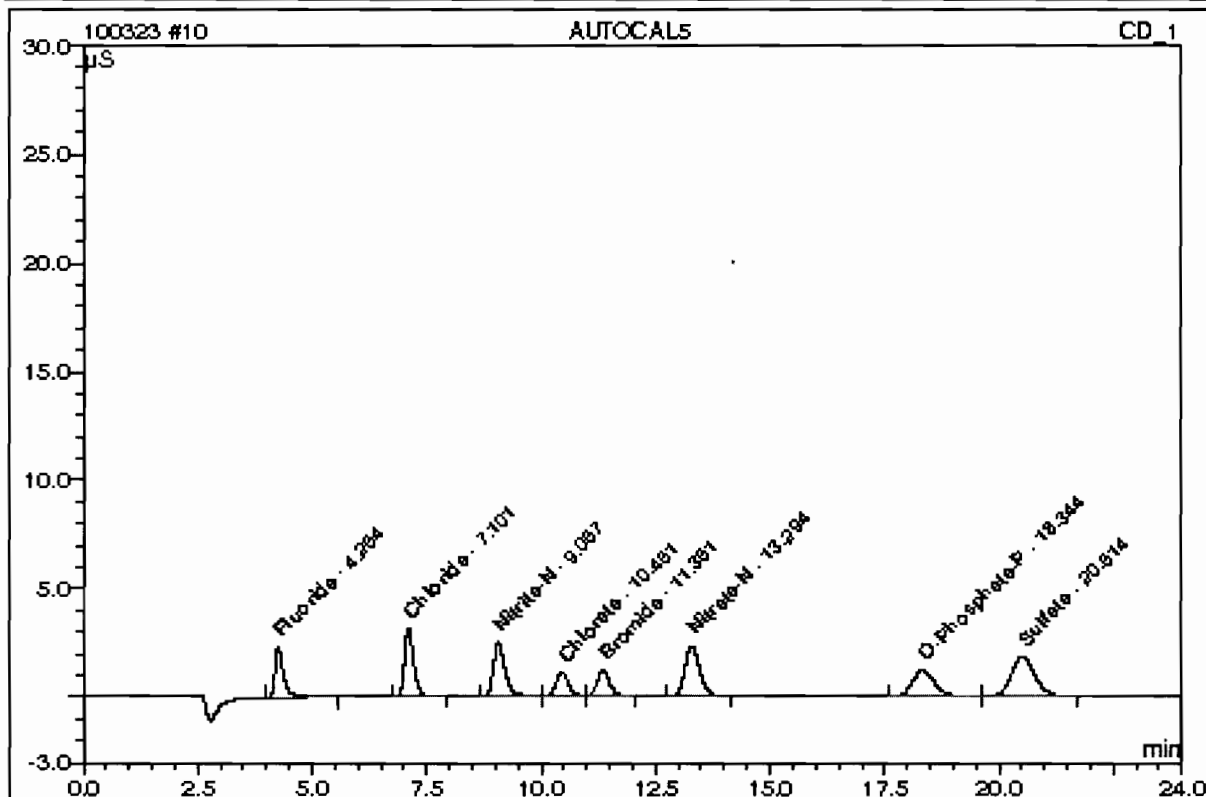
Sample Name:	AUTOCAL6	Injection Volume:	1.0
Vial Number:	47	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 16:27	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;Ø056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	5.0000	4.8849		2.90201	11.92
2	7.10	Chloride	10.0000	9.4230		4.26930	17.53
3	9.07	Nitrate-N	5.0000	4.8599		4.25796	17.48
4	10.45	Chlorate	3.0000	2.9924		0.45332	1.86
5	11.35	Bromide	3.0000	3.0046		0.48728	2.00
6	13.25	Nitrate-N	5.0000	4.7372		5.09401	20.92
7	18.34	O-Phosphate-P	3.0000	2.9633		0.84358	3.46
8	20.52	Sulfate	20.0000	19.1180		6.04506	24.82
Total:				51.9833	0.000	24.353	100.00

10 AUTOCAL5

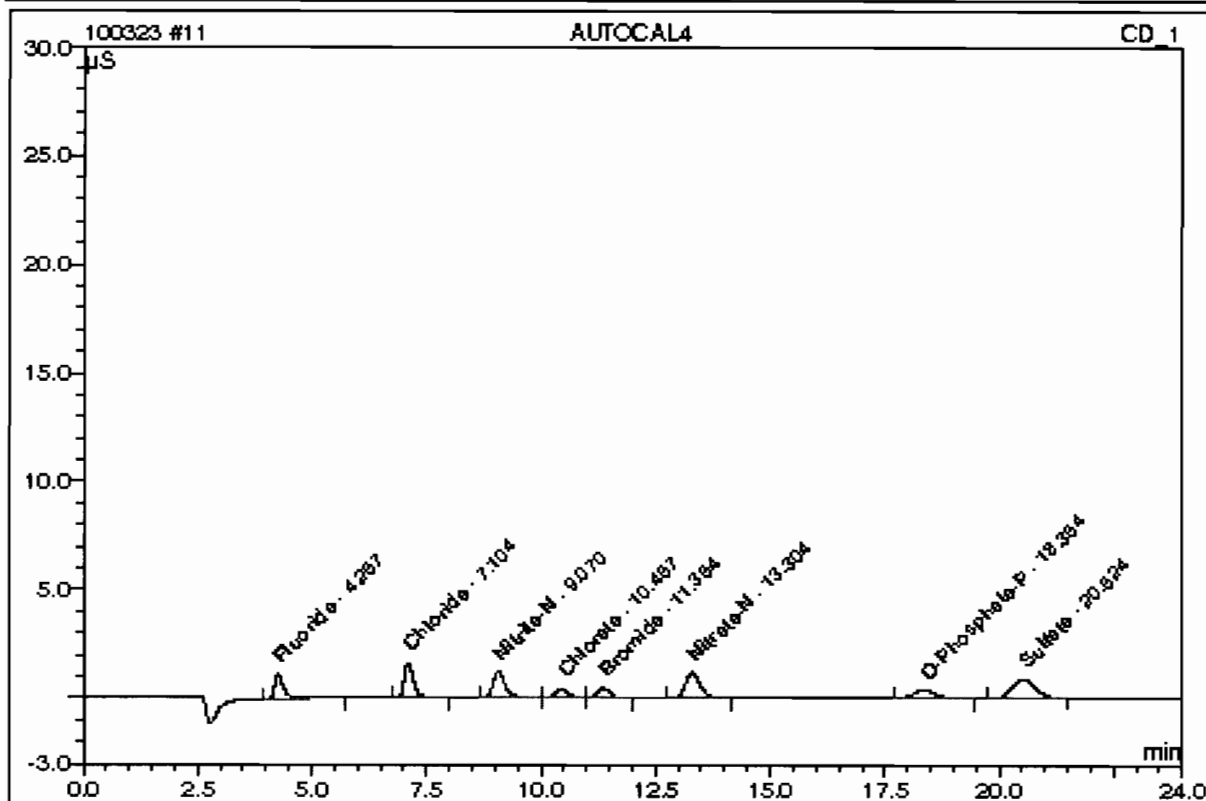
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	48	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 16:53	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	1.0000	0.9125		0.51078	9.53
2	7.10	Chloride	2.0000	1.7708		0.73350	13.68
3	9.07	Nitrite-N	1.0000	0.9189		0.75453	14.07
4	10.45	Chlorate	2.5000	2.3650		0.35638	6.65
5	11.35	Bromide	2.5000	2.4114		0.38991	7.27
6	13.29	Nitrate-N	1.0000	0.9005		0.88006	16.42
7	18.34	O-Phosphate-P	2.5000	2.3684		0.66331	12.37
8	20.51	Sulfate	4.0000	3.6570		1.07282	20.01
Total:				15.3047	0.000	5.361	100.00

11 AUTOCAL4

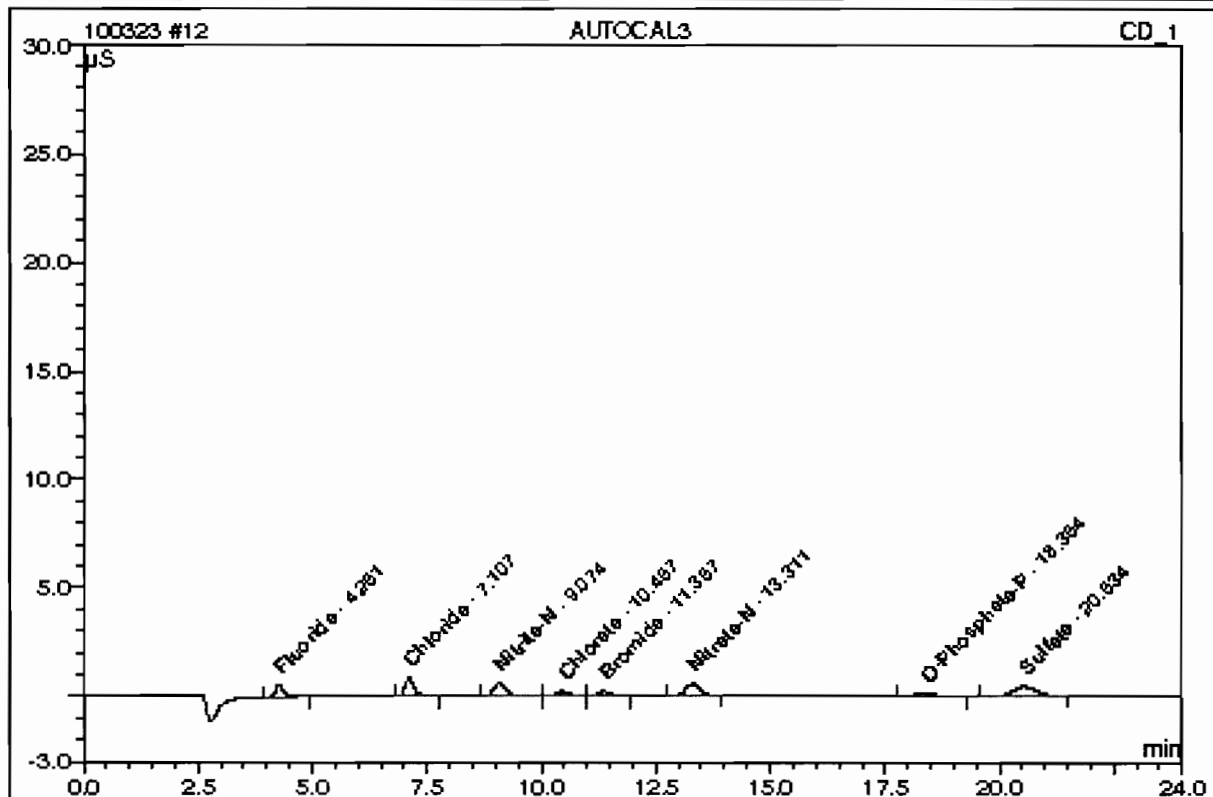
Sample Name:	AUTOCAL4	Injection Volume:	1.0
Vial Number:	49	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 17:20	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.26	Fluoride	0.5000	0.5017		0.26350	10.50
2	7.10	Chloride	1.0000	1.0243		0.38857	15.49
3	9.07	Nitrate-N	0.5000	0.4901		0.37331	14.88
4	10.46	Chlorate	1.0000	0.9701		0.14085	5.61
5	11.35	Bromide	1.0000	0.9780		0.15461	6.16
6	13.30	Nitrate-N	0.5000	0.4967		0.43652	17.40
7	18.36	O-Phosphate-P	1.0000	0.8958		0.21705	8.65
8	20.52	Sulfate	2.0000	1.9836		0.53465	21.31
Total:				7.3402	0.000	2.509	100.00

12 AUTOCAL3

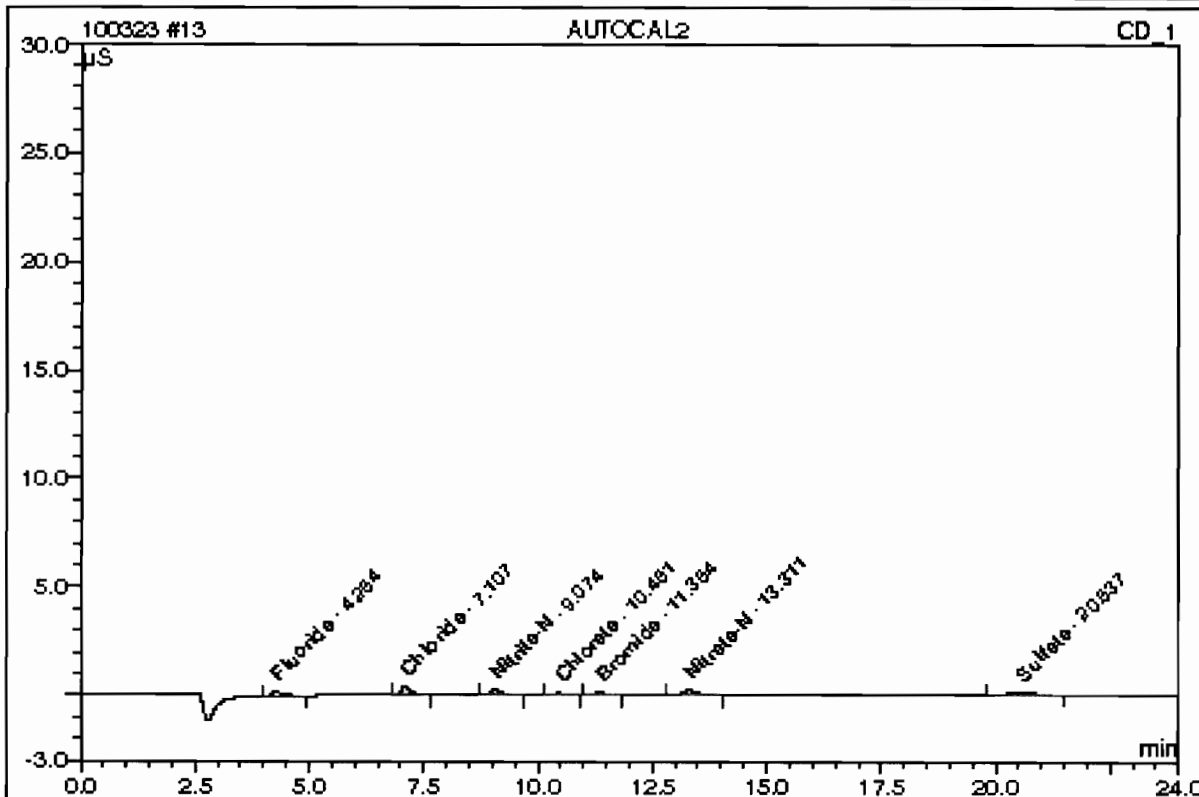
Sample Name:	AUTOCAL3	Injection Volume:	1.0
Vial Number:	50	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 17:47	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	0.2500	0.2725		0.12551	10.22
2	7.11	Chloride	0.5000	0.6010		0.19297	15.72
3	9.07	Nitrate-N	0.2500	0.2827		0.18893	15.39
4	10.46	Chlorate	0.5000	0.5047		0.06895	5.62
5	11.36	Bromide	0.5000	0.4987		0.07594	6.19
6	13.31	Nitrate-N	0.2500	0.2965		0.21665	17.65
7	18.36	O-Phosphate-P	0.5000	0.4552		0.08354	6.81
8	20.53	Sulfate	1.0000	1.1764		0.27508	22.41
Total:				4.0878	0.000	1.228	100.00

13 AUTOCAL2

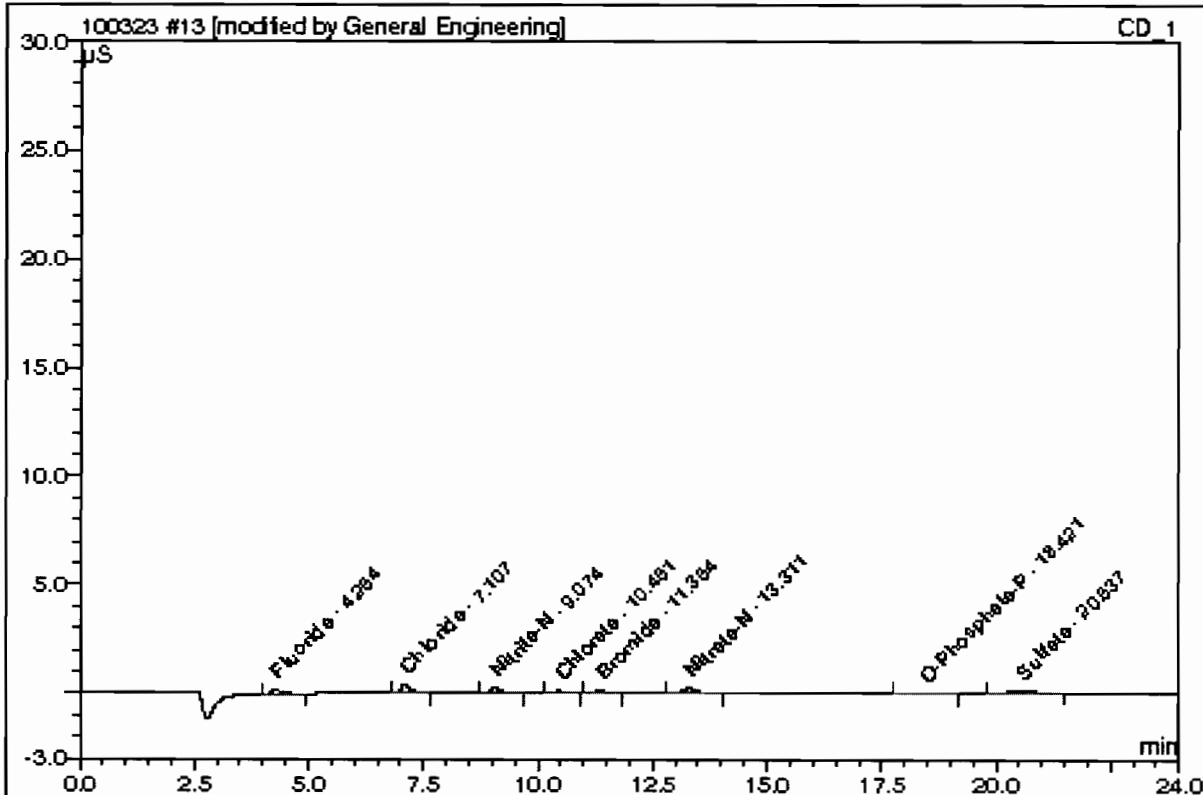
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	1	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 18:14	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	0.1000	0.1492		0.05126	10.67
2	7.11	Chloride	0.2000	0.3919		0.09636	20.06
3	9.07	Nitrite-N	0.1000	0.1509		0.07173	14.93
4	10.46	Chlorate	0.2000	0.2331		0.02698	5.62
5	11.35	Bromide	0.2000	0.2262		0.03122	6.50
6	13.31	Nitrate-N	0.1000	0.1803		0.08899	18.53
n.a.	n.a.	O-Phosphate-P	0.2000	n.a.	n.a.	n.a.	n.a.
7	20.54	Sulfate	0.4000	0.6748		0.11374	23.68
Total:				2.0063	0.000	0.480	100.00

13 AUTOCAL2

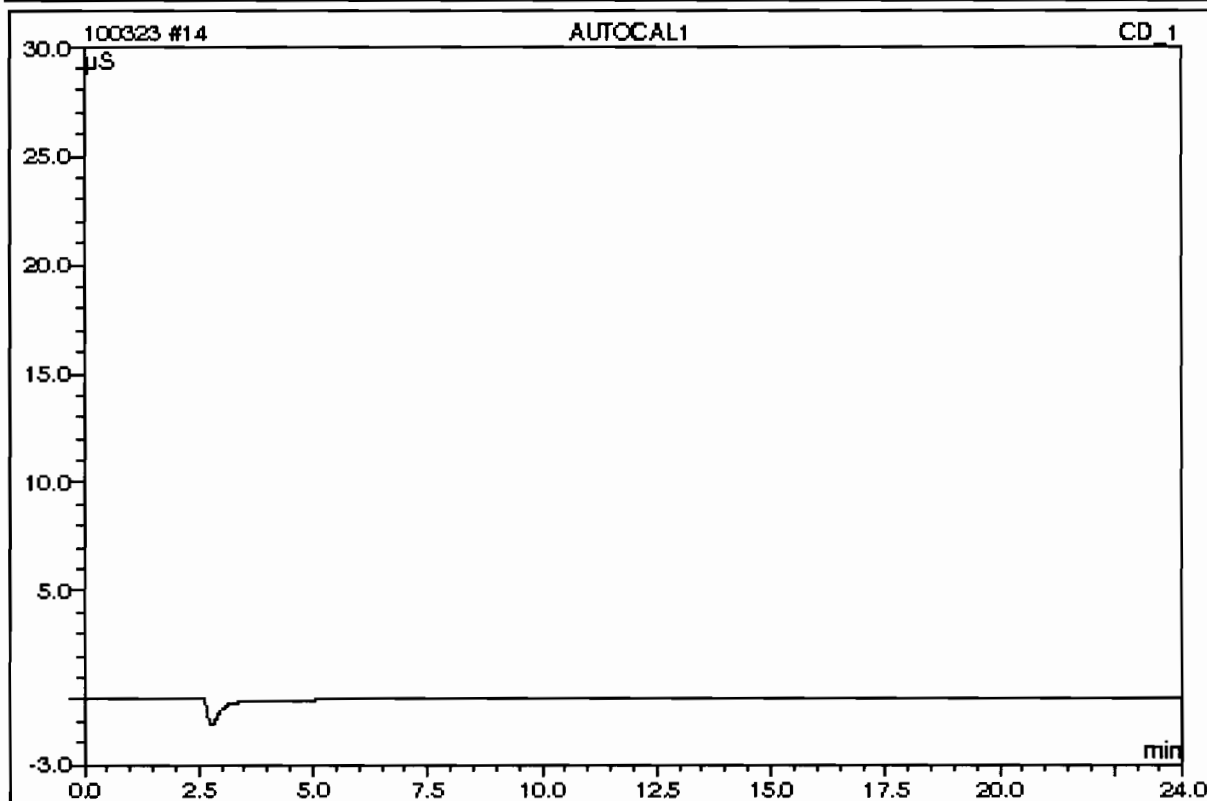
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Vial Number:	1	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 18:14	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	0.1000	0.1492		0.05126	10.37
2	7.11	Chloride	0.2000	0.3919		0.09636	19.50
3	9.07	Nitrate-N	0.1000	0.1509		0.07173	14.51
4	10.46	Chlorate	0.2000	0.2331		0.02698	5.46
5	11.35	Bromide	0.2000	0.2262		0.03122	6.32
6	13.31	Nitrate-N	0.1000	0.1803		0.08899	18.00
7	18.42	O-Phosphate-P	0.2000	0.2257		0.01399	2.83
8	20.54	Sulfate	0.4000	0.6748		0.11374	23.01
Total:				2.2320	0.000	0.494	100.00

14 AUTOCAL1

Sample Name:	AUTOCAL1	Injection Volume:	1.0
Vial Number:	2	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 18:41	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056

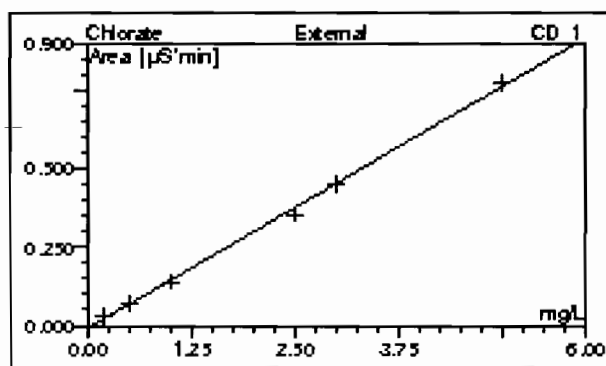
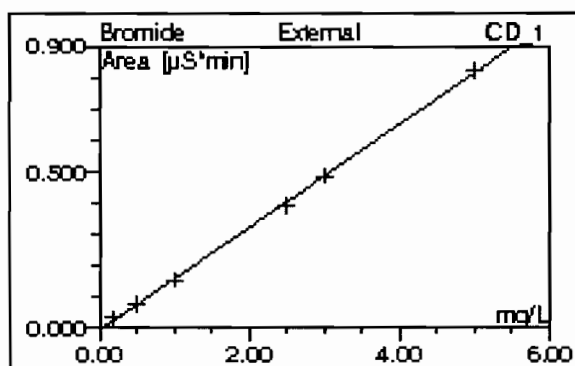
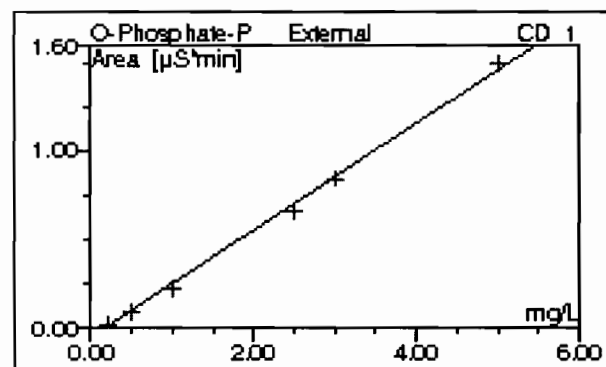
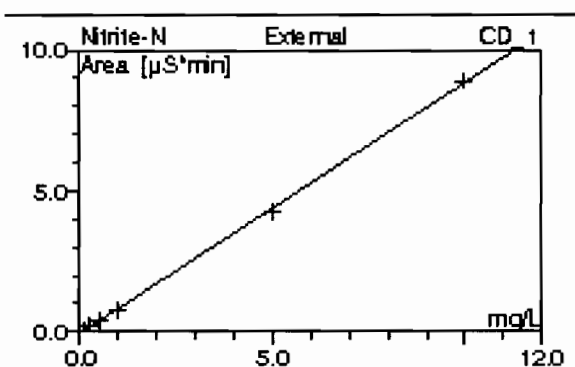
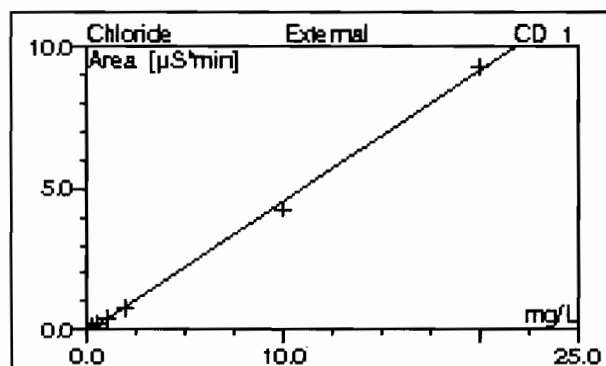
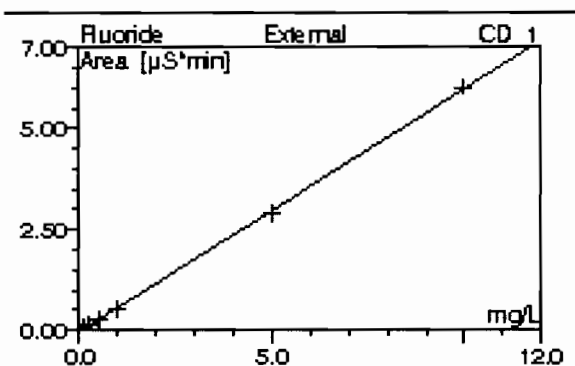


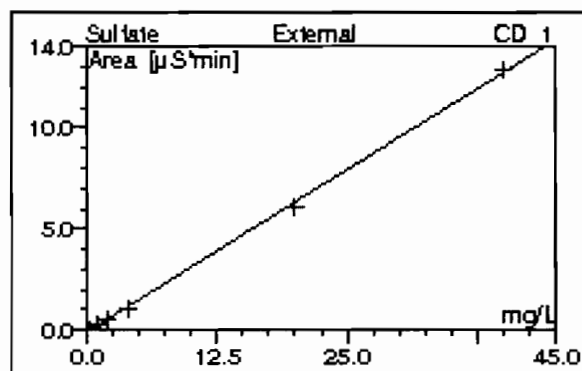
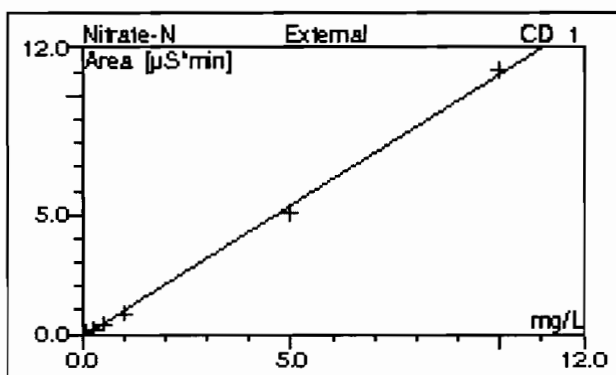
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

14 AUTOCAL1

Sample Name: AUTOCAL1
Vial Number: 2
Sample Type: standard
Control Program: AS23
Quantif. Method: 100323an
Recording Time: 3/23/2010 18:41
Run Time (min): 24.00

Injection Volume: 1.0
Channel: CD_1
Dilution Factor: 1.0000
Sample Weight: 1.0000
Sample Amount: 1.0000
Analyst: MAR1
Column: AS23-002712; GL GC BD86;300;9056





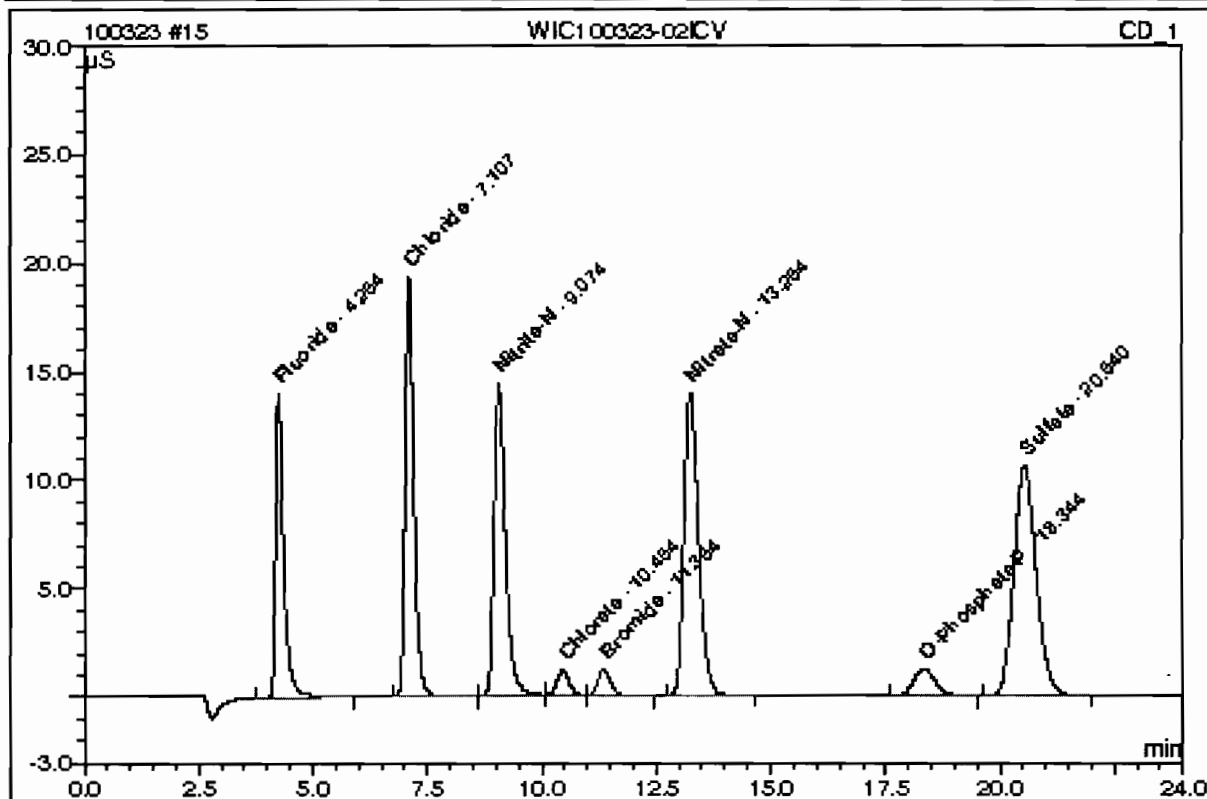
No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	OLO#	99.9646	-0.0385	0.6020	0.0000
n.a.	n.a.	Chloride	OLO#	99.8347	-0.0847	0.4621	0.0000
n.a.	n.a.	Nitrite-N	OLO#	99.9547	-0.0624	0.8890	0.0000
n.a.	n.a.	Chlorate	OLO#	99.8463	-0.0090	0.1545	0.0000
n.a.	n.a.	Bromide	OLO#	99.9345	-0.0059	0.1641	0.0000
n.a.	n.a.	Nitrate-N	OLO#	99.8657	-0.1090	1.0983	0.0000
n.a.	n.a.	O-Phosphate-P	OLO#	99.7443	-0.0544	0.3030	0.0000
n.a.	n.a.	Sulfate	OLO#	99.9039	-0.1033	0.3216	0.0000
Average:				99.8811	-0.0584	0.4993	0.0000

This is runlog for Sequence 100323.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/23/10 15:33		1	100323	MAR1
ICAL-07	03/23/10 16:00		1	100323	MAR1
ICAL-06	03/23/10 16:27		1	100323	MAR1
ICAL-05	03/23/10 16:53		1	100323	MAR1
ICAL-04	03/23/10 17:20		1	100323	MAR1
ICAL-03	03/23/10 17:47		1	100323	MAR1
ICAL-02	03/23/10 18:14		1	100323	MAR1
ICAL-01	03/23/10 18:41		1	100323	MAR1
ICV	03/23/10 19:08		1	100323	MAR1
ICB	03/23/10 19:35		1	100323	MAR1
1202073661	03/23/10 20:02	966275	1	100323	MAR1
1202073665	03/23/10 20:29	966275	1	100323	MAR1
248534001	03/23/10 20:56	966275	1	100323	MAR1
1202073662	03/23/10 21:23	966275	1	100323	MAR1
1202073663	03/23/10 21:50	966275	1	100323	MAR1
1202073664	03/23/10 22:16	966275	1	100323	MAR1
248534002	03/23/10 22:43	966275	1	100323	MAR1
248534003	03/23/10 23:10	966275	1	100323	MAR1
248534004	03/23/10 23:37	966275	1	100323	MAR1

15 WIC100323-02ICV

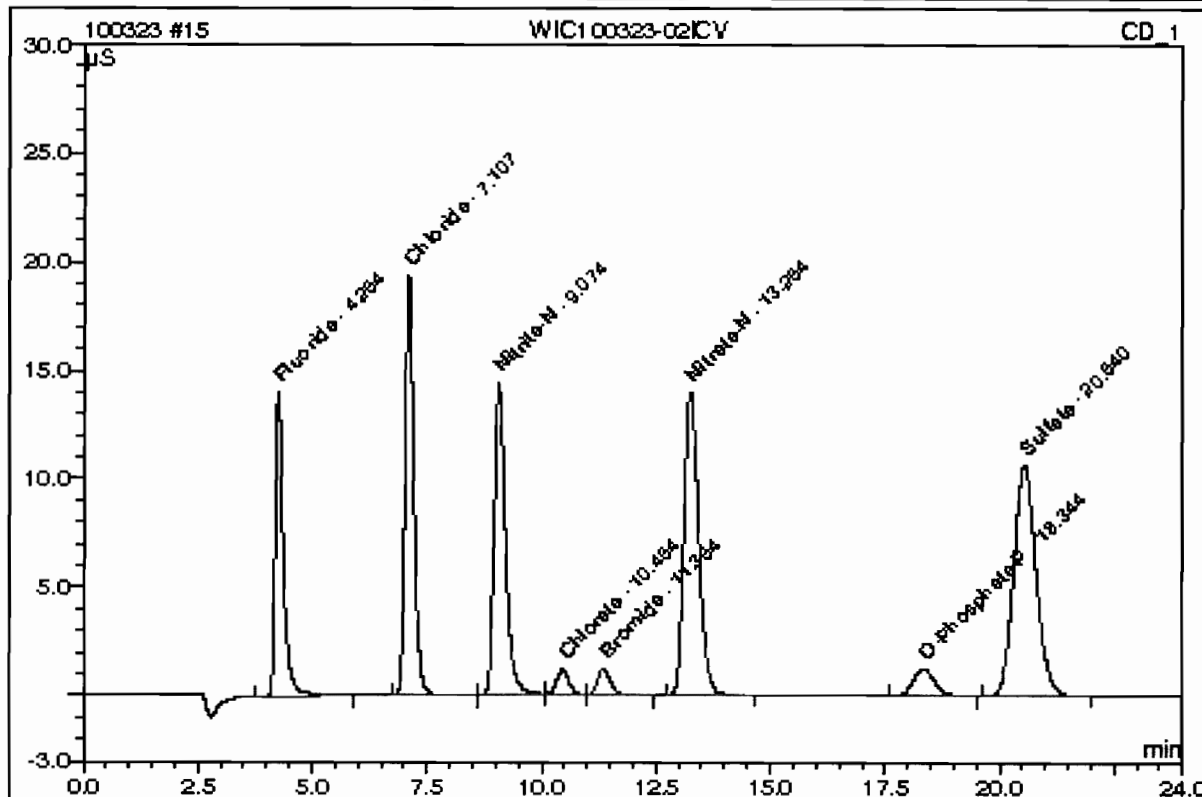
Sample Name:	WIC100323-02ICV	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 19:08	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.8960		2.90874	12.07
2	7.11	Chloride	n.a.	9.4929		4.30159	17.85
3	9.07	Nitrate-N	n.a.	4.8019		4.20641	17.46
4	10.45	Chlorate	n.a.	2.5622		0.38685	1.61
5	11.35	Bromide	n.a.	2.5972		0.42040	1.74
6	13.25	Nitrate-N	n.a.	4.7960		5.15850	21.41
7	18.34	O-Phosphate-P	n.a.	2.4576		0.69032	2.86
8	20.54	Sulfate	n.a.	19.0532		6.02422	25.00
Total:				50.6569	0.000	24.097	100.00

15 WIC100323-02ICV

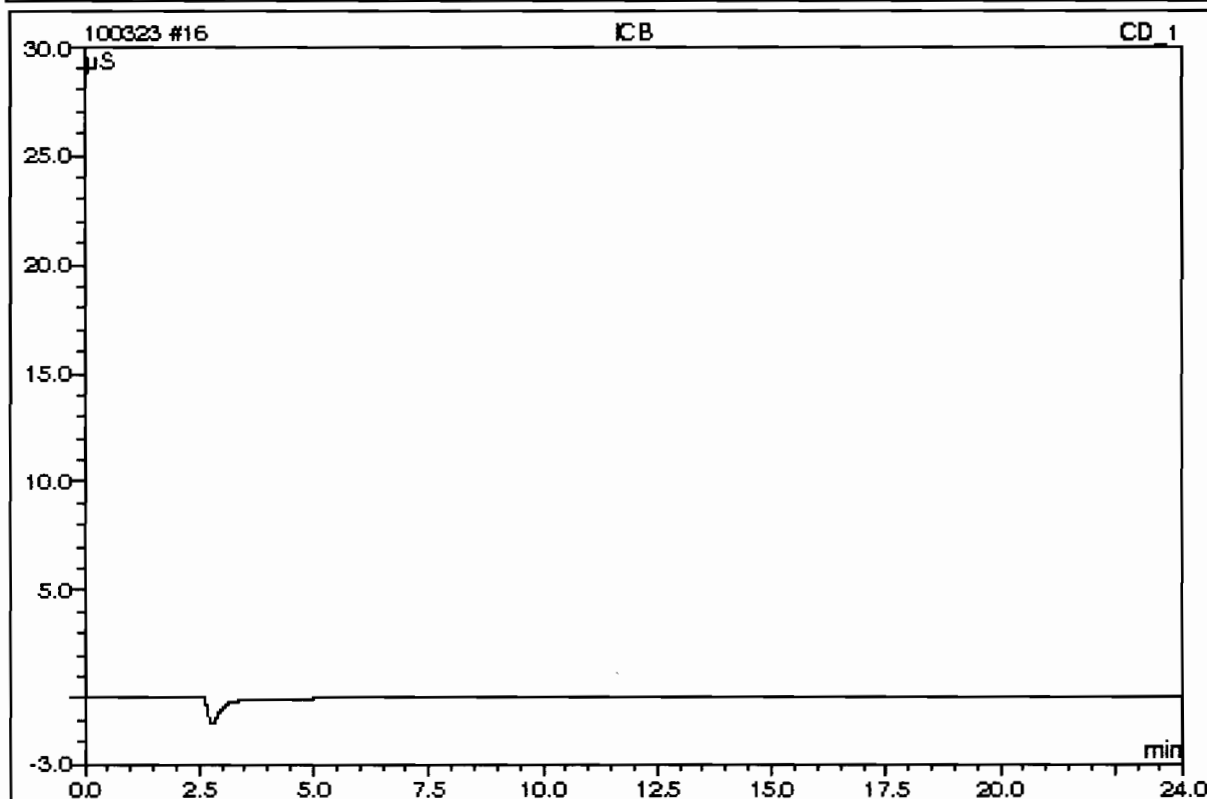
Sample Name:	WIC100323-02ICV	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 19:08	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.8960		2.90874	12.07
2	7.11	Chloride	n.a.	9.4929		4.30159	17.85
3	9.07	Nitrate-N	n.a.	4.8019		4.20641	17.46
4	10.45	Chlorate	n.a.	2.5622		0.38685	1.61
5	11.35	Bromide	n.a.	2.5972		0.42040	1.74
6	13.25	Nitrate-N	n.a.	4.7960		5.15850	21.41
7	18.34	O-Phosphate-P	n.a.	2.4576		0.69032	2.86
8	20.54	Sulfate	n.a.	19.0532		6.02422	25.00
Total:				50.6569	0.000	24.097	100.00

16 ICB

Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/23/2010 19:35	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrile-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

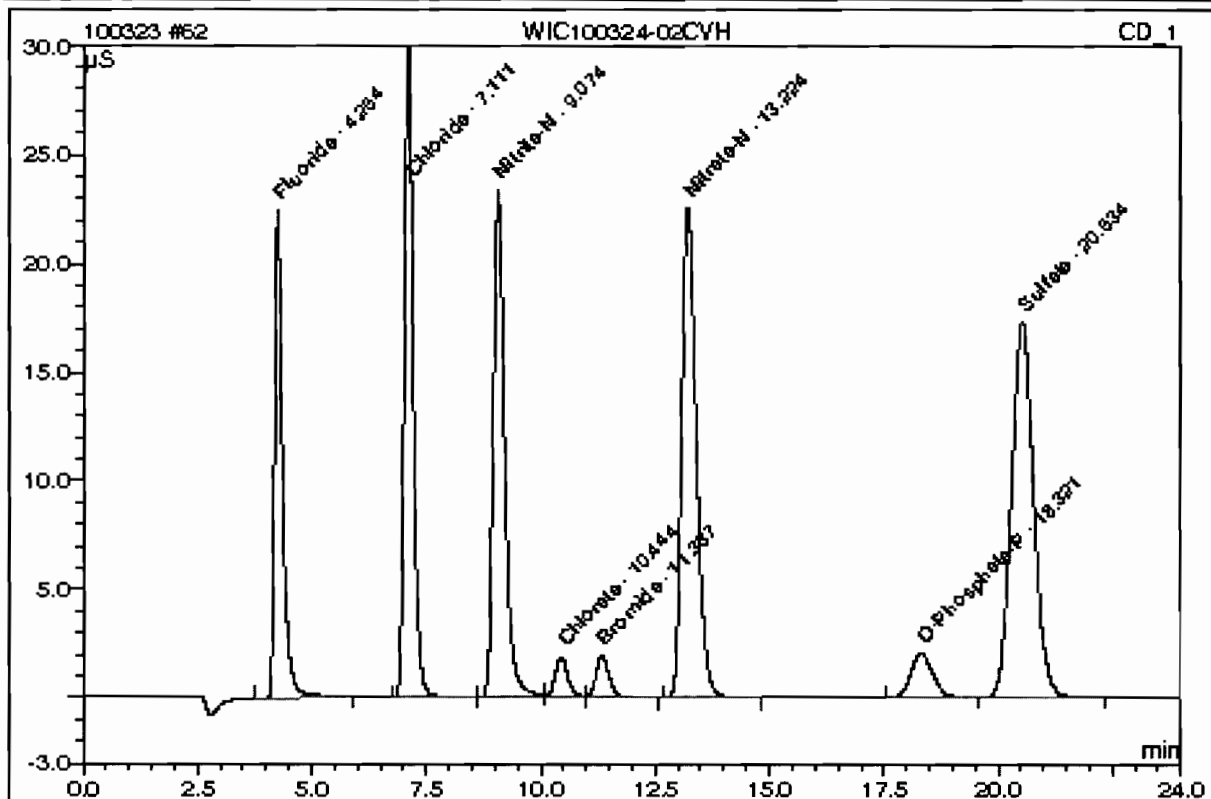
This is runlog for Sequence 100323.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
248534005	03/24/10 00:04	966275	1	100323	MAR1
CVH	03/24/10 00:31		1	100323	MAR1
CCB	03/24/10 00:58		1	100323	MAR1
248534006	03/24/10 01:25	966275	1	100323	MAR1
248534007	03/24/10 01:52	966275	1	100323	MAR1
248534008	03/24/10 02:19	966275	1	100323	MAR1
248534009	03/24/10 02:46	966275	1	100323	MAR1
CCV	03/24/10 03:13		1	100323	MAR1
CCB	03/24/10 03:39		1	100323	MAR1
1202073600	03/24/10 04:06	966260	1	100323	MAR1
1202073607	03/24/10 04:33	966260	1	100323	MAR1
248527002	03/24/10 05:00	966260	1	100323	MAR1
1202073601	03/24/10 05:27	966260	1	100323	MAR1
1202073603	03/24/10 05:54	966260	1	100323	MAR1
1202073605	03/24/10 06:21	966260	1	100323	MAR1
248527003	03/24/10 06:48	966260	1	100323	MAR1
248527004	03/24/10 07:15	966260	1	100323	MAR1
248527005	03/24/10 07:42	966260	1	100323	MAR1
248527006	03/24/10 08:09	966260	1	100323	MAR1
CVH	03/24/10 08:35		1	100323	MAR1
CCB	03/24/10 09:02		1	100323	MAR1
248527007	03/24/10 09:29	966260	1	100323	MAR1
248527008	03/24/10 09:56	966260	1	100323	MAR1
248527009	03/24/10 10:23	966260	1	100323	MAR1
248527010	03/24/10 10:50	966260	1	100323	MAR1
248527011	03/24/10 11:17	966260	1	100323	MAR1
248527012	03/24/10 11:44	966260	1	100323	MAR1
248527013	03/24/10 12:11	966260	1	100323	MAR1

248527014	03/24/10 12:38 966260 1	100323	MAR1
248527015	03/24/10 13:05 966260 1	100323	MAR1
CCV	03/24/10 13:32 1	100323	MAR1
CCB	03/24/10 14:16 1	100323	MAR1
248527016	03/24/10 14:43 966260 1	100323	MAR1
1202073602	03/24/10 15:10 966260 1	100323	MAR1
1202073604	03/24/10 15:37 966260 1	100323	MAR1
1202073606	03/24/10 16:04 966260 1	100323	MAR1
CVH	03/24/10 16:30 1	100323	MAR1
CCB	03/24/10 16:57 1	100323	MAR1
1202078558	03/24/10 17:24 968236 1	100323	MAR1
1202078565	03/24/10 17:51 968236 1	100323	MAR1
248511001	03/24/10 18:18 968236 1	100323	MAR1
1202078559	03/24/10 18:45 968236 1	100323	MAR1
1202078561	03/24/10 19:12 968236 1	100323	MAR1
1202078563	03/24/10 19:39 968236 1	100323	MAR1
248511002	03/24/10 20:06 968236 1	100323	MAR1
248511003	03/24/10 20:33 968236 1	100323	MAR1
248511004	03/24/10 21:00 968236 1	100323	MAR1
248511005	03/24/10 21:27 968236 1	100323	MAR1
CCV	03/24/10 21:53 1	100323	MAR1
CCB	03/24/10 22:20 1	100323	MAR1
248511006	03/24/10 22:47 968236 1	100323	MAR1
248511007	03/24/10 23:14 968236 1	100323	MAR1
248511008	03/24/10 23:41 968236 1	100323	MAR1

62 WIC100324-02CVH

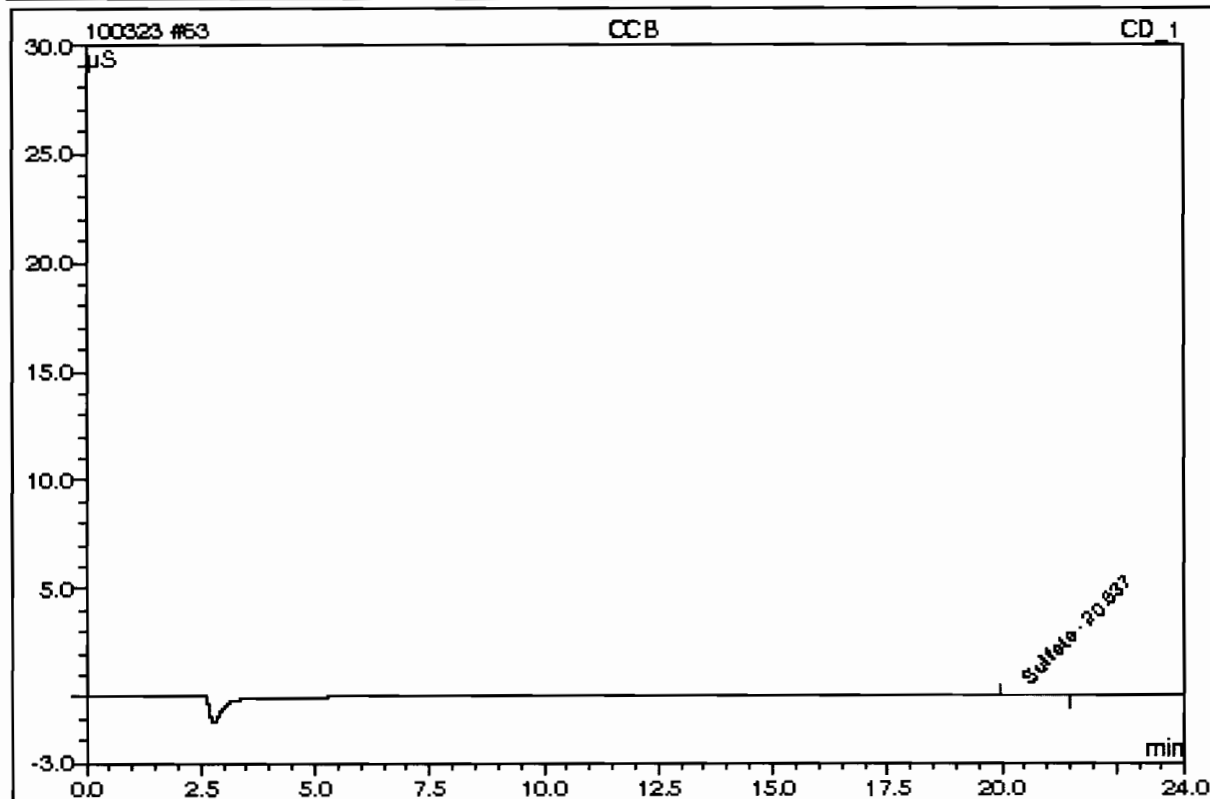
Sample Name:	WIC100324-02CVH	Injection Volume:	1.0
Vial Number:	50	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 16:30	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	7.7390		4.62010	11.88
2	7.11	Chloride	n.a.	15.3226		6.99526	17.99
3	9.07	Nitrite-N	n.a.	7.7297		6.80918	17.51
4	10.44	Chlorate	n.a.	4.0569		0.61780	1.59
5	11.34	Bromide	n.a.	3.9918		0.64932	1.67
6	13.22	Nitrate-N	n.a.	7.6541		8.29766	21.34
7	18.32	O-Phosphate-P	n.a.	3.9740		1.14983	2.96
8	20.53	Sulfate	n.a.	30.6296		9.74719	25.07
Total:				81.0976	0.000	38.886	100.00

63 CCB

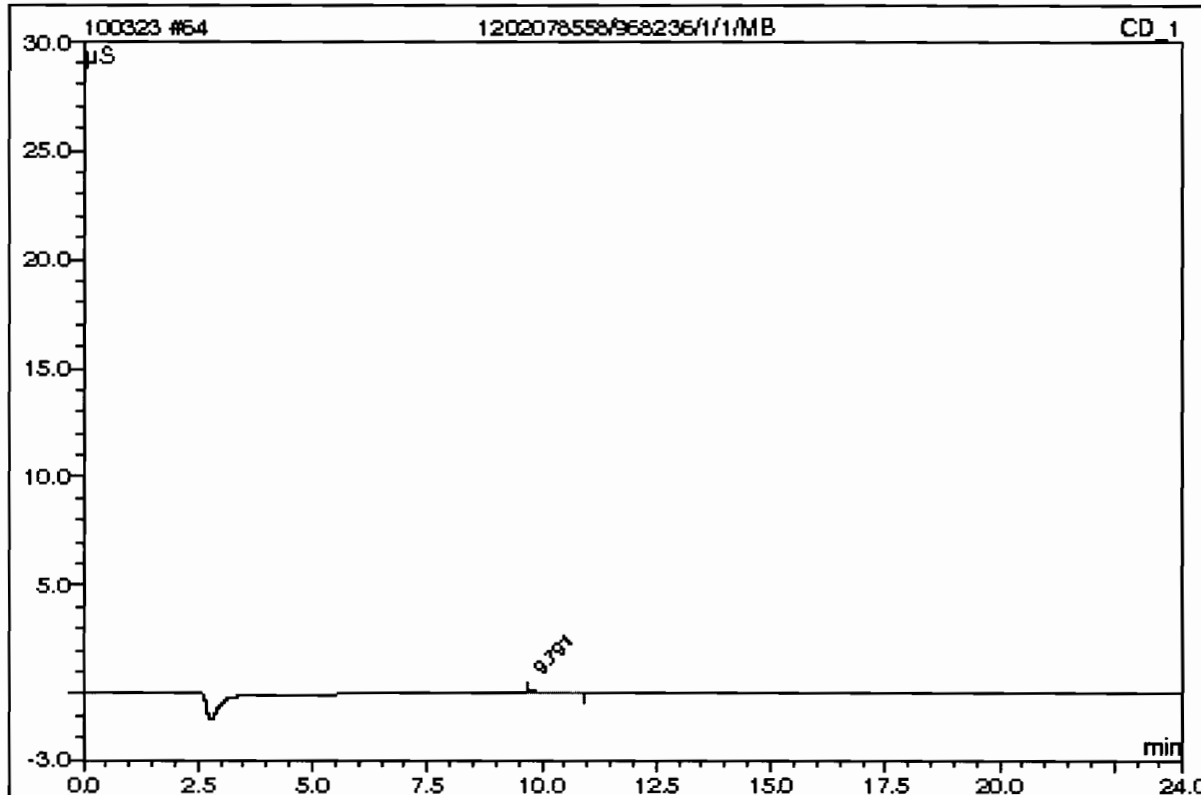
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	1	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 16:57	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
1	20.54	Sulfate	n.a.	0.3834		0.02002	100.00
Total:				0.3834	0.000	0.020	100.00

64 1202078558/968236/1/1/MB

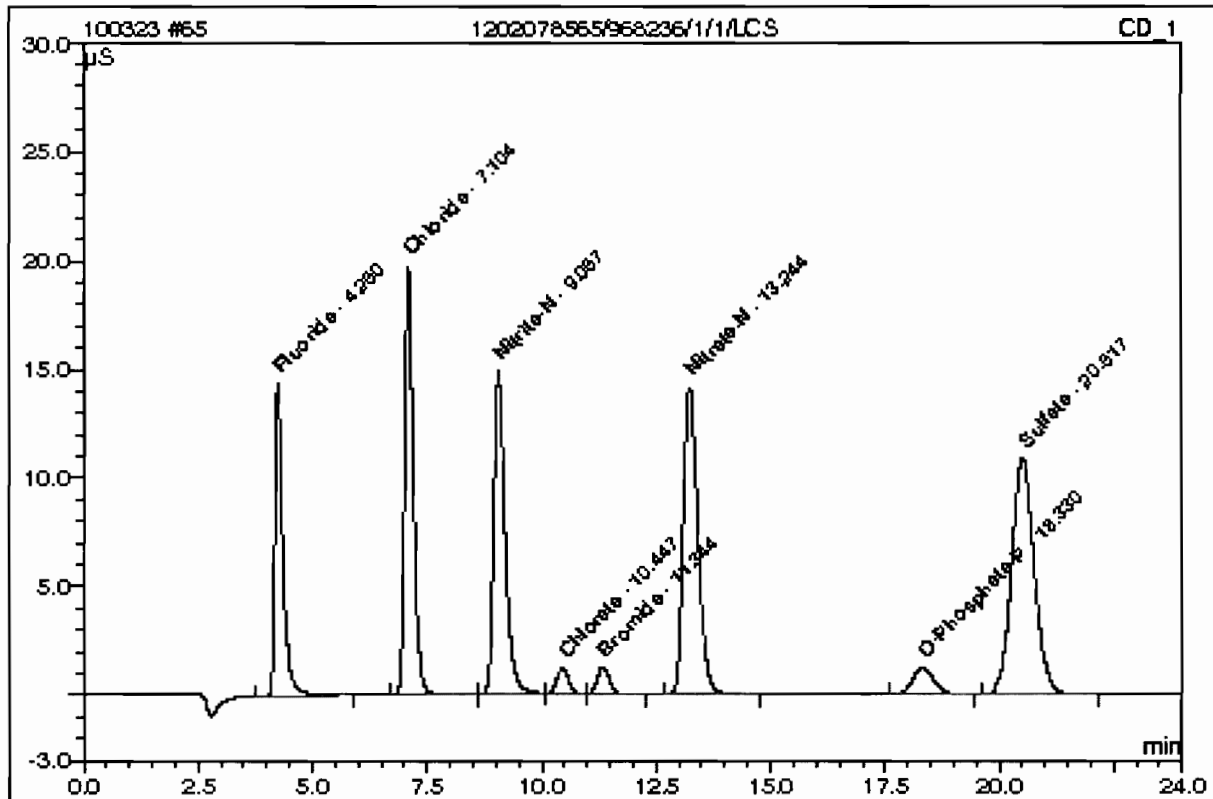
Sample Name:	1202078558/968236/1/1/MB	Injection Volume:	1.0
Vial Number:	2	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 17:24	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

65 1202078565/968236/1/1/LCS

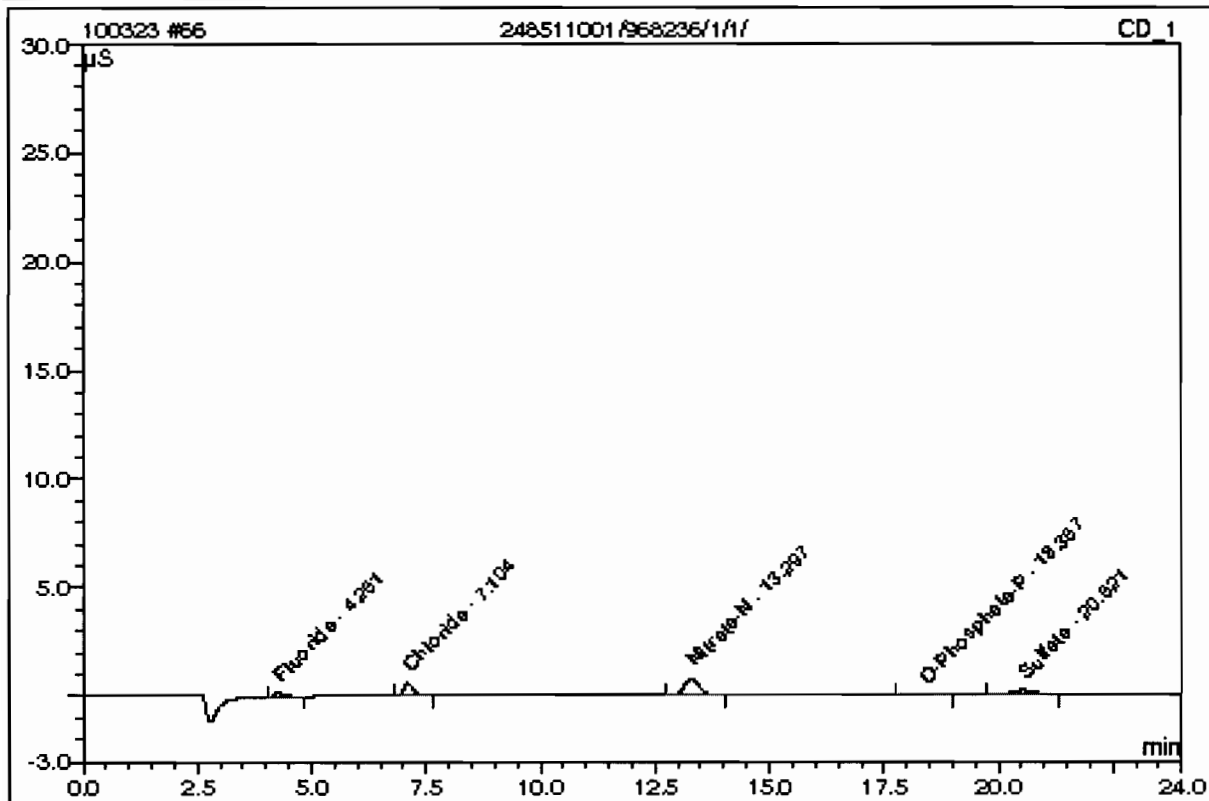
Sample Name:	1202078565/968236/1/1/LCS	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 17:51	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.9776		2.95785	11.98
2	7.10	Chloride	n.a.	9.6804		4.38824	17.77
3	9.07	Nitrate-N	n.a.	4.9556		4.34308	17.59
4	10.45	Chlorate	n.a.	2.6151		0.39503	1.60
5	11.34	Bromide	n.a.	2.5727		0.41638	1.69
6	13.24	Nitrate-N	n.a.	4.8411		5.20811	21.09
7	18.33	O-Phosphate-P	n.a.	2.4993		0.70296	2.85
8	20.52	Sulfate	n.a.	19.8429		6.27819	25.43
Total:				51.9848	0.000	24.690	100.00

66 248511001/968236/1/1/

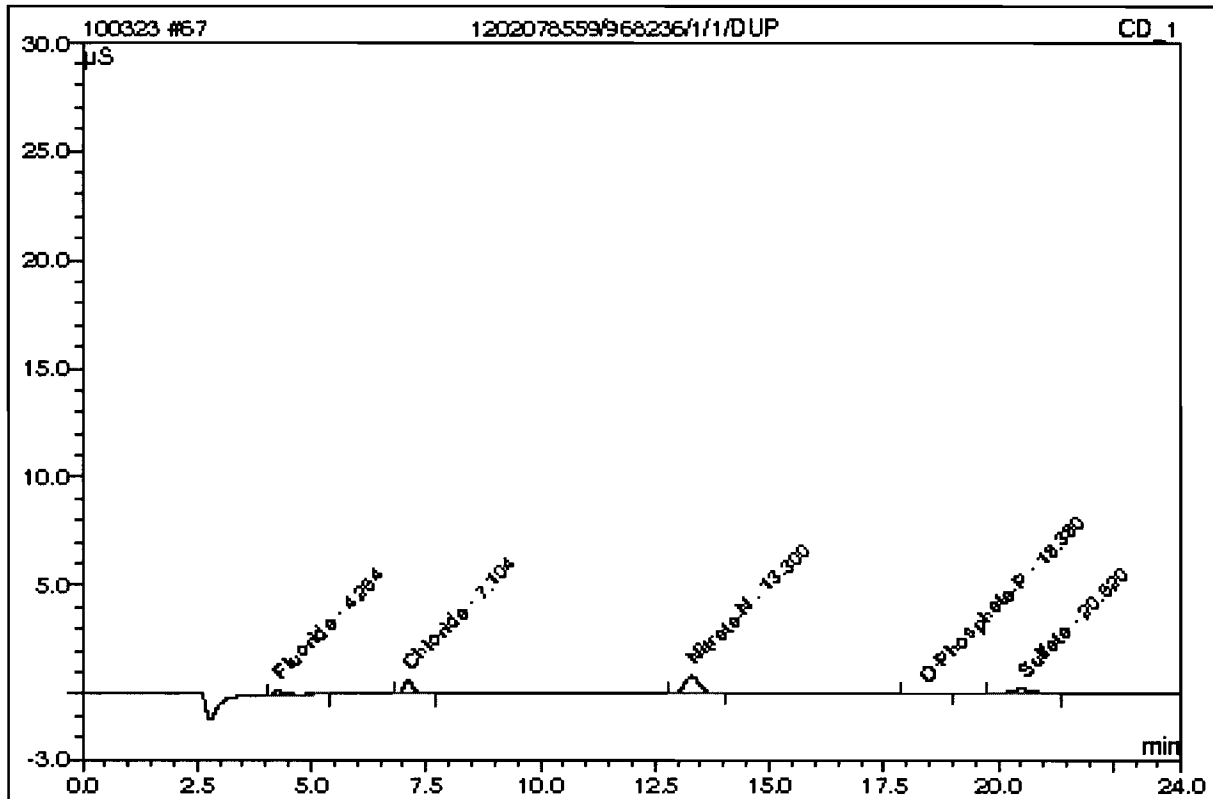
Sample Name:	248511001/968236/1/1/	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 18:18	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1406		0.04612	7.21
2	7.10	Chloride	n.a.	0.4812		0.13763	21.51
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.3731		0.30080	47.01
4	18.37	O-Phosphate-P	n.a.	0.2506		0.02154	3.37
5	20.52	Sulfate	n.a.	0.7372		0.13380	20.91
Total:				1.9827	0.000	0.640	100.00

67 1202078559/968236/1/1/DUP

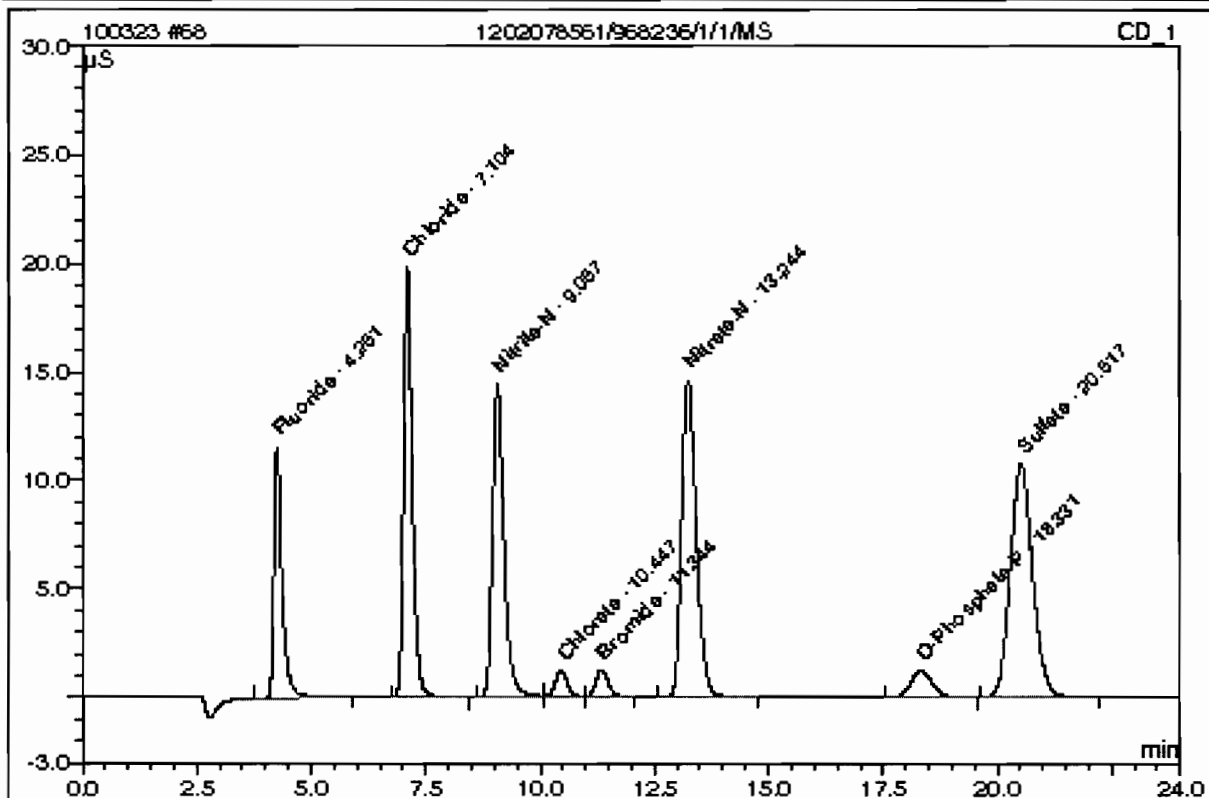
Sample Name:	1202078559/968236/1/1/DUP	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 18:45	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1536		0.05393	8.37
2	7.10	Chloride	n.a.	0.4832		0.13856	21.50
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.3718		0.29936	46.46
4	18.38	O-Phosphate-P	n.a.	0.2406		0.01852	2.87
5	20.52	Sulfate	n.a.	0.7378		0.13401	20.80
Total:				1.9871	0.000	0.644	100.00

68 1202078561/968236/1/1/MS

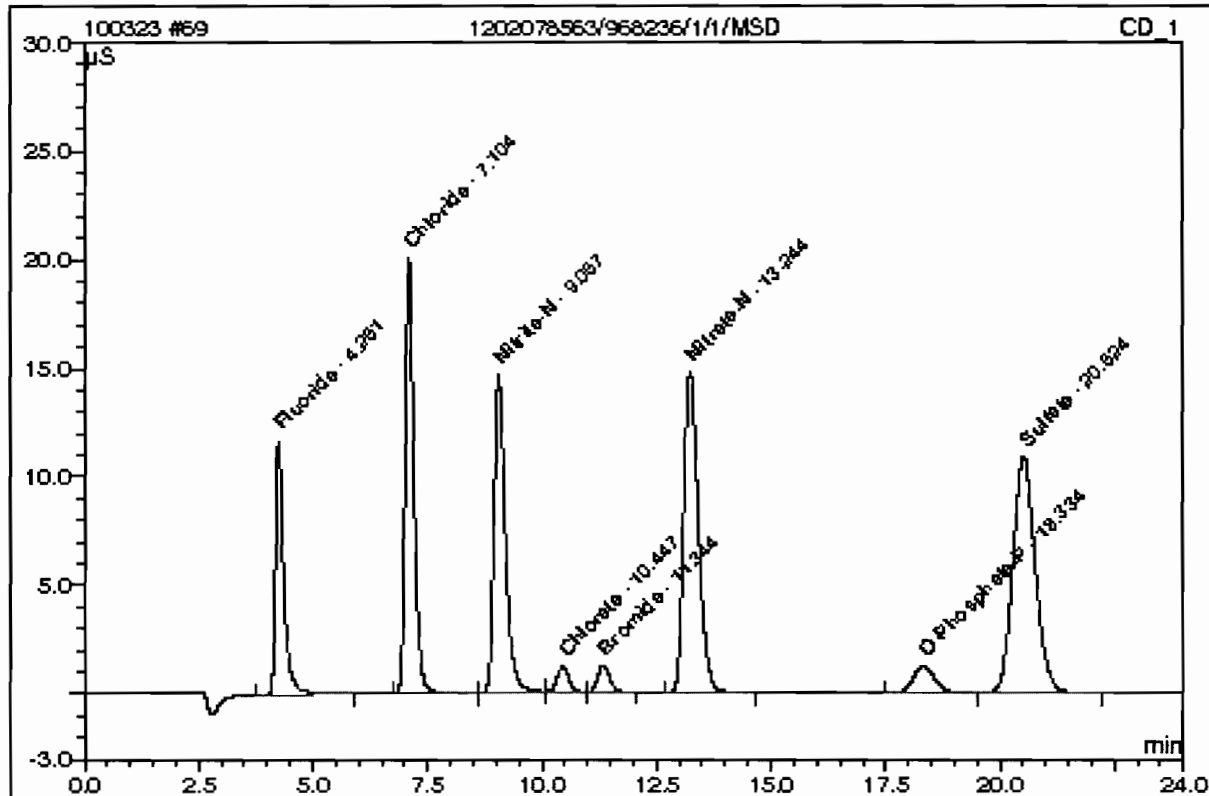
Sample Name:	1202078561/968236/1/1/MS	Injection Volume:	1.0
Vial Number:	6	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 19:12	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.0409		2.39394	10.01
2	7.10	Chloride	n.a.	9.6564		4.37713	18.30
3	9.07	Nitrate-N	n.a.	4.8012		4.20584	17.59
4	10.45	Chlorate	n.a.	2.5424		0.38380	1.60
5	11.34	Bromide	n.a.	2.4930		0.40331	1.69
6	13.24	Nitrate-N	n.a.	4.9791		5.35966	22.41
7	18.33	O-Phosphate-P	n.a.	2.4331		0.68290	2.86
8	20.52	Sulfate	n.a.	19.3145		6.10825	25.54
Total:				50.2606	0.000	23.915	100.00

69 1202078563/968236/1/1/MSD

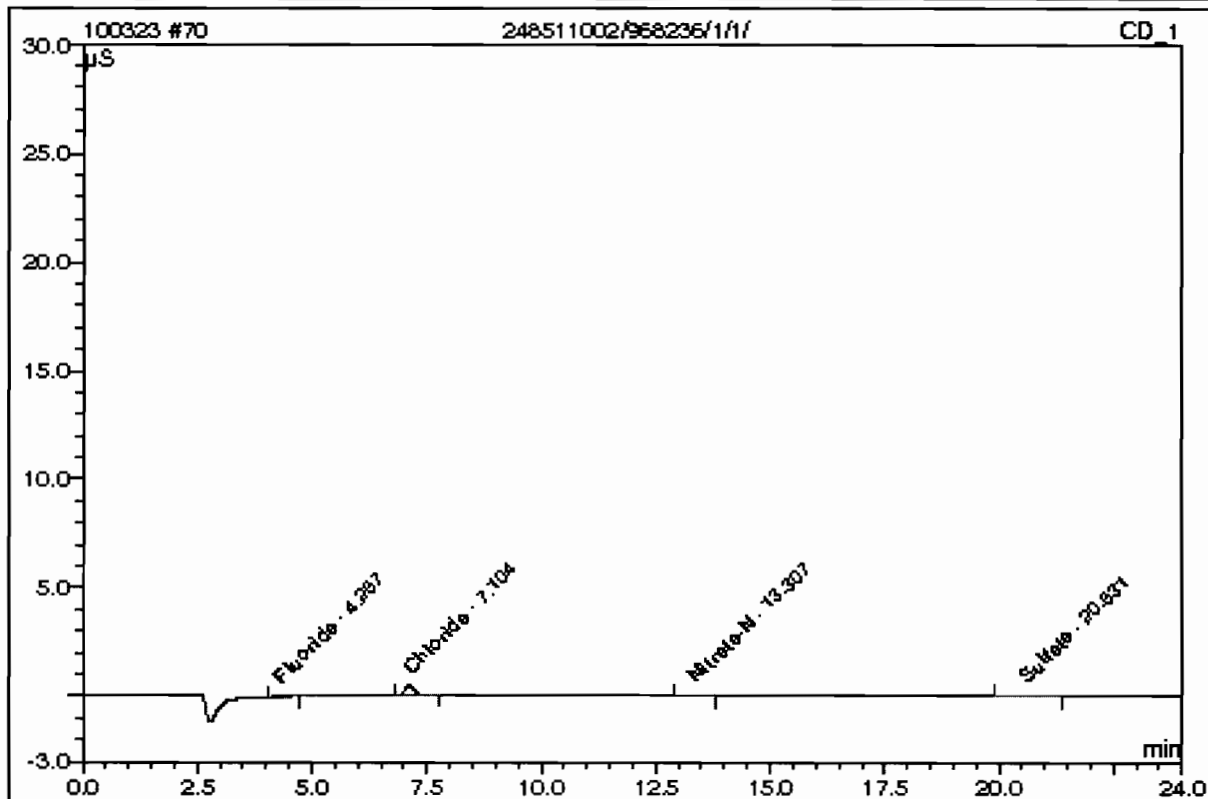
Sample Name:	1202078563/968236/1/1/MSD	Injection Volume:	1.0
Vial Number:	7	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 19:39	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.1006		2.42993	10.04
2	7.10	Chloride	n.a.	9.7814		4.43489	18.32
3	9.07	Nitrate-N	n.a.	4.8518		4.25078	17.56
4	10.45	Chlorate	n.a.	2.4425		0.36836	1.52
5	11.34	Bromide	n.a.	2.4537		0.39684	1.64
6	13.24	Nitrate-N	n.a.	5.0460		5.43312	22.44
7	18.33	O-Phosphate-P	n.a.	2.4451		0.68655	2.84
8	20.52	Sulfate	n.a.	19.6278		6.20902	25.65
Total:				50.7489	0.000	24.209	100.00

70 248511002/968236/1/1/

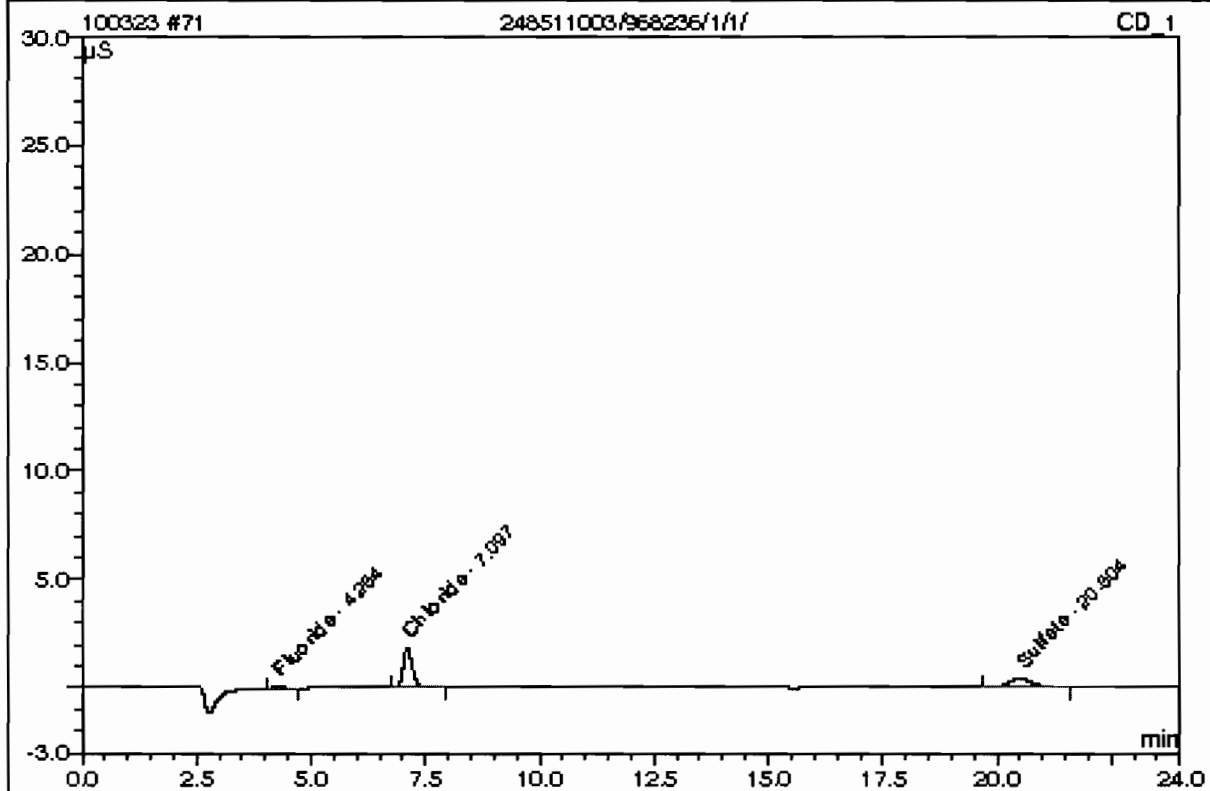
Sample Name:	248511002/968236/1/1/	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 20:06	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.1009		0.02221	11.26
2	7.10	Chloride	n.a.	0.4170		0.10796	54.74
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1197		0.02251	11.41
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.53	Sulfate	n.a.	0.4597		0.04455	22.59
Total:				1.0973	0.000	0.197	100.00

71 248511003/968236/1/1/

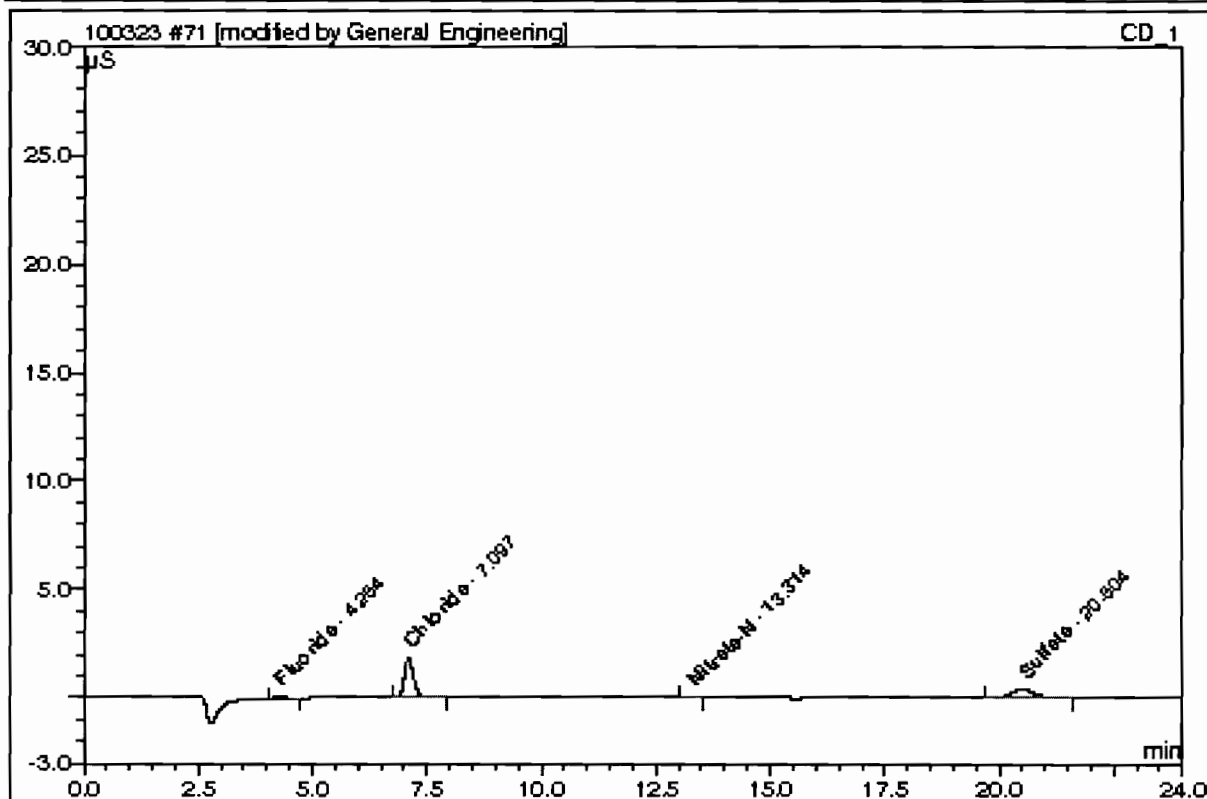
Sample Name:	248511003/968236/1/1/	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 20:33	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.0976		0.02020	2.95
2	7.10	Chloride	n.a.	1.1114		0.42882	62.59
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.50	Sulfate	n.a.	1.0554		0.23613	34.46
Total:				2.2643	0.000	0.685	100.00

71 248511003/968236/1/1/

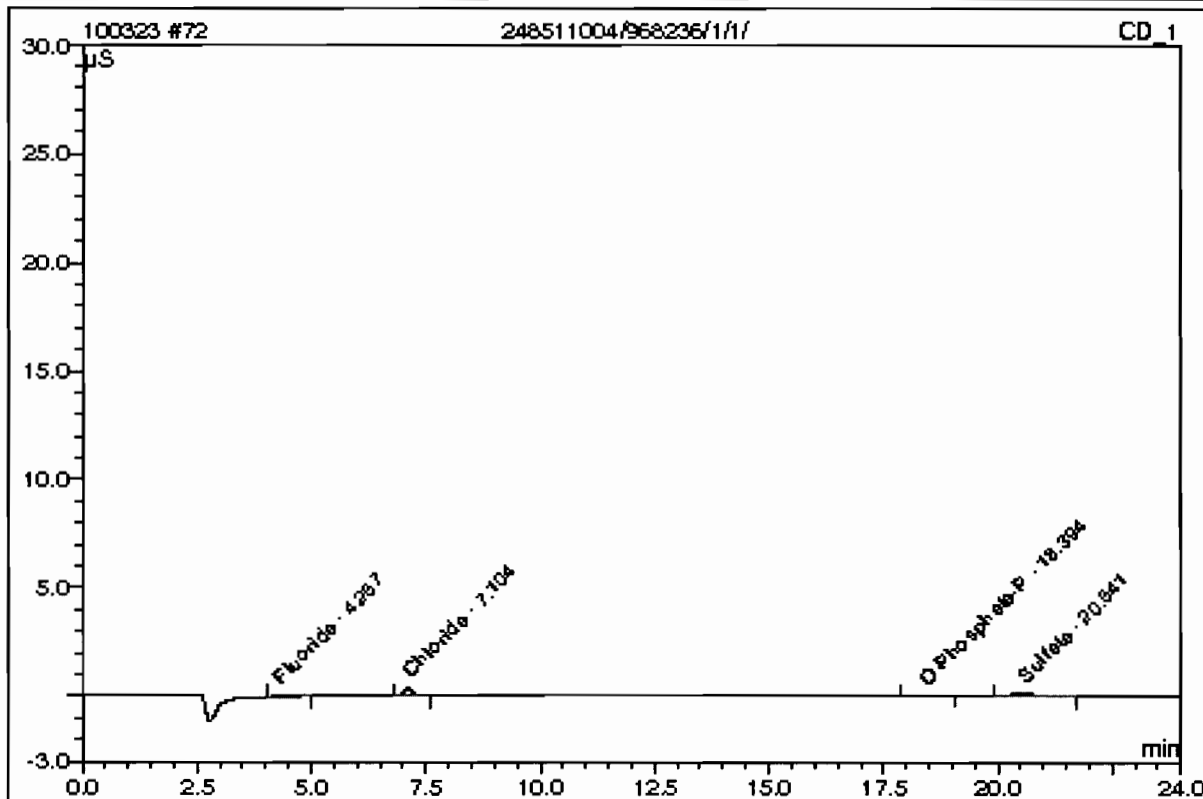
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Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 20:33	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.28	Fluoride	n.a.	0.0976		0.02020	2.93
2	7.10	Chloride	n.a.	1.1114		0.42882	62.11
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1041		0.00532	0.77
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.50	Sulfate	n.a.	1.0554		0.23613	34.20
Total:				2.3684	0.000	0.690	100.00

72 248511004/968236/1/1/

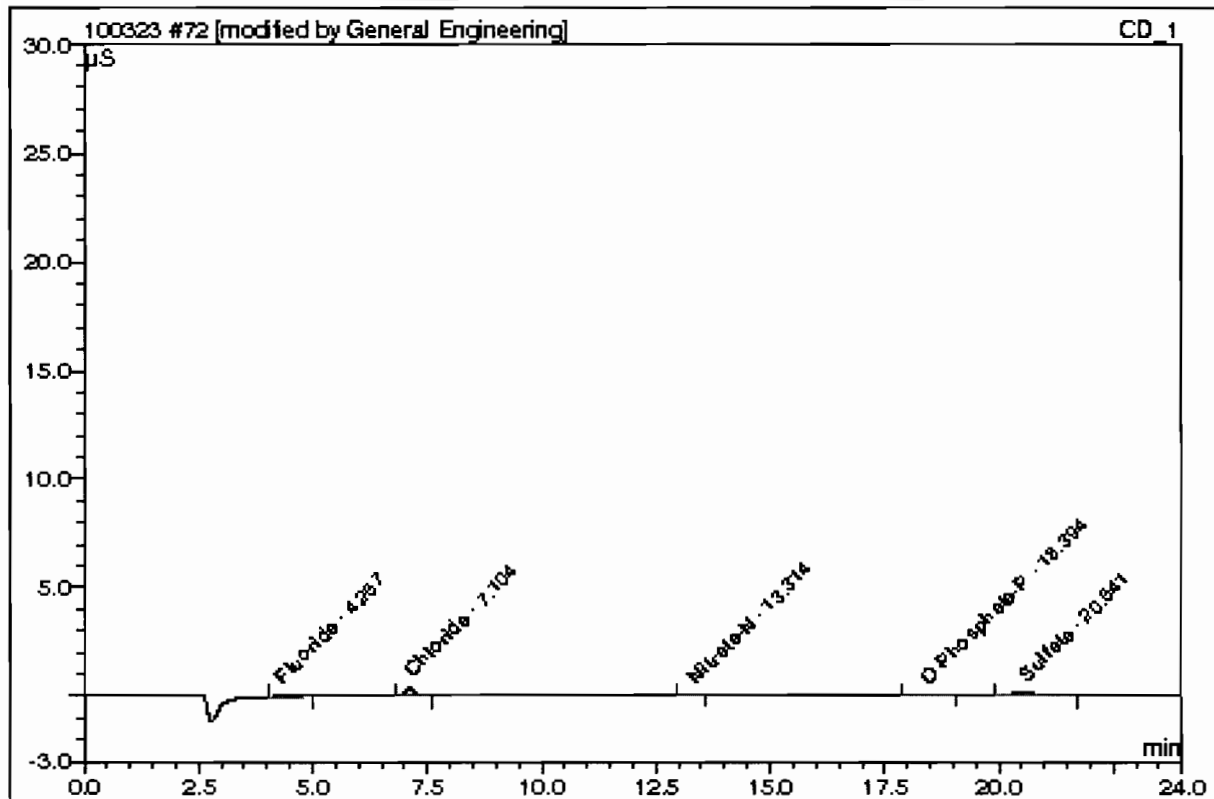
Sample Name:	248511004/968236/1/1/	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 21:00	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.0984		0.02071	9.99
2	7.10	Chloride	n.a.	0.3685		0.08557	41.29
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
3	18.39	O-Phosphate-P	n.a.	0.2419		0.01890	9.12
4	20.54	Sulfate	n.a.	0.5764		0.08208	39.60
Total:				1.2852	0.000	0.207	100.00

72 248511004/968236/1/1/

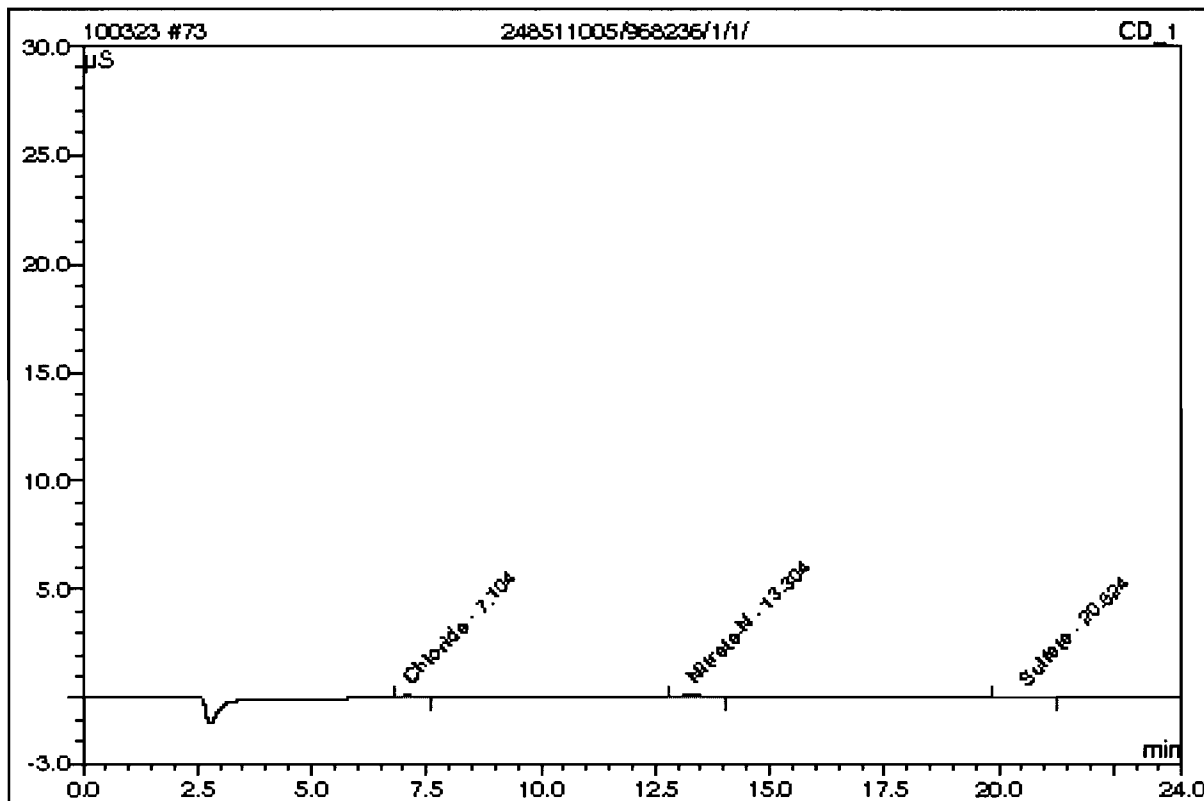
Sample Name:	248511004/968236/1/1/	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 21:00	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.0984		0.02071	9.82
2	7.10	Chloride	n.a.	0.3685		0.08557	39.75
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1066		0.00803	3.73
4	18.39	O-Phosphate-P	n.a.	0.2419		0.01890	8.78
5	20.54	Sulfate	n.a.	0.5764		0.08208	38.12
Total:				1.3917	0.000	0.215	100.00

73 248511005/968236/1/1/

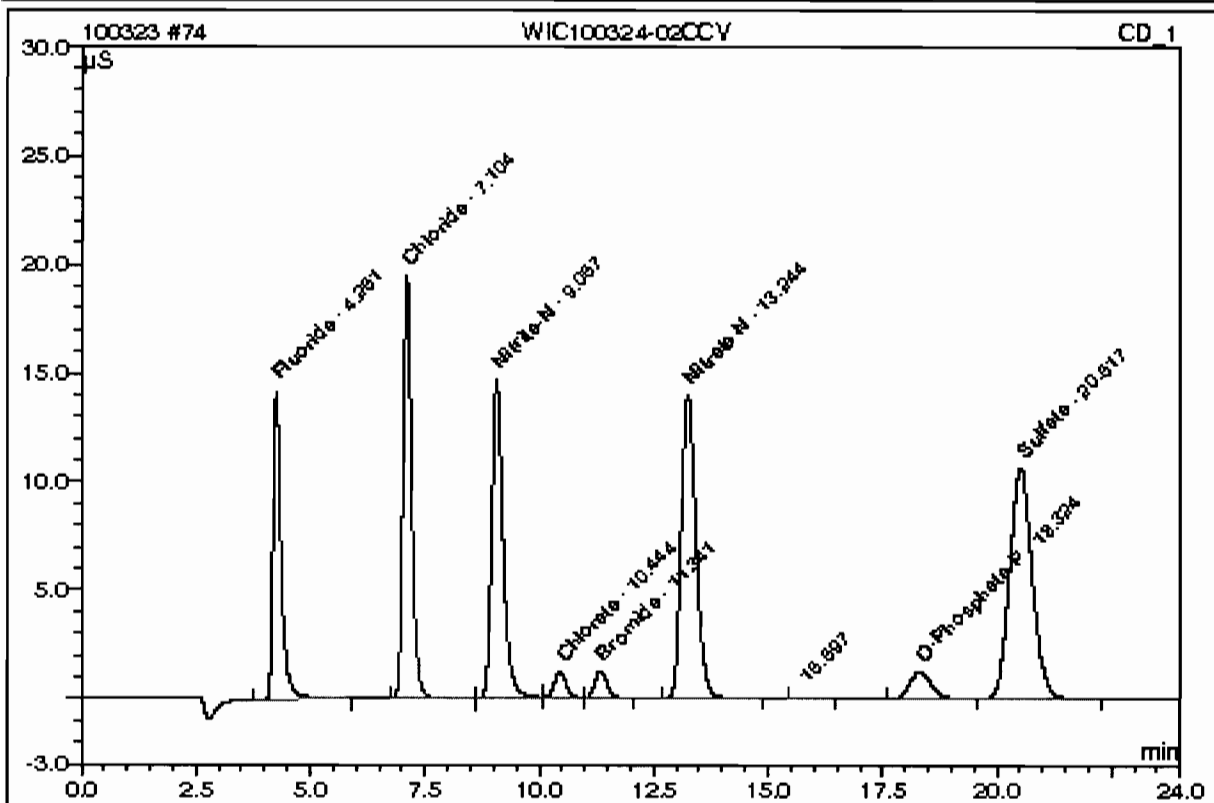
Sample Name:	248511005/968236/1/1/	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 21:27	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.10	Chloride	n.a.	0.2482		0.02996	20.21
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
2	13.30	Nitrate-N	n.a.	0.1647		0.07188	48.50
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.52	Sulfate	n.a.	0.4653		0.04637	31.29
Total:				0.8782	0.000	0.148	100.00

74 WIC100324-02CCV

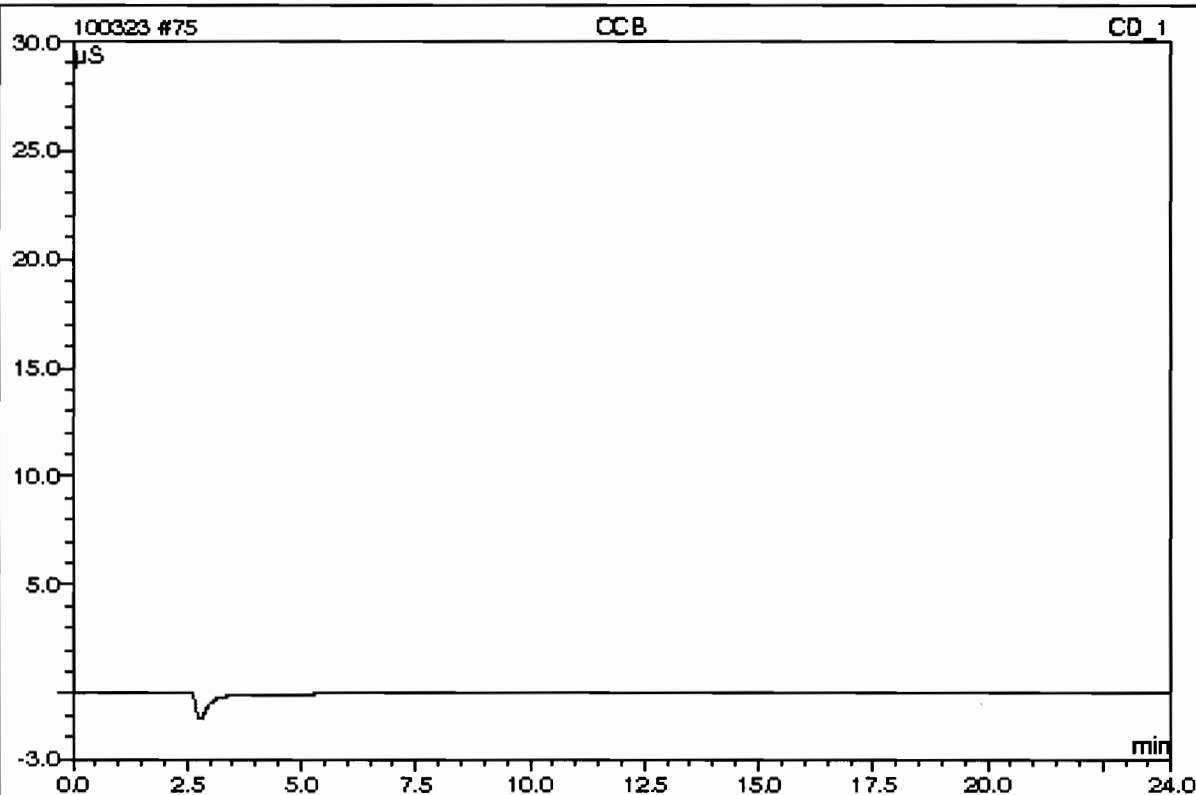
Sample Name:	WIC100324-02CCV	Injection Volume:	1.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 21:53	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	4.8984		2.91016	12.05
2	7.10	Chloride	n.a.	9.4786		4.29500	17.78
3	9.07	Nitrate-N	n.a.	4.8685		4.26567	17.66
4	10.44	Chlorate	n.a.	2.5402		0.38345	1.59
5	11.34	Bromide	n.a.	2.4842		0.40185	1.66
6	13.24	Nitrate-N	n.a.	4.7564		5.11505	21.18
8	18.32	O-Phosphate-P	n.a.	2.4823		0.69781	2.89
9	20.52	Sulfate	n.a.	19.1792		6.06473	25.11
Total:				50.6878	0.000	24.134	99.92

75 CCB

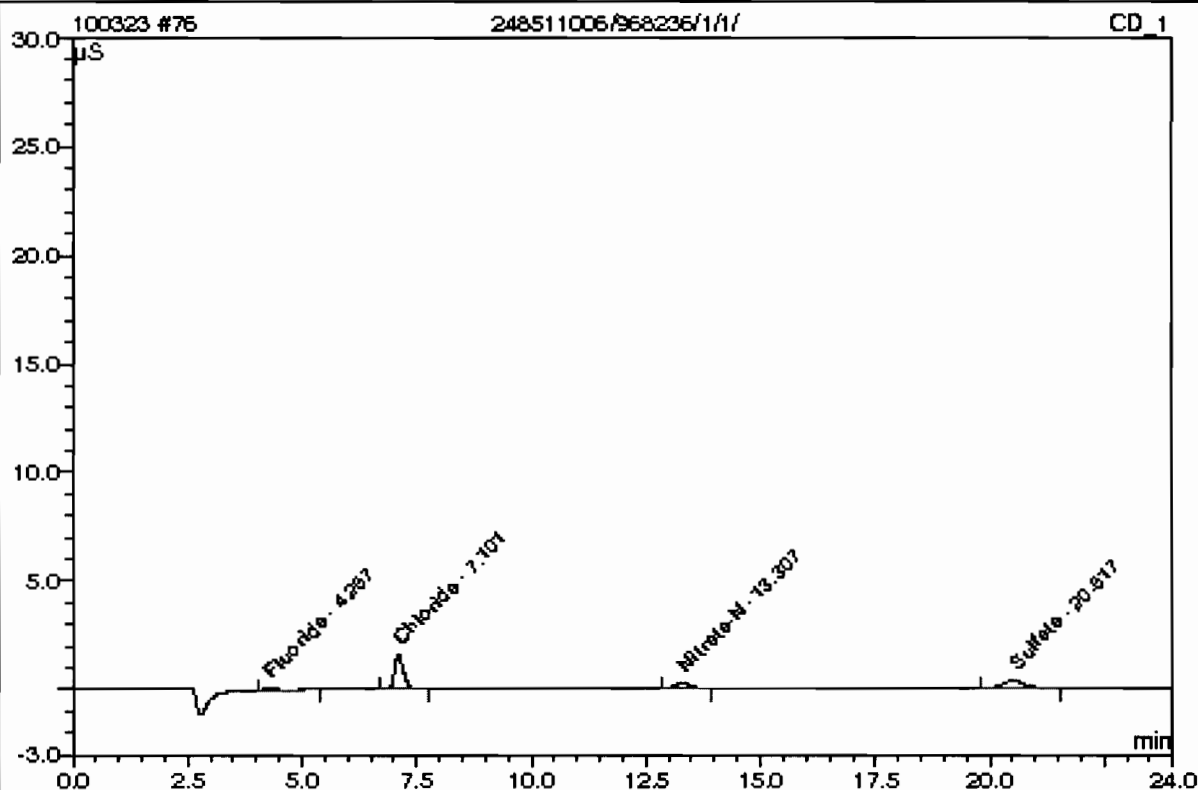
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 22:20	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

76 248511006/968236/1/1/

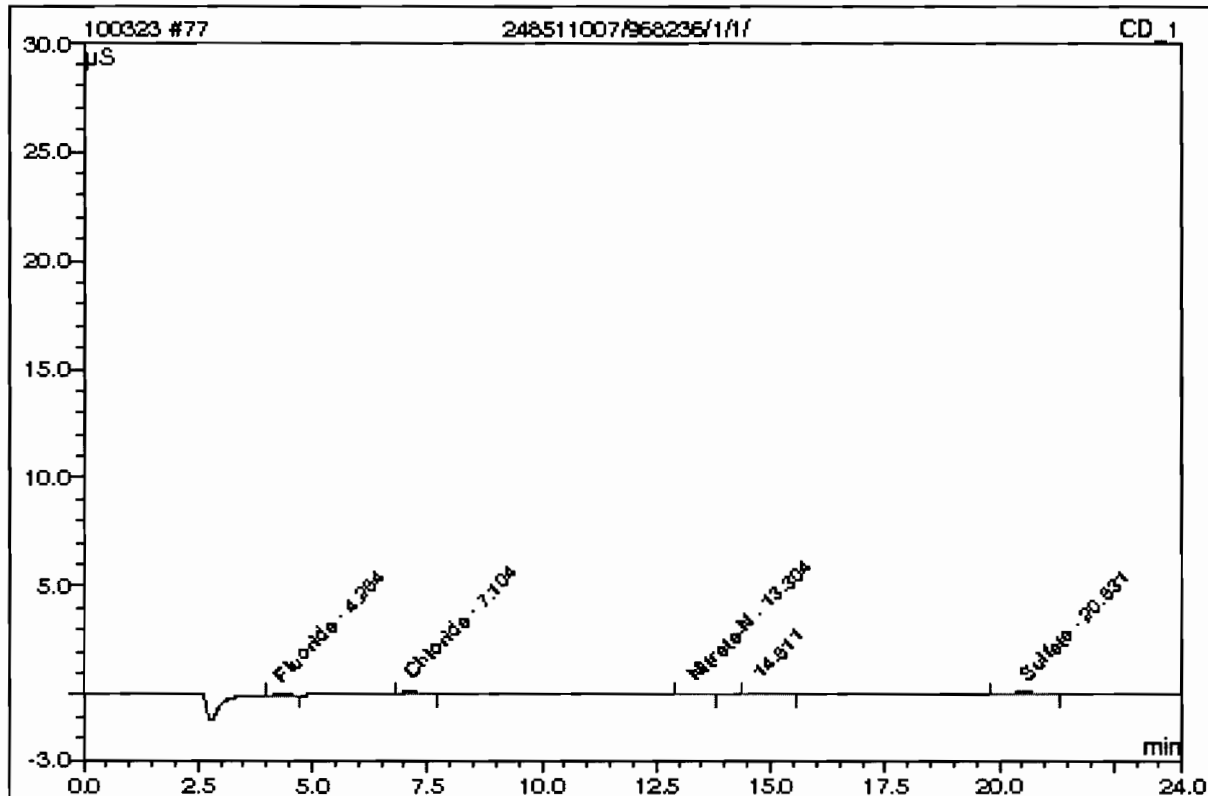
Sample Name:	248511006/968236/1/1/	Injection Volume:	1.0
Vial Number:	14	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 22:47	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.27	Fluoride	n.a.	0.1083		0.02669	3.68
2	7.10	Chloride	n.a.	0.9684		0.36273	49.97
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1969		0.10727	14.78
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.52	Sulfate	n.a.	1.0340		0.22926	31.58
Total:				2.3076	0.000	0.726	100.00

77 248511007/968236/1/1/

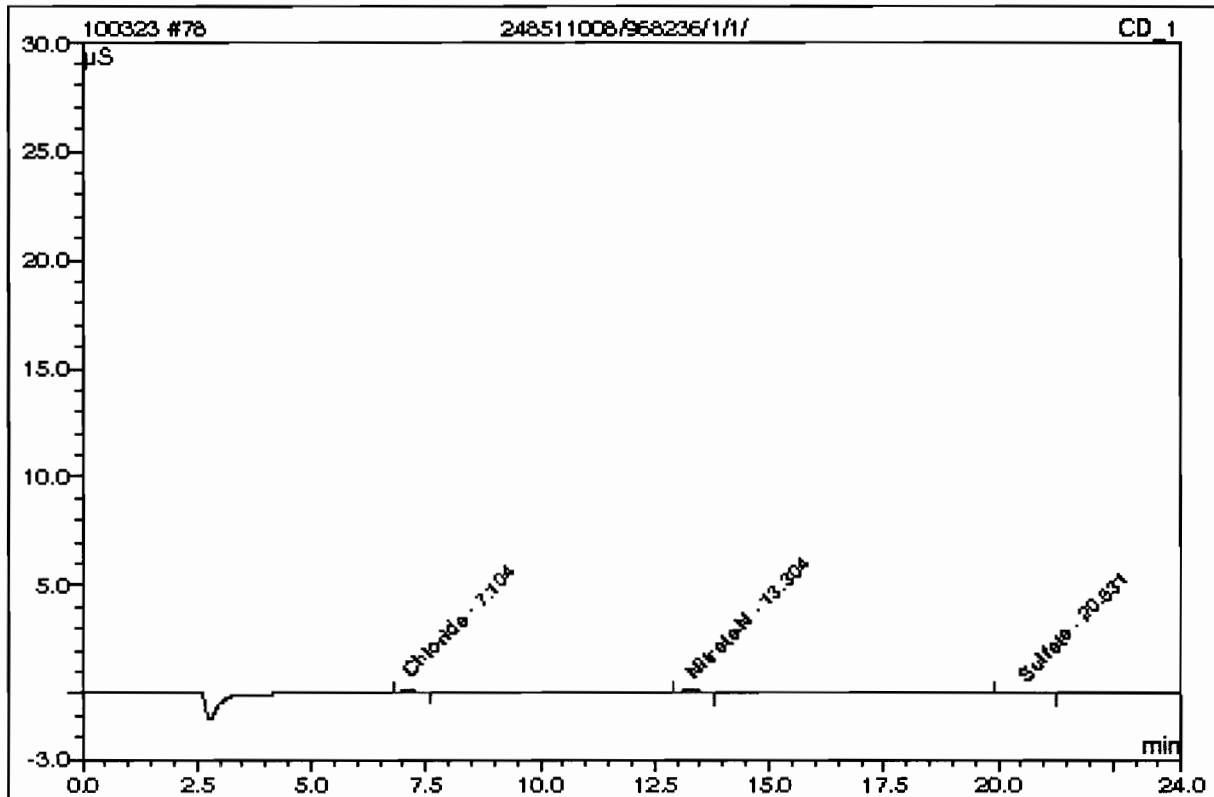
Sample Name:	248511007/968236/1/1/	Injection Volume:	1.0
Vial Number:	15	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 23:14	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.26	Fluoride	n.a.	0.1029		0.02342	12.11
2	7.10	Chloride	n.a.	0.2978		0.05290	27.36
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.1234		0.02654	13.73
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	20.53	Sulfate	n.a.	0.5259		0.06584	34.05
Total:				1.0500	0.000	0.169	87.26

78 248511008/968236/1/1/

Sample Name:	248511008/968236/1/1/	Injection Volume:	1.0
Vial Number:	16	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/24/2010 23:41	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;9056



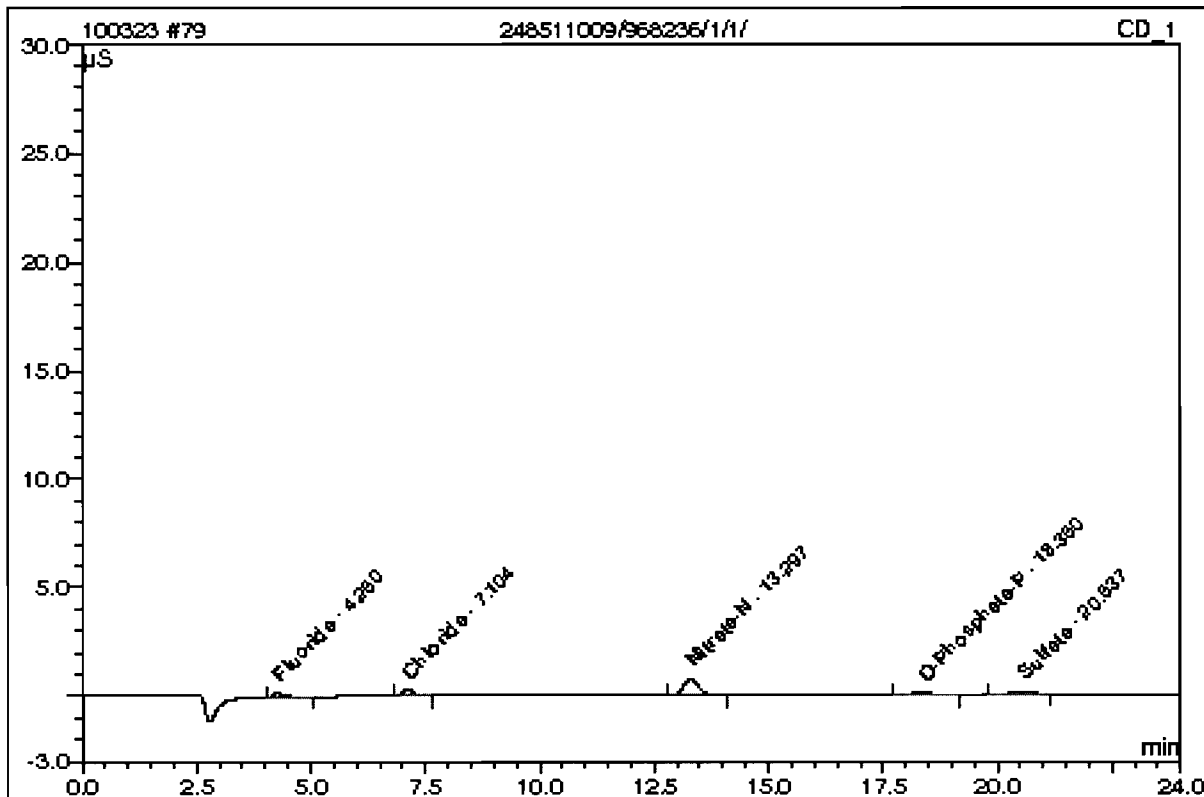
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.10	Chloride	n.a.	0.2881		0.04843	36.98
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
2	13.30	Nitrate-N	n.a.	0.1485		0.05409	41.31
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.53	Sulfate	n.a.	0.4095		0.02843	21.71
Total:				0.8462	0.000	0.131	100.00

This is runlog for Sequence 100323.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
248511009	03/25/10 00:08	968236	1	100323	MAR1
248511010	03/25/10 00:35	968236	1	100323	MAR1
248511011	03/25/10 01:02	968236	1	100323	MAR1
248511012	03/25/10 01:29	968236	1	100323	MAR1
248511013	03/25/10 01:56	968236	1	100323	MAR1
248511014	03/25/10 02:23	968236	1	100323	MAR1
248511015	03/25/10 02:49	968236	1	100323	MAR1
CVH	03/25/10 03:16		1	100323	MAR1
CCB	03/25/10 03:43		1	100323	MAR1
248511016	03/25/10 04:10	968236	1	100323	MAR1
248511017	03/25/10 04:37	968236	1	100323	MAR1
248511018	03/25/10 05:04	968236	1	100323	MAR1
248511019	03/25/10 05:31	968236	1	100323	MAR1
248511020	03/25/10 05:58	968236	1	100323	MAR1
1202078560	03/25/10 06:25	968236	1	100323	MAR1
1202078562	03/25/10 06:52	968236	1	100323	MAR1
1202078564	03/25/10 07:19	968236	1	100323	MAR1
CCV	03/25/10 07:45		1	100323	MAR1
CCB	03/25/10 08:12		1	100323	MAR1

79 248511009/968236/1/1/

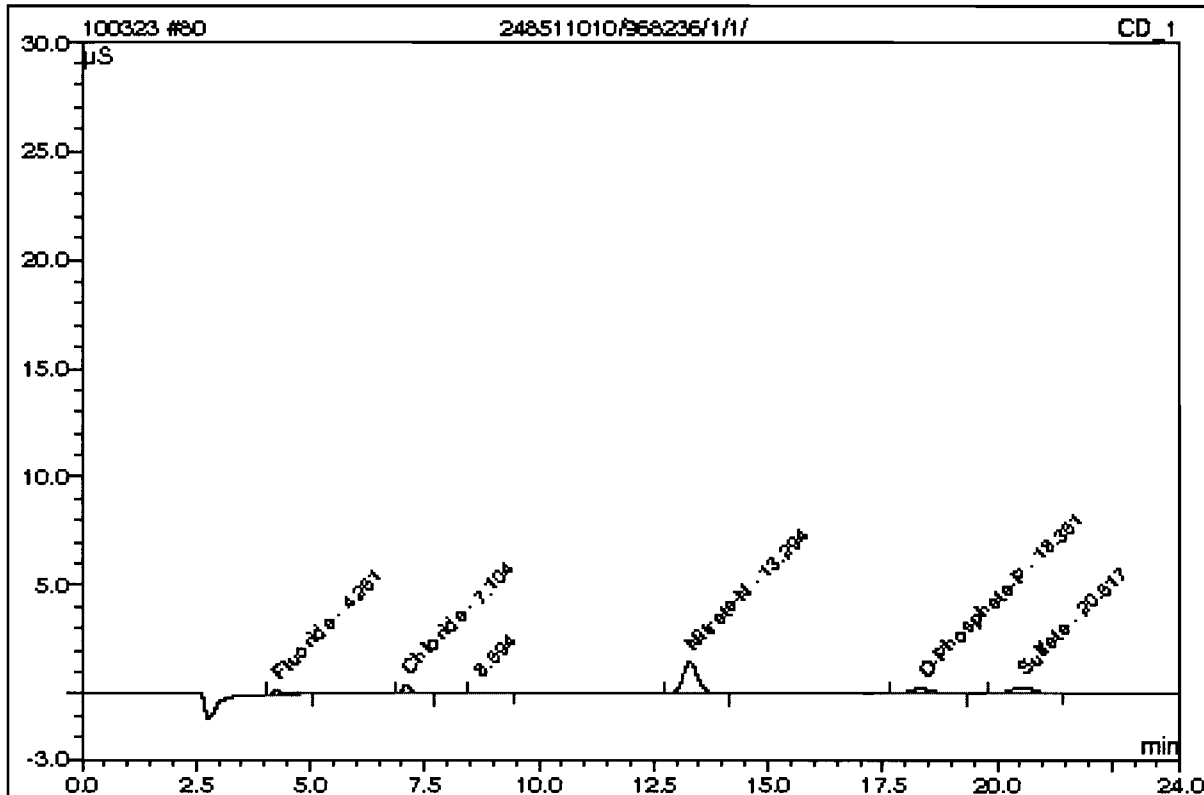
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Vial Number:	17	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 0:08	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1509		0.05232	8.41
2	7.10	Chloride	n.a.	0.3481		0.07614	12.25
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.3711		0.29864	48.03
4	18.35	O-Phosphate-P	n.a.	0.4287		0.07550	12.14
5	20.54	Sulfate	n.a.	0.6917		0.11918	19.17
Total:				1.9906	0.000	0.622	100.00

80 248511010/968236/1/1/

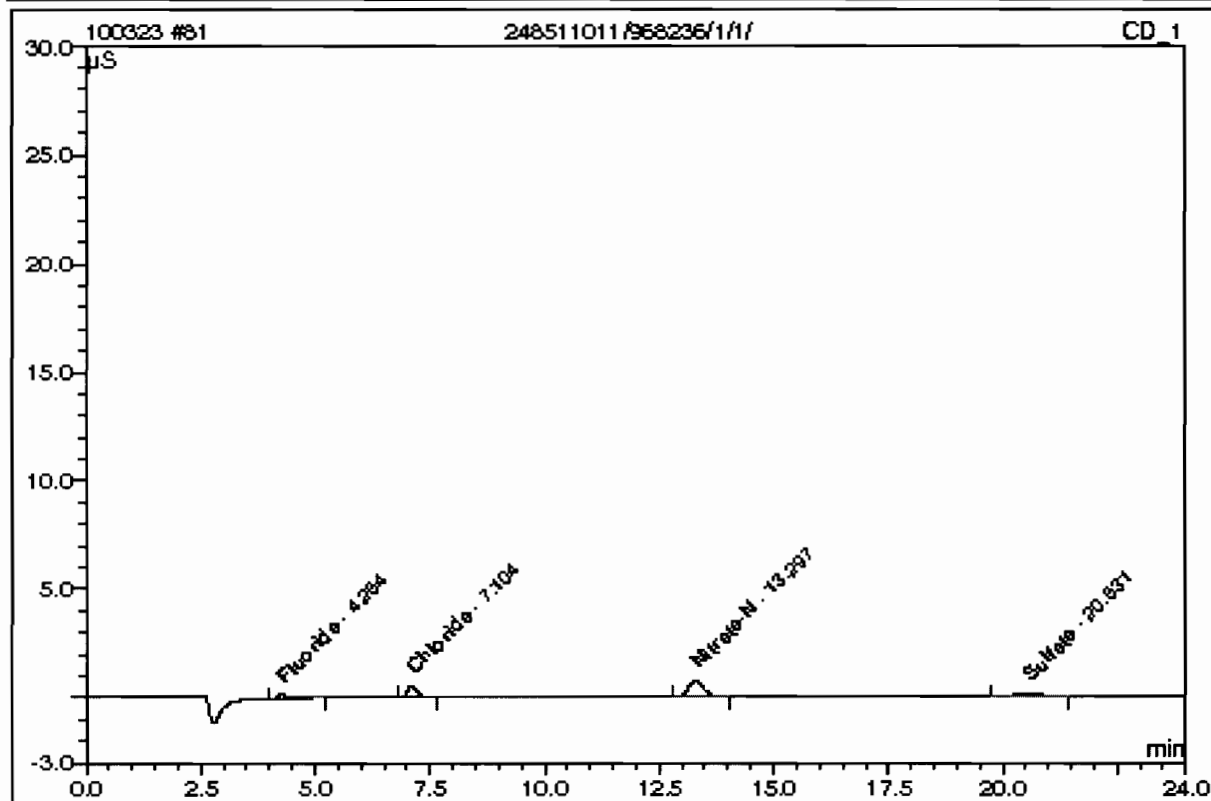
Sample Name:	248511010/968236/1/1/	Injection Volume:	1.0
Vial Number:	18	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 0:35	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1361		0.04342	4.14
2	7.10	Chloride	n.a.	0.3977		0.09903	9.45
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
4	13.29	Nitrate-N	n.a.	0.5985		0.54837	52.32
5	18.35	O-Phosphate-P	n.a.	0.6443		0.14085	13.44
6	20.52	Sulfate	n.a.	0.8842		0.18109	17.28
Total:				2.6609	0.000	1.013	96.63

81 248511011/968236/1/1/

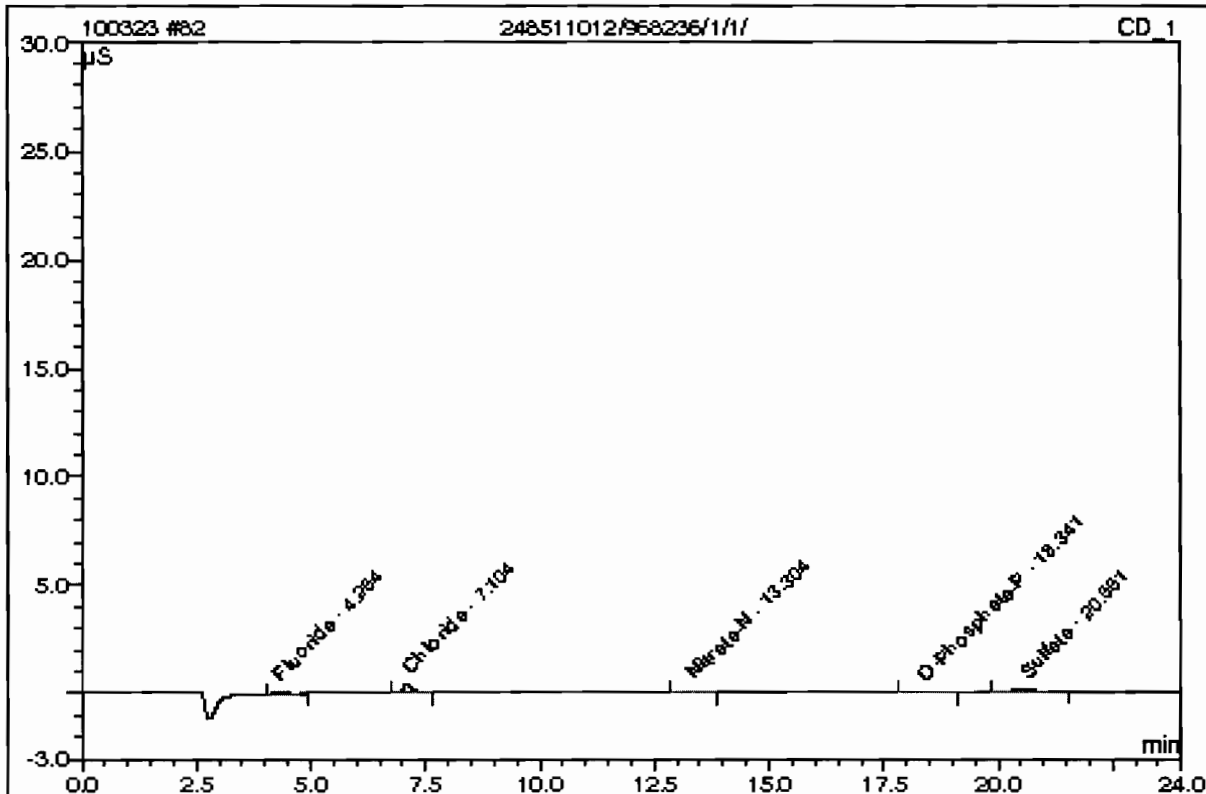
Sample Name:	248511011/968236/1/1/	Injection Volume:	1.0
Vial Number:	19	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 1:02	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1468		0.04985	8.22
2	7.10	Chloride	n.a.	0.4724		0.13357	22.03
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.3672		0.29431	48.53
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.53	Sulfate	n.a.	0.7213		0.12870	21.22
Total:				1.7078	0.000	0.606	100.00

82 248511012/968236/1/1/

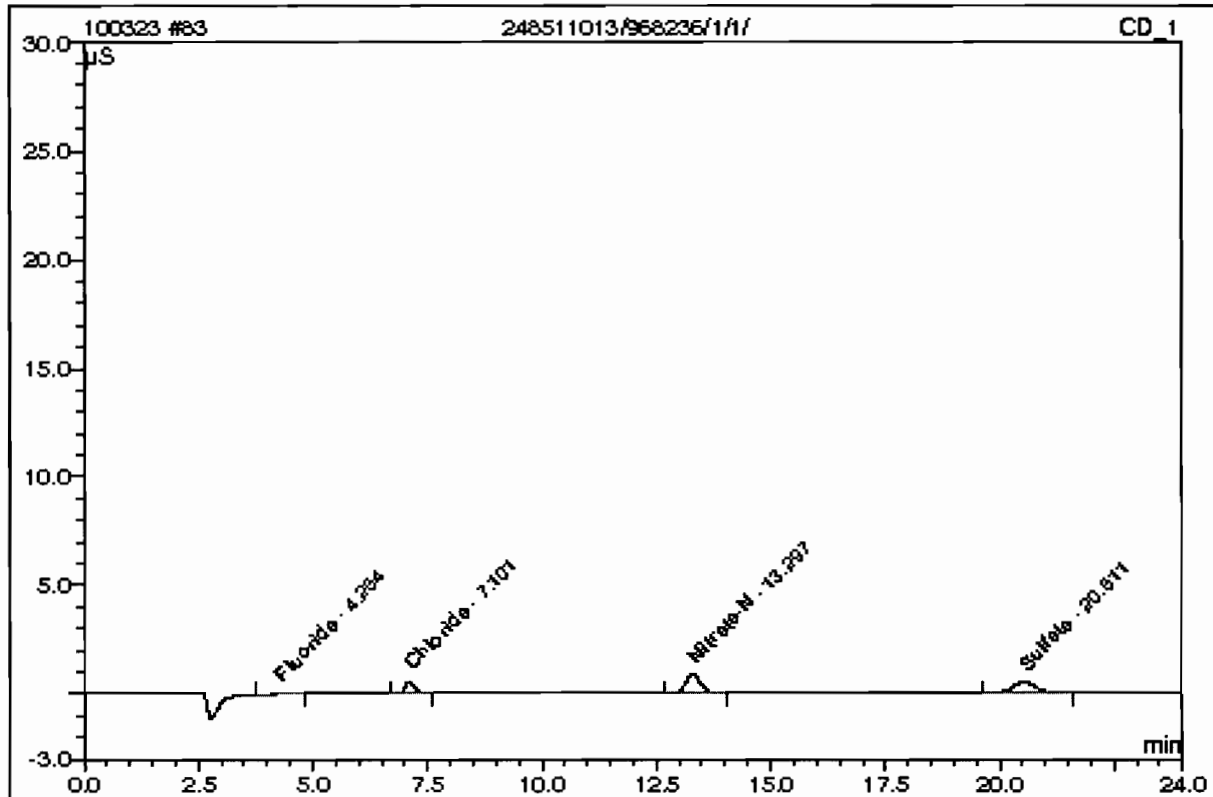
Sample Name:	248511012/968236/1/1/	Injection Volume:	1.0
Vial Number:	20	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 1:29	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GLGCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.26	Fluoride	n.a.	0.1059		0.02520	9.50
2	7.10	Chloride	n.a.	0.3984		0.09936	37.47
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.1296		0.03337	12.59
4	18.34	O-Phosphate-P	n.a.	0.2756		0.02912	10.98
5	20.55	Sulfate	n.a.	0.5640		0.07811	29.46
Total:				1.4735	0.000	0.265	100.00

83 248511013/968236/1/1/

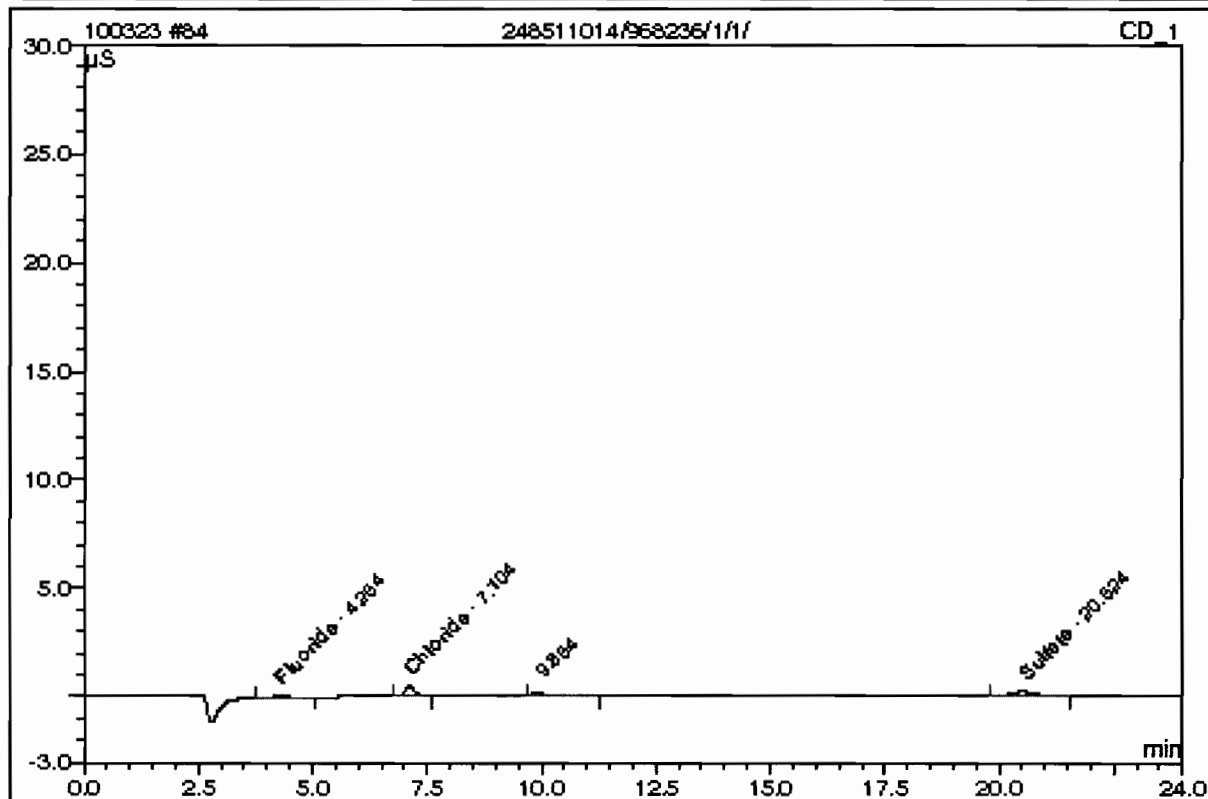
Sample Name:	248511013/968236/1/1/	Injection Volume:	1.0
Vial Number:	21	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 1:56	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1025		0.02314	2.97
2	7.10	Chloride	n.a.	0.4652		0.13022	16.73
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.3973		0.32732	42.05
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.51	Sulfate	n.a.	1.2469		0.29772	38.25
Total:				2.2118	0.000	0.778	100.00

84 248511014/968236/1/1/

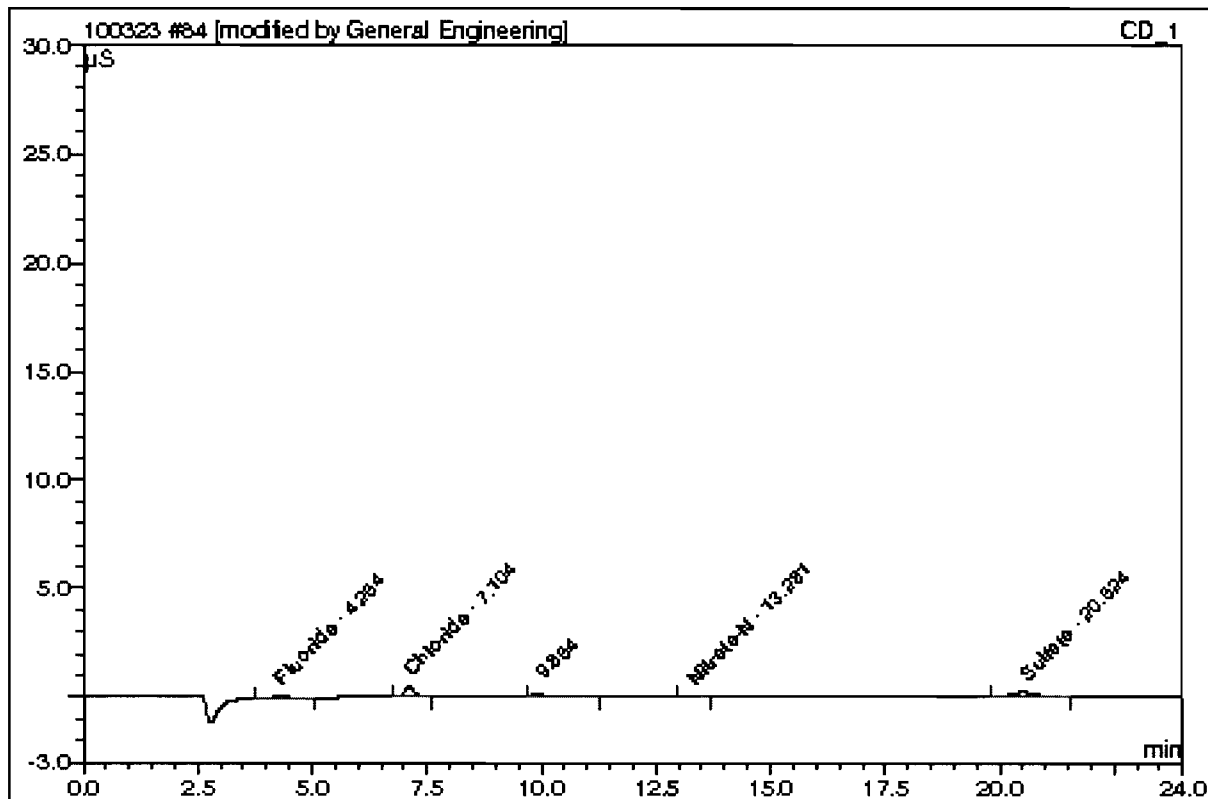
Sample Name:	248511014/968236/1/1/	Injection Volume:	1.0
Vial Number:	22	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 2:23	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1165		0.03158	9.06
2	7.10	Chloride	n.a.	0.4287		0.11338	32.52
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.52	Sulfate	n.a.	0.7655		0.14291	40.99
Total:				1.3107	0.000	0.288	82.57

84 248511014/968236/1/1/

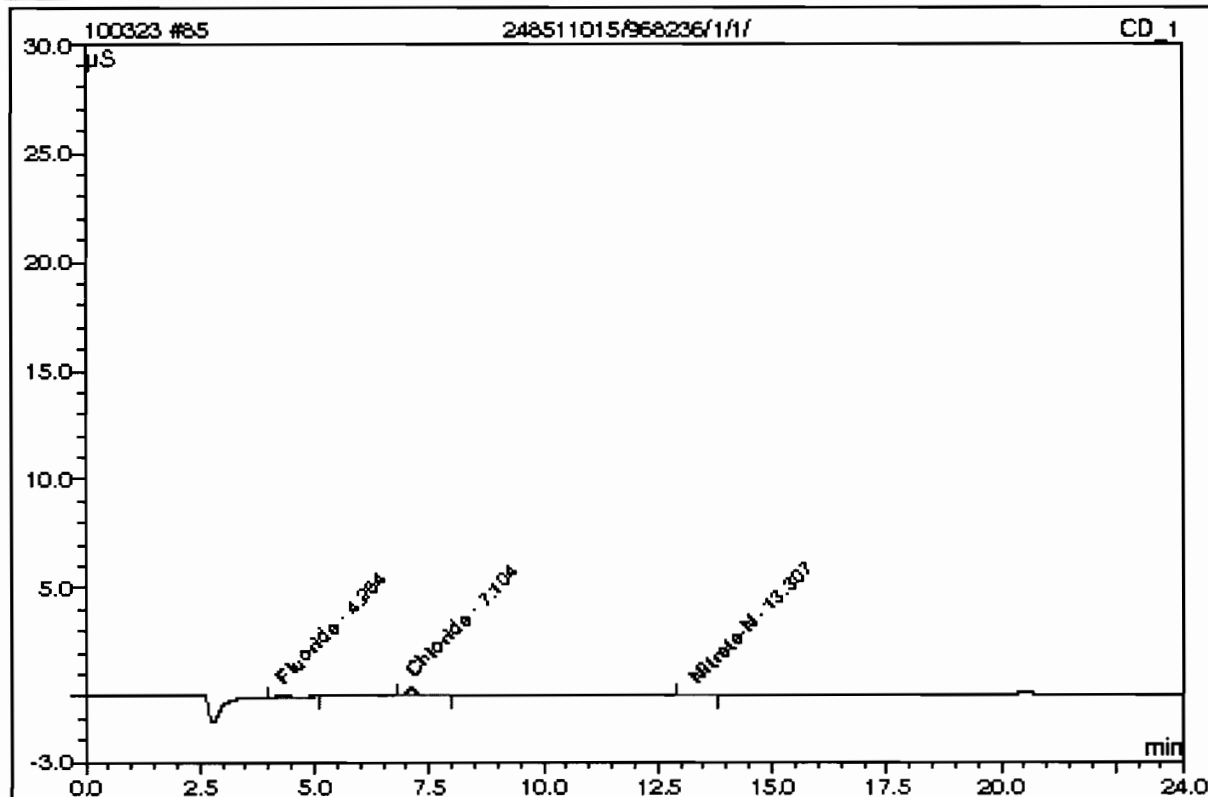
Sample Name:	248511014/968236/1/1/	Injection Volume:	1.0
Vial Number:	22	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 2:23	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.26	Fluoride	n.a.	0.1165		0.03158	8.80
2	7.10	Chloride	n.a.	0.4287		0.11338	31.60
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
4	13.28	Nitrate-N	n.a.	0.1085		0.01017	2.84
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	20.52	Sulfate	n.a.	0.7655		0.14291	39.83
Total:				1.4192	0.000	0.298	83.06

85 248511015/968236/1/1/

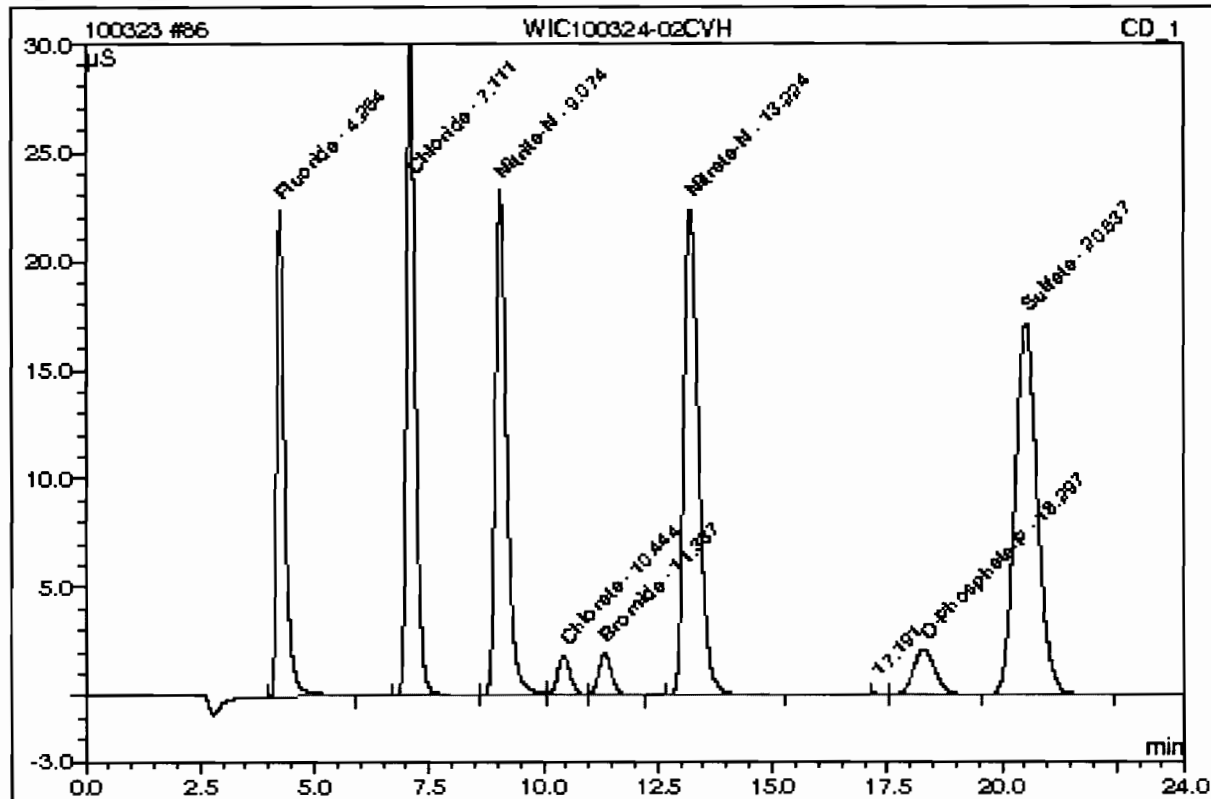
Sample Name:	248511015/968236/1/1/	Injection Volume:	1.0
Vial Number:	23	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 2:49	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area uS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1146		0.03048	22.62
2	7.10	Chloride	n.a.	0.3703		0.08641	64.12
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1155		0.01787	13.26
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.6005	0.000	0.135	100.00

86 WIC100324-02CVH

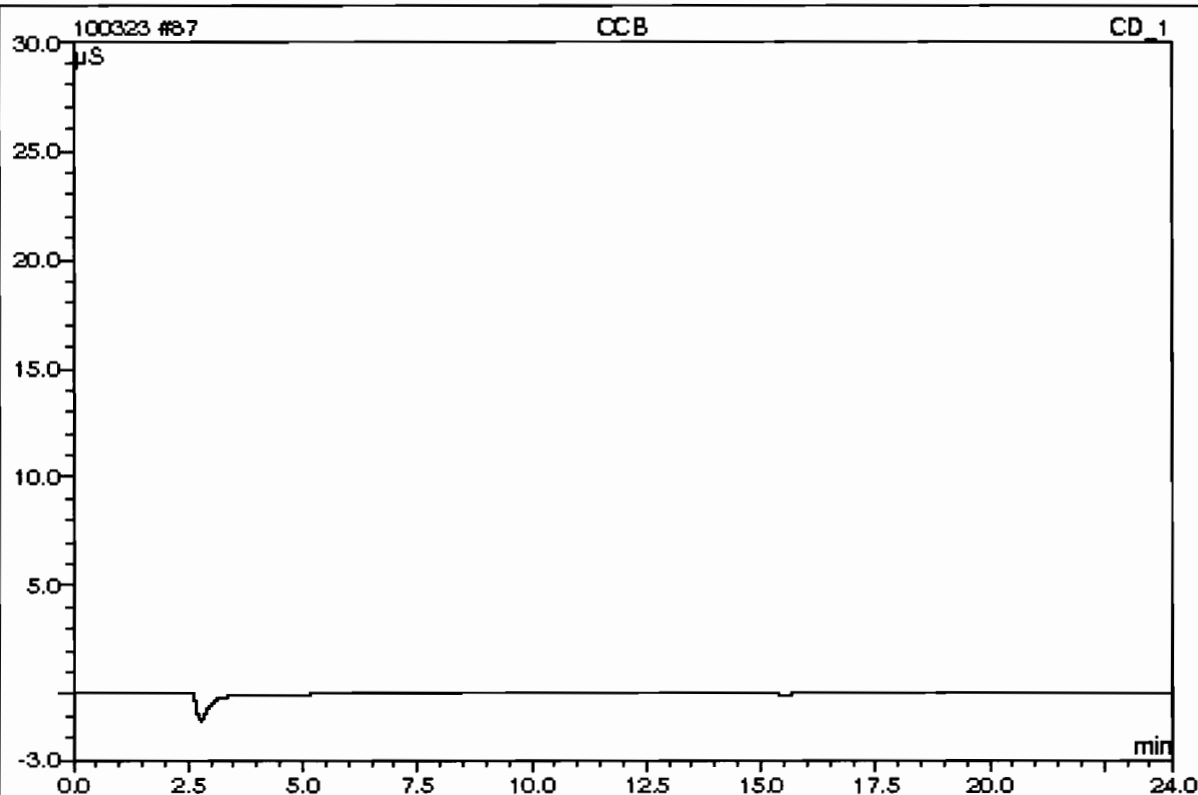
Sample Name:	WIC100324-02CVH	Injection Volume:	1.0
Vial Number:	24	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 3:18	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GLGCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.25	Fluoride	n.a.	7.6499		4.56649	11.85
2	7.11	Chloride	n.a.	15.1613		6.92076	17.96
3	9.07	Nitrite-N	n.a.	7.6274		6.71826	17.43
4	10.44	Chlorate	n.a.	3.8982		0.59327	1.54
5	11.34	Bromide	n.a.	3.9141		0.63656	1.65
6	13.22	Nitrate-N	n.a.	7.6153		8.25509	21.42
8	18.30	O-Phosphate-P	n.a.	3.9586		1.14518	2.97
9	20.54	Sulfate	n.a.	30.4314		9.68344	25.13
Total:				80.2562	0.000	38.519	99.95

87 CCB

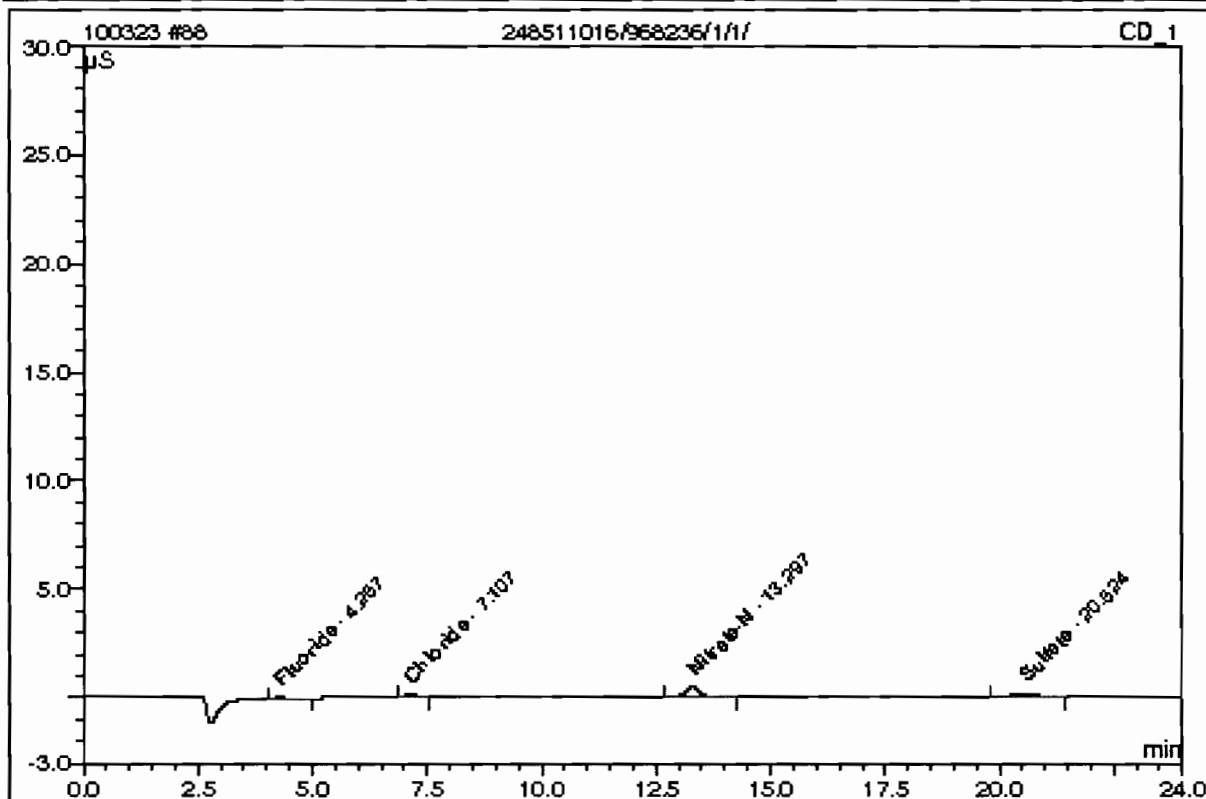
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	25	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 3:43	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

88 248511016/968236/1/1/

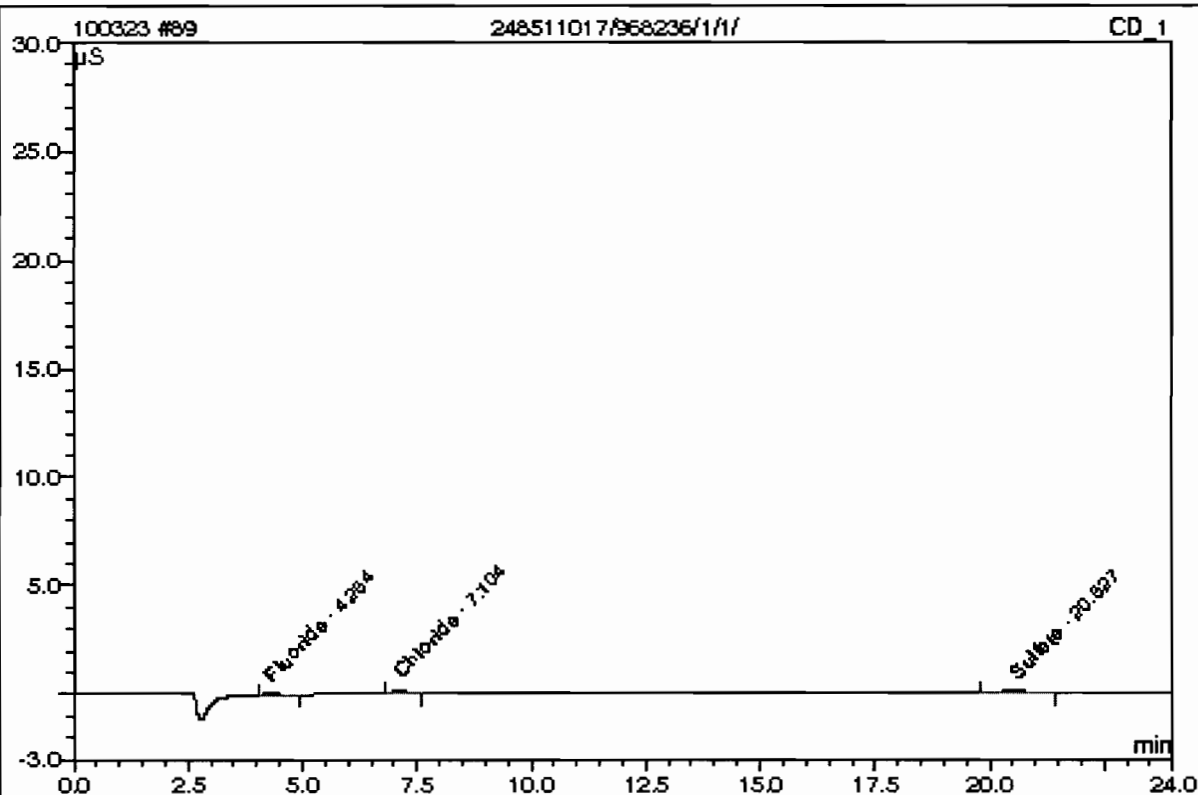
Sample Name:	248511016/968236/1/1/	Injection Volume:	1.0
Vial Number:	26	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 4:10	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.0892		0.01518	3.96
2	7.11	Chloride	n.a.	0.2915		0.04996	13.02
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.2770		0.19520	50.85
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.52	Sulfate	n.a.	0.7052		0.12350	32.18
Total:				1.3628	0.000	0.384	100.00

89 248511017/968236/1/1/

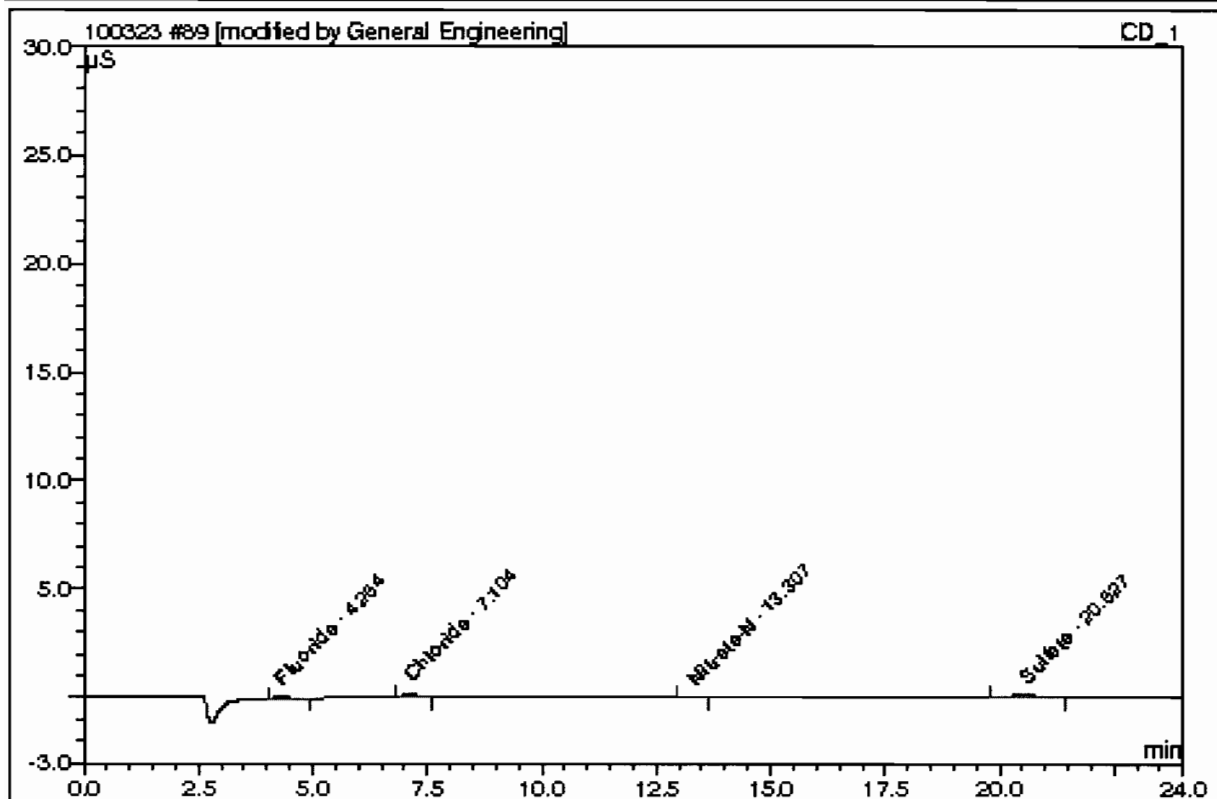
Sample Name:	248511017/968236/1/1/	Injection Volume:	1.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 4:37	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.26	Fluoride	n.a.	0.1071		0.02895	16.12
2	7.10	Chloride	n.a.	0.2963		0.05222	32.44
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.53	Sulfate	n.a.	0.5787		0.08282	51.44
Total:				0.9821	0.000	0.161	100.00

89 248511017/968236/1/1/

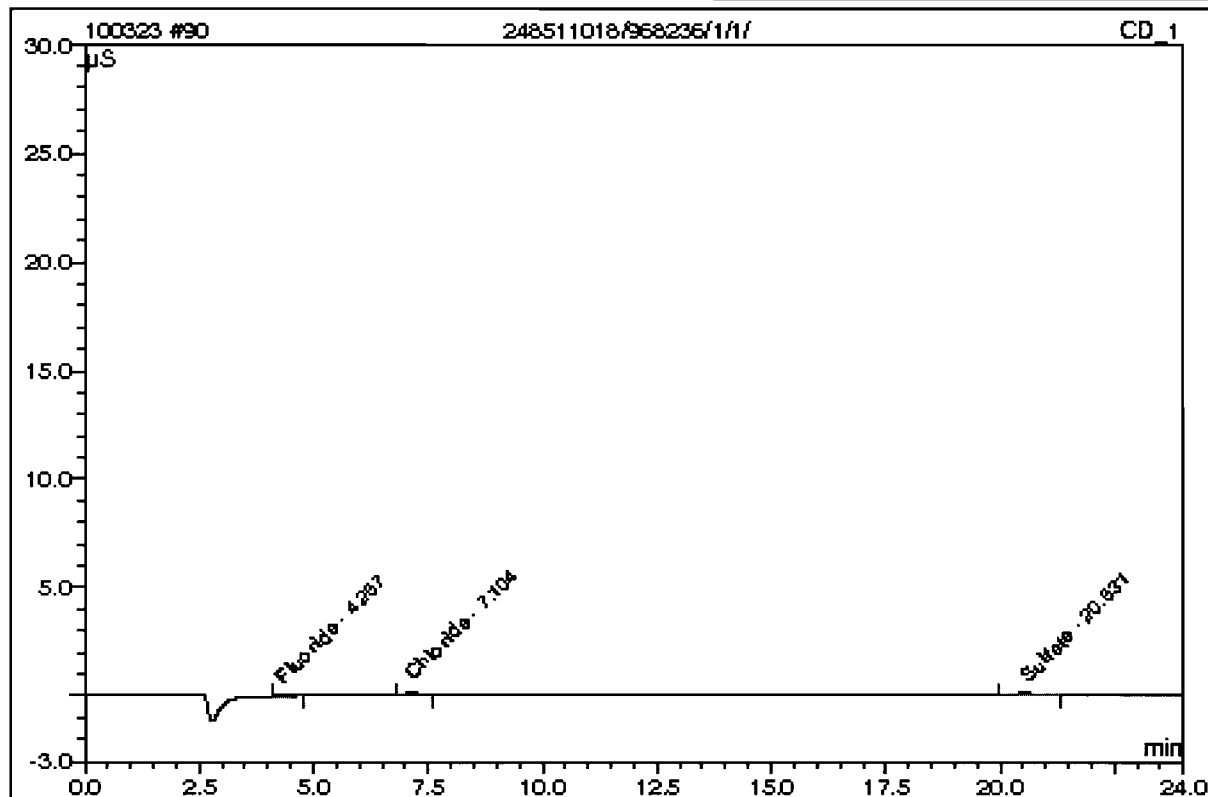
Sample Name:	248511017/968236/1/1/	Injection Volume:	1.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 4:37	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1071		0.02595	15.02
2	7.10	Chloride	n.a.	0.2963		0.05222	30.23
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.31	Nitrate-N	n.a.	0.1099		0.01174	6.80
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.53	Sulfate	n.a.	0.5787		0.08282	47.94
Total:				1.0921	0.000	0.173	100.00

90 248511018/968236/1/1/

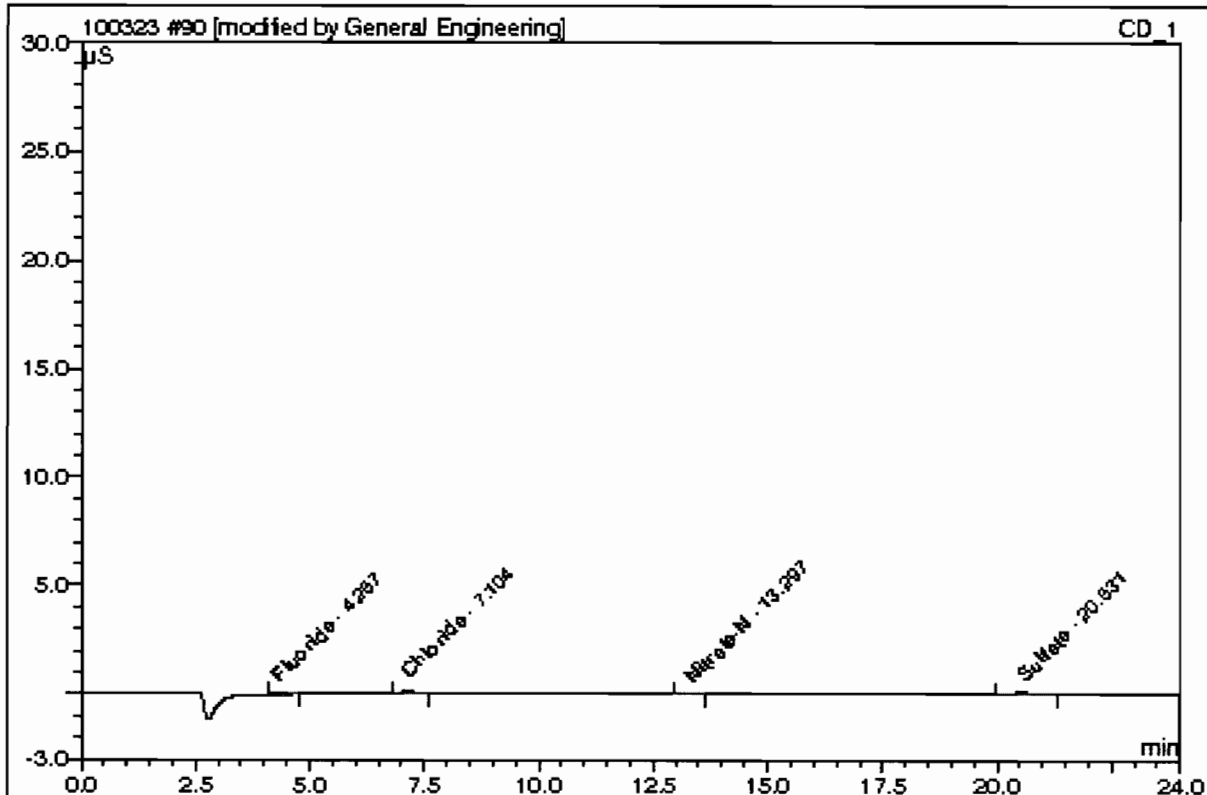
Sample Name:	248511018/968236/1/1/	Injection Volume:	1.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:04	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.0920		0.01688	13.61
2	7.10	Chloride	n.a.	0.2890		0.04882	39.38
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.53	Sulfate	n.a.	0.5023		0.05827	47.01
Total:				0.8834	0.000	0.124	100.00

90 248511018/968236/1/1/

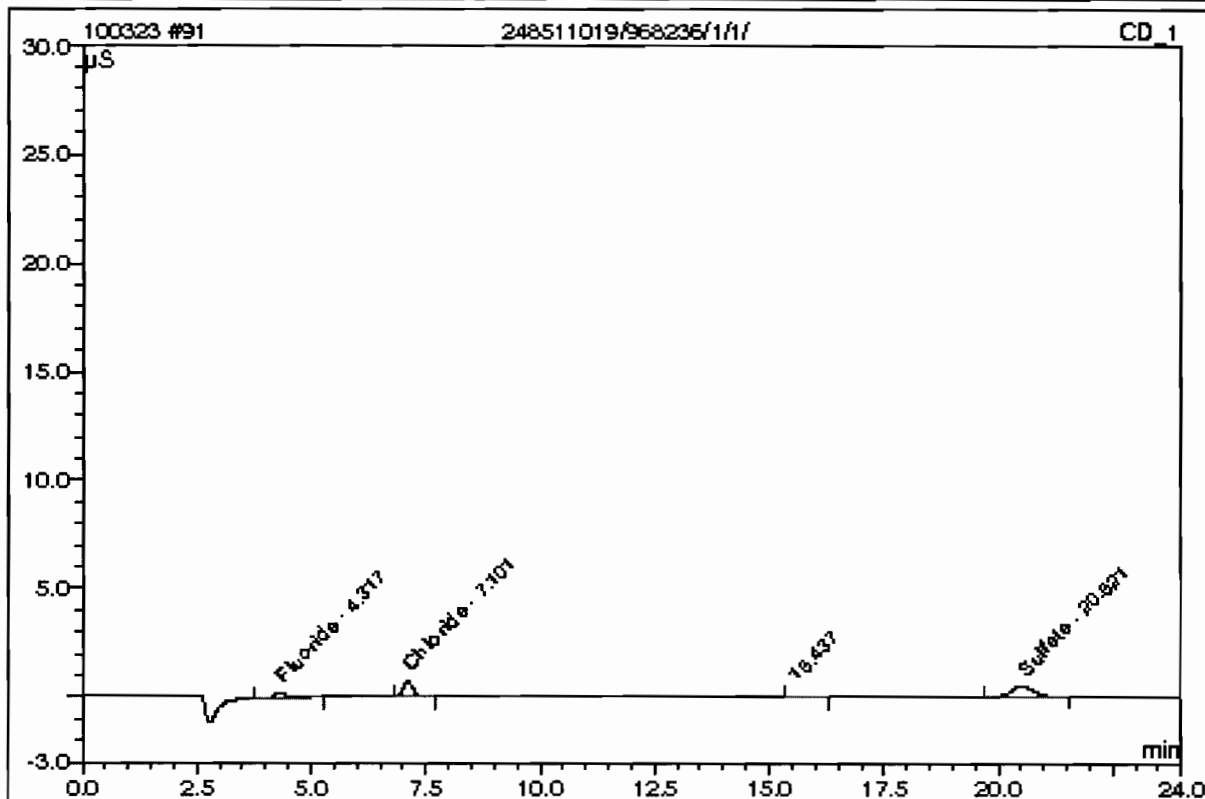
Sample Name:	248511018/968236/1/1/	Injection Volume:	1.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:04	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC E086;300;8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.27	Fluoride	n.a.	0.0920		0.01688	13.21
2	7.10	Chloride	n.a.	0.2890		0.04882	38.22
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.1027		0.00375	2.93
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.53	Sulfate	n.a.	0.5023		0.05827	45.63
Total:				0.9860	0.000	0.128	100.00

91 248511019/968236/1/1/

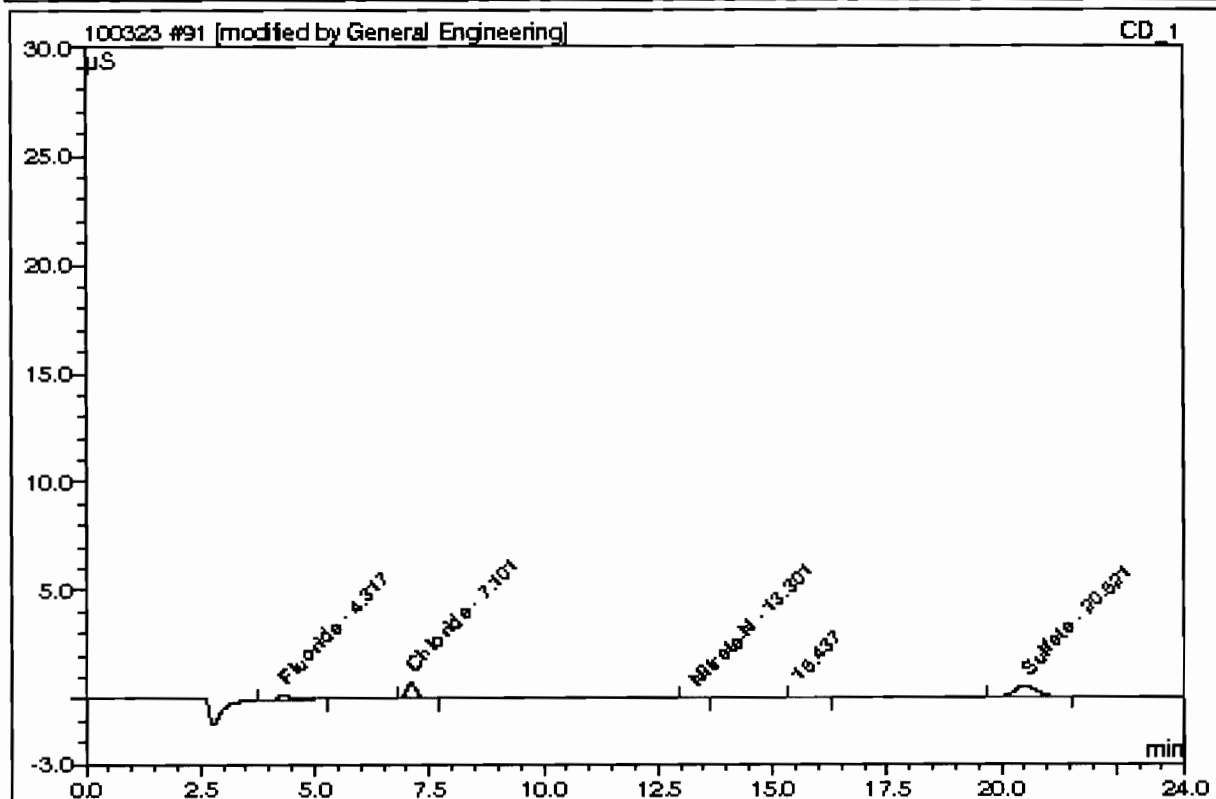
Sample Name:	248511019/968236/1/1/	Injection Volume:	1.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:31	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.32	Fluoride	n.a.	0.1854		0.07309	12.34
2	7.10	Chloride	n.a.	0.5782		0.18245	30.80
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
4	20.52	Sulfate	n.a.	1.2940		0.31287	52.82
Total:				2.0577	0.000	0.568	95.97

91 248511019/968236/1/1/

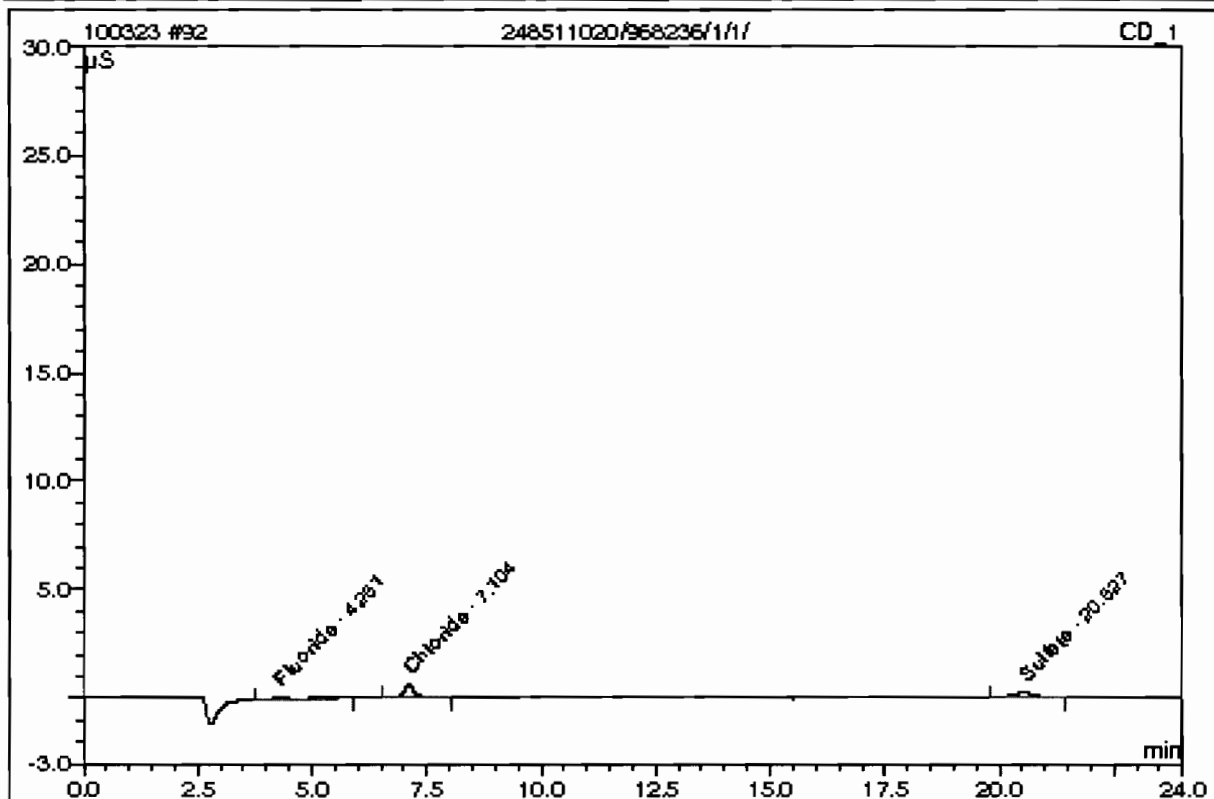
Sample Name:	248511019/968236/1/1/	Injection Volume:	1.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:31	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.32	Fluoride	n.a.	0.1854		0.07309	12.25
2	7.10	Chloride	n.a.	0.5782		0.18245	30.57
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	13.30	Nitrate-N	n.a.	0.1034		0.00452	0.76
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	20.52	Sulfate	n.a.	1.2940		0.31287	52.42
Total:				2.1810	0.000	0.573	96.00

92 248511020/968236/1/1/

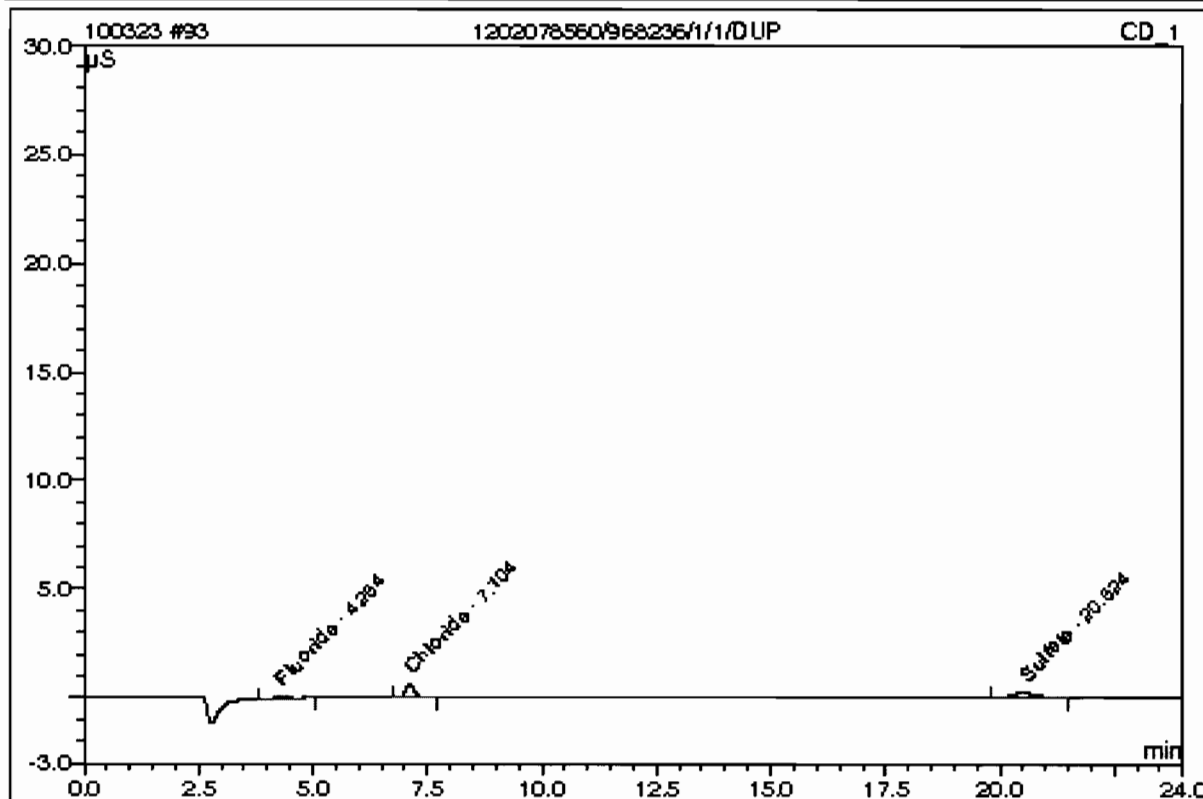
Sample Name:	248511020/968236/1/1/	Injection Volume:	1.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 5:58	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;8056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1562		0.05547	14.83
2	7.10	Chloride	n.a.	0.5459		0.16754	44.78
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.53	Sulfate	n.a.	0.7911		0.15113	40.39
Total:				1.4932	0.000	0.374	100.00

93 1202078560/968236/1/1/DUP

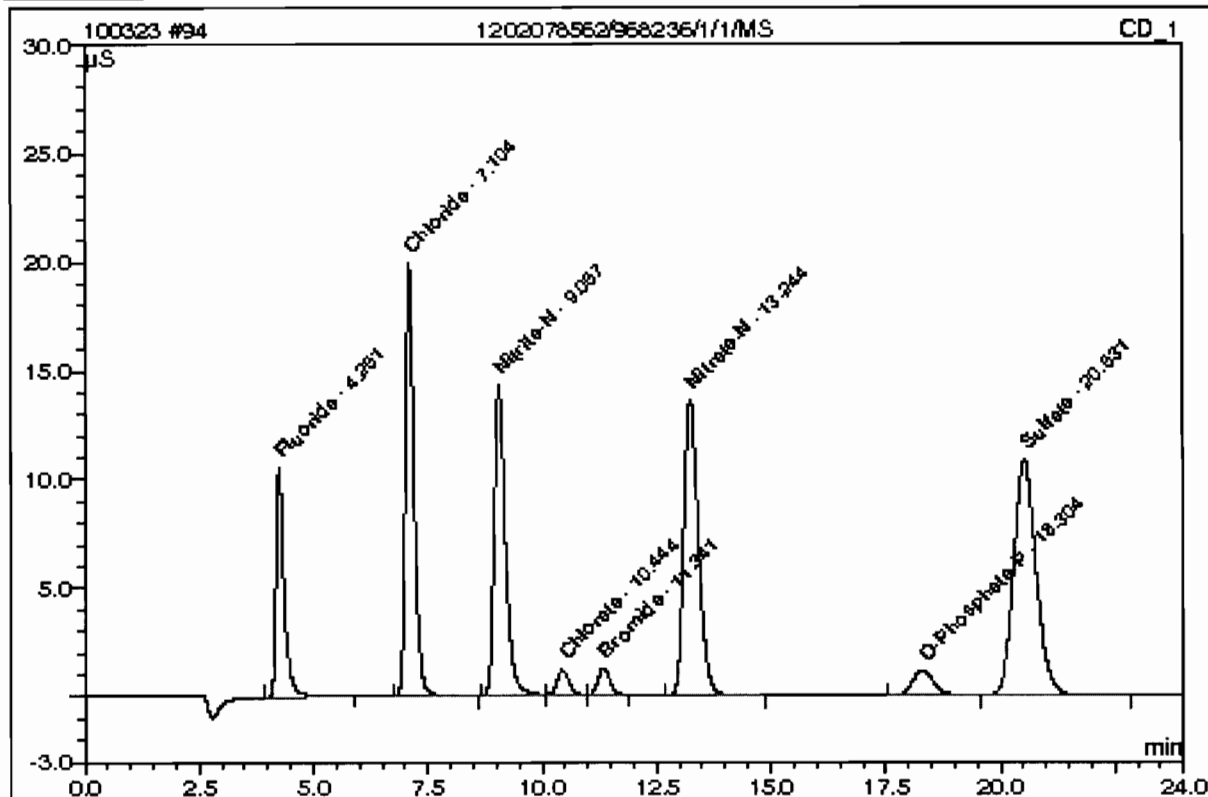
Sample Name:	1202078560/968236/1/1/DUP	Injection Volume:	1.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 6:25	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.26	Fluoride	n.a.	0.1103		0.02788	8.48
2	7.10	Chloride	n.a.	0.4892		0.14134	43.00
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.52	Sulfate	n.a.	0.8169		0.15944	48.51
Total:				1.4165	0.000	0.329	100.00

94 1202078562/968236/1/1/MS

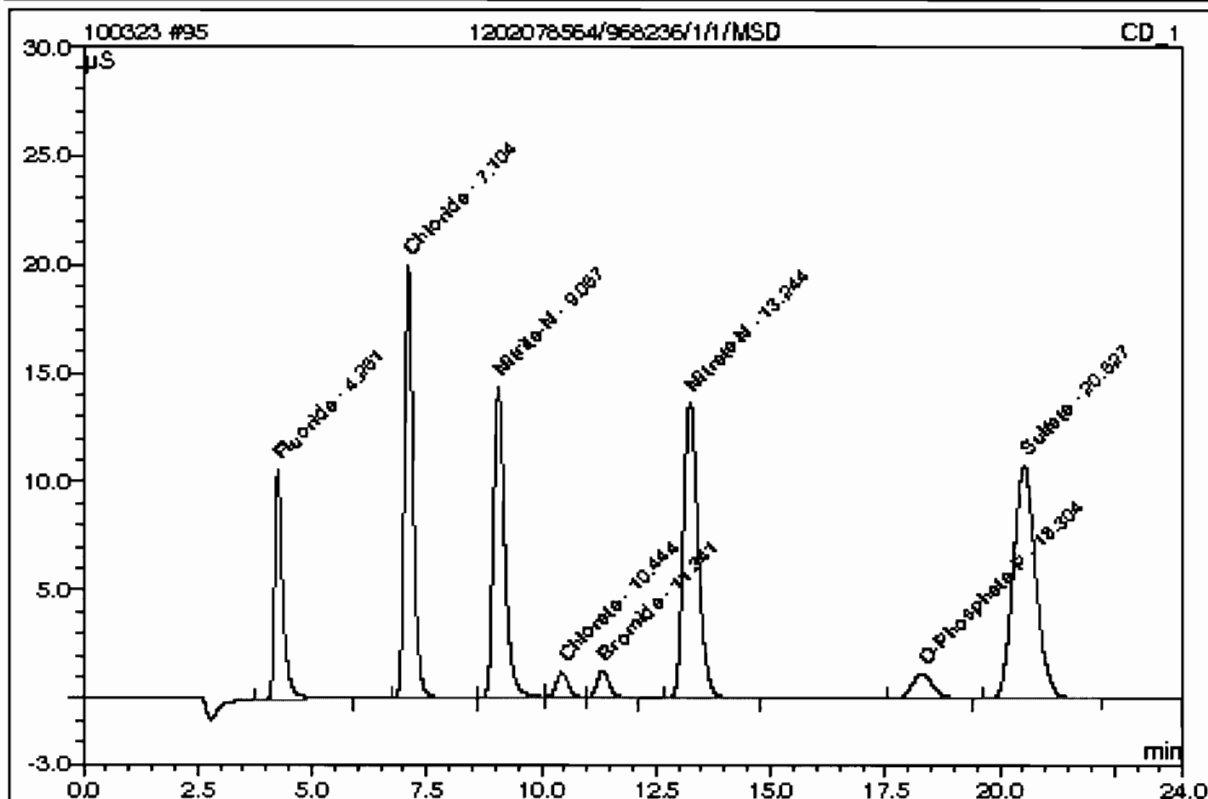
Sample Name:	1202078562/968236/1/1/MS	Injection Volume:	1.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 6:52	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.25	Fluoride	n.a.	3.6961		2.18641	9.38
2	7.10	Chloride	n.a.	9.7104		4.40211	18.89
3	9.07	Nitrite-N	n.a.	4.7277		4.14049	17.77
4	10.44	Chlorate	n.a.	2.4297		0.36638	1.57
5	11.34	Bromide	n.a.	2.3868		0.38587	1.66
6	13.24	Nitrate-N	n.a.	4.6593		5.00841	21.49
7	18.30	O-Phosphate-P	n.a.	2.1923		0.60995	2.62
8	20.53	Sulfate	n.a.	19.6167		6.20544	26.63
Total:				49.4191	0.000	23.305	100.00

95 1202078564/968236/1/1/MSD

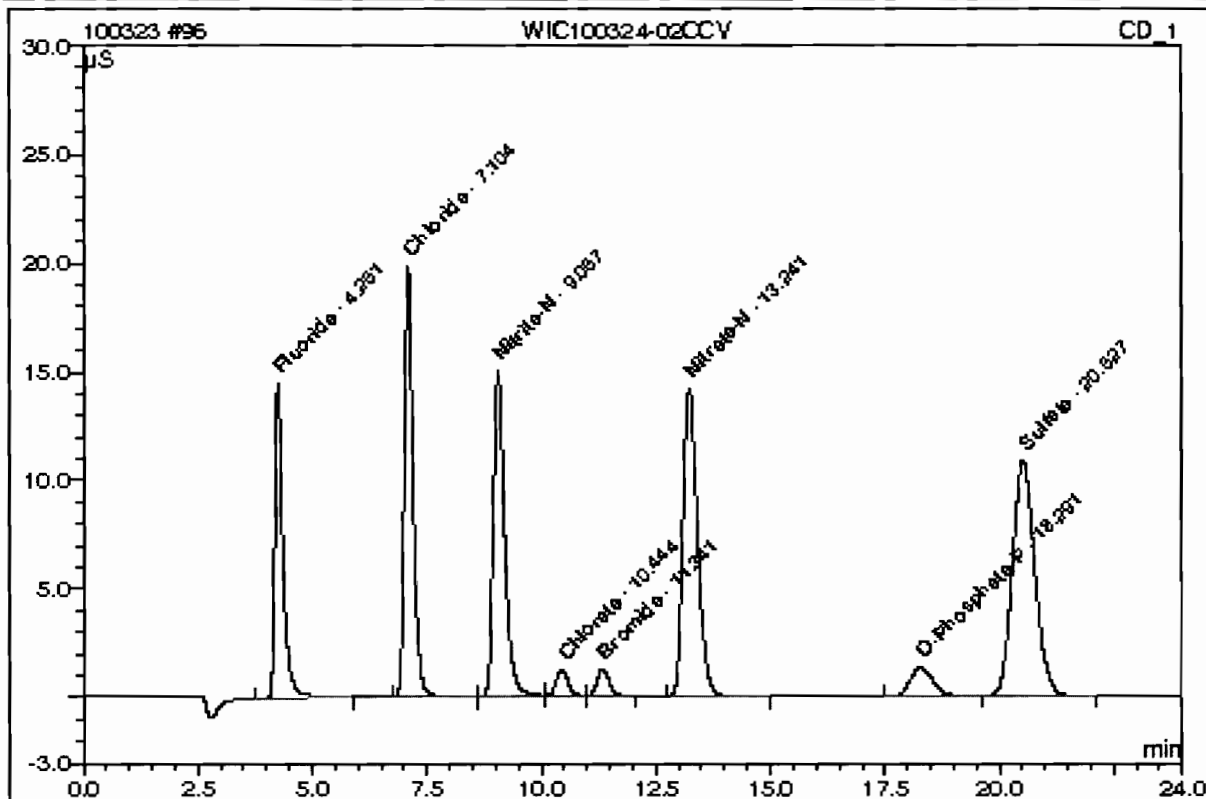
Sample Name:	1202078564/968236/1/1/MSD	Injection Volume:	1.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 7:19	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.25	Fluoride	n.a.	3.7068		2.19287	9.43
2	7.10	Chloride	n.a.	9.7059		4.40001	18.93
3	9.07	Nitrite-N	n.a.	4.7577		4.16718	17.92
4	10.44	Chlorate	n.a.	2.5125		0.37917	1.63
5	11.34	Bromide	n.a.	2.4978		0.40409	1.74
6	13.24	Nitrate-N	n.a.	4.6528		5.00123	21.51
7	18.30	O-Phosphate-P	n.a.	2.1640		0.60136	2.59
8	20.53	Sulfate	n.a.	19.2975		6.10279	26.25
Total:				49.2951	0.000	23.249	100.00

96 WIC100324-02CCV

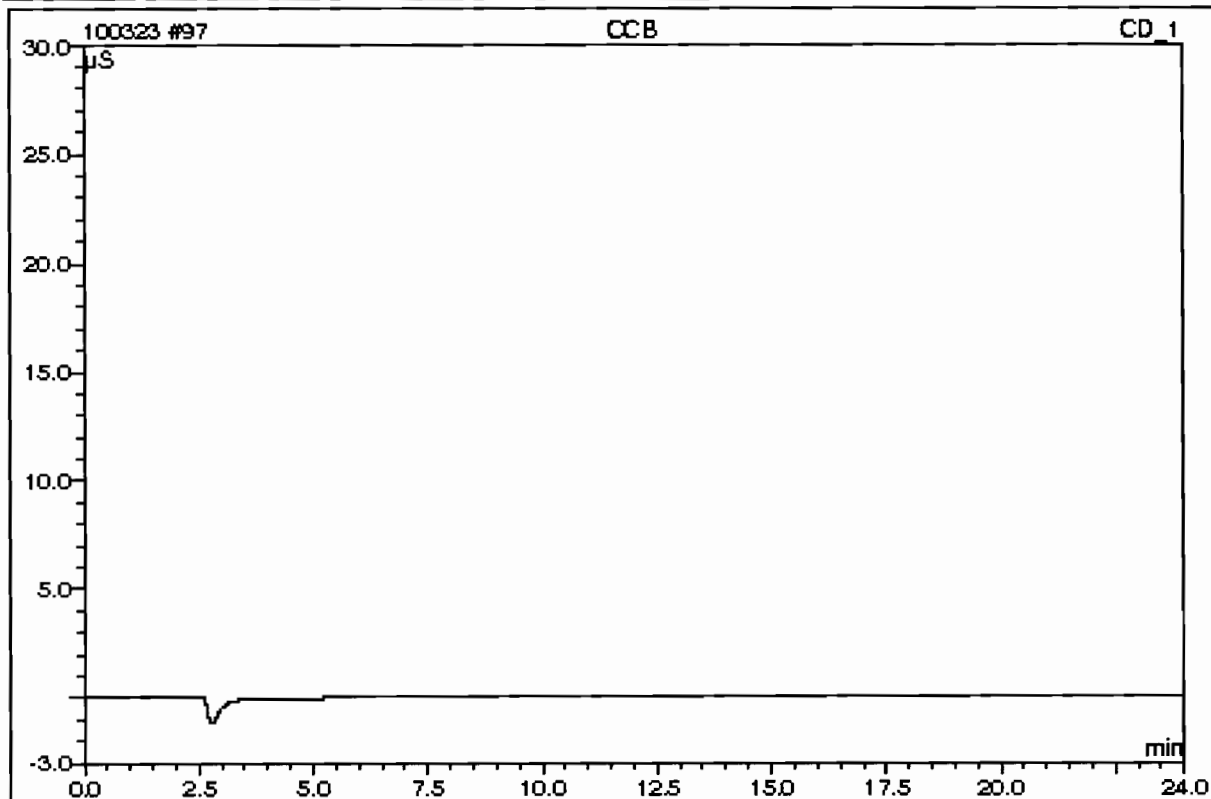
Sample Name:	WIC100324-02CCV	Injection Volume:	1.0
Vial Number:	34	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 7:45	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528; GL GC ED86;300;Ø5.6



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.25	Fluoride	n.a.	4.9935		2.96740	12.03
2	7.10	Chloride	n.a.	9.6603		4.37893	17.75
3	9.07	Nitrate-N	n.a.	4.9662		4.35250	17.64
4	10.44	Chlorate	n.a.	2.5737		0.38662	1.58
5	11.34	Bromide	n.a.	2.5186		0.40750	1.65
6	13.24	Nitrate-N	n.a.	4.8512		5.21919	21.16
7	18.29	O-Phosphate-P	n.a.	2.6943		0.75904	3.08
8	20.53	Sulfate	n.a.	19.5815		6.19413	25.11
Total:				51.8293	0.000	24.667	100.00

97 CCB

Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	35	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100323an	Sample Amount:	1.0000
Recording Time:	3/25/2010 8:12	Analyst:	MAR1
Run Time (min):	24.00	Column:	AS23-001528;GL GCE086;300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

pH

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 961560
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type Sample Id Serial Number Description
 CCV 240 IMM091029-PH PH 7 BUFFER FOR PH
 LCS 1202062456 IMM100209-01 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202062456 LCS		Soil	10:15	10:20	05-MAR-10 16:43	pH	20	20	6.95	17.1°C	7	99.286	
1202062456 LCS		Soil	10:15	10:20	05-MAR-10 16:43	pH 2	20	20	6.95	16.9°C	7	99.286	
248511008		Soil	10:15	10:20	05-MAR-10 16:44	pH	20	20	6.47	18.8°C			
248511008		Soil	10:15	10:20	05-MAR-10 16:44	pH 2	20	20	6.45	18.8°C			
1202062454 DUP	248511008	Soil	10:15	10:20	05-MAR-10 16:48	pH	20	20	6.43	18.9°C			.62
1202062454 DUP	248511008	Soil	10:15	10:20	05-MAR-10 16:48	pH 2	20	20	6.42	18.9°C			.466
248511009		Soil	10:15	10:20	05-MAR-10 16:52	pH	20	20	7.68	18.9°C			
248511009		Soil	10:15	10:20	05-MAR-10 16:52	pH 2	20	20	7.68	18.9°C			
1202062455 DUP	248511009	Soil	10:15	10:20	05-MAR-10 16:53	pH	20	20	7.76	19.0°C			1.036
1202062455 DUP	248511009	Soil	10:15	10:20	05-MAR-10 16:53	pH 2	20	20	7.75	19.0°C			.907
CCV			10:15	10:20	05-MAR-10 16:55	pH	20	20	6.98	17.1°C	7	99.714	
CCV			10:15	10:20	05-MAR-10 16:55	pH 2	20	20	6.98	17.1°C	7	99.714	
248511010		Soil	10:15	10:20	05-MAR-10 16:56	pH	20	20	7.58	18.9°C			
248511010		Soil	10:15	10:20	05-MAR-10 16:56	pH 2	20	20	7.58	18.9°C			
248511011		Soil	10:15	10:20	05-MAR-10 16:59	pH	20	20	6.4	18.9°C			
248511011		Soil	10:15	10:20	05-MAR-10 16:59	pH 2	20	20	6.37	18.9°C			
248511012		Soil	10:15	10:20	05-MAR-10 17:02	pH	20	20	6.68	18.9°C			
248511012		Soil	10:15	10:20	05-MAR-10 17:02	pH 2	20	20	6.67	18.9°C			
248511013		Soil	10:15	10:20	05-MAR-10 17:04	pH	20	20	6.13	18.9°C			
248511013		Soil	10:15	10:20	05-MAR-10 17:04	pH 2	20	20	6.11	19.0°C			
248511014		Soil	10:15	10:20	05-MAR-10 17:05	pH	20	20	6.29	19.0°C			
248511014		Soil	10:15	10:20	05-MAR-10 17:05	pH 2	20	20	6.27	19.0°C			
CCV			10:15	10:20	05-MAR-10 17:07	pH	20	20	7	17.2°C	7	100	
CCV			10:15	10:20	05-MAR-10 17:07	pH 2	20	20	6.99	17.2°C	7	99.857	
248511015		Soil	10:15	10:20	05-MAR-10 17:08	pH	20	20	6.54	19.0°C			
248511015		Soil	10:15	10:20	05-MAR-10 17:08	pH 2	20	20	6.49	19.0°C			
248511016		Soil	10:15	10:20	05-MAR-10 17:10	pH	20	20	6.09	19.1°C			
248511016		Soil	10:15	10:20	05-MAR-10 17:10	pH 2	20	20	6.07	19.1°C			

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 961560
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type: CCV
 Sample Id: 240
 Serial Number: IMM091029-PH
 Description: PH 7 BUFFER FOR PH
 LCS
 1202062456
 IMM100209-01
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
248511017		Soil	10:15	10:20	05-MAR-10 17:12	pH	20	20	5.74	19.1°C			
248511017		Soil	10:15	10:20	05-MAR-10 17:12	pH 2	20	20	5.71	19.1°C			
248511018		Soil	10:15	10:20	05-MAR-10 17:15	pH	20	20	6.44	19.1°C			
248511018		Soil	10:15	10:20	05-MAR-10 17:15	pH 2	20	20	6.41	19.1°C			
248511019		Soil	10:15	10:20	05-MAR-10 17:18	pH	20	20	5.59	19.1°C			
248511019		Soil	10:15	10:20	05-MAR-10 17:18	pH 2	20	20	5.57	19.1°C			
CCV			10:15	10:20	05-MAR-10 17:20	pH	20	20	7	17.3°C	7	100	
CCV			10:15	10:20	05-MAR-10 17:20	pH 2	20	20	7	17.3°C	7	100	
248511020		Soil	10:15	10:20	05-MAR-10 17:21	pH	20	20	6.13	19.0°C			
248511020		Soil	10:15	10:20	05-MAR-10 17:21	pH 2	20	20	6.12	19.1°C			
248515001		Soil	10:15	10:20	05-MAR-10 17:23	pH	20	20	5.48	19.1°C			
248515001		Soil	10:15	10:20	05-MAR-10 17:23	pH 2	20	20	5.48	19.1°C			
248515002		Soil	10:15	10:20	05-MAR-10 17:25	pH	20	20	6.19	19.2°C			
248515002		Soil	10:15	10:20	05-MAR-10 17:25	pH 2	20	20	6.17	19.3°C			
248515003		Soil	10:15	10:20	05-MAR-10 17:26	pH	20	20	6.46	19.3°C			
248515003		Soil	10:15	10:20	05-MAR-10 17:26	pH 2	20	20	6.49	19.4°C			
248517001		Soil	10:15	10:20	05-MAR-10 17:28	pH	20	20	6.69	19.2°C			
248517001		Soil	10:15	10:20	05-MAR-10 17:28	pH 2	20	20	6.69	19.3°C			
CCV			10:15	10:20	05-MAR-10 17:29	pH	20	20	7.01	17.5°C	7	100.143	
CCV			10:15	10:20	05-MAR-10 17:29	pH 2	20	20	7.01	17.5°C	7	100.143	
248520001		Soil	10:15	10:20	05-MAR-10 17:30	pH	20	20	6.15	19.5°C			
248520001		Soil	10:15	10:20	05-MAR-10 17:30	pH 2	20	20	6.12	19.5°C			
248520002		Soil	10:15	10:20	05-MAR-10 17:33	pH	20	20	6.29	19.4°C			
248520002		Soil	10:15	10:20	05-MAR-10 17:33	pH 2	20	20	6.31	19.5°C			
248520003		Soil	10:15	10:20	05-MAR-10 17:35	pH	20	20	6.8	19.5°C			
248520003		Soil	10:15	10:20	05-MAR-10 17:35	pH 2	20	20	6.79	19.5°C			
CCV			10:15	10:20	05-MAR-10 17:38	pH	20	20	7.03	17.9°C	7	100.429	
CCV			10:15	10:20	05-MAR-10 17:38	pH 2	20	20	7.02	17.9°C	7	100.286	

pH / Corrosivity LogBook

Calibration Information:

Run Date: 05-MAR-10 08:00
Instrument: PHX370
Analyst: TXT1

Comments:

Standard	Observed	Theoretical	C	%Recovery
IMM100305-PH1	4	4	SU	21.4
IMM100305-PH2	6.99	7	SU	21.4
UPH100305-PH3	9.97	10	SU	21.4
UPH100305-PH4	2.02	2	SU	21.4
UPH100305-PH5	11.94	12	SU	21.4
IMM100305-PH6	6.98	7	SU	21.4

pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 961559
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type Sample Id Serial Number Description
 CCV 240 IMM091029-PH PH 7 BUFFER FOR PH
 LCS 1202062453 IMM100209-01 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202062453 LCS		Soil	12:00	12:05	05-MAR-10 14:24	pH	20	20	7.03	20.0°C	7	100.429	
1202062453 LCS		Soil	12:00	12:05	05-MAR-10 14:24	pH 2	20	20	7.01	20.2°C	7	100.143	
248374001		Soil	12:00	12:05	05-MAR-10 14:26	pH	20	20	6.28	18.1°C			
248374001		Soil	12:00	12:05	05-MAR-10 14:26	pH 2	20	20	6.3	18.3°C			
1202062451 DUP	248374001	Soil	12:00	12:05	05-MAR-10 14:30	pH	20	20	6.3	18.1°C			.318
1202062451 DUP	248374001	Soil	12:00	12:05	05-MAR-10 14:30	pH 2	20	20	6.32	18.1°C			.317
248374002		Soil	12:00	12:05	05-MAR-10 14:31	pH	20	20	6.34	17.7°C			
248374002		Soil	12:00	12:05	05-MAR-10 14:31	pH 2	20	20	6.36	18.1°C			
1202062452 DUP	248374002	Soil	12:00	12:05	05-MAR-10 14:33	pH	20	20	6.41	18.9°C			1.098
1202062452 DUP	248374002	Soil	12:00	12:05	05-MAR-10 14:33	pH 2	20	20	6.42	19.0°C			.939
CCV			12:00	12:05	05-MAR-10 14:33	pH	20	20	7.03	18.0°C	7	100.429	
CCV			12:00	12:05	05-MAR-10 14:33	pH 2	20	20	7.03	18.0°C	7	100.429	
248374003		Soil	12:00	12:05	05-MAR-10 14:37	pH	20	20	6.28	18.1°C			
248374003		Soil	12:00	12:05	05-MAR-10 14:37	pH 2	20	20	6.31	18.7°C			
248374004		Soil	12:00	12:05	05-MAR-10 14:40	pH	20	20	6.71	19.0°C			
248374004		Soil	12:00	12:05	05-MAR-10 14:40	pH 2	20	20	6.74	19.0°C			
248374005		Soil	12:00	12:05	05-MAR-10 14:43	pH	20	20	6.07	18.1°C			
248374005		Soil	12:00	12:05	05-MAR-10 14:43	pH 2	20	20	6.07	18.3°C			
248374006		Soil	12:00	12:05	05-MAR-10 14:44	pH	20	20	6.76	18.4°C			
248374006		Soil	12:00	12:05	05-MAR-10 14:44	pH 2	20	20	6.78	18.4°C			
248374007		Soil	12:00	12:05	05-MAR-10 14:46	pH	20	20	6.44	18.7°C			
248374007		Soil	12:00	12:05	05-MAR-10 14:46	pH 2	20	20	6.45	18.7°C			
CCV			12:00	12:05	05-MAR-10 14:48	pH	20	20	7.03	18.3°C	7	100.429	
CCV			12:00	12:05	05-MAR-10 14:48	pH 2	20	20	7.02	18.3°C	7	100.286	
248374008		Soil	12:00	12:05	05-MAR-10 14:51	pH	20	20	6.17	18.1°C			
248374008		Soil	12:00	12:05	05-MAR-10 14:51	pH 2	20	20	6.19	18.5°C			
248374009		Soil	12:00	12:05	05-MAR-10 14:55	pH	20	20	6.49	18.8°C			
248374009		Soil	12:00	12:05	05-MAR-10 14:55	pH 2	20	20	6.5	18.7°C			

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Page# _____

pH / Corrosivity LogBook

Analyst: EXF1
 Batch: 961559
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)	Description	
														Type	Serial Number
248374010		Soil	12:00	12:05	05-MAR-10 14:56	pH	20	20	6.85	18.2°C				CCV	IMM091029-PH
248374010		Soil	12:00	12:05	05-MAR-10 14:56	pH 2	20	20	6.86	18.1°C					PH 7 BUFFER FOR PH
248374011		Soil	12:00	12:05	05-MAR-10 14:58	pH	20	20	6.14	19.0°C					LCS BUFFER SOLUTION
248374011		Soil	12:00	12:05	05-MAR-10 14:58	pH 2	20	20	6.19	19.1°C					
248374012		Soil	12:00	12:05	05-MAR-10 15:01	pH	20	20	6.7	18.5°C					
248374012		Soil	12:00	12:05	05-MAR-10 15:01	pH 2	20	20	6.72	18.4°C					
CCV			12:00	12:05	05-MAR-10 15:02	pH	20	20	7.01	18.6°C	7	100.143			
CCV			12:00	12:05	05-MAR-10 15:02	pH 2	20	20	7.01	18.6°C	7	100.143			
248374013		Soil	12:00	12:05	05-MAR-10 15:06	pH	20	20	6.85	18.7°C					
248374013		Soil	12:00	12:05	05-MAR-10 15:06	pH 2	20	20	6.85	19.2°C					
248511001		Soil	12:00	12:05	05-MAR-10 15:12	pH	20	20	7.05	18.4°C					
248511001		Soil	12:00	12:05	05-MAR-10 15:12	pH 2	20	20	7.07	18.5°C					
248511002		Soil	12:00	12:05	05-MAR-10 15:13	pH	20	20	5.95	18.0°C					
248511002		Soil	12:00	12:05	05-MAR-10 15:13	pH 2	20	20	5.94	17.6°C					
248511003		Soil	12:00	12:05	05-MAR-10 15:15	pH	20	20	5.8	18.4°C					
248511003		Soil	12:00	12:05	05-MAR-10 15:15	pH 2	20	20	5.79	18.2°C					
248511004		Soil	12:00	12:05	05-MAR-10 15:16	pH	20	20	6.55	18.7°C					
248511004		Soil	12:00	12:05	05-MAR-10 15:16	pH 2	20	20	6.56	18.6°C					
CCV			12:00	12:05	05-MAR-10 15:17	pH	20	20	7.03	18.8°C	7	100.429			
CCV			12:00	12:05	05-MAR-10 15:17	pH 2	20	20	7.02	18.9°C	7	100.286			
248511005		Soil	12:00	12:05	05-MAR-10 15:19	pH	20	20	6.46	19.7°C					
248511005		Soil	12:00	12:05	05-MAR-10 15:19	pH 2	20	20	6.51	19.8°C					
248511006		Soil	12:00	12:05	05-MAR-10 15:23	pH	20	20	6.4	19.4°C					
248511006		Soil	12:00	12:05	05-MAR-10 15:23	pH 2	20	20	6.4	19.3°C					
248511007		Soil	12:00	12:05	05-MAR-10 15:24	pH	20	20	6.45	19.3°C					
248511007		Soil	12:00	12:05	05-MAR-10 15:24	pH 2	20	20	6.46	19.3°C					
CCV			12:00	12:05	05-MAR-10 15:25	pH	20	20	7.03	18.9°C	7	100.429			
CCV			12:00	12:05	05-MAR-10 15:25	pH 2	20	20	7.02	18.9°C	7	100.286			

pH / Corrosivity LogBook

Calibration Information:

Run Date: 05-MAR-10 08:08
Instrument: PHX742
Analyst: LXA1

Comments:

Standard	Observed	Theoretical	C	%Recovery
08:08 IMM100305-PH1	4.01	4	SU 21.5	100.25
08:08 IMM100305-PH2	7.03	7	SU 21.5	100.43
08:08 UPH100305-PH3	10.03	10	SU 21.5	100.3
08:08 UPH100305-PH4	2.04	2	SU 21.5	102
08:08 UPH100305-PH5	11.98	12	SU 21.5	99.833
08:08 IMM100305-PH6	7.01	7	SU 21.5	100.14